

THE FOLLOWING ADDITIONAL INFORMATION IS PROVIDED UNDER:

SECTION 149(5) OF THE ENVIRONMENTAL PLANNING AND ASSESSMENT ACT 1979

For the purposes of Section 149(5), the following information is provided in relation to the subject property:

1. The subject land is not affected by a Foreshore Building Line.
2. Any enquiries relating to whether or not the land has frontage to a classified road or a controlled access road should be referred directly to the RTA on 02 4221 2495.

3. **SECOND SYDNEY AIRPORT PROPOSAL.**

In November 1996 the Commonwealth Government released details of five airport options being considered for the development of a second major airport for Sydney at either Badgerys Creek or the Holsworthy Military Area. In September 1997, the Government abandoned the Holsworthy option and announced that the Draft Environmental Impact Statement would concentrate on Badgerys Creek. The Government also released the Draft Environmental Impact Statement Summary, which gives an indication of the impact of the proposal on the local environment. Information on the proposal and the Summary of the Draft Environmental Impact Statement can be obtained from the Federal Department of Transport.

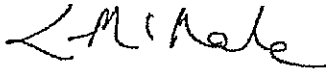
4. Other Matters (if applicable).

DRAFT WOLLONDILLY DEVELOPMENT CONTROL PLAN 2009

Draft Wollondilly Development Control Plan 2009 has been placed on public exhibition. The draft plan proposes to replace all current Development Control Plans and Policies applying to the land. It has been prepared in conjunction with Draft Wollondilly Local Environmental Plan 2009 which is also on public exhibition. Further information can be obtained from Council's website or by contacting Council's Strategic Planning Department or Customer Service Centre.

Note. Section 26 of the *Nation Building and Jobs Plan (State Infrastructure Delivery) Act 2009* provides that a planning certificate must include advice about any exemption under section 23 or authorisation under section 24 of that Act if the council is provided with a copy of the exemption or authorisation by the Co-ordinator General under that Act.

In respect of matters beyond the control and/or responsibility of Council, information provided is provided only to the extent that Council has been so notified by the relevant Authorities or Departments, which have responsibility for the administration of the particular status referred to.

A handwritten signature in black ink, appearing to read 'L. McMahon', written in a cursive style.

L McMahon
GENERAL MANAGER

Any request for further information in connection with the above should be directed to Council's Duty Planner on (02) 4677 1100.

NOTICE TO PURCHASERS OF RURAL LAND

Wollondilly Shire Council supports the rights of persons in rural areas of the Shire to undertake and pursue agricultural production activities that are consistent with land capability and use reasonable and practical measures to avoid environmental harm and minimise impact to adjoining land users. Intending purchasers are advised that agricultural production **can** include the following activities that may have implications for occupiers and prospective purchasers of rural land:

Use of agricultural machinery (tractors, chainsaws, motorbikes)

Use of bird-scare devices

Intensive livestock production (cattle feedlots, poultry farms, piggeries, restricted dairies)

Operation of rural industries (packing sheds, abattoirs, stock and sale yards, sawmills)

Vegetation clearing

Grazing of livestock

Crop and fodder production

Soil cultivation

Crop harvesting

Use of firearms

Bushfire hazard reduction burning

Construction of firebreaks

Earthworks (construction of dams, drains, contour banks, access roads and tracks)

Fencing

Pumping and irrigation

Use of pesticides and herbicides

Spreading of manure, compost and treated effluent

Fertiliser usage

Slashing and mowing of grass

Production of silage

Re-vegetation activities (planting trees and shrubs)

Agroforestry

Livestock droving on roads

This is not an exhaustive list and intending purchasers of rural land should assess surrounding agricultural land uses and the impact these activities may have when being pursued in close proximity their proposed purchase. If you think these types of activities will affect your ability to live in a rural locality then intending purchasers are advised to reconsider their purchase and seek independent advice.

This notice is not intended to affect the rights of individuals to take action under the common law or legislation and is provided for information purposes only.

Appendix G

Heritage Records



Working with the community to know, value and care for our heritage.



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Search for NSW Heritage

Search the **online database** or **State Heritage Inventory** of more than 20,000 heritage items on statutory lists in New South Wales, including items listed on the **State Heritage Register**. If you are unfamiliar with this search facility, **click here for help**.

Basic Search Criteria

Name of Item

Street Name

Suburb/Town

Local

Government

Wollondilly

Area

Heritage

Listings

Additional Search Criteria

NOTE: For items listed by local councils, there may not be information in the Additional Search Criteria fields.

Owner

Organisation

Designer/Maker

Item Type

Item Group

Australian

Historic Theme

NSW Historic

Theme

Information
complete

☐

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Click on the BACK button of your browser to return to the search.

Statutory Listed Items

Information and items listed in the State Heritage Inventory come from a number of sources. This means that there may be several entries for the same heritage item in the database. For clarity, the search results have been divided into two sections.

- **Section 1.** contains items listed by the **Heritage Council** under the NSW Heritage Act. This includes listing on the State Heritage Register, an Interim Heritage Order or protected under section 136 of the NSW Heritage Act. This information is provided by the Heritage Branch.
- **Section 2.** contains items listed by **Local Councils & Shires and State Government Agencies**. This section may also contain additional information on some of the items listed in the first section.

Section 1. Items listed under the NSW Heritage Act.

Click on an item name to view the full details.

The search results can be re-sorted by clicking on the **(sort)** option at the top of each column.

Item Name (sort)	Address (sort)	Suburb (sort)	LGA (sort)	Listed Under Heritage Act
Abbotsford	Oaks Road	Picton	Wollondilly	Yes
Bargo Railway Viaduct	Main Southern railway 96.265 kms	Bargo	Wollondilly	Yes
Brownlow Hill Estate	Brownlow Hill Loop Road	Orangeville	Wollondilly	Yes
Camden Park	Elizabeth Macarthur Avenue	Menangle	Wollondilly	Yes
Camden Park Estate and Belgenny Farm	Elizabeth Macarthur Avenue	Camden	Camden	Yes
Cataract Dam	Cataract Dam Road	Cataract Dam	Wollondilly	Yes
Cordeaux Dam	Cordeaux River	Cordeaux	Wollondilly	Yes
Couridjah Railway Station	Main Southern railway	Couridjah	Wollondilly	Yes
Hill 60/ Illowra Battery	Military Road	Port Kembla	Wollongong City	Yes
Jarvisfield	Hume Highway Deviation	Picton	Wollondilly	Yes
Megarritys Bridge	Warragamba Dam	Warragamba	Wollondilly	Yes
Menangle rail bridge over Nepean River	Main Southern railway	Menangle; Gilead	Wollondilly	Yes
Menangle Railway Station group	Main Southern railway	Menangle	Wollondilly	Yes
Nepean Dam - Wall & Valve House	Avon Dam Road	Bargo	Wollondilly	Yes

Picton Railway Station group	Main Southern railway	Picton	Wollondilly	Yes
Picton railway viaduct over Stonequarry Creek	Main Southern Railway	Picton	Wollondilly	Yes
Rail Paybus FP1	NSW Rail Transport Museum Barbour Road	Thirlmere	Wollondilly	Yes
Tahmoor Railway Station group	Main Southern railway	Tahmoor	Wollondilly	Yes
Upper Canal System (Pheasants Nest Weir to Prospect Reservoir)		Prospect	Blacktown	Yes
Victoria Bridge over Stonequarry Creek	Prince Street	Picton	Wollondilly	Yes
Warragamba Dam - Haviland Park	Warragamba Dam	Warragamba	Wollondilly	Yes
Warragamba Emergency Scheme	Warragamba Dam	Warragamba	Wollondilly	Yes
Wilton Park	Wilton Park Road	Maldon	Wollondilly	Yes
Wirrimbirra Sanctuary	Hume Highway	Bargo	Wollondilly	Yes
Wollongong Railway Station group	Illawarra railway	Wollongong	Wollongong City	Yes

There were **25** records in this section matching your search criteria.

Section 2. Items listed by Local Government and State agencies.

Item Name (sort)	Address (sort)	Suburb (sort)	LGA (sort)	Information Source (sort)
AAH 19 - Commissioner's Carriage (old)	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
AAH 8 - Officer's Inspection Carriage	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
AB 90 - Dining Car	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
Abbotsford Cottage & Brick Outbuilding: Abbotsford Group	Oaks Road	Picton	Wollondilly	LGOV
Abbotsford Group	Oaks Road	Picton	Wollondilly	LGOV
Abbotsford House Ruins: Abbotsford Group	Oaks Road	Picton	Wollondilly	LGOV
Abbotsford Trees, Gardens & Grounds: Abbotsford Group	Oaks Road	Picton	Wollondilly	LGOV
Abbotsford Underground Water Storage Tank: Abbotsford Group	Oaks Road	Picton	Wollondilly	LGOV
ABX 1007 - Pullman Sitting / Sleeping Car	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
Anglican Church (Former): Cawdor Village Group	Cawdor Road	Cawdor	Wollondilly	LGOV

Anglican Rectory	99-103 Argyle Street	Picton	Wollondilly	LGOV
Anthill Park Golf Course	off Remembrance Drive	Picton	Wollondilly	LGOV
Antill Park Golf Clubhouse: Jarvisfield Group	Jarvisfield Street	Picton	Wollondilly	LGOV
Antill Park Stone Barn/Pro Golf Shop: Jarvisfield Group	Jarvisfield Street	Picton	Wollondilly	LGOV
Barrigal Monument and Vista	Camden Park Drive	Menangle	Wollondilly	SGOV
BCH 32259 - Bogie Coal Hopper	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
BCS 2356 - 'Southern Aurora' Lounge Car	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
BCS 2357 - 'Southern Aurora' Lounge Car	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
BCS 2379 - 'Southern Aurora' Lounge Car	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
BD 28184 (L 1204) - Bogie Open Merchandise Wagon	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
Bellefield	33 Pitt Street	Tahmoor	Wollondilly	LGOV
BI 1564 - First-Class 'American' Car	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
BKD 711 - Prison Van	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
Blaxlands Crossing; Nepean River		Wallacia	Wollondilly	LGOV
Blaxlands Farm	Silverdale Road	Wallacia	Wollondilly	LGOV
Broughtons Pass Weir		Appin	Wollondilly	LGOV
Brownlow Hill Aviary	Brownlow Hill Loop Road	Camden / Brownlow Hill	Wollondilly	LGOV
Brownlow Hill Garden and Trees	Brownlow Hill Loop Road	Camden / Brownlow Hill	Wollondilly	LGOV
Brownlow Hill Group	Brownlow Hill Loop Road	Camden / Brownlow Hill	Wollondilly	LGOV
Brownlow Hill Homestead	Brownlow Hill Loop Road	Camden / Brownlow Hill	Wollondilly	LGOV
Brownlow Hill Homestead	Brownlow Hill Loop Road	Camden / Brownlow Hill	Wollondilly	LGOV
Brownlow Hill Round House	Brownlow Hill Loop Road	Camden / Brownlow Hill	Wollondilly	LGOV
Brownlow Hill Stables	Brownlow Hill Loop Road	Camden / Brownlow Hill	Wollondilly	LGOV
Bunya Pine	Remembrance Driveway	Tahmoor	Wollondilly	LGOV
Buxton house	57-59 East Pde	Buxton	Wollondilly	LGOV
Buxton Primary School	Wallaroo Road and Norwood Road	Buxton	Wollondilly	LGOV

BX 1142 - First-Class Express Lavatory carriage	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
C 3045 - 'Bradfield' Suburban Car	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
C 3804 - Tulloch Suburban Motor Car	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
Camden Park Estate Central Creamery	Station Street	Menangle	Wollondilly	LGOV
Camden Park Estate Group	Camden Park Estate	Camden	Wollondilly	LGOV
Camden Park Garden	Camden Park Estate Road	Camden	Wollondilly	LGOV
Camden Park Mansion (The)	Camden Park Estate	Camden	Wollondilly	LGOV
Camden Park Rotolactor	Station Street	Menangle	Wollondilly	LGOV
Camden Valley Inn	Remembrance Driveway	Camden	Wollondilly	LGOV
Campbell St Cottage, No.10: PUCA Campbell St Group	10 Campbell Street	Picton	Wollondilly	LGOV
Campbell St Cottage, No.12: Campbell St Group	12 Campbell Street	Picton	Wollondilly	LGOV
Campbell St Cottage, No.13: Campbell St Group	13 Campbell Street	Picton	Wollondilly	LGOV
Campbell St Cottage, No.14: Campbell St Group	14 Campbell Street	Picton	Wollondilly	LGOV
Campbell St Cottage, No.15: Campbell St Group	15 Campbell Street	Picton	Wollondilly	LGOV
Campbell St Cottage, No.16: Campbell St Group	16 Campbell Street	Picton	Wollondilly	LGOV
Campbell St Cottage, No.17: Campbell St Group	17 Campbell Street	Picton	Wollondilly	LGOV
Campbell St Cottage, No.18: Campbell St Group	18 Campbell Street	Picton	Wollondilly	LGOV
Campbell St Cottage, No.20: Campbell St Group	20 Campbell Street	Picton	Wollondilly	LGOV
Campbell St Cottage, No.21: PUCA Campbell St Group	21 Campbell Street	Picton	Wollondilly	LGOV
Campbell St Cottage, No.5: Campbell St Group	5 Campbell Street	Picton	Wollondilly	LGOV
Campbell St Cottage, No.6: Campbell St Group	6 Campbell Street	Picton	Wollondilly	LGOV
Campbell St Cottage, No.7: PUCA Campbell St Group	7 Campbell Street	Picton	Wollondilly	LGOV
Campbell St Cottage, No.8: PUCA Campbell St Group	8 Campbell Street	Picton	Wollondilly	LGOV
Campbell St Cottage, No.9: PUCA Campbell St Group	9 Campbell Street	Picton	Wollondilly	LGOV
Campbell St Group: Picton				

Urban Conservation Area	Campbell Street	Picton	Wollondilly	LGOV
Campbell St House, No.2: PUCA Campbell St Group	2 Campbell Street	Picton	Wollondilly	LGOV
Cataract Dam		(not given)	Wollondilly	LGOV
Cawdor Group School Residence: Cawdor Group (Old)	Old Cawdor Village	Cawdor	Wollondilly	LGOV
Cawdor Public School Residence: Cawdor Village Group	Cawdor Road	Cawdor	Wollondilly	LGOV
CBC 1089 - Pullman Sitting Car	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
CBC 1090 - Pullman Sitting Car	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
CCA 1273 - Composite Brake 'American' Car	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
Cemetery	Old Southern Road	Bargo	Wollondilly	LGOV
Cemetery and Trees	Station Street	Thirlmere	Wollondilly	LGOV
Charleville	Bents Basin Road	Wallacia	Wollondilly	LGOV
Coomeroo Silo and Slab Shed : Old Coomeroo Group	Old Southern Road	Bargo	Wollondilly	LGOV
Cordeaux Dam and Pumping Station		(not given)	Wollondilly	LGOV
Cottage	78 Thirlmere Way	Thirlmere	Wollondilly	LGOV
Cottages (3) on ridge above the orchard	Camden Park Estate	Camden	Wollondilly	LGOV
Cottages (3) on slope above the orchard	Camden Park Estate Road	Camden	Wollondilly	LGOV
Couridjah Railway Culvert	750m north of station	Couridjah	Wollondilly	SGOV
Couridjah Railway Station	Bargo River Road	Couridjah	Wollondilly	SGOV
Courthouse (Former)	62 Main Street	Appin	Wollondilly	LGOV
Courthouse (former): East Yerranderie Group		Yerranderie	Wollondilly	LGOV
Courthouse: Commercial & Civic Group	Old Hume Highway	Picton	Wollondilly	LGOV
CPH 18 - Rail Motor	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
Creamery Site	Cawdor Road	Cawdor	Wollondilly	LGOV
CW 10 - Cattle Wagon	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
Dairy No 4	EMAI Woodbridge Road	Menangle	Wollondilly	SGOV
Dairy No 8	Remembrance Drive	Camden	Multiple LGAs	SGOV
Dairy No 8	Remembrance Drive	Camden	Wollondilly	SGOV

Dairy No 9	Remembrance Drive	Camden	Multiple LGAs	SGOV
Dairy No 9	Remembrance Drive	Camden	Wollondilly	SGOV
Dairy No.4	Camden Park Estate	Camden	Wollondilly	LGOV
Dairy No.8	Remembrance Drive	Camden	Wollondilly	LGOV
Dairy No.9	Camden Park Estate	Camden	Wollondilly	LGOV
Darcy's House (Site of)	Main Street	Appin	Wollondilly	LGOV
Denfield Villa	Old Hume Highway	Tahmoor	Wollondilly	LGOV
EFS 2090 - Second-Class Sitting Car	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
Elizabeth Macarthur Agricultural Institute	Woodbridge Road	Menangle	Camden	SGOV
Elizabeth Macarthur Agricultural Institute	Woodbridge Road	Menangle	Wollondilly	SGOV
Elladale	Elladale Road	Appin	Wollondilly	LGOV
Fairley Residence (Former)	426 Old Hume Highway	Picton	Wollondilly	LGOV
FAM 2391 - Twinette Sleeping Car	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
FO 1563 - Second-Class 'American' Car	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
FO 1565 - Second-Class 'American' Car	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
FO 1671 - Second-Class 'American' Car	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
FO 1688 - Second-Class 'American' Car	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
FO 1690 - Second-Class 'American' Car	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
FP 1 - Rail Pay Bus	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
Furniture Store: Commercial & Civic Group	Menangle Road	Picton	Wollondilly	LGOV
Furriers Factory (Former): Picton Urban Conservation Area		Picton	Wollondilly	LGOV
Furriers Factory Gates: Picton Urban Conservation Area	Station Street	Picton	Wollondilly	LGOV
FZ 909 - Safeworking Instruction Car	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
Gatehouse (former) and Tollkeeper's Cottage	236 Argyle Street	Picton	Wollondilly	LGOV
George IV Inn	Hume Highway	Picton	Wollondilly	LGOV
Gilbulla (Anglican Conference Centre)	Moreton Park Road	Menangle	Wollondilly	LGOV

Glendiver	Glendiver Road	The Oaks	Wollondilly	LGOV
Glenmore Churchyard: Glenmore Uniting Church Group	Moores Way	Glenmore	Wollondilly	LGOV
Glenmore House: Glenmore Group	Moores Way	Glenmore	Wollondilly	LGOV
Glenmore Uniting Church	Moore's Way	Glenmore	Wollondilly	LGOV
Great Southern Hotel (Former)	249 Menangle Road	Picton	Wollondilly	LGOV
GT 83 - Railmotor Trailer	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
Hamlet Cottages, The	Camden Park Drive	Menangle	Wollondilly	SGOV
Hawthorne	Hawthorne Road	Bargo	Wollondilly	LGOV
Hermitage Convict Graves Site: Hermitage Group	Hermitage Road	The Oaks	Wollondilly	LGOV
Hermitage Farmhouse: Hermitage Group	Hermitage Road	The Oaks	Wollondilly	LGOV
Hermitage Group	Hermitage Road	The Oaks	Wollondilly	LGOV
Hermitage Stone Terracing: Hermitage Group		The Oaks	Wollondilly	LGOV
Hermitage Trees & Garden: Hermitage Group		The Oaks	Wollondilly	LGOV
HFA 1957 - Second-Class 'American' Brake Car	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
HFO 1566 - Second-Class 'American' Sitting / Brake Car	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
HFO 1665 - Second-Class Brake 'American' Car	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
HFS 2017 - Second-Class Sitting Car	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
HKL 360 - Mail Van	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
Hotel Bargo	Southern Road	Bargo	Wollondilly	LGOV
Hotel Picton (former)	Argyle Street	Picton	Wollondilly	LGOV
House	North Street	Thirlmere	Wollondilly	LGOV
House	42 Argyle Street	Picton	Wollondilly	LGOV
House	53 Argyle Street	Picton	Wollondilly	LGOV
House	51 Argyle Street	Picton	Wollondilly	LGOV
House	49 Argyle Street	Picton	Wollondilly	LGOV
House, Slab House and Hayshed	Cawdor Road	Cawdor	Wollondilly	LGOV
HX 1006 - Pullman Sitting Car	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV

Imperial Hotel: PUCA Upper Menangle St Group	Menangle Street	Picton	Wollondilly	LGOV
James Cottage	404 Hume Highway	Picton	Wollondilly	LGOV
Jarvisfield Group	Off Remembrance Drive	Picton	Wollondilly	LGOV
Jarvisfield Store: PUCA Upper Menangle St Group	207 Menangle Street	Picton	Wollondilly	LGOV
K 25373 - 4-wheeled Open Merchandise Wagon	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
KAM 508 - Deluxe 'Main- Line' Sleeping Car	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
Kings Falls Bridge Over Georges River	Bulli - Appin Road	Appin	Wollondilly	SGOV
KKG 1529 - Horse Box	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
Koorana Homestead & Outbuildings: Koorana Group	Old Hume Highway	Picton	Wollondilly	LGOV
Koorana Trees: Koorana Group	off Old Hume Highway	Picton	Wollondilly	LGOV
L 1327 - Crane Wagon	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
L 177 - Accident Van	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
L 287 - Open Wagon	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
L 289x (S 3422) - Open Wagon	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
L 625 - Open Wagon	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
L 743 - Accident Crane Jib Carrier	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
L 829 - Open Wagon	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
L 953 - Coal Hopper	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
LAN 2352 - 'Southern Aurora' Roomette Sleeping Car	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
LAN 2377 - 'Southern Aurora' Roomette Sleeping Car	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
Larkin Cottage	1 Elizabeth Street	Picton	Wollondilly	LGOV
Larkin Cottage	5 Elizabeth Street	Picton	Wollondilly	LGOV
LFA 153 - Second-Class 'American' Car	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
LFX 1776 - Second-Class Express Lavatory Carriage	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV

LHG 20628 - Bogie Brake Van	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
Locomotive, Diesel 4306	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
Locomotive, Diesel 4490	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
Locomotive, Diesel 4520	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
Locomotive, Diesel 4803	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
Locomotive, Steam 1021	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
Locomotive, Steam 1033	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
Locomotive, Steam 1301	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
Locomotive, Steam 1709	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
Locomotive, Steam 1803	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
Locomotive, Steam 1905 (with Tender T 284)	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
Locomotive, Steam 2029	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
Locomotive, Steam 2510	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
Locomotive, Steam 2606	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
Locomotive, Steam 2705	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
Locomotive, Steam 3001	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
Locomotive, Steam 3085	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
Locomotive, Steam 3137	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
Locomotive, Steam 3526	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
Locomotive, Steam 3609 (with Tender t3671)	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
Locomotive, Steam 3642	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
Locomotive, Steam 3801	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
Locomotive, Steam 3820	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
Locomotive, Steam 5595	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV

Locomotive, Steam 5908	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
Locomotive, Steam 5910	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
Locomotive, Steam 6040	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
Locomotive, Steam 78	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
Locomotive, Steam Crane 1034	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
Locomotive, Steam PWD 79	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
Locomotive, Steam, Coal Grab 1064	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
Lupton's Inn Site	Remembrance driveway	Bargo	Wollondilly	LGOV
Macquarie House	55 Argyle Street	Picton	Wollondilly	LGOV
Macquarie Monument near Barragal Lagoon	Camden Park Estate	Camden	Wollondilly	LGOV
Maldon Weir		Maldon	Wollondilly	LGOV
MAM 907 - "Main-Line" Sleeping Car	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
MBC 22959 - Bogie Refrigerator Van	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
MBE 62 - First Class "Main-Line" Sitting Car	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
Menangle Gate Lodge	46 Woodbridge Road	Menangle	Wollondilly	SGOV
Menangle Gate Lodge (Former)	46 Woodbridge Road	Menangle	Wollondilly	LGOV
Menangle Store	57 Menangle Street	Menangle	Wollondilly	LGOV
Methodist Church Group	Cawdor Road	Cawdor	Wollondilly	LGOV
MHO 2624 - Passenger Brakevan	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
Morton Park: Mountbatten Group	Duggan Street	Douglas Park	Wollondilly	LGOV
Mountbatten Garden Building: Mountbatten Group	Duggan Street	Douglas Park	Wollondilly	LGOV
Mountbatten House: Mountbatten Group	Duggan Street	Douglas Park	Wollondilly	LGOV
Mountbatten Stone Chapel: Mountbatten Group	Duggan Street	Douglas Park	Wollondilly	LGOV
Mowbray Park Group: gatehouse, group of buildings	Barkers Lodge Road	Mowbray Park	Wollondilly	LGOV
Mowbray Park homestead and outbuildings: Mowbray Park Group	Barkers Lodge Road	Mowbray Park	Wollondilly	LGOV

Mrs Barnes' Boarding House: Yerranderie Group		Yerranderie West	Wollondilly	LGOV
Mt Hercules Group	Mt Hercules Road	Razorback	Wollondilly	LGOV
Mt Hunter Creamery	Burraborang Road	Mount Hunter	Wollondilly	LGOV
Myrtle Creek Bridge	Old Hume Highway	Tahmoor	Wollondilly	LGOV
NAM 2338 - 'Southern Aurora' Twinette Sleeping Car	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
NAM 2373 - 'Southern Aurora' Twinette Sleeping Car	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
NAM 2375 - 'Southern Aurora' Twinette Sleeping Car	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
National Australia Bank & Coachhouse: Commercial & Civic Grp	55-57 Menangle Street	Picton	Wollondilly	LGOV
Noakes Store	John Street	The Oaks	Wollondilly	LGOV
Northamptondale Group	Brooks Point Road	Appin	Wollondilly	LGOV
Northamptondale House: Northamptondale Group	Brooks Point Road	Appin	Wollondilly	LGOV
Northamptondale Slab Farm Outbuildings: Northamptondale Grp	Brooks Point Road	Appin	Wollondilly	LGOV
Northamptondale Trees: Northamptondale Group	Brooks Point Road	Appin	Wollondilly	LGOV
NPF 623 - Diesel Power Car	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
NTC 723 - Diesel Trailer Car	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
Oakdale Timber Mill	Mill Road	Oakdale	Wollondilly	LGOV
Oakdale Winery Cottage	Burraborang Road	Oakdale	Wollondilly	LGOV
Oaks Schoolhouse, The	John St/Burraborang Street	The Oaks	Wollondilly	LGOV
Old Coomeroo Homestead: Old Coomeroo Group	Old Southern Road	Bargo	Wollondilly	LGOV
Orchard Cottages	Camden Park Drive	Camden	Wollondilly	SGOV
Orchard Site including Camellia Garden, trees, piggery and storage shed	Camden Park Estate	Camden	Wollondilly	LGOV
Orchard, The	Camden Park Drive	Camden	Wollondilly	SGOV
PFZ 2219 - First-Class Air-Cond. Sitting / Brake Car	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
PHA 2394 - Power Van	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
PHA 2396 - Coaching Stock - Power Van	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV

Pheasants Nest Weir (Nepean River)		Wilton	Wollondilly	LGOV
Picton cottage	87 Menangle Street	Picton	Wollondilly	LGOV
Picton Loopline Level Crossing Site	Hume Highway	Picton	Wollondilly	LGOV
Picton Mainline Railway Loop and Tunnel		Picton	Wollondilly	LGOV
Picton Railway Precinct		Picton	Wollondilly	SGOV
Picton Railway Signal Box: PUCA Railway Station Group		Picton	Wollondilly	LGOV
Picton Railway Station Group: Picton Urban Conservation Area		Picton	Wollondilly	LGOV
Picton Railway Station: PUCA Railway Station Group	Station Street	Picton	Wollondilly	LGOV
Picton Reservoir (WS 0147)	Remembrance Drive	Picton	Wollondilly	SGOV
Picton Stationmasters Res. (fmr): PUCA Railway Station Group	Prince Street	Picton	Wollondilly	LGOV
Picton Urban Conservation Area		Picton	Wollondilly	LGOV
Picton Weir		Bargo	Wollondilly	LGOV
Police Station (former): East Yerranderie Group		Yerranderie	Wollondilly	LGOV
Post Office: Commercial & Civic Group		Picton	Wollondilly	LGOV
Queen Victoria Hospital	Thirlmere Way	Thirlmere	Wollondilly	LGOV
Railway Bridge (hole in the wall)	Argyle Street	Picton	Wollondilly	LGOV
Railway Bridge North of Railway Station	Wellers Road	Bargo	Wollondilly	LGOV
Railway Bridge South of Railway Station	Tylers Road	Bargo	Wollondilly	LGOV
Railway Station		Menangle	Wollondilly	LGOV
Railway Station	Bargo Street	Couridjah	Wollondilly	LGOV
Railway Station Complex	Southern Road	Bargo	Wollondilly	LGOV
Railway Viaduct	Menangle Road	Menangle	Wollondilly	LGOV
Railway Viaduct		Bargo	Wollondilly	LGOV
Ravenswood	Bents Basin Road	Wallacia	Wollondilly	LGOV
Razorback Inn	Hume Highway/Remembrance Driveway	Picton	Wollondilly	LGOV
RBX 647 - First-Class,	NSW Rail Transport			

Buffet 'Main-Line' Sitting Car	Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
Redbank Range Railway Tunnel		Picton	Wollondilly	LGOV
Redbank Uniting Church	Hume Highway	Picton (Redbank)	Wollondilly	LGOV
RMS 2358 - 'Southern Aurora' Dining Car	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
RMS 2359 - 'Southern Aurora' Dining Car	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
Robert Moore's House: Glenmore Group	Moore's Way	Glenmore	Wollondilly	LGOV
Rockford Crossing	Remembrance Drive	Picton	Wollondilly	LGOV
Rogers Stone Cottage	402 Old Hume Highway	Picton (Redbank)	Wollondilly	LGOV
Roman Catholic Church: East Yerranderie Group		Yerranderie	Wollondilly	LGOV
RS 1962 - 'Daylight' Buffet Diner	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
RU 24468 - Grain Hopper Wagon	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
S 6542 - Open Wagon	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
Sarahville	Bents Basin Road	Wallacia	Wollondilly	LGOV
Schoolmasters Residence	Main Road	Appin	Wollondilly	LGOV
Silky Oaks: Glenmore Uniting Church Group	Lot 21 Moore's Way	Glenmore	Wollondilly	LGOV
Slab Hut & Trees	470 Cawdor Road	Cawdor	Wollondilly	LGOV
St Aloysius Church	Merlin Street	The Oaks	Wollondilly	LGOV
St Aloysius Presbytery	Merlin Street	The Oaks	Wollondilly	LGOV
St Aloysius Presbytery (Old)	Merlin Street	The Oaks	Wollondilly	LGOV
St Aloysius Roman Catholic Church Group	Merlin Street	The Oaks	Wollondilly	LGOV
St Aloysius Schoolhouse	Merlin Street	The Oaks	Wollondilly	LGOV
St Bedes Cemetery: St Bedes Group		Appin	Wollondilly	LGOV
St Bedes Group	King St/Main Street	Appin	Wollondilly	LGOV
St Bedes Roman Catholic Church and graveyard	King Street	Appin	Wollondilly	LGOV
St James Anglican Church	Menangle Road	Menangle	Wollondilly	LGOV
St Lukes Anglican Church	Argyle Street	Wilton	Wollondilly	LGOV
St Lukes Anglican Church and Trees	Merlin Street	The Oaks	Wollondilly	LGOV

St Mark the Evangelist Group	Bulli Road	Appin	Wollondilly	LGOV
St Marks Anglican Cemetery & Grounds:St Marks Anglican Group	Menangle St West	Picton	Wollondilly	LGOV
St Marks Anglican Church: St Mark the Evangelist Group	Bulli Road	Appin	Wollondilly	LGOV
St Marks Anglican Church: St Marks Anglican Group	Menangle St West	Picton	Wollondilly	LGOV
St Marks Graveyard: St Mark the Evangelist Group	Bulli Road	Appin	Wollondilly	LGOV
St Marks Rectory (Former): St Mark the Evangelist Group	5 Glebe Cl	Appin	Wollondilly	LGOV
St Mary's Towers Group	Mt Kiera Road	Douglas Park	Wollondilly	LGOV
St Marys Towers	Mt Kiera Road	Douglas Park	Wollondilly	LGOV
St Matthews Church: St Mathews Group	Old Oaks Road	The Oaks	Wollondilly	LGOV
St Patricks Roman Catholic Church	Menangle Street	Menangle	Wollondilly	LGOV
Stone Cottage	Main Street	Appin	Wollondilly	LGOV
Stone Culverts		Couridjah	Wollondilly	LGOV
Stonequarry Creek Bridge piers	Hume Highway/Argyle Street	Picton	Wollondilly	LGOV
Stonequarry Creek Quarry Site		Picton	Wollondilly	LGOV
Stonequarry Creek Railway Viaduct		Picton	Wollondilly	LGOV
Stratford House	Old Hume Highway	Tahmoor	Wollondilly	LGOV
Suspension Bridge (Nepean River)	Wilton Park Road	Maldon	Wollondilly	LGOV
SWT 5 - Bogie Water Tank	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
Tahmoor House	Old Hume Highway	Tahmoor	Wollondilly	LGOV
Tahmoor Railway Station	George Street	Tahmoor	Wollondilly	SGOV
TAM 504 - 'Main-Line' Sleeping Car	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
TBC 532 - First-Class 'Main-Line' Sitting Car	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
Theresa Park Church	Taylor Place	Theresa Park	Wollondilly	LGOV
Theresa Park School Buildings (Former)	Taylor Place	Theresa Park	Wollondilly	LGOV
Thirlmere House	Burns Road	Thirlmere	Wollondilly	LGOV
Thirlmere NSW Rail Transport Museum:	Barbour Road	Thirlmere	Wollondilly	LGOV

Thirlmere Railway Group

Thirlmere Public School: Thirlmere School Group	Oaks Street	Thirlmere	Wollondilly	LGOV
Thirlmere Pumping Station		Couridjah	Wollondilly	LGOV
Thirlmere Railway Precinct and Rail Heritage Centre	Station Street	Thirlmere	Wollondilly	SGOV
Thirlmere Railway Station: Thirlmere Railway Group		Thirlmere	Wollondilly	LGOV
Thirlmere Schoolhouse Clinic: Thirlmere School Group	Oaks Street	Thirlmere	Wollondilly	LGOV
Thirlmere Station House: Thirlmere Railway Group	Oaks Street	Thirlmere	Wollondilly	LGOV
Thirlmere Urban Conservation Area	Thirlmere Way	Thirlmere	Wollondilly	LGOV
Thirlmere Way Cottages Group	86 - 90 Thirlmere Way	Thirlmere	Wollondilly	LGOV
Union Revived Inn (Former)	Main St/Appin Road	Appin	Wollondilly	LGOV
Uniting Church Group	Moores Way	Glenmore	Wollondilly	LGOV
Upper Canal Water Supply System		(not given)	Wollondilly	LGOV
Upper Menangle St : Picton Urban Conservation Area	Menangle Street	Picton	Wollondilly	LGOV
Upper Nepean Water Supply System		Appin & Wilton	Wollondilly	LGOV
Vault Hill Cemetery	Remembrance Driveway	Picton	Wollondilly	LGOV
VHO 1816 - Brakevan / RTM Crew Car	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
Victoria Bridge Over Stonequarry Creek	Prince Street	Picton	Wollondilly	SGOV
Victorian House	Menangle St West	Picton	Wollondilly	LGOV
W 39 - Ballast Hopper Wagon	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
W 666 - 6-Wheel Radial Car	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
W 880 (W 560) - 8-wheel Radial Carriage	NSW Rail Transport Museum, Barbour Rd	Thirlmere	Wollondilly	SGOV
Warragamba Dam		Warragamba	Wollondilly	LGOV
Warragamba Light Railways & Cableway Sites: Warragamba DamGp		Warragamba	Wollondilly	LGOV
Warragamba Sewage Treatment Plant	off Weir Road	Warragamba	Wollondilly	SGOV
Warragamba Township: Warragamba Dam Group		Warragamba	Wollondilly	LGOV

Weatherboard Shop (Former)	20 Main Street	Appin	Wollondilly	LGOV
Webster St: PUCA	Webster Street		Wollondilly	LGOV
Wellington Park Iceworks Site	Rays Lane	Mowbray	Wollondilly	LGOV
Wendover House	83 Menangle Street	Picton	Wollondilly	LGOV
Wilton Park Stables Group	Wilton Road	Wilton	Wollondilly	LGOV
Windmill Hill House Ruin	Wilton Road	Appin	Wollondilly	LGOV
Wirrimbirra Sanctuary		Bargo	Wollondilly	LGOV
Wollondilly Shire Offices: Commercial & Civic Group	Menangle Road	Picton	Wollondilly	LGOV
Wooden Mile Post	Razorback Road	Razorback	Wollondilly	LGOV
Yerranderie Silver Mining Field and Settlement		Yerranderie	Wollondilly	LGOV

There were **350** records in this section matching your search criteria.

There was a total of **375** records matching your search criteria.

Key:

LGA = Local Government Area

GAZ= NSW Government Gazette (statutory listings prior to 1997), HGA = Heritage Grant Application, HS = Heritage Study, LGOV = Local Government, SGOV = State Government Agency.

Note: The Heritage Branch seeks to keep the State Heritage Inventory (SHI) up to date, however the latest listings in Local and Regional Environmental Plans (LEPs and REPs) may not yet be included. Always check with the relevant Local Council or Shire for the most recent listings.

AUSTRALIAN HERITAGE PLACES INVENTORY



A cooperative project between Commonwealth, State and Territory Governments

Record Identifier

Place Name

Keyword or full name, eg 'customs house' or 'Cairns Customs House'

Location

Street or Town name, e.g. 'Macquarie' for Macquarie Place (avoid using street types)

Local Government

Wollondilly

Local Government Area keyword, eg 'aramac'

State

NSW

Country

Part or all of the name of a country, eg - 'fran'

Statement of Significance

Description

Keyword or key phrase eg 'statue' or 'eucalyptus intermedia'

Source

ALL

Reset

SEARCH

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AUSTRALIAN HERITAGE PLACES INVENTORY

| New Search |

1. **Abbotsford**
Oaks Road, Picton, NSW
LGA: Wollondilly
Source: NSW Heritage Register
2. **Abbotsford Homestead and Curtilage**
Abbotsford Rd, Picton, NSW
LGA: Wollondilly Shire
Source: Register of the National Estate
3. **Bargo Railway Viaduct**
Main Southern railway, Bargo, NSW
LGA: Wollondilly
Source: NSW Heritage Register
4. **Bents Basin State Recreation Area and Adjacent Areas**
Bents Basin Rd, Greendale, NSW
LGA: Wollondilly Shire
Source: Register of the National Estate
5. **Brownlow Hill Estate**
Brownlow Hill Loop Road, Camden, NSW
LGA: Wollondilly
Source: NSW Heritage Register
6. **Brownlow Hill Garden**
Brownlow Hill Loop Rd, Orangeville, NSW
LGA: Wollondilly Shire
Source: Register of the National Estate
7. **Brownlow Hill Homestead**
Brownlow Hill Loop Rd, Orangeville, NSW
LGA: Wollondilly Shire
Source: Register of the National Estate
8. **Camden Park**
Camden Park Estate Rd, Camden Park, NSW
LGA: Wollondilly Shire
Source: Register of the National Estate
9. **Camden Park Garden and Nursey**
Camden Park Estate Rd, Camden Park, NSW
LGA: Wollondilly Shire
Source: Register of the National Estate
10. **Cataract Dam**
Cataract Dam Road, Cataract Dam, NSW
LGA: Wollondilly
Source: NSW Heritage Register
11. **CBC Bank (former)**
Argyle St, Picton, NSW
LGA: Wollondilly Shire
Source: Register of the National Estate
12. **Cordeaux Dam**
Cordeaux River, Cordeaux, NSW
LGA: Wollondilly
Source: NSW Heritage Register
13. **Couridjah Railway Station**
Main Southern railway, Couridjah, NSW
LGA: Wollondilly
Source: NSW Heritage Register
14. **Indigenous Place**
Appin, NSW
LGA: Wollondilly Shire
Source: Register of the National Estate
15. **Indigenous Place**
Appin, NSW
LGA: Wollondilly Shire
Source: Register of the National Estate
16. **Indigenous Place**
Appin, NSW
LGA: Wollondilly Shire
Source: Register of the National Estate
17. **Indigenous Place**
LGA: Wollondilly Shire

Wilton, NSW

Source: Register of the National Estate

18. Jarvisfield
Hume Hwy Deviation, Picton, NSW

LGA: Wollondilly
Source: NSW Heritage Register

19. Jarvisfield and Stone Barn
Remembrance Dr, Picton, NSW

LGA: Wollondilly Shire
Source: Register of the National Estate

20. Jarvisfield Group
Remembrance Dr, Picton, NSW

LGA: Wollondilly Shire
Source: Register of the National Estate

Query matched 51 records.

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AUSTRALIAN HERITAGE PLACES INVENTORY

| New Search |

- | | | |
|-----|--|---|
| 21. | <u>Kanangra Boyd National Park (1977 boundary)</u>
Kanangra Rd, Kanangra, NSW | LGA: Wollondilly Shire
Source: Register of the National Estate |
| 22. | <u>Maldon Bridge</u>
Wilton Park Rd, Maldon via Picton, NSW | LGA: Wollondilly Shire
Source: Register of the National Estate |
| 23. | <u>Megarritys Bridge</u>
Warragamba Dam, Warragamba, NSW | LGA: Wollondilly
Source: NSW Heritage Register |
| 24. | <u>Menangle rail bridge over Nepean River</u>
Main Southern railway, Menangle, NSW | LGA: Wollondilly
Source: NSW Heritage Register |
| 25. | <u>Menangle Railway Station group</u>
Main Southern railway, Menangle, NSW | LGA: Wollondilly
Source: NSW Heritage Register |
| 26. | <u>Nepean Dam - Wall & Valve House</u>
Avon Dam Road, Bargo, NSW | LGA: Wollondilly
Source: NSW Heritage Register |
| 27. | <u>Picton Courthouse</u>
Argyle St, Picton, NSW | LGA: Wollondilly Shire
Source: Register of the National Estate |
| 28. | <u>Picton Post Office (former)</u>
Argyle St, Picton, NSW | LGA: Wollondilly Shire
Source: Register of the National Estate |
| 29. | <u>Picton Railway Station group</u>
Main Southern railway, Picton, NSW | LGA: Wollondilly
Source: NSW Heritage Register |
| 30. | <u>Picton railway viaduct over Stonequarry Creek</u>
Main Southern railway, Picton, NSW | LGA: Wollondilly
Source: NSW Heritage Register |
| 31. | <u>Rail Paybus FPI</u>
Thirlmere, NSW | LGA: Wollondilly
Source: NSW Heritage Register |
| 32. | <u>Razorback Inn</u>
Remembrance Dr, Picton, NSW | LGA: Wollondilly Shire
Source: Register of the National Estate |
| 33. | <u>St Bedes Catholic Church and Graveyard</u>
King St, Appin, NSW | LGA: Wollondilly Shire
Source: Register of the National Estate |
| 34. | <u>St James Anglican Church</u>
Menangle Rd, Menangle, NSW | LGA: Wollondilly Shire
Source: Register of the National Estate |
| 35. | <u>St Mark the Evangelist Anglican Church</u>
Church St, Appin, NSW | LGA: Wollondilly Shire
Source: Register of the National Estate |
| 36. | <u>St Marys Towers</u>
Douglas Park Rd, Douglas Park, NSW | LGA: Wollondilly Shire
Source: Register of the National Estate |
| 37. | <u>St Matthews Anglican Church & Churchyard</u>
Old Oaks Rd, The Oaks, NSW | LGA: Wollondilly Shire
Source: Register of the National |

- | | |
|---|---|
| | Estate |
| 38. <u>Stonequarry Creek Railway Viaduct</u>
Station St, Picton, NSW | LGA: Wollondilly Shire
Source: Register of the National Estate |
| 39. <u>Tahmoor House</u>
Remembrance Dr, Tahmoor, NSW | LGA: Wollondilly Shire
Source: Register of the National Estate |
| 40. <u>Tahmoor Railway Station group</u>
Main Southern railway, Tahmoor, NSW | LGA: Wollondilly
Source: NSW Heritage Register |

Query matched 51 records.

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AUSTRALIAN HERITAGE PLACES INVENTORY

| [New Search](#) |

- | | | |
|-----|--|---|
| 41. | <u>The Hermitage</u>
The Oaks Rd, The Oaks, NSW | LGA: Wollondilly Shire
Source: Register of the National Estate |
| 42. | <u>Thirlmere Lakes National Park</u>
West Pde, Couridjah, NSW | LGA: Wollondilly Shire
Source: Register of the National Estate |
| 43. | <u>Upper Canal System</u>
From Prospect to Wollondilly,, NSW | LGA: Wollondilly
Source: NSW Heritage Register |
| 44. | <u>Victoria Bridge over Stonequarry Creek</u>
Prince Street, Picton, NSW | LGA: Wollondilly
Source: NSW Heritage Register |
| 45. | <u>Warragamba Dam - Haviland Park</u>
Warragamba Dam, Warragamba, NSW | LGA: Wollondilly
Source: NSW Heritage Register |
| 46. | <u>Warragamba Emergency Scheme</u>
Warragamba Dam, Warragamba, NSW | LGA: Wollondilly
Source: NSW Heritage Register |
| 47. | <u>Wilton Park</u>
Wilton Park Road, Maldon, NSW | LGA: Wollondilly
Source: NSW Heritage Register |
| 48. | <u>Wilton Park Stables Group</u>
Wilton Park Rd, Maldon via Picton, NSW | LGA: Wollondilly Shire
Source: Register of the National Estate |
| 49. | <u>Wirrimbirra Sanctuary</u>
Remembrance Dr, Bargo, NSW | LGA: Wollondilly Shire
Source: Register of the National Estate |
| 50. | <u>Wirrimbirra Sanctuary</u>
Hume Highway, Bargo, NSW | LGA: Wollondilly
Source: NSW Heritage Register |
| 51. | <u>Yerranderie Silver Mining Field</u>
Yerranderie, NSW | LGA: Wollondilly Shire
Source: Register of the National Estate |

Query matched 51 records.

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Appendix H

Calibration and Decontamination Records

JBS
ENVIRONMENTAL

CALIBRATION SUMMARY	
EQUIPMENT:	PID. - ProCheck Tiger
CALIBRATION STANDARD:	Isobutylene 100ppmv.

[illegible]

DECONTAMINATION SUMMARY			
EQUIPMENT: <u>Hand Auger, new pair of disposable nitrile gloves worn during the collection of each sample</u>			
1. Was the equipment decontaminated appropriately prior to sampling at each location?	<u>(Y)</u>	N	NA
2. Was excess soil removed by scraping, brushing or wiping with disposable towels?	<u>(Y)</u>	N	NA
3. Was the equipment contaminated with grease, tar or similar material?	Y	<u>(N)</u>	NA
If so, was the equipment steam cleaned or rinsed with pesticide-grade acetone:hexane?	Y	N	
4. Was phosphate-free detergent used to wash the equipment?	<u>(Y)</u>	N	NA
5. Was the equipment rinsed with clean water?	<u>(Y)</u>	N	NA
6. Was the equipment then rinsed with deionised water?	Y	N	<u>(NA)</u>
7. Were all sample containers cleaned and acid or solvent washed prior to sample collection?	<u>(Y)</u>	N	NA
WERE ANY ADDITIONAL DECONTAMINATION MEASURES REQUIRED? PROVIDE DETAILS.			
<u>No</u>			

PID Calibration Certificate

Instrument PhoCheck Tiger
Serial No. T-105428



Air-Met Scientific Pty Ltd
1300 137 067

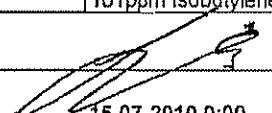
Item	Test	Pass	Comments			
Battery	Charge Condition	✓				
	Fuses	✓				
	Capacity	✓				
	Recharge OK?	✓				
Switch/keypad	Operation	✓				
Display	Intensity	✓				
	Operation (segments)	✓				
Grill Filter	Condition	✓				
	Seal	✓				
Pump	Operation	✓				
	Filter	✓				
	Flow	✓				
	Valves, Diaphragm	✓				
PCB	Condition	✓				
Connectors	Condition	✓				
Sensor	PID	✓	10.6 ev			
Alarms	Beeper	✓	Low	High	TWA	STEL
	Settings	✓	50ppm	100ppm	10ppm	25ppm
Software	Version	✓				
Data logger	Operation	✓				
Download	Operation	✓				
Other tests:						

Certificate of Calibration

This is to certify that the above instrument has been calibrated to the following specifications:

Diffusion mode Aspirated mode

Sensor	Serial no	Calibration gas and concentration	Certified	Gas bottle No	Instrument Reading
PID Lamp		101ppm Isobutylene	NATA	19901	101ppm

Calibrated by:  Amy Jones

Calibration date: 15-07-2010 0:00

Next calibration due: 14-08-2010 0:00

Appendix I
ESDAT QA Checker

ESDAT QA Checker
Project:41274
Filter: SDG in('43819')

Overview Summary

[Count of Samples](#)
[Summary By Compound](#)
[Count of Results](#)

Holding Times

Holding Time Errors (0)

Blanks

[Field Blanks](#)
Detects in Lab Blanks (0)
SDG's without Storage Blanks (0)
SDG's without Method Blanks (0)

Duplicates

[Field and Interlab Dupes](#)
Lab Duplicates with high RPDs (0)
Duplicate Samples with incorrect or missing Parent Samples (0)
Samples at the same Location/Depth/Time not specified as duplicates (0)

Surrogates

[Surrogate Variation > 35% or outside lab LCL or UCL or outside lab LCL or UCL \(22\)](#)

Lab Control Samples

SDG's without a Laboratory Control Sample (0)
[Laboratory Control Samples, Error > 35% \(5\)](#)

Certified and Standard Reference Materials

Certified Reference Materials - Error > 35% (0)

Matrix Spikes

SDG's without a Matrix Spike (0)
Trip Spikes with invalid Control Sample (0)
[Less than 1 matrix spike in 20 samples, or less than 1 matrix duplicate in 20 samples \(2\)](#)
[Matrix Spike Recoveries less than 60% or greater than 140% \(3\)](#)
Trip Spike Recoveries (60% - 140% is acceptable) (0)

Inorganic

Other

Unit Conversion Problems (0)
OriginalChemNames Requiring Validation (0)
Samples with no Results (0)
Samples associated with Wells which are not specified in the Well Table (0)
Aborted Analysis (0)

Contents

Count of Samples

Matrix Type	soil	water
First Sample Date	20/07/2010	20/07/2010
Last Sample Date	21/07/2010	20/07/2010
Sampling Period (days)	2	1
Number of Samples Submitted	21	1
Number of Non QA Samples Submitted	18	0
Number of Field Blanks	0	0
Number of Trip Blanks	0	0
Number of Rinsates	0	1
Number of Field Duplicates	2	0
Number of Interlab Duplicates	1	0
Number of Trip Spikes	0	1
Number of Lab Duplicates	3	1
Number of LCSs	2	1
Number of CRMs	0	0
Number of Method Blanks	1	1
Number of Storage Blanks	0	1
Number of Matrix Spikes	2	0
Number of Matrix Spike Dupes	0	0

Method_Type	ChemName	EQL	Num Results	Holding Times (days)				Lab Control Samples			Method and Storage Blanks		
				Volatility Group	Sample to Extraction	Sample to Analysis	Acceptable	Recovery %	Num Reported	Acceptable	Range	Num Reported	Acceptable
8 metals in soil	Arsenic	4 mg/kg	17	Other	2 to 3	2 to 3	Y	95 to 95	1	Y	ND	1	Y
	Cadmium	0.5 mg/kg	17	Other	2 to 3	2 to 3	Y	94 to 94	1	Y	ND	1	Y
	Chromium (III+VI)	1 mg/kg	17	Other	2 to 3	2 to 3	Y	99 to 99	1	Y	ND	1	Y
	Copper	1 mg/kg	17	Other	2 to 3	2 to 3	Y	97 to 97	1	Y	ND	1	Y
	Lead	1 µg/L	17	Other	2 to 3	2 to 3	Y	95 to 95	1	Y	ND	1	Y
	Mercury	0.1 mg/kg	17	Specific	2 to 3	2 to 3	Y	103 to 103	1	Y	ND	1	Y
	Nickel	1 mg/kg	17	Other	2 to 3	2 to 3	Y	98 to 98	1	Y	ND	1	Y
	Zinc	1 mg/kg	17	Other	2 to 3	2 to 3	Y	98 to 98	1	Y	ND	1	Y
Asbestos ID - soils	Asbestos fibres	0.1 g/kg	16	Other	2 to 3	2 to 3	Y		0			0	
Metals in TCLP USEPA1311	Arsenic		3	Other	2 to 3	7 to 8	Y		0		ND	1	Y
	Cadmium		3	Other	2 to 3	7 to 8	Y		0		ND	1	Y
	Chromium (III+VI)		3	Other	2 to 3	7 to 8	Y		0		ND	1	Y
	Copper		3	Other	2 to 3	7 to 8	Y		0		ND	1	Y
	Lead	30 µg/L	3	Other	2 to 3	7 to 8	Y		0		ND	1	Y
	Mercury		3	Specific	2 to 3	7 to 8	Y		0		ND	1	Y
	Nickel		3	Other	2 to 3	7 to 8	Y		0		ND	1	Y
	Zinc		3	Other	2 to 3	7 to 8	Y		0		ND	1	Y
Metals-ASLP Neutral (ICP-MS)	Arsenic	13 mg/kg	3	Other	7 to 8	7 to 8	Y		0			0	
	Cadmium	1.3 mg/kg	3	Other	7 to 8	7 to 8	Y		0			0	
	Chromium (III+VI)	13 mg/kg	3	Other	7 to 8	7 to 8	Y		0			0	
	Copper	13 mg/kg	3	Other	7 to 8	7 to 8	Y		0			0	
	Lead	1 µg/L	3	Other	7 to 8	7 to 8	Y		0			0	
	Mercury	6.5 mg/kg	3	Specific	7 to 8	7 to 8	Y		0			0	
	Nickel	13 mg/kg	3	Other	7 to 8	7 to 8	Y		0			0	
	pH (aqueous extract)	0.1 pH Units	3	Other	7 to 8	7 to 8	Y		0		ND	1	Y
	Zinc	13 mg/kg	3	Other	7 to 8	7 to 8	Y		0			0	
Moisture	Moisture	0.1 %	17	Other	2 to 3	2 to 3	Y		0		ND	1	Y
Organochlorine Pesticides	4,4-DDE	0.1 mg/kg	17	SVOC	2 to 3	3 to 4	Y	113 to 113	1	Y	ND	1	Y
	a-BHC	0.1 mg/kg	17	SVOC	2 to 3	3 to 4	Y	75 to 75	1	Y	ND	1	Y
	Aldrin	0.1 mg/kg	17	SVOC	2 to 3	3 to 4	Y	89 to 89	1	Y	ND	1	Y
	b-BHC	0.1 mg/kg	17	SVOC	2 to 3	3 to 4	Y	99 to 99	1	Y	ND	1	Y
	Chlordane (cis)	0.1 mg/kg	17	SVOC	2 to 3	3 to 4	Y		0		ND	1	Y
	Chlordane (trans)	0.1 mg/kg	17	SVOC	2 to 3	3 to 4	Y		0		ND	1	Y
	d-BHC	0.1 mg/kg	17	SVOC	2 to 3	3 to 4	Y		0		ND	1	Y
	DDD	0.1 mg/kg	17	SVOC	2 to 3	3 to 4	Y	111 to 111	1	Y	ND	1	Y
	DDT	0.1 mg/kg	17	SVOC	2 to 3	3 to 4	Y		0		ND	1	Y
	Dieldrin	0.1 mg/kg	17	SVOC	2 to 3	3 to 4	Y	97 to 97	1	Y	ND	1	Y
	Endosulfan I	0.1 mg/kg	17	SVOC	2 to 3	3 to 4	Y		0		ND	1	Y
	Endosulfan II	0.1 mg/kg	17	SVOC	2 to 3	3 to 4	Y		0		ND	1	Y
	Endosulfan sulphate	0.1 mg/kg	17	SVOC	2 to 3	3 to 4	Y	96 to 96	1	Y	ND	1	Y
	Endrin	0.1 mg/kg	17	SVOC	2 to 3	3 to 4	Y	99 to 99	1	Y	ND	1	Y
	Endrin aldehyde	0.1 mg/kg	17	SVOC	2 to 3	3 to 4	Y		0		ND	1	Y
	g-BHC (Lindane)	0.1 mg/kg	17	SVOC	2 to 3	3 to 4	Y		0		ND	1	Y
	Heptachlor	0.1 mg/kg	17	SVOC	2 to 3	3 to 4	Y	87 to 87	1	Y	ND	1	Y
	Heptachlor epoxide	0.1 mg/kg	17	SVOC	2 to 3	3 to 4	Y	104 to 104	1	Y	ND	1	Y
	Hexachlorobenzene	0.1 mg/kg	17	SVOC	2 to 3	3 to 4	Y		0		ND	1	Y
	Methoxychlor	0.1 mg/kg	17	SVOC	2 to 3	3 to 4	Y		0		ND	1	Y
	Tetrachlorometaxylene		0	SVOC			Y	78 to 78	1	Y		0	
PAHs in Soil	Acenaphthene	0.1 mg/kg	17	SVOC	2 to 3	2 to 3	Y		0		ND	1	Y
	Acenaphthylene	0.1 mg/kg	17	SVOC	2 to 3	2 to 3	Y		0		ND	1	Y
	Anthracene	0.1 mg/kg	17	SVOC	2 to 3	2 to 3	Y		0		ND	1	Y
	Benz(a)anthracene	0.1 mg/kg	17	SVOC	2 to 3	2 to 3	Y		0		ND	1	Y
	Benzo(a) pyrene	0.05 mg/kg	17	SVOC	2 to 3	2 to 3	Y	99 to 99	1	Y	ND	1	Y
	Benzo(b)&(k)fluoranthene	0.2 mg/kg	17	SVOC	2 to 3	2 to 3	Y		0		ND	1	Y
	Benzo(g,h,i)perylene	0.1 mg/kg	17	SVOC	2 to 3	2 to 3	Y		0		ND	1	Y
	Chrysene	0.1 mg/kg	17	SVOC	2 to 3	2 to 3	Y	113 to 113	1	Y	ND	1	Y
	Dibenz(a,h)anthracene	0.1 mg/kg	17	SVOC	2 to 3	2 to 3	Y		0		ND	1	Y
	Fluoranthene	0.1 mg/kg	17	SVOC	2 to 3	2 to 3	Y	93 to 93	1	Y	ND	1	Y
	Fluorene	0.1 mg/kg	17	SVOC	2 to 3	2 to 3	Y	97 to 97	1	Y	ND	1	Y
	Indeno(1,2,3-c,d)pyrene	0.1 mg/kg	17	SVOC	2 to 3	2 to 3	Y		0		ND	1	Y
	Naphthalene	0.1 mg/kg	17	SVOC	2 to 3	2 to 3	Y	96 to 96	1	Y	ND	1	Y
	Phenanthrene	0.1 mg/kg	17	SVOC	2 to 3	2 to 3	Y	103 to 103	1	Y	ND	1	Y
	p-Terphenyl		0	SVOC			Y	87 to 87	1	Y		0	
	Pyrene	0.1 mg/kg	17	SVOC	2 to 3	2 to 3	Y	99 to 99	1	Y	ND	1	Y
PAHs in TCLP USEPA 1311	4-Terphenyl-d14		0	SVOC			Y		0			0	
	Acenaphthene		3	SVOC	2 to 3	2 to 3	Y		0			0	
	Acenaphthylene		3	SVOC	2 to 3	2 to 3	Y		0			0	
	Anthracene		3	SVOC	2 to 3	2 to 3	Y		0			0	
	Benz(a)anthracene		3	SVOC	2 to 3	2 to 3	Y		0			0	
	Benzo(a) pyrene		3	SVOC	2 to 3	2 to 3	Y		0			0	
	Benzo(b)&(k)fluoranthene		3	SVOC	2 to 3	2 to 3	Y		0			0	
	Benzo(g,h,i)perylene		3	SVOC	2 to 3	2 to 3	Y		0			0	
	Chrysene		3	SVOC	2 to 3	2 to 3	Y		0			0	
	Dibenz(a,h)anthracene		3	SVOC	2 to 3	2 to 3	Y		0			0	
	Fluoranthene		3	SVOC	2 to 3	2 to 3	Y		0			0	
	Fluorene		3	SVOC	2 to 3	2 to 3	Y		0			0	
	Indeno(1,2,3-c,d)pyrene		3	SVOC	2 to 3	2 to 3	Y		0			0	
	Naphthalene		3	SVOC	2 to 3	2 to 3	Y		0			0	
	Phenanthrene		3	SVOC	2 to 3	2 to 3	Y		0			0	
	Pyrene		3	SVOC	2 to 3	2 to 3	Y		0			0	
PAHs in water leach	4-Terphenyl-d14		0	SVOC			Y		0			0	
	Acenaphthene		3	SVOC	2 to 3	2 to 3	Y		0			0	
	Acenaphthylene		3	SVOC	2 to 3	2 to 3	Y		0			0	
	Anthracene		3	SVOC	2 to 3	2 to 3	Y		0			0	
	Benz(a)anthracene		3	SVOC	2 to 3	2 to 3	Y		0			0	
	Benzo(a) pyrene		3	SVOC	2 to 3	2 to 3	Y		0			0	
	Benzo(b)&(k)fluoranthene		3	SVOC	2 to 3	2 to 3	Y		0			0	
	Benzo(g,h,i)perylene		3	SVOC	2 to 3	2 to 3	Y		0			0	

Method_Type	ChemName	EQL	Num Results	Holding Times (days)				Lab Control Samples			Method and Storage Blanks		
				Volatility Group	Sample to Extraction	Sample to Analysis	Acceptable	Recovery %	Num Reported	Acceptable	Range	Num Reported	Blankable
	Chrysene		3	SVOC	2 to 3	2 to 3	Y		0			0	
	Dibenz(a,h)anthracene		3	SVOC	2 to 3	2 to 3	Y		0			0	
	Fluoranthene		3	SVOC	2 to 3	2 to 3	Y		0			0	
	Fluorene		3	SVOC	2 to 3	2 to 3	Y		0			0	
	Indeno(1,2,3-c,d)pyrene		3	SVOC	2 to 3	2 to 3	Y		0			0	
	Naphthalene		3	SVOC	2 to 3	2 to 3	Y		0			0	
	Phenanthrene		3	SVOC	2 to 3	2 to 3	Y		0			0	
	Pyrene		3	SVOC	2 to 3	2 to 3	Y		0			0	
PCBs in Soil	Arochlor 1016	0.1 mg/kg	17	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	Arochlor 1221	0.1 mg/kg	17	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	Arochlor 1232	0.1 mg/kg	17	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	Arochlor 1242	0.1 mg/kg	17	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	Arochlor 1248	0.1 mg/kg	17	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	Arochlor 1254	0.1 mg/kg	17	SVOC	2 to 3	3 to 4	Y	119 to 119	1	Y	ND	1	
	Arochlor 1260	0.1 mg/kg	17	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	Tetrachlorometaxylene		0	SVOC			Y	99 to 99	1	Y		0	
sTPH in Soil (C10-C36)	o-Terphenyl		0	SVOC			Y	108 to 108	1	Y		0	
	TPH C10 - C14	50 mg/kg	17	SVOC	2 to 3	2 to 3	Y	87 to 87	1	Y	ND	1	
	TPH C15 - C28	100 mg/kg	17	SVOC	2 to 3	2 to 3	Y	82 to 82	1	Y	ND	1	
	TPH C29-C36	100 mg/kg	17	SVOC	2 to 3	2 to 3	Y	83 to 83	1	Y	ND	1	
SVOCs in Soil	1,2,4,5-tetrachlorobenzene	1 mg/kg	8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	1,2,4-trichlorobenzene	1 mg/kg	8	VOC	2 to 3	3 to 4	Y		0		ND	1	
	1,2-dichlorobenzene	1 mg/kg	8	VOC	2 to 3	3 to 4	Y		0		ND	1	
	1,3-dichlorobenzene	1 mg/kg	8	VOC	2 to 3	3 to 4	Y		0		ND	1	
	1,3-Dinitrobenzene	1 mg/kg	8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	1,4-dichlorobenzene	1 mg/kg	8	VOC	2 to 3	3 to 4	Y	78 to 78	1	Y	ND	1	
	1-naphthylamine	1 mg/kg	8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	2-(acetyl amino) fluorene	1 mg/kg	8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	2,3,4,6-tetrachlorophenol	1 mg/kg	8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	2,4,5-trichlorophenol	1 mg/kg	8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	2,4,6-Trichlorophenol		0	SVOC			Y	86 to 86	1	Y		0	
	2,4,6-trichlorophenol	1 mg/kg	8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	2,4-dichlorophenol	1 mg/kg	8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	2,4-dimethylphenol	1 mg/kg	8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	2,4-dinitrophenol	10 mg/kg	8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	2,6-dichlorophenol	1 mg/kg	8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	2,6-dinitrotoluene	1 mg/kg	8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	2-chloronaphthalene	1 mg/kg	8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	2-chlorophenol	1 mg/kg	8	SVOC	2 to 3	3 to 4	Y	79 to 79	1	Y	ND	1	
	2-Fluorobiphenyl		0	SVOC			Y	87 to 87	1	Y		0	
	2-Fluorophenol		0	SVOC			Y	73 to 73	1	Y		0	
	2-methyl-5-nitroaniline	1 mg/kg	8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	2-methylnaphthalene	1 mg/kg	8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	2-methylphenol	1 mg/kg	8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	2-naphthylamine	1 mg/kg	8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	2-nitroaniline	1 mg/kg	8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	2-nitrophenol	1 mg/kg	8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	3-methylchloranthrene	1 mg/kg	8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	3-Methylphenol	1 mg/kg	8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	3-nitroaniline	1 mg/kg	8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	4-(dimethylamino) azobenzene	1 mg/kg	8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	4,4-DDE	1 mg/kg	8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	4,6-Dinitro-2-methylphenol	10 mg/kg	8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	4-bromophenyl phenyl ether	1 mg/kg	8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	4-chloroaniline	1 mg/kg	8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	4-chlorophenyl phenyl ether	1 mg/kg	8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	4-methylphenol	2 mg/kg	8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	4-nitroaniline	1 mg/kg	8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	4-nitrophenol	10 mg/kg	8	SVOC	2 to 3	3 to 4	Y	62 to 62	1	Y	ND	1	
	7,12-dimethylbenz(a)anthracene	1 mg/kg	8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	a-BHC	1 mg/kg	8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	Acenaphthene	1 mg/kg	8	SVOC	2 to 3	3 to 4	Y	91 to 91	1	Y	ND	1	
	Acenaphthylene	1 mg/kg	8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	Acetophenone	1 mg/kg	8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	Aldrin	1 mg/kg	8	SVOC	2 to 3	3 to 4	Y	72 to 72	1	Y	ND	1	
	Aniline	1 mg/kg	8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	Anthracene	1 mg/kg	8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	Azobenzene	1 mg/kg	8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	b-BHC	1 mg/kg	8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	Benz(a)anthracene	1 mg/kg	8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	Benzo(a) pyrene	1 mg/kg	8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	Benzo(b)fluoranthene	1 mg/kg	8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	Benzo(g,h,i)perylene	1 mg/kg	8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	Benzo(k)fluoranthene	1 mg/kg	8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	Benzyl alcohol	1 mg/kg	8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	Bis(2-chloroethoxy) methane	1 mg/kg	8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	Bis(2-chloroethyl) ether	1 mg/kg	8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	Bis(2-chloroisopropyl) ether	1 mg/kg	8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	Bis(2-ethylhexyl) phthalate	1 mg/kg	8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	Butyl benzyl phthalate	1 mg/kg	8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	Carbazole	1 mg/kg	8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	Chlordane	1 mg/kg	8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	Chlordane (trans)	1 mg/kg	8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	Chrysene	1 mg/kg	8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	d-BHC	1 mg/kg	8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	DDD	1 mg/kg	8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	DDT	1 mg/kg	8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	Dibenz(a,h)anthracene	1 mg/kg	8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	Dibenzofuran	1 mg/kg	8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	Dieldrin	1 mg/kg	8	SVOC	2 to 3	3 to 4	Y	69 to 69	1	Y	ND	1	
	Diethylphthalate	1 mg/kg	8	SVOC	2 to 3	3 to 4	Y	88 to 88	1	Y	ND	1	
	Dimethyl phthalate	1 mg/kg	8	SVOC	2 to 3	3 to 4	Y	64 to 64	1	Y	ND	1	
	Di-n-butyl phthalate	1 mg/kg	8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	Di-n-octyl phthalate	1 mg/kg	8	SVOC	2 to 3	3 to 4	Y		0		ND	1	

Method Type	ChemName	Range	EQL	Num Results	Holding Times (days)				Lab Control Samples			Method and Storage Blanks		
				Non QA (Normal + Composite)	Volatility Group	Sample to Extraction	Sample to Analysis	Acceptable	Recovery %	Num Reported	Acceptable	Range	Num Reported	Acceptable
	Dinoseb	1 mg/kg		8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	Diphenylamine	1 mg/kg		8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	Endosulfan I	1 mg/kg		8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	Endosulfan II	1 mg/kg		8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	Endosulfan sulphate	1 mg/kg		8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	Endrin	1 mg/kg		8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	Ethyl methanesulfonate	1 mg/kg		8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	Fluoranthene	1 mg/kg		8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	Fluorene	1 mg/kg		8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	g-BHC (Lindane)	1 mg/kg		8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	Heptachlor	1 mg/kg		8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	Heptachlor epoxide	1 mg/kg		8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	Hexachlorobenzene	1 mg/kg		8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	Hexachlorobutadiene	1 mg/kg		8	VOC	2 to 3	3 to 4	Y		0		ND	1	
	Hexachlorocyclopentadiene	1 mg/kg		8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	Hexachloroethane	1 mg/kg		8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	Hexachloropropene	1 mg/kg		8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	Indeno(1,2,3-c,d)pyrene	1 mg/kg		8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	Isophorone	1 mg/kg		8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	Isosafrole	1 mg/kg		8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	Methapyrene	1 mg/kg		8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	Methoxychlor	1 mg/kg		8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	Naphthalene	1 mg/kg		8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	NB-d5			0	SVOC			Y	68 to 68	1	Y		0	
	Nitrobenzene	1 mg/kg		8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	N-nitrosodi-n-butylamine	1 mg/kg		8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	N-nitrosodi-n-propylamine	1 mg/kg		8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	N-nitrosomorpholine	1 mg/kg		8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	N-nitrosopiperidine	1 mg/kg		8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	Pentachlorobenzene	1 mg/kg		8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	Pentachloroethane	1 mg/kg		8	VOC	2 to 3	3 to 4	Y		0		ND	1	
	Pentachloronitrobenzene	1 mg/kg		8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	Pentachlorophenol	10 mg/kg		8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	Phenacetin	1 mg/kg		8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	Phenanthrene	1 mg/kg		8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	Phenol	1 mg/kg		8	SVOC	2 to 3	3 to 4	Y	79 to 79	1	Y	ND	1	
	Phenol-D6			0	SVOC			Y	77 to 77	1	Y		0	
	p-Terphenyl			0	SVOC			Y	64 to 64	1	Y		0	
	Pyrene	1 mg/kg		8	SVOC	2 to 3	3 to 4	Y	96 to 96	1	Y	ND	1	
	Safrole	1 mg/kg		8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
VOCs in soil														
	1,1,1,2-tetrachloroethane	1 mg/kg		8	VOC	2 to 3	3 to 4	Y		0		ND	1	
	1,1,1-trichloroethane	1 mg/kg		8	VOC	2 to 3	3 to 4	Y	87 to 87	1	Y	ND	1	
	1,1,2,2-tetrachloroethane	1 mg/kg		8	VOC	2 to 3	3 to 4	Y		0		ND	1	
	1,1,2-trichloroethane	1 mg/kg		8	VOC	2 to 3	3 to 4	Y		0		ND	1	
	1,1-dichloroethane	1 mg/kg		8	VOC	2 to 3	3 to 4	Y	89 to 89	1	Y	ND	1	
	1,1-dichloroethene	1 mg/kg		8	VOC	2 to 3	3 to 4	Y		0		ND	1	
	1,1-dichloropropene	1 mg/kg		8	VOC	2 to 3	3 to 4	Y		0		ND	1	
	1,2,3-trichlorobenzene	1 mg/kg		8	VOC	2 to 3	3 to 4	Y		0		ND	1	
	1,2,3-trichloropropane	1 mg/kg		8	VOC	2 to 3	3 to 4	Y		0		ND	1	
	1,2,4-trichlorobenzene	1 mg/kg		8	VOC	2 to 3	3 to 4	Y		0		ND	1	
	1,2,4-trimethylbenzene	1 mg/kg		8	VOC	2 to 3	3 to 4	Y		0		ND	1	
	1,2-dibromo-3-chloropropane	1 mg/kg		8	VOC	2 to 3	3 to 4	Y		0		ND	1	
	1,2-dibromoethane	1 mg/kg		8	VOC	2 to 3	3 to 4	Y		0		ND	1	
	1,2-dichlorobenzene	1 mg/kg		8	VOC	2 to 3	3 to 4	Y		0		ND	1	
	1,2-dichloroethane	1 mg/kg		8	VOC	2 to 3	3 to 4	Y	96 to 96	1	Y	ND	1	
	1,2-dichloropropane	1 mg/kg		8	VOC	2 to 3	3 to 4	Y		0		ND	1	
	1,3,5-trimethylbenzene	1 mg/kg		8	VOC	2 to 3	3 to 4	Y		0		ND	1	
	1,3-dichlorobenzene	1 mg/kg		8	VOC	2 to 3	3 to 4	Y		0		ND	1	
	1,3-dichloropropane	1 mg/kg		8	VOC	2 to 3	3 to 4	Y		0		ND	1	
	1,4-dichlorobenzene	1 mg/kg		8	VOC	2 to 3	3 to 4	Y		0		ND	1	
	2,2-dichloropropane	1 mg/kg		8	VOC	2 to 3	3 to 4	Y		0		ND	1	
	2-chlorotoluene	1 mg/kg		8	VOC	2 to 3	3 to 4	Y		0		ND	1	
	4-Bromofluorobenzene			0	VOC			Y	107 to 107	1	Y		0	
	4-chlorotoluene	1 mg/kg		8	VOC	2 to 3	3 to 4	Y		0		ND	1	
	Benzene	0.5 mg/kg		8	VOC	2 to 3	3 to 4	Y		0		ND	1	
	Bromobenzene	1 mg/kg		8	VOC	2 to 3	3 to 4	Y		0		ND	1	
	Bromochloromethane	1 mg/kg		8	VOC	2 to 3	3 to 4	Y		0		ND	1	
	Bromodichloromethane	1 mg/kg		8	VOC	2 to 3	3 to 4	Y	97 to 97	1	Y	ND	1	
	Bromoform	1 mg/kg		8	VOC	2 to 3	3 to 4	Y		0		ND	1	
	Bromomethane	1 mg/kg		8	VOC	2 to 3	3 to 4	Y		0		ND	1	
	Carbon tetrachloride	1 mg/kg		8	VOC	2 to 3	3 to 4	Y		0		ND	1	
	Chlorobenzene	1 mg/kg		8	VOC	2 to 3	3 to 4	Y		0		ND	1	
	Chlorodibromomethane	1 mg/kg		8	VOC	2 to 3	3 to 4	Y	87 to 87	1	Y	ND	1	
	Chloroethane	1 mg/kg		8	VOC	2 to 3	3 to 4	Y		0		ND	1	
	Chloroform	1 mg/kg		8	VOC	2 to 3	3 to 4	Y	96 to 96	1	Y	ND	1	
	Chloromethane	1 mg/kg		8	VOC	2 to 3	3 to 4	Y		0		ND	1	
	cis-1,2-dichloroethene	1 mg/kg		8	VOC	2 to 3	3 to 4	Y		0		ND	1	
	cis-1,3-dichloropropene	1 mg/kg		8	VOC	2 to 3	3 to 4	Y		0		ND	1	
	Cyclohexane	1 mg/kg		8	SVOC	2 to 3	3 to 4	Y		0		ND	1	
	Dibromofluoromethane			0	SVOC			Y	93 to 93	1	Y		0	
	Dibromomethane	1 mg/kg		8	VOC	2 to 3	3 to 4	Y		0		ND	1	
	Dichlorodifluoromethane	1 mg/kg		8	VOC	2 to 3	3 to 4	Y		0		ND	1	
	Ethylbenzene	1 mg/kg		8	VOC	2 to 3	3 to 4	Y		0		ND	1	
	Hexachlorobutadiene	1 mg/kg		8	VOC	2 to 3	3 to 4	Y		0		ND	1	
	Isopropylbenzene	1 mg/kg		8	VOC	2 to 3	3 to 4	Y		0		ND	1	
	n-butylbenzene	1 mg/kg		8	VOC	2 to 3	3 to 4	Y		0		ND	1	
	n-propylbenzene	1 mg/kg		8	VOC	2 to 3	3 to 4	Y		0		ND	1	
	p-isopropyltoluene	1 mg/kg		8	VOC	2 to 3	3 to 4	Y		0		ND	1	
	sec-butylbenzene	1 mg/kg		8	VOC	2 to 3	3 to 4	Y		0		ND	1	
	Styrene	1 mg/kg		8	VOC	2 to 3	3 to 4	Y		0		ND	1	
	tert-butylbenzene	1 mg/kg		8	VOC	2 to 3	3 to 4	Y		0		ND	1	
	Tetrachloroethene	1 mg/kg		8	VOC	2 to 3	3 to 4	Y	91 to 91	1	Y	ND	1	
	Toluene	0.5 mg/kg		8	VOC	2 to 3	3 to 4	Y		0		ND	1	
	Toluene-D8			0	VOC			Y	96 to 96	1	Y		0	
	trans-1,2-dichloroethene	1 mg/kg		8	VOC	2 to 3	3 to 4	Y		0		ND	1	
	trans-1,3-dichloropropene	1 mg/kg		8	VOC	2 to 3	3 to 4	Y		0		ND	1	

Method_Type	ChemName	EQL	Num Results	Holding Times (days)				Lab Control Samples			Method and Storage Blanks		
				Volatility Group	Sample to Extraction	Sample to Analysis	Acceptable	Recovery %	Num Reported	Acceptable	Range	Num Reported	Acceptable
	Trichloroethene	1 mg/kg	8	VOC	2 to 3	3 to 4	Y	86 to 86	1	Y	ND	1	Y
	Trichlorofluoromethane	1 mg/kg	8	VOC	2 to 3	3 to 4	Y		0		ND	1	Y
	Trifluorotoluene		0	SVOC			Y	100 to 100	1	Y		0	Y
	Vinyl chloride	1 mg/kg	8	VOC	2 to 3	3 to 4	Y		0		ND	1	Y
	Xylene (m & p)	2 mg/kg	8	VOC	2 to 3	3 to 4	Y		0		ND	1	Y
	Xylene (o)	1 mg/kg	8	VOC	2 to 3	3 to 4	Y		0		ND	1	Y
vTPH & BTEX in Soil	Benzene	0.5 mg/kg	17	VOC	2 to 3	3 to 4	Y	97 to 97	1	Y	ND	1	Y
	Ethylbenzene	1 mg/kg	17	VOC	2 to 3	3 to 4	Y	100 to 100	1	Y	ND	1	Y
	Toluene	0.5 mg/kg	17	VOC	2 to 3	3 to 4	Y	102 to 102	1	Y	ND	1	Y
	TPH C6 - C9	25 mg/kg	17	VOC	2 to 3	3 to 4	Y	96 to 96	1	Y	ND	1	Y
	Trifluorotoluene		0	SVOC			Y	117 to 117	1	Y		0	Y
	Xylene (m & p)	2 mg/kg	17	VOC	2 to 3	3 to 4	Y	91 to 91	1	Y	ND	1	Y
	Xylene (o)	1 mg/kg	17	VOC	2 to 3	3 to 4	Y	93 to 93	1	Y	ND	1	Y
8 Metals in Water - Dissolved	Arsenic		0	Other	7	7	Y	101 to 101	1	Y	ND	1	Y
	Cadmium		0	Other	7	7	Y	101 to 101	1	Y	ND	1	Y
	Chromium (III+VI)		0	Other	7	7	Y	102 to 102	1	Y	ND	1	Y
	Copper		0	Other	7	7	Y	105 to 105	1	Y	ND	1	Y
	Lead		0	Other	7	7	Y	100 to 100	1	Y	ND	1	Y
	Mercury		0	Specific	7	7	Y	104 to 104	1	Y	ND	1	Y
	Nickel		0	Other	7	7	Y	105 to 105	1	Y	ND	1	Y
	Zinc		0	Other	7	7	Y	104 to 104	1	Y	ND	1	Y
Metals in TCLP USEPA1311	Arsenic		0	Other			Y	109 to 109	1	Y		0	Y
	Cadmium		0	Other			Y	105 to 105	1	Y		0	Y
	Chromium (III+VI)		0	Other			Y	101 to 101	1	Y		0	Y
	Copper		0	Other			Y	101 to 101	1	Y		0	Y
	Lead		0	Other			Y	99 to 99	1	Y		0	Y
	Mercury		0	Specific			Y	94 to 94	1	Y		0	Y
	Nickel		0	Other			Y	101 to 101	1	Y		0	Y
	Zinc		0	Other			Y	106 to 106	1	Y		0	Y
Metals-ASLP Neutral (ICP-MS)	Arsenic		0	Other			Y	98 to 98	1	Y	ND	1	Y
	Cadmium		0	Other			Y	107 to 107	1	Y	ND	1	Y
	Chromium (III+VI)		0	Other			Y	91 to 91	1	Y	ND	1	Y
	Copper		0	Other			Y	91 to 91	1	Y	ND	1	Y
	Lead		0	Other			Y	104 to 104	1	Y	ND	1	Y
	Mercury		0	Specific			Y	100 to 100	1	Y	ND	1	Y
	Nickel		0	Other			Y	97 to 97	1	Y	ND	1	Y
	Zinc		0	Other			Y	93 to 93	1	Y	ND	1	Y
PAHs in TCLP USEPA 1311	4-Terphenyl-d14		0	SVOC			Y	140 to 140	1	Y		0	Y
	Acenaphthene		0	SVOC			Y		0		ND	1	Y
	Acenaphthylene		0	SVOC			Y		0		ND	1	Y
	Anthracene		0	SVOC			Y		0		ND	1	Y
	Benzo(a)anthracene		0	SVOC			Y		0		ND	1	Y
	Benzo(a) pyrene		0	SVOC			Y	134 to 134	1	Y	ND	1	Y
	Benzo(b)&(k)fluoranthene		0	SVOC			Y		0		ND	1	Y
	Benzo(g,h,i)perylene		0	SVOC			Y		0		ND	1	Y
	Chrysene		0	SVOC			Y	132 to 132	1	Y	ND	1	Y
	Dibenz(a,h)anthracene		0	SVOC			Y		0		ND	1	Y
	Fluoranthene		0	SVOC			Y	118 to 118	1	Y	ND	1	Y
	Fluorene		0	SVOC			Y	117 to 117	1	Y	ND	1	Y
	Indeno(1,2,3-c,d)pyrene		0	SVOC			Y		0		ND	1	Y
	Naphthalene		0	SVOC			Y	122 to 122	1	Y	ND	1	Y
	Phenanthrene		0	SVOC			Y	122 to 122	1	Y	ND	1	Y
	Pyrene		0	SVOC			Y	123 to 123	1	Y	ND	1	Y
PAHs in water leach	4-Terphenyl-d14		0	SVOC			Y	140 to 140	1	Y		0	Y
	Acenaphthene		0	SVOC			Y		0		ND	1	Y
	Acenaphthylene		0	SVOC			Y		0		ND	1	Y
	Anthracene		0	SVOC			Y		0		ND	1	Y
	Benzo(a)anthracene		0	SVOC			Y		0		ND	1	Y
	Benzo(a) pyrene		0	SVOC			Y	134 to 134	1	Y	ND	1	Y
	Benzo(b)&(k)fluoranthene		0	SVOC			Y		0		ND	1	Y
	Benzo(g,h,i)perylene		0	SVOC			Y		0		ND	1	Y
	Chrysene		0	SVOC			Y	132 to 132	1	Y	ND	1	Y
	Dibenz(a,h)anthracene		0	SVOC			Y		0		ND	1	Y
	Fluoranthene		0	SVOC			Y	118 to 118	1	Y	ND	1	Y
	Fluorene		0	SVOC			Y	117 to 117	1	Y	ND	1	Y
	Indeno(1,2,3-c,d)pyrene		0	SVOC			Y		0		ND	1	Y
	Naphthalene		0	SVOC			Y	122 to 122	1	Y	ND	1	Y
	Phenanthrene		0	SVOC			Y	122 to 122	1	Y	ND	1	Y
	Pyrene		0	SVOC			Y	123 to 123	1	Y	ND	1	Y
vTPH & BTEX in Water	4-Bromofluorobenzene		0	VOC			Y	93 to 93	1	Y		0	Y
	Benzene		0	VOC			Y	97 to 97	1	Y	ND	2	Y
	Dibromofluoromethane		0	SVOC			Y	108 to 108	1	Y		0	Y
	Ethylbenzene		0	VOC			Y	102 to 102	1	Y	ND	2	Y
	Toluene		0	VOC			Y	100 to 100	1	Y	ND	2	Y
	Toluene-D8		0	VOC			Y	99 to 99	1	Y		0	Y
	TPH C6 - C8		0	VOC			Y	96 to 96	1	Y	ND	2	Y
	Xylene (m & p)		0	VOC			Y	90 to 90	1	Y	ND	2	Y
	Xylene (o)		0	VOC			Y	91 to 91	1	Y	ND	2	Y

Contents

Count of Results

Matrix_Type	Sample_Type	Reg	Leached	Spike_Compounds	Surrogate
soil	Normal	2459	114	0	171
soil	LAB_D	292	8	0	20
soil	Field_D	296	0	0	20
soil	MB	227	8	0	14
soil	Interlab_D	153	0	0	11
soil	MS	61	8	0	15
soil	LCS	53	0	0	15
water	MB	22	30	0	5
water	LCS	22	22	0	5
water	SB	6	0	0	3
water	Trip_S	5	0	0	3
water	Rinsate	8	0	0	0
water	LAB_D	8	0	0	0

Field Blanks (water)
Filter: SDG in('43819')

SDG	43819
Field_ID	Rinsate 01
Sampled_Date-Time	20/07/2010
Sample_Type	Rinsate

Method_Type	ChemName	Units	EQL	
8 Metals in Water - Dissolved	Arsenic (Filtered)	mg/l	0.05	<0.05
	Cadmium (Filtered)	mg/l	0.01	<0.01
	Chromium (III+VI) (Filtered)	mg/l	0.01	<0.01
	Copper (Filtered)	mg/l	0.01	<0.01
	Lead (Filtered)	mg/l	0.03	<0.03
	Mercury (Filtered)	mg/l	0.0005	<0.0005
	Nickel (Filtered)	mg/l	0.02	<0.02
	Zinc (Filtered)	mg/l	0.02	<0.02
vTPH & BTEX in Water	Benzene	µg/L	1	<1
	Ethylbenzene	µg/L	1	<1
	Toluene	µg/L	1	<1
	TPH C6 - C9	µg/L	10	<10
	Xylene (m & p)	µg/L	2	<2
	Xylene (o)	µg/L	1	<1

806	43819	43819		43819	43819		43819	Interlab_D
Field_ID	BH01	QC01	RPD	BH06	QC03	RPD	BH01	QC01A RPD
Sampled_Date/Time	20/07/2010	20/07/2010		21/07/2010	21/07/2010		20/07/2010	20/07/2010

[illegible]

Contents

Surrogate Variation > 35% or outside lab LCL or UCL or outside lab LCL or UCL

SDG	Sample_Type	Matrix_Type	SampleCode	Field_ID	Depth	Sampled_Date-Time	Compound	Recovery %	Unit	Comments
43819	Normal	soil	43819-32	BH09	0 - 0.1	21/07/2010	Surrogate o-Terphenyl	0	%	Recovery not available due to significant background levels in the sample
43819	Normal	soil	43819-5	BH02	0 - 0.1	20/07/2010	Surrogate 2-fluorophenyl	57	%	
43819	Normal	soil	43819-5	BH02	0 - 0.1	20/07/2010	Surrogate Nitrobenzene-d5	50	%	
43819	Normal	soil	43819-5	BH02	0 - 0.1	20/07/2010	Surrogate 2-fluorobiphenyl	52	%	
43819	Normal	soil	43819-9	BH02	0 - 0.1	20/07/2010	Surrogate 2,4,6-Tribromophenyl	64	%	
43819	Normal	soil	43819-1	BH01	0 - 0.1	20/07/2010	Surrogate 2,4,6-Tribromophenyl	138	%	
43819	Normal	soil	43819-20	BH06	0 - 0.1	20/07/2010	Surrogate 2-fluorobiphenyl	55	%	
43819	Normal	soil	43819-20	BH06	0 - 0.1	21/07/2010	Surrogate Nitrobenzene-d5	62	%	
43819	Normal	soil	43819-24	BH07	0 - 0.1	21/07/2010	Surrogate 2-fluorobiphenyl	51	%	
43819	Normal	soil	43819-24	BH07	0 - 0.1	21/07/2010	Surrogate Phenol-d6	57	%	
43819	Normal	soil	43819-24	BH07	0 - 0.1	21/07/2010	Surrogate Nitrobenzene-d5	54	%	
43819	Normal	soil	43819-28	BH08	0 - 0.1	21/07/2010	Surrogate 2-fluorobiphenyl	63	%	
43819	Normal	soil	43819-32	BH09	0 - 0.1	21/07/2010	Surrogate Nitrobenzene-d5	55	%	
43819	Normal	soil	43819-32	BH09	0 - 0.1	21/07/2010	Surrogate 2-fluorobiphenyl	62	%	
43819	Normal	soil	43819-28	BH08	0 - 0.1	21/07/2010	Surrogate p-Terphenyl-d14	138	%	
43819	LAB_D	soil	43819-1DUP1	BH01	0 - 0.1	20/07/2010	Surrogate 2-fluorobiphenyl	51	%	
43819	MS	soil	43819-5MS			20/07/2010	Surrogate 2-fluorobiphenyl	59	%	
43819	MB	soil	BLANK43819			20/07/2010	Surrogate 2,4,6-Tribromophenyl	50	%	
43819	LCS	soil	43819LCS-6			20/07/2010	Surrogate p-Terphenyl-d14	64	%	
43819	LCS	water	43819LCS-W1			20/07/2010	Surrogate p-Terphenyl-d14	140	%	
43819	LCS	water	43819LCS-W1			20/07/2010	Surrogate p-Terphenyl-d14	140	%	

Contents

Laboratory Control Samples, Error > 35%

SDG	Matrix_Type	SampleCode	Method_Name	OriginalChemName	Recovery %	Unit	Result_Type	Comments
43819	soil	43819LCS-6	GC.12 - SVOC in waters and soil	Dimethylphthalate	64	%	REG	
43819	soil	43819LCS-6	GC.12 - SVOC in waters and soil	4-nitrophenol	62	%	REG	
43819	soil	43819LCS-6	GC.12 - SVOC in waters and soil	Surrogate p-Terphenyl-d14	64	%	SUR	
43819	water	43819LCS-W1	GC.12 - SVOC in waters and soil	Surrogate p-Terphenyl-d14	140	%	SUR	
43819	water	43819LCS-W1	GC.12 - SVOC in waters and soil	Surrogate p-Terphenyl-d14	140	%	SUR	

Contents

Less than 1 matrix spike in 20 samples, or less than 1 matrix duplicate in 20 samples

Matrix_Type	Number_of_Samples	Number_of_Matrix_Spike_Samples	Number_of_Matrix_Spike_Dupe_Samples	
soil	28	2	0	
water	6	0	0	

Contents

Matrix Spike Recoveries less than 60% or greater than 140%

SDG	Matrix_Type	SampleCode	Field_ID	Depth	Sampled_Date-Time	Method_Name	Compound	Recovery %	Result_Type	Comments
43819	soil	43819-5MS			20/07/2010	GC.12 - SVOC in waters and soil	Dimethylphthalate	54	REG	
43819	soil	43819-5MS			20/07/2010	GC.12 - SVOC in waters and soil	4-nitrophenol	28	REG	
43819	soil	43819-5MS			20/07/2010	GC.12 - SVOC in waters and soil	Surrogate 2-fluorobiphenyl	59	SUR	

Appendix J
Borehole Logs

Project: EG Tahmoor PESA

Project No.: 41274

Client: E.G. Property Group

Project Manager: Mike Parker

Total Hole Depth: 1.0 m

Eastings: 56H 280009

Northings: UTM 6210508

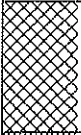
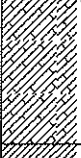
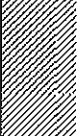
Date: 20 July 2010

Driller and Co.: NA

Drill Method: Hand Auger

Log By: Mike Parker

Bore Diameter: 120 mm

SUBSURFACE PROFILE			SAMPLE				Well Completion Details
Depth	Visual	Description	Number	Condition	PID (ppm)	Observations	
0.0		Ground Surface					
		FILL Silty, clayey sand, medium to dark grey, heterogeneous, damp, moderately loose, fine grained sand, well sorted, root fibres and brick fragment present	BH01-0.0-0.1	D	0.8		
			QC01/A				
		SILTY SAND Medium grey-brown, homogenous, moist, moderately loose, fine grained, well sorted, degraded organic matter present	BH01-0.3-0.4	D	1.3		
		CLAYEY SAND Medium orange-brown, homogenous, moist, moderately loose, fine grained, well sorted	BH01-0.4-0.5	D	1.9		
		SANDY CLAY Gravelly, mottled orange, brown, grey and red, homogenous, moist, firm, low plasticity, approximately 10% fine to coarse angular ironstone gravels					
1.0		End of borehole at 1.0 m bgs. Target depth.	BH01-0.9-1.0	D	1.4		
-2.0							

Sample Method	Sample Condition		
HA - Hand Auger SFA - Solid Flight Auger HFA - Hollow Flight Auger PT - Push Tubing	U - undisturbed tube sample D - disturbed sample CS - core sample		

Project: EG Tahmoor PESA

Project No.: 41274

Client: E.G. Property Group

Project Manager: Mike Parker

Total Hole Depth: 1.0 m

Eastings: 56H 280076

Northings: UTM 6210509

Date: 20 July 2010

Driller and Co.: NA

Drill Method: Hand Auger

Log By: Mike Parker

Bore Diameter: 120 mm

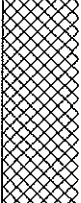
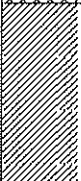
SUBSURFACE PROFILE			SAMPLE				Well Completion Details
Depth	Visual	Description	Number	Condition	PID (ppm)	Observations	
0.0		Ground Surface					
		FILL Gravel, sand and clay, medium to dark grey, heterogeneous, dry-damp, dense, poorly sorted, crushed shale roadbase material	BH02-0.0-0.1	D	1.2		
		SILTY SAND Medium grey, homogenous, moist, moderately loose, fine grained, well sorted, root fibres present	BH02-0.3-0.4	D	1.4		
		SILTY CLAY Orange-brown with grey and red mottles, damp, stiff, moderate to high plasticity, trace weathered ironstone gravels	BH02-0.4-0.5	D	1.4		
		SILTY CLAY As above. very stiff, lighter colour, high plasticity					
			BH02-0.9-1.0	D	1.1		
1.0		End of borehole at 1.0 m bgs. Target depth.					
-2.0							

Sample Method	Sample Condition		
HA - Hand Auger SFA - Solid Flight Auger HFA - Hollow Flight Auger PT - Push Tubing	U - undisturbed tube sample D - disturbed sample CS - core sample		

Project: EG Tahmoor PESA
 Project No.: 41274
 Client: E.G. Property Group
 Project Manager: Mike Parker

Total Hole Depth: 1.0 m
 Eastings: 56H 280105
 Northings: UTM 6210488
 Date: 20 July 2010

Driller and Co.: NA
 Drill Method: Hand Auger
 Log By: Mike Parker
 Bore Diameter: 120 mm

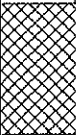
SUBSURFACE PROFILE			SAMPLE				Well Completion Details
Depth	Visual	Description	Number	Condition	PID (ppm)	Observations	
0.0		Ground Surface					
		FILL Gravelly, clayey sand, dark grey-brown, organic, heterogeneous, moist, moderately loose, poorly sorted, approximately 10% fine to coarse angular gravels of shale	BH03-0.0-0.1	D	0.6		
			BH03-0.3-0.4	D	0.6		
		FILL Gravelly, silty clay, medium brown with grey mottles, heterogeneous, damp, firm, moderate plasticity, approximately 10% ironstone gravels present	BH03-0.4-0.5	D	0.5		
		SILTY CLAY Mottled grey and orange-brown, homogenous, damp, very stiff, high plasticity, trace ironstone gravels, root fibres					
			BH03-0.9-1.0	D	0.5		
1.0		End of borehole at 1.0 m bgs. Target depth.					
-2.0							

Sample Method	Sample Condition		
HA - Hand Auger SFA - Solid Flight Auger HFA - Hollow Flight Auger PT - Push Tubing	U - undisturbed tube sample D - disturbed sample CS - core sample		

Project: EG Tahmoor PESA
 Project No.: 41274
 Client: E.G. Property Group
 Project Manager: Mike Parker

Total Hole Depth: 0.6 m
 Eastings: 56H 280086
 Northings: UTM 6210428
 Date: 20 July 2010

Driller and Co.: NA
 Drill Method: Hand Auger
 Log By: Mike Parker
 Bore Diameter: 120 mm

SUBSURFACE PROFILE			SAMPLE				Well Completion Details
Depth	Visual	Description	Number	Condition	PID (ppm)	Observations	
0.0		Ground Surface					
		FILL Gravelly, clayey sand, dark grey, heterogeneous, wet, moderately loose, poorly sorted, approximately 30% fine to coarse gravels of shale, sandstone and igneous rock	BH04-0.0-0.1	D	0.4		
			QC02/A				
		WEATHERED SANDSTONE Gravelly, sandy clay, mottled brown, orange, red and grey, homogeneous, moist, high plasticity, firm	BH04-0.3-0.4	D	0.5		
			BH04-0.5-0.6	D	0.9		
		End of borehole at 0.6 m bgs. Refusal on sandstone.					
1.0							
2.0							

Sample Method	Sample Condition		
HA - Hand Auger SFA - Solid Flight Auger HFA - Hollow Flight Auger PT - Push Tubing	U - undisturbed tube sample D - disturbed sample CS - core sample		

Project: EG Tahmoor PESA

Project No.: 41274

Client: E.G. Property Group

Project Manager: Mike Parker

Total Hole Depth: 0.9 m

Eastings: 56H 280183

Northings: UTM 6210346

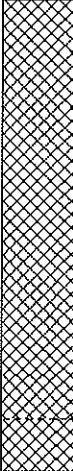
Date: 20 July 2010

Driller and Co.: NA

Drill Method: Hand Auger

Log By: Mike Parker

Bore Diameter: 120 mm

SUBSURFACE PROFILE			SAMPLE				Well Completion Details
Depth	Visual	Description	Number	Condition	PID (ppm)	Observations	
0.0		Ground Surface					
		FILL Gravelly, silty clay, dark grey-brown, heterogeneous, moist, firm, moderate plasticity, approximately 10 - 20% fine gravels of shale, root fibres present	BH05-0.0-0.1	D	0.7		
			BH05-0.3-0.4	D	0.9		
			BH05-0.5-0.6	D	1.5		
		FILL As above, orange clayey-sand present, wet	BH05-0.8-0.9	D	0.8		
1.0		End of borehole at 0.9 m bgs. Refusal.					
2.0							

Sample Method	Sample Condition		
HA - Hand Auger SFA - Solid Flight Auger HFA - Hollow Flight Auger PT - Push Tubing	U - undisturbed tube sample D - disturbed sample CS - core sample		

Project: EG Tahmoor PESA

Project No.: 41274

Client: E.G. Property Group

Project Manager: Mike Parker

Total Hole Depth: 1.0 m

Eastings: 56H 280652

Northings: UTM 6210227

Date: 21 July 2010

Driller and Co.: NA

Drill Method: Hand Auger

Log By: Mike Parker

Bore Diameter: 120 mm

SUBSURFACE PROFILE			SAMPLE				Well Completion Details
Depth	Visual	Description	Number	Condition	PID (ppm)	Observations	
0.0		Ground Surface					
		FILL Silty sand, dark grey-brown, heterogeneous, damp, moderately loose, poorly sorted, approximately 10% fine to coarse gravels of shale, roots and root fibres present	BH06-0.0-0.1	D	1.1		
			QC03/A				
		CLAYEY SAND Mottled orange-brown with grey and red, homogenous, damp, moderately loose, poorly sorted, approximately 20% fine to coarse gravels of sandstone and ironstone	BH06-0.3-0.4	D	1.1		
			BH06-0.5-0.6	D	1.2		
		WEATHERED SANDSTONE Clayey sand, mottled orange-brown with grey and red, homogenous, dry, dense, poorly sorted gravels, approximately 30% fine to coarse gravels of sandstone					
			BH06-0.9-1.0	D	1.1		
1.0		End of borehole at 1.0 m bgs. Target depth.					
-2.0							

Sample Method	Sample Condition		
HA - Hand Auger SFA - Solid Flight Auger HFA - Hollow Flight Auger PT - Push Tubing	U - undisturbed tube sample D - disturbed sample CS - core sample		

Project: EG Tahmoor PESA

Total Hole Depth: 1.0 m

Driller and Co.: NA

Project No.: 41274

Eastings: 56H 280691

Drill Method: Hand Auger

Client: E.G. Property Group

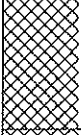
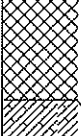
Northings: UTM 6210254

Log By: Mike Parker

Project Manager: Mike Parker

Date: 21 July 2010

Bore Diameter: 120 mm

SUBSURFACE PROFILE			SAMPLE				Well Completion Details
Depth	Visual	Description	Number	Condition	PID (ppm)	Observations	
0.0		Ground Surface					
		FILL Silty sand, dark grey-brown, heterogeneous, damp, loose, well sorted sands, fine grained, trace shale gravels	BH07-0.0-0.1	D	3.2		
		FILL Gravels and silty sand, heterogeneous, light grey and brown, damp, fine grained, approximately 40% coarse gravels of sandstone	BH07-0.3-0.4	D	1.6		
		SANDY CLAY Mottled, orange-brown, grey and red, homogenous, damp, firm to stiff, moderate to high plasticity, approximately 20% fine to coarse gravels of sandstone and ironstone	BH07-0.5-0.6	D	1.7		
		WEATHERED SANDSTONE Orange-brown with grey and red, homogenous, dry, hard	BH07-0.9-1.0	D	2.0		
1.0		End of borehole at 1.0 m bgs. Target depth.					
-2.0							

Sample Method	Sample Condition		
HA - Hand Auger SFA - Solid Flight Auger HFA - Hollow Flight Auger PT - Push Tubing	U - undisturbed tube sample D - disturbed sample CS - core sample		

Project: EG Tahmoor PESA
 Project No.: 41274
 Client: E.G. Property Group
 Project Manager: Mike Parker

Total Hole Depth: 0.9 m
 Eastings: 56H 280172
 Northings: UTM 6210882
 Date: 21 July 2010

Driller and Co.: NA
 Drill Method: Hand Auger
 Log By: Mike Parker
 Bore Diameter: 120 mm

SUBSURFACE PROFILE			SAMPLE				Well Completion Details
Depth	Visual	Description	Number	Condition	PID (ppm)	Observations	
0.0		Ground Surface					
		FILL Silty, sandy clay, dark grey-brown, organic, homogenous, moist, soft, low-moderate plasticity, roots and root fibres present	BH08-0.0-0.1	D	2.3		
		SILTY CLAY Orange-brown with grey and red mottles, homogenous, damp, stiff, high plasticity, trace sandstone and ironstone gravels	BH08-0.3-0.4	D	2.0		
			BH08-0.5-0.6	D	1.3		
			BH08-0.8-0.9	D	1.5		
1.0		End of borehole at 0.9 m bgs. Refusal on sandstone.					
2.0							

Sample Method	Sample Condition		
HA - Hand Auger SFA - Solid Flight Auger HFA - Hollow Flight Auger PT - Push Tubing	U - undisturbed tube sample D - disturbed sample CS - core sample		



Borehole No.: BH09

Location: 165 - 185 River Road, Tahmoor, NSW

Project: EG Tahmoor PESA

Project No.: 41274

Client: E.G. Property Group

Project Manager: Mike Parker

Total Hole Depth: 0.7 m

Eastings: 56H 280154

Northings: UTM 6210882

Date: 21 July 2010

Driller and Co.: NA

Drill Method: Hand Auger

Log By: Mike Parker

Bore Diameter: 120 mm

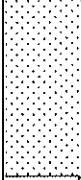
SUBSURFACE PROFILE			SAMPLE				
Depth	Visual	Description	Number	Condition	PID (ppm)	Observations	Well Completion Details
0.0		Ground Surface					
		FILL Clayey sand, dark grey-brown, dry, homogenous, moderately loose, well sorted, fine to medium grained, root fibres present	BH09-0.0-0.1	D	2.3		
			BH09-0.3-0.4	D	1.8		
		FILL Reworked gravelly, silty clay, orange- brown with grey and red mottles, dry, stiff, low plasticity, approximately 30% fine to coarse gravels of ironstone	BH09-0.5-0.6	D	1.0		
			BH09-0.6-0.7	D	1.1		
		End od borehole at 0.7 m bgs. Refusal on ironstone cobble.					
1.0							
-2.0							

Sample Method	Sample Condition		
HA - Hand Auger SFA - Solid Flight Auger HFA - Hollow Flight Auger PT - Push Tubing	U - undisturbed tube sample D - disturbed sample CS - core sample		

Project: EG Tahmoor PESA
 Project No.: 41274
 Client: E.G. Property Group
 Project Manager: Mike Parker

Total Hole Depth: 0.5 m
 Eastings: 56H 280364
 Northings: UTM 6211144
 Date: 21 July 2010

Driller and Co.: NA
 Drill Method: Hand Auger
 Log By: Mike Parker
 Bore Diameter: 120 mm

SUBSURFACE PROFILE			SAMPLE				Well Completion Details
Depth	Visual	Description	Number	Condition	PID (ppm)	Observations	
0.0		Ground Surface					
		CLAYEY SAND Silty, medium grey-brown, homogenous, damp, moderately loose, fine grained, well sorted, roots and root fibres present	BH10-0.0-0.1	D	0.7		
		WEATHERED SANDSTONE Gravelly, clayey sand, homogeneous, mottled orange-brown and grey, damp, moderately loose, fine grained sand, approximately 30-40% coarse angular gravels of sandstone	BH10-0.3-0.4	D	2.1		
			BH10-0.4-0.5	D	1.4		
		End of borehole at 0.5 m bgs. Refusal on sandstone.					
1.0							
2.0							

Sample Method	Sample Condition		
HA - Hand Auger SFA - Solid Flight Auger HFA - Hollow Flight Auger PT - Push Tubing	U - undisturbed tube sample D - disturbed sample CS - core sample		

Project: EG Tahmoor PESA

Project No.: 41274

Client: E.G. Property Group

Project Manager: Mike Parker

Total Hole Depth: 0.45 m

Eastings: 56H 279922

Northings: UTM 6210685

Date: 21 July 2010

Driller and Co.: NA

Drill Method: Hand Auger

Log By: Mike Parker

Bore Diameter: 120 mm

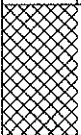
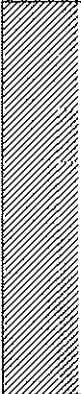
SUBSURFACE PROFILE			SAMPLE				Well Completion Details
Depth	Visual	Description	Number	Condition	PID (ppm)	Observations	
0.0		Ground Surface					
		FILL Gravelly, clayey sand, dark grey, organic, heterogeneous, moist, moderately loose, poorly sorted, approximately 30-40% fine gravels to cobbles of sandstone, roots and root fibres present	BH11-0.0-0.1	D	1.4		
			QC04/A				
			BH11-0.3-0.4	D	0.6		
		End of borehole at 0.45 m bgs. Refusal on sandstone cobbles.					
1.0							
2.0							

Sample Method	Sample Condition		
HA - Hand Auger SFA - Solid Flight Auger HFA - Hollow Flight Auger PT - Push Tubing	U - undisturbed tube sample D - disturbed sample CS - core sample		

Project: EG Tahmoor PESA
 Project No.: 41274
 Client: E.G. Property Group
 Project Manager: Mike Parker

Total Hole Depth: 1.0 m
 Eastings: 56H 280275
 Northings: UTM 6210593
 Date: 21 July 2010

Driller and Co.: NA
 Drill Method: Hand Auger
 Log By: Mike Parker
 Bore Diameter: 120 mm

SUBSURFACE PROFILE			SAMPLE				Well Completion Details
Depth	Visual	Description	Number	Condition	PID (ppm)	Observations	
0.0		Ground Surface					
		FILL Gravelly, silty clay, medium grey, heterogeneous, damp, stiff, low plasticity, approximately 20% fine to coarse gravels of shale	BH12-0.0-0.1	D	0.4		
		SILTY CLAY Orange-brown with grey and red mottles, homogenous, damp, very stiff, low to moderate plasticity, weathered ironstone gravels present	BH12-0.3-0.4	D	1.2		
			BH12-0.5-0.6	D	1.0		
			BH12-0.9-1.0	D	0.7		
1.0		End of borehole at 1.0 m bgs. Target depth.					
-2.0							

Sample Method	Sample Condition		
HA - Hand Auger SFA - Solid Flight Auger HFA - Hollow Flight Auger PT - Push Tubing	U - undisturbed tube sample D - disturbed sample CS - core sample		

Project: EG Tahmoor PESA

Total Hole Depth: 0.65 m

Driller and Co.: NA

Project No.: 41274

Eastings: 56H 280656

Drill Method: Hand Auger

Client: E.G. Property Group

Northings: UTM 6210600

Log By: Mike Parker

Project Manager: Mike Parker

Date: 21 July 2010

Bore Diameter: 120 mm

SUBSURFACE PROFILE			SAMPLE				Well Completion Details
Depth	Visual	Description	Number	Condition	PID (ppm)	Observations	
0.0		Ground Surface					
		CLAYEY SAND Gravelly, dark grey-brown, homogenous, moist, moderately loose, poorly sorted, approximately 20% fine to coarse gravels of sandstone, roots and root fibres present	BH13-0.0-0.1	D	1.0		
		SILTY CLAY Orange-brown with grey and red mottles, homogenous, damp, stiff, moderate plasticity, approximately 10-20% fine to coarse gravels of sandstone	BH13-0.3-0.4	D	1.0		
			BH13-0.5-0.6	D	1.1		
		WEATHERED SANDSTONE Clayey sand, orange-brown with grey and red mottles, homogenous, dry, hard End of borehole at 0.65 m bgs. Refusal on sandstone.					
1.0							
2.0							

Sample Method	Sample Condition		
HA - Hand Auger SFA - Solid Flight Auger HFA - Hollow Flight Auger PT - Push Tubing	U - undisturbed tube sample D - disturbed sample CS - core sample		

Project: EG Tahmoor PESA
 Project No.: 41274
 Client: E.G. Property Group
 Project Manager: Mike Parker

Total Hole Depth: 0.7 m
 Eastings: 56H 280754
 Northings: UTM 6210439
 Date: 21 July 2010

Driller and Co.: NA
 Drill Method: Hand Auger
 Log By: Mike Parker
 Bore Diameter: 120 mm

SUBSURFACE PROFILE			SAMPLE				Well Completion Details
Depth	Visual	Description	Number	Condition	PID (ppm)	Observations	
0.0		Ground Surface					
		SAND Grey, homogenous, dry, loose, well sorted, fine grained, root fibres present	BH14-0.0-0.1	D	0.7		
			QC05/A				
		SANDY CLAY Grey-brown with orange and red mottles, damp-moist, homogenous, firm to stiff, moderate plasticity, trace weathered sandstone gravels	BH14-0.3-0.4	D	0.9		
			BH14-0.5-0.6	D	0.3		
		WEATHERED SANDSTONE Clayey sand, grey-brown with red and orange mottles, homogenous, dry hard End of borehole at 0.7 m bgs. Refusal on sandstone.					
1.0							
2.0							

Sample Method	Sample Condition		
HA - Hand Auger SFA - Solid Flight Auger HFA - Hollow Flight Auger PT - Push Tubing	U - undisturbed tube sample D - disturbed sample CS - core sample		

Project: EG Tahmoor PESA

Project No.: 41274

Client: E.G. Property Group

Project Manager: Mike Parker

Total Hole Depth: 0.15 m

Eastings: 56H 280431

Northings: UTM 6209887

Date: 21 July 2010

Driller and Co.: NA

Drill Method: Hand Auger

Log By: Mike Parker

Bore Diameter: 120 mm

SUBSURFACE PROFILE			SAMPLE				Well Completion Details
Depth	Visual	Description	Number	Condition	PID (ppm)	Observations	
0.0		Ground Surface					
		FILL Gravelly sand, grey-brown, heterogeneous, dry, moderately loose, poorly sorted, approximately 10-20% fine to coarse gravels of shale, roots and root fibres present End of borehole at 0.15 m bgs. Refusal on sandstone bedrock.	BH15-0.0-0.1	D	0.5		
1.0							
2.0							

Sample Method	Sample Condition		
HA - Hand Auger SFA - Solid Flight Auger HFA - Hollow Flight Auger PT - Push Tubing	U - undisturbed tube sample D - disturbed sample CS - core sample		

Appendix K

Laboratory Reports and Chain of Custody Documentation



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 43819

Client:

JBS Environmental
P.O. Box 940
MASCOT
NSW 1460

Attention: Mike Parker

Sample log in details:

Your Reference:	<u>41274, Tahmoor PESA</u>
No. of samples:	56 Soils, 3 Waters
Date samples received:	22/07/10
Date completed instructions received:	22/07/10

Analysis Details:

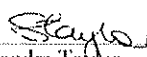
Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.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

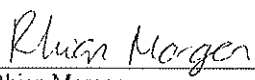
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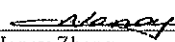
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Date of Preliminary Report:	Not Issued
Issue Date:	29/07/10

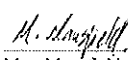
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Accredited for compliance with ISO/IEC 17025.
Tests not covered by NATA are denoted with *.

Results Approved By:


Sandra Taylor
Senior Organic Chemist


Rhian Morgan
Metals Supervisor


Nancy Zhang
Chemist


Matt Mansfield
Approved Signatory

EnviroLab Reference: 43819
Revision No: R 00

Page 1 of 58



vTPH & BTEX in Soil						
Our Reference:	UNITS	43819-1	43819-5	43819-6	43819-9	43819-13
Your Reference	-----	BH01	BH02	BH02	BH03	BH04
Depth	-----	0.0-0.1	0.0-0.1	0.3-0.4	0.0-0.1	0.0-0.1
Date Sampled		20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010	23/7/2010
Date analysed	-	24/7/2010	24/7/2010	24/7/2010	24/7/2010	24/7/2010
vTPH C6 - C9	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
Ethylbenzene	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	%	89	95	106	103	86

vTPH & BTEX in Soil						
Our Reference:	UNITS	43819-16	43819-20	43819-24	43819-28	43819-32
Your Reference	-----	BH05	BH06	BH07	BH08	BH09
Depth	-----	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1
Date Sampled		20/07/2010	21/07/2010	21/07/2010	21/07/2010	21/07/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010	23/7/2010
Date analysed	-	24/7/2010	24/7/2010	24/7/2010	24/7/2010	24/7/2010
vTPH C6 - C9	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
Ethylbenzene	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	%	98	95	97	88	95

vTPH & BTEX in Soil						
Our Reference:	UNITS	43819-34	43819-37	43819-39	43819-42	43819-45
Your Reference	-----	BH09	BH10	BH11	BH12	BH13
Depth	-----	0.5-0.6	0.3-0.4	0.0-0.1	0.3-0.4	0.0-0.1
Date Sampled		21/07/2010	21/07/2010	21/07/2010	21/07/2010	21/07/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010	23/7/2010
Date analysed	-	24/7/2010	24/7/2010	24/7/2010	24/7/2010	24/7/2010
vTPH C6 - C9	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
Ethylbenzene	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	%	104	102	114	103	99

vTPH & BTEX in Soil					
Our Reference:	UNITS	43819-48	43819-51	43819-52	43819-54
Your Reference	-----	BH14	BH15	QC01	QC03
Depth	-----	0.0-0.1	0.0-0.1	-	-
Date Sampled		21/07/2010	21/07/2010	20/07/2010	21/07/2010
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010
Date analysed	-	24/7/2010	24/7/2010	24/7/2010	24/7/2010
vTPH C ₆ - C ₉	mg/kg	<25	<25	<25	<25
Benzene	mg/kg	<0.5	<0.5	<0.5	<0.5
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1.0	<1.0	<1.0	<1.0
m+p-xylene	mg/kg	<2.0	<2.0	<2.0	<2.0
o-Xylene	mg/kg	<1.0	<1.0	<1.0	<1.0
Surrogate aaa-Trifluorotoluene	%	106	103	98	94

sTPH in Soil (C10-C36)	UNITS	43819-1	43819-5	43819-6	43819-9	43819-13
Our Reference:	-----	BH01	BH02	BH02	BH03	BH04
Your Reference	-----	0.0-0.1	0.0-0.1	0.3-0.4	0.0-0.1	0.0-0.1
Depth		20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010
Date Sampled		Soil	Soil	Soil	Soil	Soil
Type of sample						
Date extracted	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010	23/7/2010
Date analysed	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010	23/7/2010
TPH C10 - C14	mg/kg	<50	<50	<50	<50	<50
TPH C15 - C28	mg/kg	<100	<100	<100	<100	<100
TPH C29 - C36	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	118	118	115	116	116

sTPH in Soil (C10-C36)	UNITS	43819-16	43819-20	43819-24	43819-28	43819-32
Our Reference:	-----	BH05	BH06	BH07	BH08	BH09
Your Reference	-----	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1
Depth		20/07/2010	21/07/2010	21/07/2010	21/07/2010	21/07/2010
Date Sampled		Soil	Soil	Soil	Soil	Soil
Type of sample						
Date extracted	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010	23/7/2010
Date analysed	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010	23/7/2010
TPH C10 - C14	mg/kg	<50	<50	<50	<50	120
TPH C15 - C28	mg/kg	<100	<100	<100	<100	280
TPH C29 - C36	mg/kg	<100	<100	<100	<100	320
Surrogate o-Terphenyl	%	120	115	117	115	#

sTPH in Soil (C10-C36)	UNITS	43819-34	43819-37	43819-39	43819-42	43819-45
Our Reference:	-----	BH09	BH10	BH11	BH12	BH13
Your Reference	-----	0.5-0.6	0.3-0.4	0.0-0.1	0.3-0.4	0.0-0.1
Depth		21/07/2010	21/07/2010	21/07/2010	21/07/2010	21/07/2010
Date Sampled		Soil	Soil	Soil	Soil	Soil
Type of sample						
Date extracted	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010	23/7/2010
Date analysed	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010	23/7/2010
TPH C10 - C14	mg/kg	<50	<50	<50	<50	<50
TPH C15 - C28	mg/kg	<100	<100	<100	<100	<100
TPH C29 - C36	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	116	114	115	116	115

sTPH in Soil (C10-C36)					
Our Reference:	UNITS	43819-48	43819-51	43819-52	43819-54
Your Reference	-----	BH14	BH15	QC01	QC03
Depth	-----	0.0-0.1	0.0-0.1	-	-
Date Sampled		21/07/2010	21/07/2010	20/07/2010	21/07/2010
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010
Date analysed	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010
TPH C10 - C14	mg/kg	<50	<50	<50	<50
TPH C15 - C28	mg/kg	<100	<100	<100	<100
TPH C29 - C36	mg/kg	<100	<100	<100	<100
Surrogate o-Terphenyl	%	118	115	115	109

PAHs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	43819-1 BH01 0.0-0.1 20/07/2010 Soil	43819-5 BH02 0.0-0.1 20/07/2010 Soil	43819-6 BH02 0.3-0.4 20/07/2010 Soil	43819-9 BH03 0.0-0.1 20/07/2010 Soil	43819-13 BH04 0.0-0.1 20/07/2010 Soil
Date extracted	-	23/07/2010	23/07/2010	23/07/2010	23/07/2010	23/07/2010
Date analysed	-	23/07/2010	23/07/2010	23/07/2010	23/07/2010	23/07/2010
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	<0.1
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	<0.1	<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	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<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-d14	%	85	89	86	87	89

PAHs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	43819-16 BH05 0.0-0.1 20/07/2010 Soil	43819-20 BH06 0.0-0.1 21/07/2010 Soil	43819-24 BH07 0.0-0.1 21/07/2010 Soil	43819-28 BH08 0.0-0.1 21/07/2010 Soil	43819-32 BH09 0.0-0.1 21/07/2010 Soil
Date extracted	-	23/07/2010	23/07/2010	23/07/2010	23/07/2010	23/07/2010
Date analysed	-	23/07/2010	23/07/2010	23/07/2010	23/07/2010	23/07/2010
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	<0.1
Phenanthrene	mg/kg	0.2	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.7	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.6	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.2	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.4	<0.1	<0.1	<0.1	<0.1
Benzo(b+k)fluoranthene	mg/kg	0.6	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	0.3	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	0.2	<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	0.2	<0.1	<0.1	<0.1	<0.1
Surrogate p-Terphenyl-d14	%	88	88	91	86	91

PAHs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	43819-34 BH09 0.5-0.6 21/07/2010 Soil	43819-37 BH10 0.3-0.4 21/07/2010 Soil	43819-39 BH11 0.0-0.1 21/07/2010 Soil	43819-42 BH12 0.3-0.4 21/07/2010 Soil	43819-45 BH13 0.0-0.1 21/07/2010 Soil
Date extracted	-	23/07/2010	23/07/2010	23/07/2010	23/07/2010	23/07/2010
Date analysed	-	23/07/2010	23/07/2010	23/07/2010	23/07/2010	23/07/2010
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	<0.1
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	<0.1	<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	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<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-d14	%	90	90	88	88	89

PAHs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	43819-48 BH14 0.0-0.1 21/07/2010 Soil	43819-51 BH15 0.0-0.1 21/07/2010 Soil	43819-52 QC01 - 20/07/2010 Soil	43819-54 QC03 - 21/07/2010 Soil
Date extracted	-	23/07/2010	23/07/2010	23/07/2010	23/07/2010
Date analysed	-	23/07/2010	23/07/2010	23/07/2010	23/07/2010
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1
Benzo(b+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1
Surrogate p-Terphenyl-d14	%	88	87	88	87

Organochlorine Pesticides in soil	UNITS	43819-1	43819-5	43819-6	43819-9	43819-13
Our Reference:	-----	BH01	BH02	BH02	BH03	BH04
Your Reference	-----	0.0-0.1	0.0-0.1	0.3-0.4	0.0-0.1	0.0-0.1
Depth		20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010
Date Sampled		Soil	Soil	Soil	Soil	Soil
Type of sample						
Date extracted	-	23/07/20100	23/07/20100	23/07/20100	23/07/20100	23/07/20100
Date analysed	-	24/07/20100	24/07/20100	24/07/20100	24/07/20100	24/07/20100
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	<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	<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	<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-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/kg	<0.1	<0.1	<0.1	<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	%	80	78	73	74	76

Organochlorine Pesticides in soil	UNITS	43819-16	43819-20	43819-24	43819-28	43819-32
Our Reference:	-----	BH05	BH06	BH07	BH08	BH09
Your Reference	-----	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1
Depth		20/07/2010	21/07/2010	21/07/2010	21/07/2010	21/07/2010
Date Sampled		Soil	Soil	Soil	Soil	Soil
Type of sample						
Date extracted	-	23/07/20100	23/07/20100	23/07/20100	23/07/20100	23/07/20100
Date analysed	-	24/07/20100	24/07/20100	24/07/20100	24/07/20100	24/07/20100
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	<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	<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	<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-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/kg	<0.1	<0.1	<0.1	<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	%	76	77	76	74	75

Organochlorine Pesticides in soil						
Our Reference:	UNITS	43819-34	43819-37	43819-39	43819-42	43819-45
Your Reference	-----	BH09	BH10	BH11	BH12	BH13
Depth	-----	0.5-0.6	0.3-0.4	0.0-0.1	0.3-0.4	0.0-0.1
Date Sampled		21/07/2010	21/07/2010	21/07/2010	21/07/2010	21/07/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	23/07/20100	23/07/20100	23/07/20100	23/07/20100	23/07/20100
Date analysed	-	24/07/20100	24/07/20100	24/07/20100	24/07/20100	24/07/20100
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	<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	<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	<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-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/kg	<0.1	<0.1	<0.1	<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	%	78	76	75	72	74

Organochlorine Pesticides in soil					
Our Reference:	UNITS	43819-48	43819-51	43819-52	43819-54
Your Reference	-----	BH14	BH15	QC01	QC03
Depth	-----	0.0-0.1	0.0-0.1	-	-
Date Sampled		21/07/2010	21/07/2010	20/07/2010	21/07/2010
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	23/07/20100	23/07/20100	23/07/20100	23/07/20100
Date analysed	-	24/07/20100	24/07/20100	24/07/20100	24/07/20100
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	76	77	74	75

PCBs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	43819-1 BH01 0.0-0.1 20/07/2010 Soil	43819-5 BH02 0.0-0.1 20/07/2010 Soil	43819-6 BH02 0.3-0.4 20/07/2010 Soil	43819-9 BH03 0.0-0.1 20/07/2010 Soil	43819-13 BH04 0.0-0.1 20/07/2010 Soil
Date extracted	-	23/07/20100	23/07/20100	23/07/20100	23/07/20100	23/07/20100
Date analysed	-	24/07/20100	24/07/20100	24/07/20100	24/07/20100	24/07/20100
Arochlor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1221*	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
Arochlor 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	<0.1
Surrogate TCLMX	%	80	78	73	74	76

PCBs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	43819-16 BH05 0.0-0.1 20/07/2010 Soil	43819-20 BH06 0.0-0.1 21/07/2010 Soil	43819-24 BH07 0.0-0.1 21/07/2010 Soil	43819-28 BH08 0.0-0.1 21/07/2010 Soil	43819-32 BH09 0.0-0.1 21/07/2010 Soil
Date extracted	-	23/07/20100	23/07/20100	23/07/20100	23/07/20100	23/07/20100
Date analysed	-	24/07/20100	24/07/20100	24/07/20100	24/07/20100	24/07/20100
Arochlor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1221*	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
Arochlor 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	<0.1
Surrogate TCLMX	%	76	77	76	74	75

PCBs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	43819-34 BH09 0.5-0.6 21/07/2010 Soil	43819-37 BH10 0.3-0.4 21/07/2010 Soil	43819-39 BH11 0.0-0.1 21/07/2010 Soil	43819-42 BH12 0.3-0.4 21/07/2010 Soil	43819-45 BH13 0.0-0.1 21/07/2010 Soil
Date extracted	-	23/07/20100	23/07/20100	23/07/20100	23/07/20100	23/07/20100
Date analysed	-	24/07/20100	24/07/20100	24/07/20100	24/07/20100	24/07/20100
Arochlor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1221*	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
Arochlor 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	<0.1
Surrogate TCLMX	%	78	76	75	72	74

PCBs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	43819-48 BH14 0.0-0.1 21/07/2010 Soil	43819-51 BH15 0.0-0.1 21/07/2010 Soil	43819-52 QC01 - 20/07/2010 Soil	43819-54 QC03 - 21/07/2010 Soil
Date extracted	-	23/07/20100	23/07/20100	23/07/20100	23/07/20100
Date analysed	-	24/07/20100	24/07/20100	24/07/20100	24/07/20100
Arochlor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1
Arochlor 1221*	mg/kg	<0.1	<0.1	<0.1	<0.1
Arochlor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1
Arochlor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1
Arochlor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1
Arochlor 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	%	76	77	74	75

Acid Extractable metals in soil	UNITS	43819-1	43819-5	43819-6	43819-9	43819-13
Our Reference:	-----	BH01	BH02	BH02	BH03	BH04
Your Reference	-----	0.0-0.1	0.0-0.1	0.3-0.4	0.0-0.1	0.0-0.1
Depth		20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010
Date Sampled		Soil	Soil	Soil	Soil	Soil
Type of sample						
Date digested	-	23/07/2010	23/07/2010	23/07/2010	23/07/2010	23/07/2010
Date analysed	-	23/07/2010	23/07/2010	23/07/2010	23/07/2010	23/07/2010
Arsenic	mg/kg	<4	<4	<4	4	7
Cadmium	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	mg/kg	7	9	4	10	19
Copper	mg/kg	7	30	1	32	36
Lead	mg/kg	14	22	6	14	23
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	3	18	1	9	18
Zinc	mg/kg	71	110	2	140	220

Acid Extractable metals in soil	UNITS	43819-16	43819-20	43819-24	43819-28	43819-32
Our Reference:	-----	BH05	BH06	BH07	BH08	BH09
Your Reference	-----	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1
Depth		20/07/2010	21/07/2010	21/07/2010	21/07/2010	21/07/2010
Date Sampled		Soil	Soil	Soil	Soil	Soil
Type of sample						
Date digested	-	23/07/2010	23/07/2010	23/07/2010	23/07/2010	23/07/2010
Date analysed	-	23/07/2010	23/07/2010	23/07/2010	23/07/2010	23/07/2010
Arsenic	mg/kg	7	8	<4	5	6
Cadmium	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	mg/kg	12	19	7	14	16
Copper	mg/kg	38	20	5	14	13
Lead	mg/kg	24	20	11	22	21
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	23	5	3	7	8
Zinc	mg/kg	85	24	32	100	150

Acid Extractable metals in soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	43819-34 BH09 0.5-0.6 21/07/2010 Soil	43819-37 BH10 0.3-0.4 21/07/2010 Soil	43819-39 BH11 0.0-0.1 21/07/2010 Soil	43819-42 BH12 0.3-0.4 21/07/2010 Soil	43819-45 BH13 0.0-0.1 21/07/2010 Soil
Date digested	-	23/07/2010	23/07/2010	23/07/2010	23/07/2010	23/07/2010
Date analysed	-	23/07/2010	23/07/2010	23/07/2010	23/07/2010	23/07/2010
Arsenic	mg/kg	4	5	4	10	<4
Cadmium	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	mg/kg	17	14	11	23	6
Copper	mg/kg	23	<1	11	16	3
Lead	mg/kg	21	10	41	26	10
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	4	2	4	6	2
Zinc	mg/kg	29	4	190	40	11

Acid Extractable metals in soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	43819-48 BH14 0.0-0.1 21/07/2010 Soil	43819-51 BH15 0.0-0.1 21/07/2010 Soil	43819-52 QC01 - 20/07/2010 Soil	43819-54 QC03 - 21/07/2010 Soil
Date digested	-	23/07/2010	23/07/2010	23/07/2010	23/07/2010
Date analysed	-	23/07/2010	23/07/2010	23/07/2010	23/07/2010
Arsenic	mg/kg	<4	7	<4	9
Cadmium	mg/kg	<0.5	<0.5	<0.5	<0.5
Chromium	mg/kg	5	11	8	14
Copper	mg/kg	1	32	8	91
Lead	mg/kg	12	19	14	23
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	1	17	3	4
Zinc	mg/kg	8	75	75	24

Moisture						
Our Reference:	UNITS	43819-1	43819-5	43819-6	43819-9	43819-13
Your Reference	-----	BH01	BH02	BH02	BH03	BH04
Depth	-----	0.0-0.1	0.0-0.1	0.3-0.4	0.0-0.1	0.0-0.1
Date Sampled		20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010	23/7/2010
Date analysed	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010	23/7/2010
Moisture	%	19	7.1	11	26	42

Moisture						
Our Reference:	UNITS	43819-16	43819-20	43819-24	43819-28	43819-32
Your Reference	-----	BH05	BH06	BH07	BH08	BH09
Depth	-----	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1
Date Sampled		20/07/2010	21/07/2010	21/07/2010	21/07/2010	21/07/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010	23/7/2010
Date analysed	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010	23/7/2010
Moisture	%	32	18	15	27	20

Moisture						
Our Reference:	UNITS	43819-34	43819-37	43819-39	43819-42	43819-45
Your Reference	-----	BH09	BH10	BH11	BH12	BH13
Depth	-----	0.5-0.6	0.3-0.4	0.0-0.1	0.3-0.4	0.0-0.1
Date Sampled		21/07/2010	21/07/2010	21/07/2010	21/07/2010	21/07/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010	23/7/2010
Date analysed	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010	23/7/2010
Moisture	%	15	9.6	27	16	19

Moisture					
Our Reference:	UNITS	43819-48	43819-51	43819-52	43819-54
Your Reference	-----	BH14	BH15	QC01	QC03
Depth	-----	0.0-0.1	0.0-0.1	-	-
Date Sampled		21/07/2010	21/07/2010	20/07/2010	21/07/2010
Type of sample		Soil	Soil	Soil	Soil
Date prepared	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010
Date analysed	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010
Moisture	%	7.6	11	14	25

Asbestos ID - soils						
Our Reference:	UNITS	43819-1	43819-5	43819-6	43819-9	43819-13
Your Reference	-----	BH01	BH02	BH02	BH03	BH04
Depth	-----	0.0-0.1	0.0-0.1	0.3-0.4	0.0-0.1	0.0-0.1
Date Sampled		20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010	23/7/2010
Sample Description	-	Approx 40g Soil	Approx 40g Soil	Approx 40g Soil	Approx 40g Soil	Approx 40g Soil
Asbestos ID 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 limit 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:	UNITS	43819-20	43819-24	43819-28	43819-32	43819-34
Your Reference	-----	BH06	BH07	BH08	BH09	BH09
Depth	-----	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1	0.5-0.1
Date Sampled		21/07/2010	21/07/2010	21/07/2010	21/07/2010	21/07/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010	23/7/2010
Sample Description	-	Approx 40g Soil	Approx 40g Soil	Approx 40g Soil	Approx 40g Soil	Approx 40g Soil
Asbestos ID 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 limit 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:	UNITS	43819-36	43819-39	43819-42	43819-45	43819-48
Your Reference	-----	BH10	BH11	BH12	BH13	BH14
Depth	-----	0.0-0.1	0.0-0.1	0.3-0.4	0.0-0.1	0.0-0.1
Date Sampled		21/07/2010	21/07/2010	21/07/2010	21/07/2010	21/07/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010	23/7/2010
Sample Description	-	Approx 40g Soil	Approx 40g Soil	Approx 40g Soil	Approx 40g Soil	Approx 40g Soil
Asbestos ID 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 limit 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:	UNITS	43819-51	43819-52	43819-54
Your Reference	-----	BH15	QC01	QC03
Depth	-----	0.0-0.1	-	-
Date Sampled		21/07/2010	20/07/2010	21/07/2010
Type of sample		Soil	Soil	Soil
Date analysed	-	23/7/2010	23/7/2010	23/7/2010
Sample Description	-	Approx 40g Soil	Approx 40g Soil	Approx 40g Soil
Asbestos ID 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
Trace Analysis	-	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected

VOCs in soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	43819-1 BH01 0.0-0.1 20/07/2010 Soil	43819-5 BH02 0.0-0.1 20/07/2010 Soil	43819-9 BH03 0.0-0.1 20/07/2010 Soil	43819-13 BH04 0.0-0.1 20/07/2010 Soil	43819-20 BH06 0.0-0.1 21/07/2010 Soil
Date extracted	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010	23/7/2010
Date analysed	-	24/7/2010	24/7/2010	24/7/2010	24/7/2010	24/7/2010
Dichlorodifluoromethane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl Chloride	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-dichloroethene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-dichloroethane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-dichloroethene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
bromochloromethane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
chloroform	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-dichloropropane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-dichloroethane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-trichloroethane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-dichloropropene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Cyclohexane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
carbon tetrachloride	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Benzene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
dibromomethane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-dichloropropane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
trichloroethene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
bromodichloromethane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-dichloropropene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-dichloropropene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-trichloroethane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
1,3-dichloropropane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
dibromochloromethane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-dibromoethane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
tetrachloroethene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1,2-tetrachloroethane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
chlorobenzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
bromoform	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
styrene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-tetrachloroethane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0

VOCs in soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	43819-1 BH01 0.0-0.1 20/07/2010 Soil	43819-5 BH02 0.0-0.1 20/07/2010 Soil	43819-9 BH03 0.0-0.1 20/07/2010 Soil	43819-13 BH04 0.0-0.1 20/07/2010 Soil	43819-20 BH06 0.0-0.1 21/07/2010 Soil
o-Xylene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-trichloropropane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
isopropylbenzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
bromobenzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
n-propyl benzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
2-chlorotoluene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
4-chlorotoluene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-trimethyl benzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
tert-butyl benzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-trimethyl benzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-dichlorobenzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
sec-butyl benzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-dichlorobenzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
4-isopropyl toluene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-dichlorobenzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
n-butyl benzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-dibromo-3-chloropropane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-trichlorobenzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
hexachlorobutadiene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-trichlorobenzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Surrogate Dibromofluorometha	%	93	85	84	92	92
Surrogate aaa-Trifluorotoluene	%	89	95	103	86	95
Surrogate Toluene-d8	%	93	98	106	103	114
Surrogate 4-Bromofluorobenzene	%	93	94	95	93	94

VOCs in soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	43819-24 BH07 0.0-0.1 21/07/2010 Soil	43819-28 BH08 0.0-0.1 21/07/2010 Soil	43819-32 BH09 0.0-0.1 21/07/2010 Soil	43819-52 QC01 - 20/07/2010 Soil
Date extracted	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010
Date analysed	-	24/7/2010	24/7/2010	24/7/2010	24/7/2010
Dichlorodifluoromethane	mg/kg	<1.0	<1.0	<1.0	<1.0
Chloromethane	mg/kg	<1.0	<1.0	<1.0	<1.0
Vinyl Chloride	mg/kg	<1.0	<1.0	<1.0	<1.0
Bromomethane	mg/kg	<1.0	<1.0	<1.0	<1.0
Chloroethane	mg/kg	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	mg/kg	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	mg/kg	<1.0	<1.0	<1.0	<1.0
trans-1,2-dichloroethene	mg/kg	<1.0	<1.0	<1.0	<1.0
1,1-dichloroethane	mg/kg	<1.0	<1.0	<1.0	<1.0
cis-1,2-dichloroethene	mg/kg	<1.0	<1.0	<1.0	<1.0
bromochloromethane	mg/kg	<1.0	<1.0	<1.0	<1.0
chloroform	mg/kg	<1.0	<1.0	<1.0	<1.0
2,2-dichloropropane	mg/kg	<1.0	<1.0	<1.0	<1.0
1,2-dichloroethane	mg/kg	<1.0	<1.0	<1.0	<1.0
1,1,1-trichloroethane	mg/kg	<1.0	<1.0	<1.0	<1.0
1,1-dichloropropene	mg/kg	<1.0	<1.0	<1.0	<1.0
Cyclohexane	mg/kg	<1.0	<1.0	<1.0	<1.0
carbon tetrachloride	mg/kg	<1.0	<1.0	<1.0	<1.0
Benzene	mg/kg	<0.5	<0.5	<0.5	<0.5
dibromomethane	mg/kg	<1.0	<1.0	<1.0	<1.0
1,2-dichloropropane	mg/kg	<1.0	<1.0	<1.0	<1.0
trichloroethene	mg/kg	<1.0	<1.0	<1.0	<1.0
bromodichloromethane	mg/kg	<1.0	<1.0	<1.0	<1.0
trans-1,3-dichloropropene	mg/kg	<1.0	<1.0	<1.0	<1.0
cis-1,3-dichloropropene	mg/kg	<1.0	<1.0	<1.0	<1.0
1,1,2-trichloroethane	mg/kg	<1.0	<1.0	<1.0	<1.0
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5
1,3-dichloropropane	mg/kg	<1.0	<1.0	<1.0	<1.0
dibromochloromethane	mg/kg	<1.0	<1.0	<1.0	<1.0
1,2-dibromoethane	mg/kg	<1.0	<1.0	<1.0	<1.0
tetrachloroethene	mg/kg	<1.0	<1.0	<1.0	<1.0
1,1,1,2-tetrachloroethane	mg/kg	<1.0	<1.0	<1.0	<1.0
chlorobenzene	mg/kg	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	mg/kg	<1.0	<1.0	<1.0	<1.0
bromoform	mg/kg	<1.0	<1.0	<1.0	<1.0
m+p-xylene	mg/kg	<2.0	<2.0	<2.0	<2.0
styrene	mg/kg	<1.0	<1.0	<1.0	<1.0
1,1,2,2-tetrachloroethane	mg/kg	<1.0	<1.0	<1.0	<1.0

VOCs in soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	43819-24 BH07 0.0-0.1 21/07/2010 Soil	43819-28 BH08 0.0-0.1 21/07/2010 Soil	43819-32 BH09 0.0-0.1 21/07/2010 Soil	43819-52 QC01 - 20/07/2010 Soil
o-Xylene	mg/kg	<1.0	<1.0	<1.0	<1.0
1,2,3-trichloropropane	mg/kg	<1.0	<1.0	<1.0	<1.0
isopropylbenzene	mg/kg	<1.0	<1.0	<1.0	<1.0
bromobenzene	mg/kg	<1.0	<1.0	<1.0	<1.0
n-propyl benzene	mg/kg	<1.0	<1.0	<1.0	<1.0
2-chlorotoluene	mg/kg	<1.0	<1.0	<1.0	<1.0
4-chlorotoluene	mg/kg	<1.0	<1.0	<1.0	<1.0
1,3,5-trimethyl benzene	mg/kg	<1.0	<1.0	<1.0	<1.0
tert-butyl benzene	mg/kg	<1.0	<1.0	<1.0	<1.0
1,2,4-trimethyl benzene	mg/kg	<1.0	<1.0	<1.0	<1.0
1,3-dichlorobenzene	mg/kg	<1.0	<1.0	<1.0	<1.0
sec-butyl benzene	mg/kg	<1.0	<1.0	<1.0	<1.0
1,4-dichlorobenzene	mg/kg	<1.0	<1.0	<1.0	<1.0
4-isopropyl toluene	mg/kg	<1.0	<1.0	<1.0	<1.0
1,2-dichlorobenzene	mg/kg	<1.0	<1.0	<1.0	<1.0
n-butyl benzene	mg/kg	<1.0	<1.0	<1.0	<1.0
1,2-dibromo-3-chloropropane	mg/kg	<1.0	<1.0	<1.0	<1.0
1,2,4-trichlorobenzene	mg/kg	<1.0	<1.0	<1.0	<1.0
hexachlorobutadiene	mg/kg	<1.0	<1.0	<1.0	<1.0
1,2,3-trichlorobenzene	mg/kg	<1.0	<1.0	<1.0	<1.0
Surrogate Dibromofluorometha	%	86	90	87	88
Surrogate aaa-Trifluorotoluene	%	97	88	95	94
Surrogate Toluene-d8	%	96	94	95	94
Surrogate 4-Bromofluorobenzene	%	95	94	93	91

SVOCs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	43819-1 BH01 0.0-0.1 20/07/2010 Soil	43819-5 BH02 0.0-0.1 20/07/2010 Soil	43819-9 BH03 0.0-0.1 20/07/2010 Soil	43819-13 BH04 0.0-0.1 20/07/2010 Soil	43819-20 BH06 0.0-0.1 21/07/2010 Soil
Date extracted	-	23/07/2010	23/07/2010	23/07/2010	23/07/2010	23/07/2010
Date analysed	-	24/07/2010	24/07/2010	24/07/2010	24/07/2010	24/07/2010
Phenol	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Bis-(2-chloroethyl) ether	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
2-Chlorophenol	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
2-Methylphenol	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Bis (2-chloroisopropyl) ether	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
3/4-Methylphenol	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0
N-nitrosodi-n-propylamine	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Hexachloroethane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Nitrobenzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Isophorone	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
2,4-Dimethylphenol	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
2-Nitrophenol	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Bis(2-chloroethoxy)methane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
2,4-Dichlorophenol	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
4-Chloroaniline	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Hexachlorobutadiene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
2-Methylnaphthalene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Hexachlorocyclopentadiene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
2,4,6-trichlorophenol	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
2,4,5-trichlorophenol	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
2-Chloronaphthalene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
2-nitroaniline	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Dimethylphthalate	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
2,6-Dinitrotoluene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Acenaphthylene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
3-Nitroaniline	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Acenaphthene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
2,4-dinitrophenol	mg/kg	<10	<10	<10	<10	<10
4-nitrophenol	mg/kg	<10	<10	<10	<10	<10
Dibenzofuran	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
diethylphthalate	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
4-chlorophenylphenylether	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
4-nitroaniline	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0

SVOCs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	43819-1 BH01 0.0-0.1 20/07/2010 Soil	43819-5 BH02 0.0-0.1 20/07/2010 Soil	43819-9 BH03 0.0-0.1 20/07/2010 Soil	43819-13 BH04 0.0-0.1 20/07/2010 Soil	43819-20 BH06 0.0-0.1 21/07/2010 Soil
Fluorene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
2-methyl-4,6-dinitrophenol	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
azobenzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
4-bromophenylphenylether	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
hexachlorobenzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
pentachlorophenol	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Phenanthrene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Anthracene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
carbazole	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
di-n-butylphthalate	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Fluoranthene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Pyrene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
butylbenzylphthalate	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
bis(2-ethylhexyl)phthalate	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(a)anthracene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Chrysene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
di-n-octylphthalate	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(b)fluoranthene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(k)fluoranthene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(a)pyrene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Indeno(1,2,3-c,d)pyrene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Dibenzo(a,h)anthracene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(g,h,i)perylene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
ethylmethanesulfonate	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
aniline	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
pentachloroethane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
benzyl alcohol	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
acetophenone	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
N-nitrosomorpholine	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
3-methylphenol (m cresol)	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
N-nitrosopiperidine	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
2,6-dichlorophenol	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
hexachloropropene-1	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
N-nitroso-n-butylamine	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
safrole	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4,5-tetrachlorobenzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
cis and trans iso-safrole	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-dinitrobenzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
pentachlorobenzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
1-naphthylamine	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0

SVOCs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	43819-1 BH01 0.0-0.1 20/07/2010 Soil	43819-5 BH02 0.0-0.1 20/07/2010 Soil	43819-9 BH03 0.0-0.1 20/07/2010 Soil	43819-13 BH04 0.0-0.1 20/07/2010 Soil	43819-20 BH06 0.0-0.1 21/07/2010 Soil
2,3,4,6-tetrachlorophenol	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
2-naphthylamine	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
5-nitro-o-toluidine	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
diphenylamine	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
phenacetin	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
pentachloronitrobenzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
dinoseb	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
methapyrilene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
p-dimethylaminoazobenzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
2-acetylaminofluorene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
7,12-dimethylbenz(a)anthracene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
3-methylcholanthrene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
a-BHC	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
b-BHC	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
g-BHC	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
d-BHC	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Heptachlor	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Aldrin	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Heptachlor Epoxide	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
g-Chlordane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
a-Chlordane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Endosulfan I	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
p,p'-DDE	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Dieldrin	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Endrin	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
p,p'-DDD	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Endosulfan II	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
p,p'-DDT	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Endosulfan Sulphate	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Methoxychlor	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Surrogate 2-fluorophenol	%	69	57	81	83	70
Surrogate Phenol-d ₆	%	74	66	71	83	71
Surrogate Nitrobenzene-d ₅	%	67	50	69	80	62
Surrogate 2-fluorobiphenyl	%	55	52	70	67	51
Surrogate 2,4,6-Tribromophenol	%	110	64	138	110	72
Surrogate p-Terphenyl-d ₁₄	%	92	86	94	102	96

SVOCs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	43819-24 BH07 0.0-0.1 21/07/2010 Soil	43819-28 BH08 0.0-0.1 21/07/2010 Soil	43819-32 BH09 0.0-0.1 21/07/2010 Soil	43819-52 QC01 - 20/07/2010 Soil
Date extracted	-	23/07/2010	23/07/2010	23/07/2010	23/07/2010
Date analysed	-	24/07/2010	24/07/2010	24/07/2010	24/07/2010
Phenol	mg/kg	<1.0	<1.0	<1.0	<1.0
Bis-(2-chloroethyl) ether	mg/kg	<1.0	<1.0	<1.0	<1.0
2-Chlorophenol	mg/kg	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	mg/kg	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	mg/kg	<1.0	<1.0	<1.0	<1.0
2-Methylphenol	mg/kg	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	mg/kg	<1.0	<1.0	<1.0	<1.0
Bis (2-chloroisopropyl) ether	mg/kg	<1.0	<1.0	<1.0	<1.0
3/4-Methylphenol	mg/kg	<2.0	<2.0	<2.0	<2.0
N-nitrosodi-n-propylamine	mg/kg	<1.0	<1.0	<1.0	<1.0
Hexachloroethane	mg/kg	<1.0	<1.0	<1.0	<1.0
Nitrobenzene	mg/kg	<1.0	<1.0	<1.0	<1.0
Isophorone	mg/kg	<1.0	<1.0	<1.0	<1.0
2,4-Dimethylphenol	mg/kg	<1.0	<1.0	<1.0	<1.0
2-Nitrophenol	mg/kg	<1.0	<1.0	<1.0	<1.0
Bis(2-chloroethoxy) methane	mg/kg	<1.0	<1.0	<1.0	<1.0
2,4-Dichlorophenol	mg/kg	<1.0	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	mg/kg	<1.0	<1.0	<1.0	<1.0
Naphthalene	mg/kg	<1.0	<1.0	<1.0	<1.0
4-Chloroaniline	mg/kg	<1.0	<1.0	<1.0	<1.0
Hexachlorobutadiene	mg/kg	<1.0	<1.0	<1.0	<1.0
2-Methylnaphthalene	mg/kg	<1.0	<1.0	<1.0	<1.0
Hexachlorocyclopentadiene	mg/kg	<1.0	<1.0	<1.0	<1.0
2,4,6-trichlorophenol	mg/kg	<1.0	<1.0	<1.0	<1.0
2,4,5-trichlorophenol	mg/kg	<1.0	<1.0	<1.0	<1.0
2-Chloronaphthalene	mg/kg	<1.0	<1.0	<1.0	<1.0
2-nitroaniline	mg/kg	<1.0	<1.0	<1.0	<1.0
Dimethylphthalate	mg/kg	<1.0	<1.0	<1.0	<1.0
2,6-Dinitrotoluene	mg/kg	<1.0	<1.0	<1.0	<1.0
Acenaphthylene	mg/kg	<1.0	<1.0	<1.0	<1.0
3-Nitroaniline	mg/kg	<1.0	<1.0	<1.0	<1.0
Acenaphthene	mg/kg	<1.0	<1.0	<1.0	<1.0
2,4-dinitrophenol	mg/kg	<10	<10	<10	<10
4-nitrophenol	mg/kg	<10	<10	<10	<10
Dibenzofuran	mg/kg	<1.0	<1.0	<1.0	<1.0
diethylphthalate	mg/kg	<1.0	<1.0	<1.0	<1.0
4-chlorophenylphenylether	mg/kg	<1.0	<1.0	<1.0	<1.0
4-nitroaniline	mg/kg	<1.0	<1.0	<1.0	<1.0

SVOCs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	43819-24 BH07 0.0-0.1 21/07/2010 Soil	43819-28 BH08 0.0-0.1 21/07/2010 Soil	43819-32 BH09 0.0-0.1 21/07/2010 Soil	43819-52 QC01 - 20/07/2010 Soil
Fluorene	mg/kg	<1.0	<1.0	<1.0	<1.0
2-methyl-4,6-dinitrophenol	mg/kg	<10	<10	<10	<10
azobenzene	mg/kg	<1.0	<1.0	<1.0	<1.0
4-bromophenylphenylether	mg/kg	<1.0	<1.0	<1.0	<1.0
hexachlorobenzene	mg/kg	<1.0	<1.0	<1.0	<1.0
pentachlorophenol	mg/kg	<10	<10	<10	<10
Phenanthrene	mg/kg	<1.0	<1.0	<1.0	<1.0
Anthracene	mg/kg	<1.0	<1.0	<1.0	<1.0
carbazole	mg/kg	<1.0	<1.0	<1.0	<1.0
di-n-butylphthalate	mg/kg	<1.0	<1.0	<1.0	<1.0
Fluoranthene	mg/kg	<1.0	<1.0	<1.0	<1.0
Pyrene	mg/kg	<1.0	<1.0	<1.0	<1.0
butylbenzylphthalate	mg/kg	<1.0	<1.0	<1.0	<1.0
bis(2-ethylhexyl)phthalate	mg/kg	<1.0	<1.0	<1.0	<1.0
Benzo(a)anthracene	mg/kg	<1.0	<1.0	<1.0	<1.0
Chrysene	mg/kg	<1.0	<1.0	<1.0	<1.0
di-n-octylphthalate	mg/kg	<1.0	<1.0	<1.0	<1.0
Benzo(b)fluoranthene	mg/kg	<1.0	<1.0	<1.0	<1.0
Benzo(k)fluoranthene	mg/kg	<1.0	<1.0	<1.0	<1.0
Benzo(a)pyrene	mg/kg	<1.0	<1.0	<1.0	<1.0
Indeno(1,2,3-c,d)pyrene	mg/kg	<1.0	<1.0	<1.0	<1.0
Dibenzo(a,h)anthracene	mg/kg	<1.0	<1.0	<1.0	<1.0
Benzo(g,h,i)perylene	mg/kg	<1.0	<1.0	<1.0	<1.0
ethylmethanesulfonate	mg/kg	<1.0	<1.0	<1.0	<1.0
aniline	mg/kg	<1.0	<1.0	<1.0	<1.0
pentachloroethane	mg/kg	<1.0	<1.0	<1.0	<1.0
benzyl alcohol	mg/kg	<1.0	<1.0	<1.0	<1.0
acetophenone	mg/kg	<1.0	<1.0	<1.0	<1.0
N-nitrosomorpholine	mg/kg	<1.0	<1.0	<1.0	<1.0
3-methylphenol (m cresol)	mg/kg	<1.0	<1.0	<1.0	<1.0
N-nitrosopiperidine	mg/kg	<1.0	<1.0	<1.0	<1.0
2,6-dichlorophenol	mg/kg	<1.0	<1.0	<1.0	<1.0
hexachloropropene-1	mg/kg	<1.0	<1.0	<1.0	<1.0
N-nitroso-n-butylamine	mg/kg	<1.0	<1.0	<1.0	<1.0
safrole	mg/kg	<1.0	<1.0	<1.0	<1.0
1,2,4,5-tetrachlorobenzene	mg/kg	<1.0	<1.0	<1.0	<1.0
cis and trans iso-safrole	mg/kg	<1.0	<1.0	<1.0	<1.0
1,3-dinitrobenzene	mg/kg	<1.0	<1.0	<1.0	<1.0
pentachlorobenzene	mg/kg	<1.0	<1.0	<1.0	<1.0
1-naphthylamine	mg/kg	<1.0	<1.0	<1.0	<1.0

SVOCs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	43819-24 BH07 0.0-0.1 21/07/2010 Soil	43819-28 BH08 0.0-0.1 21/07/2010 Soil	43819-32 BH09 0.0-0.1 21/07/2010 Soil	43819-52 QC01 - 20/07/2010 Soil
2,3,4,6-tetrachlorophenol	mg/kg	<1.0	<1.0	<1.0	<1.0
2-naphthylamine	mg/kg	<1.0	<1.0	<1.0	<1.0
5-nitro-o-toluidine	mg/kg	<1.0	<1.0	<1.0	<1.0
diphenylamine	mg/kg	<1.0	<1.0	<1.0	<1.0
phenacetin	mg/kg	<1.0	<1.0	<1.0	<1.0
pentachloronitrobenzene	mg/kg	<1.0	<1.0	<1.0	<1.0
dinoseb	mg/kg	<1.0	<1.0	<1.0	<1.0
methapyrilene	mg/kg	<1.0	<1.0	<1.0	<1.0
p-dimethylaminoazobenzene	mg/kg	<1.0	<1.0	<1.0	<1.0
2-acetylaminofluorene	mg/kg	<1.0	<1.0	<1.0	<1.0
7,12-dimethylbenz(a)anthracene	mg/kg	<1.0	<1.0	<1.0	<1.0
3-methylcholanthrene	mg/kg	<1.0	<1.0	<1.0	<1.0
a-BHC	mg/kg	<1.0	<1.0	<1.0	<1.0
b-BHC	mg/kg	<1.0	<1.0	<1.0	<1.0
g-BHC	mg/kg	<1.0	<1.0	<1.0	<1.0
d-BHC	mg/kg	<1.0	<1.0	<1.0	<1.0
Heptachlor	mg/kg	<1.0	<1.0	<1.0	<1.0
Aldrin	mg/kg	<1.0	<1.0	<1.0	<1.0
Heptachlor Epoxide	mg/kg	<1.0	<1.0	<1.0	<1.0
g-Chlordane	mg/kg	<1.0	<1.0	<1.0	<1.0
a-Chlordane	mg/kg	<1.0	<1.0	<1.0	<1.0
Endosulfan I	mg/kg	<1.0	<1.0	<1.0	<1.0
p,p'-DDE	mg/kg	<1.0	<1.0	<1.0	<1.0
Dieldrin	mg/kg	<1.0	<1.0	<1.0	<1.0
Endrin	mg/kg	<1.0	<1.0	<1.0	<1.0
p,p'-DDD	mg/kg	<1.0	<1.0	<1.0	<1.0
Endosulfan II	mg/kg	<1.0	<1.0	<1.0	<1.0
p,p'-DDT	mg/kg	<1.0	<1.0	<1.0	<1.0
Endosulfan Sulphate	mg/kg	<1.0	<1.0	<1.0	<1.0
Methoxychlor	mg/kg	<1.0	<1.0	<1.0	<1.0
Surrogate 2-fluorophenol	%	59	81	70	80
Surrogate Phenol-d6	%	57	78	68	72
Surrogate Nitrobenzene-d5	%	54	71	55	74
Surrogate 2-fluorobiphenyl	%	68	63	62	70
Surrogate 2,4,6-Tribromophenol	%	83	113	121	69
Surrogate p-Terphenyl-d14	%	92	100	94	106

Metals in TCLP USEPA1311				
Our Reference:	UNITS	43819-5	43819-20	43819-28
Your Reference	-----	BH02	BH06	BH08
Depth	-----	0.0-0.1	0.0-0.1	0.0-0.1
Date Sampled		20/07/2010	21/07/2010	21/07/2010
Type of sample		Soil	Soil	Soil
Date extracted	-	23/07/2010	23/07/2010	23/07/2010
Date analysed	-	28/07/2010	28/07/2010	28/07/2010
pH of soil for fluid# determ.	pH units	8.70	8.40	8.30
pH of soil for fluid # determ. (acid)	pH units	1.40	1.50	1.50
Extraction fluid used	-	1	1	1
pH of final Leachate	pH units	4.90	4.90	4.90
Arsenic in TCLP	mg/L	<0.05	<0.05	<0.05
Cadmium in TCLP	mg/L	<0.01	<0.01	<0.01
Chromium in TCLP	mg/L	<0.01	<0.01	<0.01
Copper in TCLP	mg/L	0.02	0.04	0.02
Lead in TCLP	mg/L	<0.03	<0.03	<0.03
Mercury in TCLP	mg/L	<0.0005	<0.0005	<0.0005
Nickel in TCLP	mg/L	<0.02	<0.02	<0.02
Zinc in TCLP	mg/L	0.3	0.2	0.2

Metals-ASLP Neutral (ICP-MS)				
Our Reference:	UNITS	43819-5	43819-20	43819-28
Your Reference	-----	BH02	BH06	BH08
Depth	-----	0.0-0.1	0.0-0.1	0.0-0.1
Date Sampled		20/07/2010	21/07/2010	21/07/2010
Type of sample		Soil	Soil	Soil
Date extracted	-	28/07/2010	28/07/2010	28/07/2010
Date analysed	-	28/07/2010	28/07/2010	28/07/2010
pH of final Leachate	pH units	5.20	5.60	5.50
Arsenic in ASLP	µg/L	<1	2	<1
Cadmium in ASLP	µg/L	0.3	0.2	0.2
Chromium in ASLP	µg/L	<1	2	2
Copper in ASLP	µg/L	12	18	8
Lead in ASLP	µg/L	4	5	3
Mercury in ASLP	µg/L	<0.50	<0.50	<0.50
Nickel in ASLP	µg/L	8	1	2
Zinc in ASLP	µg/L	290	230	190

PAHs in TCLP (USEPA 1311)	UNITS	43819-5	43819-20	43819-28
Our Reference:	-----	BH02	BH06	BH08
Your Reference	-----	0.0-0.1	0.0-0.1	0.0-0.1
Depth		20/07/2010	21/07/2010	21/07/2010
Date Sampled		Soil	Soil	Soil
Type of sample				
Date extracted	-	23/07/2010	23/07/2010	23/07/2010
Date analysed	-	23/07/2010	23/07/2010	23/07/2010
Napthalene in TCLP	mg/L	<0.001	<0.001	<0.001
Acenaphthylene in TCLP	mg/L	<0.001	<0.001	<0.001
Acenaphthene in TCLP	mg/L	<0.001	<0.001	<0.001
Fluorene in TCLP	mg/L	<0.001	<0.001	<0.001
Phenanthrene in TCLP	mg/L	<0.001	<0.001	<0.001
Anthracene in TCLP	mg/L	<0.001	<0.001	<0.001
Fluoranthene in TCLP	mg/L	<0.001	<0.001	<0.001
Pyrene in TCLP	mg/L	<0.001	<0.001	<0.001
Benzo(a)anthracene in TCLP	mg/L	<0.001	<0.001	<0.001
Chrysene in TCLP	mg/L	<0.001	<0.001	<0.001
Benzo(b+k)fluoranthene in TCLP	mg/L	<0.002	<0.002	<0.002
Benzo(a)pyrene in TCLP	mg/L	<0.001	<0.001	<0.001
Indeno(1,2,3-c,d)pyrene - TCLP	mg/L	<0.001	<0.001	<0.001
Dibenzo(a,h)anthracene in TCLP	mg/L	<0.001	<0.001	<0.001
Benzo(g,h,i)perylene in TCLP	mg/L	<0.001	<0.001	<0.001
Surrogate p-Terphenyl-d14	%	132	127	138

PAHs in water leach Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	43819-5 BH02 0.0-0.1 20/07/2010 Soil	43819-20 BH06 0.0-0.1 21/07/2010 Soil	43819-28 BH08 0.0-0.1 21/07/2010 Soil
Date extracted	-	23/7/2010	23/7/2010	23/7/2010
Date analysed	-	23/7/2010	23/7/2010	23/7/2010
Naphthalene in ASLP	mg/L	<0.001	<0.001	<0.001
Acenaphthylene in ASLP	mg/L	<0.001	<0.001	<0.001
Acenaphthene in ASLP	mg/L	<0.001	<0.001	<0.001
Fluorene in ASLP	mg/L	<0.001	<0.001	<0.001
Phenanthrene in ASLP	mg/L	<0.001	<0.001	<0.001
Anthracene in ASLP	mg/L	<0.001	<0.001	<0.001
Fluoranthene in ASLP	mg/L	<0.001	<0.001	<0.001
Pyrene in ASLP	mg/L	<0.001	<0.001	<0.001
Benzo(a)anthracene in ASLP	mg/L	<0.001	<0.001	<0.001
Chrysene in ASLP	mg/L	<0.001	<0.001	<0.001
Benzo(b+k)fluoranthene in ASLP	mg/L	<0.002	<0.002	<0.002
Benzo(a)pyrene in ASLP	mg/L	<0.001	<0.001	<0.001
Indeno(1,2,3-c,d)pyrene - ASLP	mg/L	<0.001	<0.001	<0.001
Dibenzo(a,h)anthracene in ASLP	mg/L	<0.001	<0.001	<0.001
Benzo(g,h,i)perylene in ASLP	mg/L	<0.001	<0.001	<0.001
Surrogate p-Terphenyl-d14	%	115	110	104

vTPH & BTEX in Water			
Our Reference:	UNITS	43819-57	43819-58
Your Reference	-----	Trip Spike 01	Trip Blank 01
Depth	-----	-	-
Date Sampled		20/07/2010	20/07/2010
Type of sample		Water	Water
Date extracted	-	24/7/2010	24/7/2010
Date analysed	-	24/7/2010	24/7/2010
TPH C6 - C9	µg/L	[NA]	<10
Benzene	µg/L	79%	<1.0
Toluene	µg/L	99%	<1.0
Ethylbenzene	µg/L	89%	<1.0
m+p-xylene	µg/L	79%	<2.0
o-xylene	µg/L	80%	<1.0
Surrogate Dibromofluoromethane	%	97	106
Surrogate toluene-d8	%	111	96
Surrogate 4-BFB	%	98	91

Metals in Water - Dissolved		
Our Reference:	UNITS	43819-59
Your Reference	-----	Rinsate 01
Depth	-----	-
Date Sampled		20/07/2010
Type of sample		Water
Date digested	-	27/07/2010
Date analysed	-	27/07/2010
Arsenic - Dissolved	mg/L	<0.05
Cadmium - Dissolved	mg/L	<0.01
Chromium - Dissolved	mg/L	<0.01
Copper - Dissolved	mg/L	<0.01
Lead - Dissolved	mg/L	<0.03
Mercury - Dissolved	mg/L	<0.0005
Nickel - Dissolved	mg/L	<0.02
Zinc - Dissolved	mg/L	<0.02

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-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 105 deg C for a minimum of 4 hours.
AS4964-2004	Asbestos ID - Qualitative identification of asbestos type fibres in bulk samples using Polarised Light Microscopy and Dispersion Staining Techniques.
GC.14	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
GC.12	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS.
LAB.4	Toxicity Characteristic Leaching Procedure (TCLP).
EXTRACT.7	Toxicity Characteristic Leaching Procedure (TCLP).
LAB.1	pH - Measured using pH meter and electrode in accordance with APHA 20th ED, 4500-H+.
Metals.20 ICP-AES	Determination of various metals by ICP-AES.
Metals.21 CV-AAS	Determination of Mercury by Cold Vapour AAS.
Metals.22 ICP-MS	Determination of various metals by ICP-MS following leaching using neutralised deionised water by AS 4439.3 - 1997.
Metals.21 ASLP	Determination of Mercury by Cold Vapour AAS following neutral water leaching by AS 4439.3 - 1997.
GC.12 subset	Leachates are extracted with Dichloromethane and analysed by GC-MS.
GC.12 ASLP	ASLP Leachates are extracted with Dichloromethane and analysed by GC-MS.

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
vTPH & BTEX in Soil						Base II Duplicate II %RPD		
Date extracted	-			23/7/2010	43819-1	23/7/2010 23/7/2010	LCS-6	23/7/2010
Date analysed	-			24/7/2010	43819-1	24/7/2010 24/7/2010	LCS-6	24/7/2010
vTPH C ₆ - C ₉	mg/kg	25	GC.16	<25	43819-1	<25 <25	LCS-6	96%
Benzene	mg/kg	0.5	GC.16	<0.5	43819-1	<0.5 <0.5	LCS-6	97%
Toluene	mg/kg	0.5	GC.16	<0.5	43819-1	<0.5 <0.5	LCS-6	102%
Ethylbenzene	mg/kg	1	GC.16	<1.0	43819-1	<1.0 <1.0	LCS-6	100%
m+p-xylene	mg/kg	2	GC.16	<2.0	43819-1	<2.0 <2.0	LCS-6	91%
o-Xylene	mg/kg	1	GC.16	<1.0	43819-1	<1.0 <1.0	LCS-6	93%
Surrogate aaa-Trifluorotoluene	%		GC.16	[NT]	43819-1	89 99 RPD: 11	LCS-6	117%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
sTPH in Soil (C10-C36)						Base II Duplicate II %RPD		
Date extracted	-			23/7/2010	43819-1	23/7/2010 23/7/2010	LCS-6	23/7/2010
Date analysed	-			23/7/2010	43819-1	23/7/2010 23/7/2010	LCS-6	23/7/2010
TPH C ₁₀ - C ₁₄	mg/kg	50	GC.3	<50	43819-1	<50 <50	LCS-6	87%
TPH C ₁₅ - C ₂₈	mg/kg	100	GC.3	<100	43819-1	<100 <100	LCS-6	82%
TPH C ₂₉ - C ₃₆	mg/kg	100	GC.3	<100	43819-1	<100 <100	LCS-6	83%
Surrogate o-Terphenyl	%		GC.3	116	43819-1	118 120 RPD: 2	LCS-6	108%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PAHs in Soil						Base II Duplicate II %RPD		
Date extracted	-			23/07/2010	43819-1	23/07/2010 23/07/2010	LCS-6	23/07/2010
Date analysed	-			23/07/2010	43819-1	23/07/2010 23/07/2010	LCS-6	23/07/2010
Naphthalene	mg/kg	0.1	GC.12 subset	<0.1	43819-1	<0.1 <0.1	LCS-6	96%
Acenaphthylene	mg/kg	0.1	GC.12 subset	<0.1	43819-1	<0.1 <0.1	[NR]	[NR]
Acenaphthene	mg/kg	0.1	GC.12 subset	<0.1	43819-1	<0.1 <0.1	[NR]	[NR]
Fluorene	mg/kg	0.1	GC.12 subset	<0.1	43819-1	<0.1 <0.1	LCS-6	97%
Phenanthrene	mg/kg	0.1	GC.12 subset	<0.1	43819-1	<0.1 <0.1	LCS-6	103%
Anthracene	mg/kg	0.1	GC.12 subset	<0.1	43819-1	<0.1 <0.1	[NR]	[NR]
Fluoranthene	mg/kg	0.1	GC.12 subset	<0.1	43819-1	<0.1 <0.1	LCS-6	93%
Pyrene	mg/kg	0.1	GC.12 subset	<0.1	43819-1	<0.1 <0.1	LCS-6	99%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PAHs in Soil						Base Duplicate %RPD		
Benzo(a)anthracene	mg/kg	0.1	GC.12 subset	<0.1	43819-1	<0.1 <0.1	[NR]	[NR]
Chrysene	mg/kg	0.1	GC.12 subset	<0.1	43819-1	<0.1 <0.1	LCS-6	113%
Benzo(b+k)fluoranthene	mg/kg	0.2	GC.12 subset	<0.2	43819-1	<0.2 <0.2	[NR]	[NR]
Benzo(a)pyrene	mg/kg	0.05	GC.12 subset	<0.05	43819-1	<0.05 <0.05	LCS-6	99%
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	GC.12 subset	<0.1	43819-1	<0.1 <0.1	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	0.1	GC.12 subset	<0.1	43819-1	<0.1 <0.1	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	0.1	GC.12 subset	<0.1	43819-1	<0.1 <0.1	[NR]	[NR]
Surrogate p-Terphenyl-d14	%		GC.12 subset	89	43819-1	85 88 RPD: 3	LCS-6	87%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Organochlorine Pesticides in soil						Base Duplicate %RPD		
Date extracted	-			23/07/2010	43819-1	23/07/2010 23/07/2010	LCS-6	23/07/2010
Date analysed	-			24/07/2010	43819-1	24/07/2010 24/07/2010	LCS-6	24/07/2010
HCB	mg/kg	0.1	GC-5	<0.1	43819-1	<0.1 <0.1	[NR]	[NR]
alpha-BHC	mg/kg	0.1	GC-5	<0.1	43819-1	<0.1 <0.1	LCS-6	75%
gamma-BHC	mg/kg	0.1	GC-5	<0.1	43819-1	<0.1 <0.1	[NR]	[NR]
beta-BHC	mg/kg	0.1	GC-5	<0.1	43819-1	<0.1 <0.1	LCS-6	99%
Heptachlor	mg/kg	0.1	GC-5	<0.1	43819-1	<0.1 <0.1	LCS-6	87%
delta-BHC	mg/kg	0.1	GC-5	<0.1	43819-1	<0.1 <0.1	[NR]	[NR]
Aldrin	mg/kg	0.1	GC-5	<0.1	43819-1	<0.1 <0.1	LCS-6	89%
Heptachlor Epoxide	mg/kg	0.1	GC-5	<0.1	43819-1	<0.1 <0.1	LCS-6	104%
gamma-Chlordane	mg/kg	0.1	GC-5	<0.1	43819-1	<0.1 <0.1	[NR]	[NR]
alpha-chlordane	mg/kg	0.1	GC-5	<0.1	43819-1	<0.1 <0.1	[NR]	[NR]
Endosulfan I	mg/kg	0.1	GC-5	<0.1	43819-1	<0.1 <0.1	[NR]	[NR]
pp-DDE	mg/kg	0.1	GC-5	<0.1	43819-1	<0.1 <0.1	LCS-6	113%
Dieldrin	mg/kg	0.1	GC-5	<0.1	43819-1	<0.1 <0.1	LCS-6	97%
Endrin	mg/kg	0.1	GC-5	<0.1	43819-1	<0.1 <0.1	LCS-6	99%
pp-DDD	mg/kg	0.1	GC-5	<0.1	43819-1	<0.1 <0.1	LCS-6	111%
Endosulfan II	mg/kg	0.1	GC-5	<0.1	43819-1	<0.1 <0.1	[NR]	[NR]
pp-DDT	mg/kg	0.1	GC-5	<0.1	43819-1	<0.1 <0.1	[NR]	[NR]
Endrin Aldehyde	mg/kg	0.1	GC-5	<0.1	43819-1	<0.1 <0.1	[NR]	[NR]
Endosulfan Sulphate	mg/kg	0.1	GC-5	<0.1	43819-1	<0.1 <0.1	LCS-6	96%
Methoxychlor	mg/kg	0.1	GC-5	<0.1	43819-1	<0.1 <0.1	[NR]	[NR]
Surrogate TCLMX	%		GC-5	74	43819-1	80 78 RPD: 3	LCS-6	78%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PCBs in Soil						Base II Duplicate II %RPD		
Date extracted	-			23/07/2010	43819-1	23/07/20100 23/07/20100	LCS-6	23/07/2010
Date analysed	-			24/07/2010	43819-1	24/07/20100 24/07/20100	LCS-6	24/07/2010
Arochlor 1016	mg/kg	0.1	GC-6	<0.1	43819-1	<0.1 <0.1	[NR]	[NR]
Arochlor 1221*	mg/kg	0.1	GC-6	<0.1	43819-1	<0.1 <0.1	[NR]	[NR]
Arochlor 1232	mg/kg	0.1	GC-6	<0.1	43819-1	<0.1 <0.1	[NR]	[NR]
Arochlor 1242	mg/kg	0.1	GC-6	<0.1	43819-1	<0.1 <0.1	[NR]	[NR]
Arochlor 1248	mg/kg	0.1	GC-6	<0.1	43819-1	<0.1 <0.1	[NR]	[NR]
Arochlor 1254	mg/kg	0.1	GC-6	<0.1	43819-1	<0.1 <0.1	LCS-6	119%
Arochlor 1260	mg/kg	0.1	GC-6	<0.1	43819-1	<0.1 <0.1	[NR]	[NR]
Surrogate TCLMX	%		GC-6	74	43819-1	80 78 RPD: 3	LCS-6	99%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Acid Extractable metals in soil						Base II Duplicate II %RPD		
Date digested	-			23/07/2010	43819-1	23/07/2010 23/07/2010	LCS-5	23/07/2010
Date analysed	-			23/07/2010	43819-1	23/07/2010 23/07/2010	LCS-5	23/07/2010
Arsenic	mg/kg	4	Metals.20 ICP-AES	<4	43819-1	<4 <4	LCS-5	95%
Cadmium	mg/kg	0.5	Metals.20 ICP-AES	<0.5	43819-1	<0.5 <0.5	LCS-5	94%
Chromium	mg/kg	1	Metals.20 ICP-AES	<1	43819-1	7 6 RPD: 15	LCS-5	99%
Copper	mg/kg	1	Metals.20 ICP-AES	<1	43819-1	7 7 RPD: 0	LCS-5	97%
Lead	mg/kg	1	Metals.20 ICP-AES	<1	43819-1	14 11 RPD: 24	LCS-5	95%
Mercury	mg/kg	0.1	Metals.21 CV-AAS	<0.1	43819-1	<0.1 <0.1	LCS-5	103%
Nickel	mg/kg	1	Metals.20 ICP-AES	<1	43819-1	3 2 RPD: 40	LCS-5	98%
Zinc	mg/kg	1	Metals.20 ICP-AES	<1	43819-1	71 64 RPD: 10	LCS-5	98%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank
Moisture				
Date prepared	-			23/7/2010
Date analysed	-			23/7/2010
Moisture	%	0.1	LAB.8	<0.10

QUALITY CONTROL	UNITS	PQL	METHOD	Blank
Asbestos ID - soils				
Date analysed	-			[NT]

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
VOCs in soil						Base Duplicate %RPD		
Date extracted	-			23/7/2010	43819-1	23/7/2010 23/7/2010	LCS-6	23/7/2010
Date analysed	-			24/7/2010	43819-1	24/7/2010 24/7/2010	LCS-6	24/7/2010
Dichlorodifluoromethane	mg/kg	1	GC.14	<1.0	43819-1	<1.0 <1.0	[NR]	]
Chloromethane	mg/kg	1	GC.14	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
Vinyl Chloride	mg/kg	1	GC.14	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
Bromomethane	mg/kg	1	GC.14	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
Chloroethane	mg/kg	1	GC.14	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
Trichlorofluoromethane	mg/kg	1	GC.14	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
1,1-Dichloroethene	mg/kg	1	GC.14	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
trans-1,2-dichloroethene	mg/kg	1	GC.14	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
1,1-dichloroethane	mg/kg	1	GC.14	<1.0	43819-1	<1.0 <1.0	LCS-6	89%
cis-1,2-dichloroethene	mg/kg	1	GC.14	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
bromochloromethane	mg/kg	1	GC.14	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
chloroform	mg/kg	1	GC.14	<1.0	43819-1	<1.0 <1.0	LCS-6	96%
2,2-dichloropropane	mg/kg	1	GC.14	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
1,2-dichloroethane	mg/kg	1	GC.14	<1.0	43819-1	<1.0 <1.0	LCS-6	96%
1,1,1-trichloroethane	mg/kg	1	GC.14	<1.0	43819-1	<1.0 <1.0	LCS-6	87%
1,1-dichloropropene	mg/kg	1	GC.14	<1.0	43819-1	<1.0 <1.0	[NR]	]
Cyclohexane	mg/kg	1	GC.14	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
carbon tetrachloride	mg/kg	1	GC.14	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
Benzene	mg/kg	0.5	GC.14	<0.5	43819-1	<0.5 <0.5	[NR]	[NR]
dibromomethane	mg/kg	1	GC.14	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
1,2-dichloropropane	mg/kg	1	GC.14	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
trichloroethene	mg/kg	1	GC.14	<1.0	43819-1	<1.0 <1.0	LCS-6	86%
bromodichloromethane	mg/kg	1	GC.14	<1.0	43819-1	<1.0 <1.0	LCS-6	97%
trans-1,3-dichloropropene	mg/kg	1	GC.14	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
cis-1,3-dichloropropene	mg/kg	1	GC.14	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
1,1,2-trichloroethane	mg/kg	1	GC.14	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
Toluene	mg/kg	0.5	GC.14	<0.5	43819-1	<0.5 <0.5	[NR]	[NR]
1,3-dichloropropane	mg/kg	1	GC.14	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
VOCs in soil						Base Duplicate %RPD		
dibromochloromethane	mg/kg	1	GC.14	<1.0	43819-1	<1.0 <1.0	LCS-6	87%
1,2-dibromoethane	mg/kg	1	GC.14	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
tetrachloroethene	mg/kg	1	GC.14	<1.0	43819-1	<1.0 <1.0	LCS-6	91%
1,1,1,2-tetrachloroethane	mg/kg	1	GC.14	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
chlorobenzene	mg/kg	1	GC.14	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
Ethylbenzene	mg/kg	1	GC.14	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
bromoform	mg/kg	1	GC.14	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
m+p-xylene	mg/kg	2	GC.14	<2.0	43819-1	<2.0 <2.0	[NR]	[NR]
styrene	mg/kg	1	GC.14	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
1,1,2,2-tetrachloroethane	mg/kg	1	GC.14	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
o-Xylene	mg/kg	1	GC.14	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
1,2,3-trichloropropane	mg/kg	1	GC.14	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
isopropylbenzene	mg/kg	1	GC.14	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
bromobenzene	mg/kg	1	GC.14	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
n-propyl benzene	mg/kg	1	GC.14	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
2-chlorotoluene	mg/kg	1	GC.14	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
4-chlorotoluene	mg/kg	1	GC.14	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
1,3,5-trimethyl benzene	mg/kg	1	GC.14	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
tert-butyl benzene	mg/kg	1	GC.14	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
1,2,4-trimethyl benzene	mg/kg	1	GC.14	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
1,3-dichlorobenzene	mg/kg	1	GC.14	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
sec-butyl benzene	mg/kg	1	GC.14	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
1,4-dichlorobenzene	mg/kg	1	GC.14	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
4-isopropyl toluene	mg/kg	1	GC.14	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
1,2-dichlorobenzene	mg/kg	1	GC.14	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
n-butyl benzene	mg/kg	1	GC.14	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
1,2-dibromo-3-chloropropane	mg/kg	1	GC.14	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
1,2,4-trichlorobenzene	mg/kg	1	GC.14	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
hexachlorobutadiene	mg/kg	1	GC.14	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
1,2,3-trichlorobenzene	mg/kg	1	GC.14	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
Surrogate	%		GC.14	92	43819-1	93 89 RPD: 4	LCS-6	93%
Dibromofluoromethane								
Surrogate	%		GC.14	102	43819-1	89 99 RPD: 11	LCS-6	100%
aaa-Trifluorotoluene								
Surrogate	%		GC.14	96	43819-1	93 92 RPD: 1	LCS-6	96%
Toluene-d8								
Surrogate	%		GC.14	107	43819-1	93 94 RPD: 1	LCS-6	107%
4-Bromofluorobenzene								

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
SVOCs in Soil						Base Duplicate %RPD		
Date extracted	-			23/07/2010	43819-1	23/07/2010 23/07/2010	LCS-6	23/07/2010
Date analysed	-			24/07/2010	43819-1	24/07/2010 24/07/2010	LCS-6	24/07/2010
Phenol	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	LCS-6	79%
Bis-(2-chloroethyl) ether	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
2-Chlorophenol	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	LCS-6	79%
1,3-Dichlorobenzene	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
1,4-Dichlorobenzene	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	LCS-6	78%
2-Methylphenol	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
1,2-Dichlorobenzene	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
Bis (2-chloroisopropyl) ether	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
3/4-Methylphenol	mg/kg	2	GC.12	<2.0	43819-1	<2.0 <2.0	[NR]	[NR]
N-nitrosodi-n-propylamine	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
Hexachloroethane	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
Nitrobenzene	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
Isophorone	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
2,4-Dimethylphenol	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
2-Nitrophenol	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
Bis(2-chloroethoxy)methane	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
2,4-Dichlorophenol	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
1,2,4-Trichlorobenzene	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
Naphthalene	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
4-Chloroaniline	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
Hexachlorobutadiene	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
2-Methylnaphthalene	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
Hexachlorocyclopentadiene	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
2,4,6-trichlorophenol	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
2,4,5-trichlorophenol	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
2-Chloronaphthalene	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
2-nitroaniline	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
Dimethylphthalate	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	LCS-6	64%
2,6-Dinitrotoluene	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
Acenaphthylene	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
3-Nitroaniline	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
Acenaphthene	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	LCS-6	91%
2,4-dinitrophenol	mg/kg	10	GC.12	<10	43819-1	<10 <10	[NR]	[NR]
4-nitrophenol	mg/kg	10	GC.12	<10	43819-1	<10 <10	LCS-6	62%
Dibenzofuran	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
diethylphthalate	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	LCS-6	88%
4-chlorophenylphenylether	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
SVOCs in Soil						Base Duplicate %RPD		
4-nitroaniline	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
Fluorene	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
2-methyl-4,6-dinitrophenol	mg/kg	10	GC.12	<10	43819-1	<10 <10	[NR]	[NR]
azobenzene	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
4-bromophenylphenylether	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
hexachlorobenzene	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
pentachlorophenol	mg/kg	10	GC.12	<10	43819-1	<10 <10	[NR]	[NR]
Phenanthrene	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
Anthracene	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
carbazole	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
di-n-butylphthalate	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
Fluoranthene	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
Pyrene	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	LCS-6	96%
butylbenzylphthalate	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
(2-ethylhexyl)phthalate	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
Benzo(a)anthracene	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
Chrysene	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
di-n-octylphthalate	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
Benzo(b)fluoranthene	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
Benzo(k)fluoranthene	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
Benzo(a)pyrene	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
Indeno(1,2,3-c,d)pyrene	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
ethylmethanesulfonate	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
aniline	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
pentachloroethane	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
benzyl alcohol	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
acetophenone	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
N-nitrosomorpholine	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
3-methylphenol (m-cresol)	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
N-nitrosopiperidine	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
2,6-dichlorophenol	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
hexachloropropene-1	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
N-nitroso-n-butylamine	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
safrole	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
1,2,4,5-tetrachlorobenzene	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
cis and trans iso-safrole	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
1,3-dinitrobenzene	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
pentachlorobenzene	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
SVOCs in Soil						Base Duplicate %RPD		
1-naphthylamine	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
2,3,4,6-tetrachlorophenol	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
2-naphthylamine	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
5-nitro-o-toluidine	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
diphenylamine	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
phenacetin	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
pentachloronitrobenzene	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
dinoseb	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
methapyrilene	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
p-dimethylaminoazobenzene	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
2-acetylaminofluorene	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
7,12-dimethylbenz(a)anthracene	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
3-methylcholanthrene	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
a-BHC	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
b-BHC	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
g-BHC	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
d-BHC	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
Heptachlor	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
Aldrin	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	LCS-6	72%
Heptachlor Epoxide	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
g-Chlordane	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
a-Chlordane	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
Endosulfan I	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
p,p'-DDE	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
Dieldrin	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	LCS-6	69%
Endrin	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
p,p'-DDD	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
Endosulfan II	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
p,p'-DDT	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
Endosulfan Sulphate	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
Methoxychlor	mg/kg	1	GC.12	<1.0	43819-1	<1.0 <1.0	[NR]	[NR]
Surrogate 2-fluorophenol	%		GC.12	94	43819-1	69 77 RPD: 11	LCS-6	73%
Surrogate Phenol-d6	%		GC.12	92	43819-1	74 74 RPD: 0	LCS-6	77%
Surrogate Nitrobenzene-d5	%		GC.12	94	43819-1	67 70 RPD: 4	LCS-6	68%
Surrogate 2-fluorobiphenyl	%		GC.12	81	43819-1	55 51 RPD: 8	LCS-6	87%
Surrogate 2,4,6-Tribromophenol	%		GC.12	50	43819-1	110 121 RPD: 10	LCS-6	86%
Surrogate p-Terphenyl-d14	%		GC.12	99	43819-1	92 93 RPD: 1	LCS-6	64%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Metals in TCLP USEPA1311						Base Duplicate %RPD		
Date extracted	-			23/07/2010	43819-5	23/07/2010 23/07/2010	LCS-W1	23/07/2010
Date analysed	-			28/07/2010	43819-5	28/07/2010 28/07/2010	LCS-W1	28/07/2010
Arsenic in TCLP	mg/L	0.05	Metals.20 ICP-AES	<0.05	43819-5	<0.05 <0.05	LCS-W1	109%
Cadmium in TCLP	mg/L	0.01	Metals.20 ICP-AES	<0.01	43819-5	<0.01 <0.01	LCS-W1	105%
Chromium in TCLP	mg/L	0.01	Metals.20 ICP-AES	<0.01	43819-5	<0.01 <0.01	LCS-W1	101%
Copper in TCLP	mg/L	0.01	Metals.20 ICP-AES	<0.01	43819-5	0.02 0.02 RPD: 0	LCS-W1	101%
Lead in TCLP	mg/L	0.03	Metals.20 ICP-AES	<0.03	43819-5	<0.03 <0.03	LCS-W1	99%
Mercury in TCLP	mg/L	0.0005	Metals.21 CV-AAS	<0.0005	43819-5	<0.0005 <0.0005	LCS-W1	94%
Nickel in TCLP	mg/L	0.02	Metals.20 ICP-AES	<0.02	43819-5	<0.02 <0.02	LCS-W1	101%
Zinc in TCLP	mg/L	0.02	Metals.20 ICP-AES	<0.02	43819-5	0.3 0.2 RPD: 40	LCS-W1	106%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Metals-ASLP Neutral (ICP-MS)						Base Duplicate %RPD		
Date extracted	-			28/07/2010	43819-5	28/07/2010 28/07/2010	LCS-W1	28/07/2010
Date analysed	-			28/07/2010	43819-5	28/07/2010 28/07/2010	LCS-W1	28/07/2010
Arsenic in ASLP	µg/L	1	Metals.22 ICP-MS	<1	43819-5	<1 <1	LCS-W1	98%
Cadmium in ASLP	µg/L	0.1	Metals.22 ICP-MS	<0.1	43819-5	0.3 0.3 RPD: 0	LCS-W1	107%
Chromium in ASLP	µg/L	1	Metals.22 ICP-MS	<1	43819-5	<1 <1	LCS-W1	91%
Copper in ASLP	µg/L	1	Metals.22 ICP-MS	<1	43819-5	12 10 RPD: 18	LCS-W1	91%
Lead in ASLP	µg/L	1	Metals.22 ICP-MS	<1	43819-5	4 4 RPD: 0	LCS-W1	104%
Mercury in ASLP	µg/L	0.5	Metals.21 ASLP	<0.50	43819-5	<0.50 <0.50	LCS-W1	100%
Nickel in ASLP	µg/L	1	Metals.22 ICP-MS	<1	43819-5	8 7 RPD: 13	LCS-W1	97%
Zinc in ASLP	µg/L	1	Metals.22 ICP-MS	<1	43819-5	290 290 RPD: 0	LCS-W1	93%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PAHs in TCLP (USEPA 1311)						Base II Duplicate II %RPD		
Date extracted	-			23/07/2010	[NT]	[NT]	LCS-W1	23/07/201
Date analysed	-			23/07/2010	[NT]	[NT]	LCS-W1	23/07/201
Naphthalene in TCLP	mg/L	0.001	GC.12 subset	<0.001	[NT]	[NT]	LCS-W1	122%
Acenaphthylene in TCLP	mg/L	0.001	GC.12 subset	<0.001	[NT]	[NT]	[NR]	[NR]
Acenaphthene in TCLP	mg/L	0.001	GC.12 subset	<0.001	[NT]	[NT]	[NR]	[NR]
Fluorene in TCLP	mg/L	0.001	GC.12 subset	<0.001	[NT]	[NT]	LCS-W1	117%
Phenanthrene in TCLP	mg/L	0.001	GC.12 subset	<0.001	[NT]	[NT]	LCS-W1	122%
Anthracene in TCLP	mg/L	0.001	GC.12 subset	<0.001	[NT]	[NT]	[NR]	[NR]
Fluoranthene in TCLP	mg/L	0.001	GC.12 subset	<0.001	[NT]	[NT]	LCS-W1	%
Pyrene in TCLP	mg/L	0.001	GC.12 subset	<0.001	[NT]	[NT]	LCS-W1	123%
Benzo(a)anthracene in TCLP	mg/L	0.001	GC.12 subset	<0.001	[NT]	[NT]	[NR]	[NR]
Chrysene in TCLP	mg/L	0.001	GC.12 subset	<0.001	[NT]	[NT]	LCS-W1	132%
Benzo(b+k)fluoranthene in TCLP	mg/L	0.002	GC.12 subset	<0.002	[NT]	[NT]	[NR]	[NR]
Benzo(a)pyrene in TCLP	mg/L	0.001	GC.12 subset	<0.001	[NT]	[NT]	LCS-W1	134%
Indeno(1,2,3-c,d)pyrene - TCLP	mg/L	0.001	GC.12 subset	<0.001	[NT]	[NT]	[NR]	[NR]
Dibenzo(a,h)anthracene in TCLP	mg/L	0.001	GC.12 subset	<0.001	[NT]	[NT]	[NR]	[NR]
Benzo(g,h,i)perylene in TCLP	mg/L	0.001	GC.12 subset	<0.001	[NT]	[NT]	[NR]	[NR]
Surrogate p-Terphenyl-d14	%		GC.12	114	[NT]	[NT]	LCS-W1	140%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PAHs in water leach						Base II Duplicate II %RPD		
Date extracted	-			23/7/2010	[NT]	[NT]	LCS-W1	23/7/2010
Date analysed	-			23/7/2010	[NT]	[NT]	LCS-W1	23/7/2010
Naphthalene in ASLP	mg/L	0.001	GC.12 ASLP	<0.001	[NT]	[NT]	LCS-W1	122%
Acenaphthylene in ASLP	mg/L	0.001	GC.12 ASLP	<0.001	[NT]	[NT]	[NR]	[NR]
Acenaphthene in ASLP	mg/L	0.001	GC.12 ASLP	<0.001	[NT]	[NT]	[NR]	[NR]
Fluorene in ASLP	mg/L	0.001	GC.12 ASLP	<0.001	[NT]	[NT]	LCS-W1	117%
Phenanthrene in ASLP	mg/L	0.001	GC.12 ASLP	<0.001	[NT]	[NT]	LCS-W1	122%
Anthracene in ASLP	mg/L	0.001	GC.12 ASLP	<0.001	[NT]	[NT]	[NR]	[NR]
Fluoranthene in ASLP	mg/L	0.001	GC.12 ASLP	<0.001	[NT]	[NT]	LCS-W1	118%
Pyrene in ASLP	mg/L	0.001	GC.12 ASLP	<0.001	[NT]	[NT]	LCS-W1	123%
Benzo(a)anthracene in ASLP	mg/L	0.001	GC.12 ASLP	<0.001	[NT]	[NT]	[NR]	[NR]
Chrysene in ASLP	mg/L	0.001	GC.12 ASLP	<0.001	[NT]	[NT]	LCS-W1	132%
Benzo(b+k)fluoranthene in ASLP	mg/L	0.002	GC.12 ASLP	<0.002	[NT]	[NT]	[NR]	[NR]
Benzo(a)pyrene in ASLP	mg/L	0.001	GC.12 ASLP	<0.001	[NT]	[NT]	LCS-W1	134%
Indeno(1,2,3-c,d)pyrene - ASLP	mg/L	0.001	GC.12 ASLP	<0.001	[NT]	[NT]	[NR]	[NR]
Dibenzo(a,h)anthracene in ASLP	mg/L	0.001	GC.12 ASLP	<0.001	[NT]	[NT]	[NR]	[NR]
Benzo(g,h,i)perylene in ASLP	mg/L	0.001	GC.12 ASLP	<0.001	[NT]	[NT]	[NR]	[NR]
Surrogate p-Terphenyl-d14	%		GC.12	114	[NT]	[NT]	LCS-W1	140%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
vTPH & BTEX in Water						Base Duplicate %RPD		
Date extracted	-			24/7/2010	[NT]	[NT]	LCS-W1	24/7/2010
Date analysed	-			24/7/2010	[NT]	[NT]	LCS-W1	24/7/2010
TPH C6 - C9	µg/L	10	GC.16	<10	[NT]	[NT]	LCS-W1	96%
Benzene	µg/L	1	GC.16	<1.0	[NT]	[NT]	LCS-W1	97%
Toluene	µg/L	1	GC.16	<1.0	[NT]	[NT]	LCS-W1	100%
Ethylbenzene	µg/L	1	GC.16	<1.0	[NT]	[NT]	LCS-W1	102%
m+p-xylene	µg/L	2	GC.16	<2.0	[NT]	[NT]	LCS-W1	90%
o-xylene	µg/L	1	GC.16	<1.0	[NT]	[NT]	LCS-W1	91%
Surrogate Dibromofluoromethane	%		GC.16	92	[NT]	[NT]	LCS-W1	108%
Surrogate toluene-d8	%		GC.16	96	[NT]	[NT]	LCS-W1	99%
Surrogate 4-BFB	%		GC.16	107	[NT]	[NT]	LCS-W1	93%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Metals in Water - Dissolved						Base Duplicate %RPD		
Date digested	-			27/07/2010	43819-59	27/07/2010 27/07/2010	LCS-W1	27/07/2010
Date analysed	-			27/07/2010	43819-59	27/07/2010 27/07/2010	LCS-W1	27/07/2010
Arsenic - Dissolved	mg/L	0.05	Metals.20 ICP-AES	<0.05	43819-59	<0.05 <0.05	LCS-W1	101%
Cadmium - Dissolved	mg/L	0.01	Metals.20 ICP-AES	<0.01	43819-59	<0.01 <0.01	LCS-W1	101%
Chromium - Dissolved	mg/L	0.01	Metals.20 ICP-AES	<0.01	43819-59	<0.01 <0.01	LCS-W1	102%
Copper - Dissolved	mg/L	0.01	Metals.20 ICP-AES	<0.01	43819-59	<0.01 <0.01	LCS-W1	105%
Lead - Dissolved	mg/L	0.03	Metals.20 ICP-AES	<0.03	43819-59	<0.03 <0.03	LCS-W1	100%
Mercury - Dissolved	mg/L	0.0005	Metals.21 CV-AAS	<0.0005	43819-59	<0.0005 <0.0005	LCS-W1	%
Nickel - Dissolved	mg/L	0.02	Metals.20 ICP-AES	<0.02	43819-59	<0.02 <0.02	LCS-W1	105%
Zinc - Dissolved	mg/L	0.02	Metals.20 ICP-AES	<0.02	43819-59	<0.02 <0.02	LCS-W1	104%

QUALITY CONTROL	UNITS	Dup. Sm#	Duplicate	Spike Sm#	Spike % Recovery
vTPH & BTEX in Soil			Base + Duplicate + %RPD		
Date extracted	-	43819-37	23/7/2010 23/7/2010	43819-5	23/7/2010
Date analysed	-	43819-37	24/7/2010 24/7/2010	43819-5	24/7/2010
vTPH C6 - C9	mg/kg	43819-37	<25 <25	43819-5	89%
Benzene	mg/kg	43819-37	<0.5 <0.5	43819-5	89%
Toluene	mg/kg	43819-37	<0.5 <0.5	43819-5	92%

QUALITY CONTROL vTPH & BTEX in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Ethylbenzene	mg/kg	43819-37	<1.0 <1.0	43819-5	92%
m+p-xylene	mg/kg	43819-37	<2.0 <2.0	43819-5	85%
o-Xylene	mg/kg	43819-37	<1.0 <1.0	43819-5	86%
Surrogate aaa-Trifluorotoluene	%	43819-37	102 104 RPD: 2	43819-5	107%
QUALITY CONTROL sTPH in Soil (C10-C36)	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	43819-37	23/7/2010 23/7/2010	43819-5	23/7/2010
Date analysed	-	43819-37	23/7/2010 23/7/2010	43819-5	23/7/2010
TPH C10 - C14	mg/kg	43819-37	<50 <50	43819-5	82%
TPH C15 - C28	mg/kg	43819-37	<100 <100	43819-5	115%
TPH C29 - C36	mg/kg	43819-37	<100 <100	43819-5	96%
Surrogate o-Terphenyl	%	43819-37	114 114 RPD: 0	43819-5	115%
QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	43819-37	23/07/2010 23/07/2010	43819-5	23/07/2010
Date analysed	-	43819-37	23/07/2010 23/07/2010	43819-5	23/07/2010
Naphthalene	mg/kg	43819-37	<0.1 <0.1	43819-5	95%
Acenaphthylene	mg/kg	43819-37	<0.1 <0.1	[NR]	[NR]
Acenaphthene	mg/kg	43819-37	<0.1 <0.1	[NR]	[NR]
Fluorene	mg/kg	43819-37	<0.1 <0.1	43819-5	95%
Phenanthrene	mg/kg	43819-37	<0.1 <0.1	43819-5	100%
Anthracene	mg/kg	43819-37	<0.1 <0.1	[NR]	[NR]
Fluoranthene	mg/kg	43819-37	<0.1 <0.1	43819-5	96%
Pyrene	mg/kg	43819-37	<0.1 <0.1	43819-5	100%
Benzo(a)anthracene	mg/kg	43819-37	<0.1 <0.1	[NR]	[NR]
Chrysene	mg/kg	43819-37	<0.1 <0.1	43819-5	104%
Benzo(b+k)fluoranthene	mg/kg	43819-37	<0.2 <0.2	[NR]	[NR]
Benzo(a)pyrene	mg/kg	43819-37	<0.05 <0.05	43819-5	111%
Indeno(1,2,3-c,d)pyrene	mg/kg	43819-37	<0.1 <0.1	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	43819-37	<0.1 <0.1	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	43819-37	<0.1 <0.1	[NR]	[NR]
Surrogate p-Terphenyl-d14	%	43819-37	90 89 RPD: 1	43819-5	88%

QUALITY CONTROL Organochlorine Pesticides in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	43819-37	23/07/20100 23/07/20100	43819-5	23/07/20100
Date analysed	-	43819-37	24/07/20100 24/07/20100	43819-5	24/07/20100
HCB	mg/kg	43819-37	<0.1 <0.1	[NR]	[NR]
alpha-BHC	mg/kg	43819-37	<0.1 <0.1	43819-5	73%
gamma-BHC	mg/kg	43819-37	<0.1 <0.1	[NR]	[NR]
beta-BHC	mg/kg	43819-37	<0.1 <0.1	43819-5	97%
Heptachlor	mg/kg	43819-37	<0.1 <0.1	43819-5	88%
delta-BHC	mg/kg	43819-37	<0.1 <0.1	[NR]	[NR]
Aldrin	mg/kg	43819-37	<0.1 <0.1	43819-5	83%
Heptachlor Epoxide	mg/kg	43819-37	<0.1 <0.1	43819-5	97%
gamma-Chlordane	mg/kg	43819-37	<0.1 <0.1	[NR]	[NR]
alpha-chlordane	mg/kg	43819-37	<0.1 <0.1	[NR]	[NR]
Endosulfan I	mg/kg	43819-37	<0.1 <0.1	[NR]	[NR]
pp-DDE	mg/kg	43819-37	<0.1 <0.1	43819-5	106%
Dieldrin	mg/kg	43819-37	<0.1 <0.1	43819-5	91%
Endrin	mg/kg	43819-37	<0.1 <0.1	43819-5	94%
pp-DDD	mg/kg	43819-37	<0.1 <0.1	43819-5	105%
Endosulfan II	mg/kg	43819-37	<0.1 <0.1	[NR]	[NR]
pp-DDT	mg/kg	43819-37	<0.1 <0.1	[NR]	[NR]
Endrin Aldehyde	mg/kg	43819-37	<0.1 <0.1	[NR]	[NR]
Endosulfan Sulphate	mg/kg	43819-37	<0.1 <0.1	43819-5	91%
Methoxychlor	mg/kg	43819-37	<0.1 <0.1	[NR]	[NR]
Surrogate TCLMX	%	43819-37	76 76 RPD: 0	43819-5	75%

QUALITY CONTROL PCBs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	43819-37	23/07/20100 23/07/20100	43819-5	23/07/20100
Date analysed	-	43819-37	24/07/20100 24/07/20100	43819-5	24/07/20100
Arochlor 1016	mg/kg	43819-37	<0.1 <0.1	[NR]	[NR]
Arochlor 1221*	mg/kg	43819-37	<0.1 <0.1	[NR]	[NR]
Arochlor 1232	mg/kg	43819-37	<0.1 <0.1	[NR]	[NR]
Arochlor 1242	mg/kg	43819-37	<0.1 <0.1	[NR]	[NR]
Arochlor 1248	mg/kg	43819-37	<0.1 <0.1	[NR]	[NR]
Arochlor 1254	mg/kg	43819-37	<0.1 <0.1	43819-5	122%
Arochlor 1260	mg/kg	43819-37	<0.1 <0.1	[NR]	[NR]
Surrogate TCLMX	%	43819-37	76 76 RPD: 0	43819-5	96%
QUALITY CONTROL Acid Extractable metals in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date digested	-	43819-37	23/07/2010 23/07/2010	43819-5	23/07/2010
Date analysed	-	43819-37	23/07/2010 23/07/2010	43819-5	23/07/2010
Arsenic	mg/kg	43819-37	5 6 RPD: 18	43819-5	92%
Cadmium	mg/kg	43819-37	<0.5 <0.5	43819-5	88%
Chromium	mg/kg	43819-37	14 23 RPD: 49	43819-5	93%
Copper	mg/kg	43819-37	<1 <1	43819-5	99%
Lead	mg/kg	43819-37	10 11 RPD: 10	43819-5	87%
Mercury	mg/kg	43819-37	<0.1 <0.1	43819-5	97%
Nickel	mg/kg	43819-37	2 3 RPD: 40	43819-5	91%
Zinc	mg/kg	43819-37	4 5 RPD: 22	43819-5	92%
QUALITY CONTROL VOCs in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	[NT]	[NT]	43819-5	23/7/2010
Date analysed	-	[NT]	[NT]	43819-5	24/7/2010
Dichlorodifluoromethane	mg/kg	[NT]	[NT]	[NR]	[NR]
Chloromethane	mg/kg	[NT]	[NT]	[NR]	[NR]
Vinyl Chloride	mg/kg	[NT]	[NT]	[NR]	[NR]
Bromomethane	mg/kg	[NT]	[NT]	[NR]	[NR]
Chloroethane	mg/kg	[NT]	[NT]	[NR]	[NR]
Trichlorofluoromethane	mg/kg	[NT]	[NT]	[NR]	[NR]
1,1-Dichloroethene	mg/kg	[NT]	[NT]	[NR]	[NR]
trans-1,2-dichloroethene	mg/kg	[NT]	[NT]	[NR]	[NR]
1,1-dichloroethane	mg/kg	[NT]	[NT]	43819-5	83%
cis-1,2-dichloroethene	mg/kg	[NT]	[NT]	[NR]	[NR]
bromochloromethane	mg/kg	[NT]	[NT]	[NR]	[NR]
chloroform	mg/kg	[NT]	[NT]	43819-5	86%
2,2-dichloropropane	mg/kg	[NT]	[NT]	[NR]	[NR]
1,2-dichloroethane	mg/kg	[NT]	[NT]	43819-5	86%

QUALITY CONTROL VOCs in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
1,1,1-trichloroethane	mg/kg	[NT]	[NT]	43819-5	76%
1,1-dichloropropene	mg/kg	[NT]	[NT]	[NR]	[NR]
Cyclohexane	mg/kg	[NT]	[NT]	[NR]	[NR]
carbon tetrachloride	mg/kg	[NT]	[NT]	[NR]	[NR]
Benzene	mg/kg	[NT]	[NT]	[NR]	[NR]
dibromomethane	mg/kg	[NT]	[NT]	[NR]	[NR]
1,2-dichloropropane	mg/kg	[NT]	[NT]	[NR]	[NR]
trichloroethene	mg/kg	[NT]	[NT]	43819-5	78%
bromodichloromethane	mg/kg	[NT]	[NT]	43819-5	84%
trans-1,3-dichloropropene	mg/kg	[NT]	[NT]	[NR]	[NR]
cis-1,3-dichloropropene	mg/kg	[NT]	[NT]	[NR]	[NR]
1,1,2-trichloroethane	mg/kg	[NT]	[NT]	[NR]	[NR]
Toluene	mg/kg	[NT]	[NT]	[NR]	[NR]
1,3-dichloropropane	mg/kg	[NT]	[NT]	[NR]	[NR]
dibromochloromethane	mg/kg	[NT]	[NT]	43819-5	72%
1,2-dibromoethane	mg/kg	[NT]	[NT]	[NR]	[NR]
tetrachloroethene	mg/kg	[NT]	[NT]	43819-5	83%
1,1,1,2-tetrachloroethane	mg/kg	[NT]	[NT]	[NR]	[NR]
chlorobenzene	mg/kg	[NT]	[NT]	[NR]	[NR]
Ethylbenzene	mg/kg	[NT]	[NT]	[NR]	[NR]
bromoform	mg/kg	[NT]	[NT]	[NR]	[NR]
m+p-xylene	mg/kg	[NT]	[NT]	[NR]	[NR]
styrene	mg/kg	[NT]	[NT]	[NR]	[NR]
1,1,2,2-tetrachloroethane	mg/kg	[NT]	[NT]	[NR]	[NR]
o-Xylene	mg/kg	[NT]	[NT]	[NR]	[NR]
1,2,3-trichloropropane	mg/kg	[NT]	[NT]	[NR]	[NR]
isopropylbenzene	mg/kg	[NT]	[NT]	[NR]	[NR]
bromobenzene	mg/kg	[NT]	[NT]	[NR]	[NR]
n-propyl benzene	mg/kg	[NT]	[NT]	[NR]	[NR]
2-chlorotoluene	mg/kg	[NT]	[NT]	[NR]	[NR]
4-chlorotoluene	mg/kg	[NT]	[NT]	[NR]	[NR]
1,3,5-trimethyl benzene	mg/kg	[NT]	[NT]	[NR]	[NR]
tert-butyl benzene	mg/kg	[NT]	[NT]	[NR]	[NR]
1,2,4-trimethyl benzene	mg/kg	[NT]	[NT]	[NR]	[NR]
1,3-dichlorobenzene	mg/kg	[NT]	[NT]	[NR]	[NR]
sec-butyl benzene	mg/kg	[NT]	[NT]	[NR]	[NR]
1,4-dichlorobenzene	mg/kg	[NT]	[NT]	[NR]	[NR]
4-isopropyl toluene	mg/kg	[NT]	[NT]	[NR]	[NR]
1,2-dichlorobenzene	mg/kg	[NT]	[NT]	[NR]	[NR]
n-butyl benzene	mg/kg	[NT]	[NT]	[NR]	[NR]

QUALITY CONTROL VOCs in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
1,2-dibromo-3-chloropropane	mg/kg	[NT]	[NT]	[NR]	[NR]
1,2,4-trichlorobenzene	mg/kg	[NT]	[NT]	[NR]	[NR]
hexachlorobutadiene	mg/kg	[NT]	[NT]	[NR]	[NR]
1,2,3-trichlorobenzene	mg/kg	[NT]	[NT]	[NR]	[NR]
Surrogate Dibromofluoromethane	%	[NT]	[NT]	43819-5	93%
Surrogate aaa-Trifluorotoluene	%	[NT]	[NT]	43819-5	103%
Surrogate Toluene-d8	%	[NT]	[NT]	43819-5	94%
Surrogate 4-Bromofluorobenzene	%	[NT]	[NT]	43819-5	106%
QUALITY CONTROL SVOCs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	[NT]	[NT]	43819-5	23/07/2010
Date analysed	-	[NT]	[NT]	43819-5	24/07/2010
Phenol	mg/kg	[NT]	[NT]	43819-5	85%
Bis-(2-chloroethyl) ether	mg/kg	[NT]	[NT]	[NR]	[NR]
2-Chlorophenol	mg/kg	[NT]	[NT]	43819-5	85%
1,3-Dichlorobenzene	mg/kg	[NT]	[NT]	[NR]	[NR]
1,4-Dichlorobenzene	mg/kg	[NT]	[NT]	43819-5	85%
2-Methylphenol	mg/kg	[NT]	[NT]	[NR]	[NR]
1,2-Dichlorobenzene	mg/kg	[NT]	[NT]	[NR]	[NR]
Bis (2-chloroisopropyl) ether	mg/kg	[NT]	[NT]	[NR]	[NR]
3/4-Methylphenol	mg/kg	[NT]	[NT]	[NR]	[NR]
N-nitrosodi-n-propylamine	mg/kg	[NT]	[NT]	[NR]	[NR]
Hexachloroethane	mg/kg	[NT]	[NT]	[NR]	[NR]
Nitrobenzene	mg/kg	[NT]	[NT]	[NR]	[NR]
Isophorone	mg/kg	[NT]	[NT]	[NR]	[NR]
2,4-Dimethylphenol	mg/kg	[NT]	[NT]	[NR]	[NR]
2-Nitrophenol	mg/kg	[NT]	[NT]	[NR]	[NR]
Bis(2-chloroethoxy) methane	mg/kg	[NT]	[NT]	[NR]	[NR]
2,4-Dichlorophenol	mg/kg	[NT]	[NT]	[NR]	[NR]
1,2,4-Trichlorobenzene	mg/kg	[NT]	[NT]	[NR]	[NR]
Naphthalene	mg/kg	[NT]	[NT]	[NR]	[NR]
4-Chloroaniline	mg/kg	[NT]	[NT]	[NR]	[NR]
Hexachlorobutadiene	mg/kg	[NT]	[NT]	[NR]	[NR]
2-Methylnaphthalene	mg/kg	[NT]	[NT]	[NR]	[NR]
Hexachlorocyclopentadiene	mg/kg	[NT]	[NT]	[NR]	[NR]
2,4,6-trichlorophenol	mg/kg	[NT]	[NT]	[NR]	[NR]

QUALITY CONTROL SVOCs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
2,4,5-trichlorophenol	mg/kg	[NT]	[NT]	[NR]	[NR]
2-Chloronaphthalene	mg/kg	[NT]	[NT]	[NR]	[NR]
2-nitroaniline	mg/kg	[NT]	[NT]	[NR]	[NR]
Dimethylphthalate	mg/kg	[NT]	[NT]	43819-5	54%
2,6-Dinitrotoluene	mg/kg	[NT]	[NT]	[NR]	[NR]
Acenaphthylene	mg/kg	[NT]	[NT]	[NR]	[NR]
3-Nitroaniline	mg/kg	[NT]	[NT]	[NR]	[NR]
Acenaphthene	mg/kg	[NT]	[NT]	43819-5	83%
2,4-dinitrophenol	mg/kg	[NT]	[NT]	[NR]	[NR]
4-nitrophenol	mg/kg	[NT]	[NT]	43819-5	28%
Dibenzofuran	mg/kg	[NT]	[NT]	[NR]	[NR]
diethylphthalate	mg/kg	[NT]	[NT]	43819-5	60%
4-chlorophenylphenylether	mg/kg	[NT]	[NT]	[NR]	[NR]
4-nitroaniline	mg/kg	[NT]	[NT]	[NR]	[NR]
Fluorene	mg/kg	[NT]	[NT]	[NR]	[NR]
2-methyl-4,6-dinitrophenol	mg/kg	[NT]	[NT]	[NR]	[NR]
azobenzene	mg/kg	[NT]	[NT]	[NR]	[NR]
4-bromophenylphenylether	mg/kg	[NT]	[NT]	[NR]	[NR]
hexachlorobenzene	mg/kg	[NT]	[NT]	[NR]	[NR]
pentachlorophenol	mg/kg	[NT]	[NT]	[NR]	[NR]
Phenanthrene	mg/kg	[NT]	[NT]	[NR]	[NR]
Anthracene	mg/kg	[NT]	[NT]	[NR]	[NR]
carbazole	mg/kg	[NT]	[NT]	[NR]	[NR]
di-n-butylphthalate	mg/kg	[NT]	[NT]	[NR]	[NR]
Fluoranthene	mg/kg	[NT]	[NT]	[NR]	[NR]
Pyrene	mg/kg	[NT]	[NT]	43819-5	115%
butylbenzylphthalate	mg/kg	[NT]	[NT]	[NR]	[NR]
bis(2-ethylhexyl)phthalate	mg/kg	[NT]	[NT]	[NR]	[NR]
Benzo(a)anthracene	mg/kg	[NT]	[NT]	[NR]	[NR]
Chrysene	mg/kg	[NT]	[NT]	[NR]	[NR]
di-n-octylphthalate	mg/kg	[NT]	[NT]	[NR]	[NR]
Benzo(b)fluoranthene	mg/kg	[NT]	[NT]	[NR]	[NR]
Benzo(k)fluoranthene	mg/kg	[NT]	[NT]	[NR]	[NR]
Benzo(a)pyrene	mg/kg	[NT]	[NT]	[NR]	[NR]
Indeno(1,2,3-c,d)pyrene	mg/kg	[NT]	[NT]	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	[NT]	[NT]	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	[NT]	[NT]	[NR]	[NR]
ethylmethanesulfonate	mg/kg	[NT]	[NT]	[NR]	[NR]
aniline	mg/kg	[NT]	[NT]	[NR]	[NR]
pentachloroethane	mg/kg	[NT]	[NT]	[NR]	[NR]

QUALITY CONTROL SVOCs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
benzyl alcohol	mg/kg	[NT]	[NT]	[NR]	[NR]
acetophenone	mg/kg	[NT]	[NT]	[NR]	[NR]
N-nitrosomorpholine	mg/kg	[NT]	[NT]	[NR]	[NR]
3-methylphenol (m cresol)	mg/kg	[NT]	[NT]	[NR]	[NR]
N-nitrosopiperidine	mg/kg	[NT]	[NT]	[NR]	[NR]
2,6-dichlorophenol	mg/kg	[NT]	[NT]	[NR]	[NR]
hexachloropropene-1	mg/kg	[NT]	[NT]	[NR]	[NR]
N-nitroso-n-butylamine	mg/kg	[NT]	[NT]	[NR]	[NR]
safrole	mg/kg	[NT]	[NT]	[NR]	[NR]
1,2,4,5-tetrachlorobenzene	mg/kg	[NT]	[NT]	[NR]	[NR]
cis and trans iso-safrole	mg/kg	[NT]	[NT]	[NR]	[NR]
1,3-dinitrobenzene	mg/kg	[NT]	[NT]	[NR]	[NR]
pentachlorobenzene	mg/kg	[NT]	[NT]	[NR]	[NR]
1-naphthylamine	mg/kg	[NT]	[NT]	[NR]	[NR]
2,3,4,6-tetrachlorophenol	mg/kg	[NT]	[NT]	[NR]	[NR]
2-naphthylamine	mg/kg	[NT]	[NT]	[NR]	[NR]
5-nitro-o-toluidine	mg/kg	[NT]	[NT]	[NR]	[NR]
diphenylamine	mg/kg	[NT]	[NT]	[NR]	[NR]
phenacetin	mg/kg	[NT]	[NT]	[NR]	[NR]
pentachloronitrobenzene	mg/kg	[NT]	[NT]	[NR]	[NR]
dinoseb	mg/kg	[NT]	[NT]	[NR]	[NR]
methapyrilene	mg/kg	[NT]	[NT]	[NR]	[NR]
p-dimethylaminoazobenzen e	mg/kg	[NT]	[NT]	[NR]	[NR]
2-acetylaminofluorene	mg/kg	[NT]	[NT]	[NR]	[NR]
7,12-dimethylbenz(a)anthra cene	mg/kg	[NT]	[NT]	[NR]	[NR]
3-methylcholanthrene	mg/kg	[NT]	[NT]	[NR]	[NR]
a-BHC	mg/kg	[NT]	[NT]	[NR]	[NR]
b-BHC	mg/kg	[NT]	[NT]	[NR]	[NR]
g-BHC	mg/kg	[NT]	[NT]	[NR]	[NR]
d-BHC	mg/kg	[NT]	[NT]	[NR]	[NR]
Heptachlor	mg/kg	[NT]	[NT]	[NR]	[NR]
Aldrin	mg/kg	[NT]	[NT]	43819-5	79%
Heptachlor Epoxide	mg/kg	[NT]	[NT]	[NR]	[NR]
g-Chlordane	mg/kg	[NT]	[NT]	[NR]	[NR]
a-Chlordane	mg/kg	[NT]	[NT]	[NR]	[NR]
Endosulfan I	mg/kg	[NT]	[NT]	[NR]	[NR]
p,p'-DDE	mg/kg	[NT]	[NT]	[NR]	[NR]
Dieldrin	mg/kg	[NT]	[NT]	43819-5	72%
Endrin	mg/kg	[NT]	[NT]	[NR]	[NR]

QUALITY CONTROL SVOCs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
p,p'-DDD	mg/kg	[NT]	[NT]	[NR]	[NR]
Endosulfan II	mg/kg	[NT]	[NT]	[NR]	[NR]
p,p'-DDT	mg/kg	[NT]	[NT]	[NR]	[NR]
Endosulfan Sulphate	mg/kg	[NT]	[NT]	[NR]	[NR]
Methoxychlor	mg/kg	[NT]	[NT]	[NR]	[NR]
Surrogate 2-fluorophenol	%	[NT]	[NT]	43819-5	74%
Surrogate Phenol-d6	%	[NT]	[NT]	43819-5	86%
Surrogate Nitrobenzene-d5	%	[NT]	[NT]	43819-5	77%
Surrogate 2-fluorobiphenyl	%	[NT]	[NT]	43819-5	59%
Surrogate 2,4,6-Tribromophenol	%	[NT]	[NT]	43819-5	73%
Surrogate p-Terphenyl-d14	%	[NT]	[NT]	43819-5	69%
QUALITY CONTROL Metals in TCLP USEPA1311	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	[NT]	[NT]	43819-20	23/07/2010
Date analysed	-	[NT]	[NT]	43819-20	28/07/2010
Arsenic in TCLP	mg/L	[NT]	[NT]	43819-20	112%
Cadmium in TCLP	mg/L	[NT]	[NT]	43819-20	107%
Chromium in TCLP	mg/L	[NT]	[NT]	43819-20	103%
Copper in TCLP	mg/L	[NT]	[NT]	43819-20	104%
Lead in TCLP	mg/L	[NT]	[NT]	43819-20	102%
Mercury in TCLP	mg/L	[NT]	[NT]	43819-20	87%
Nickel in TCLP	mg/L	[NT]	[NT]	43819-20	104%
Zinc in TCLP	mg/L	[NT]	[NT]	43819-20	109%
QUALITY CONTROL Metals-ASLP Neutral (ICP-MS)	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	[NT]	[NT]	43819-20	28/07/2010
Date analysed	-	[NT]	[NT]	43819-20	28/07/2010
Arsenic in ASLP	µg/L	[NT]	[NT]	43819-20	102%
Cadmium in ASLP	µg/L	[NT]	[NT]	43819-20	108%
Chromium in ASLP	µg/L	[NT]	[NT]	43819-20	98%
Copper in ASLP	µg/L	[NT]	[NT]	43819-20	94%
Lead in ASLP	µg/L	[NT]	[NT]	43819-20	98%
Mercury in ASLP	µg/L	[NT]	[NT]	43819-20	92%
Nickel in ASLP	µg/L	[NT]	[NT]	43819-20	96%
Zinc in ASLP	µg/L	[NT]	[NT]	43819-20	96%

Report Comments:

Total Petroleum Hydrocarbons in soil: # Percent recovery is not possible to report as the high concentration of analytes in the sample/s have caused interference.

Asbestos was analysed by Approved Identifier: Matt Mansfield

Asbestos was authorised by Approved Signatory: Matt Mansfield

INS: Insufficient sample for this test NT: Not tested PQL: Practical Quantitation Limit <: Less than >: Greater than

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.

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



CHAIN OF CUSTODY

PROJECT NO.: 41274		LABORATORY BATCH NO.													
PROJECT NAME: John Moor PESA		SAMPLERS: Mike Parker													
SEND REPORT TO: Mike Parker		PHONE: 8338 011													
DATE NEEDED BY: STD IAT		EMAIL: mpa@bgs.gov.au													
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:		QC LEVEL: NEPM 1999 (S)													
ASCP ⇒ 8 heavy metals & PAFs.															
TCP ⇒ 8 heavy metals & PAFs.															
SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	8 metals	TpH	PAHs	OCs	PCBs	Asbestos	VCs	ASPs	TCLP	NOTES
BH01-0.0-0.1	soil	22/7/10		2 soil jars + bag + ice		X	X	X	X	X	X	X	X		HOLD
-0.3-0.4				1 soil jar + bag + ice											
-0.4-0.5															
-0.9-1.0															
BH02-0.0-0.1				2 soil jars + bag + ice		X	X	X	X	X	X	X	X		
-0.3-0.4				1 soil jar + bag + ice		X	X	X	X	X	X	X	X		
-0.4-0.5															
-0.9-1.0															
BH03-0.0-0.1				2 soil jars + bag + ice		X	X	X	X	X	X	X	X		
-0.3-0.4				1 soil jar + bag + ice											
-0.4-0.5															
-0.9-1.0															
BH04-0.0-0.1				2 soil jars + bag + ice		X	X	X	X	X	X	X	X		
-0.3-0.4				1 soil jar + bag + ice											
-0.5-0.6															
BH05-0.0-0.1				2 soil jars + bag + ice		X	X	X	X	X	X	X	X		
-0.3-0.4				1 soil jar + bag + ice											
-0.5-0.6															

Envirolab Services
12 Ashley St
Chatswood NSW 1587
Ph: 9970 5200

Job No: 43819
Date received: 22/7/10
Time received: 2pm
Received by: ZPL
Temp: Cool/Ambient
Cooling: Ice/Repack
Security: Intact/Broken/None

RELINQUISHED BY: Mike Parker	DATE: 21/7/10	RECEIVED BY:	DATE: 22/7/10	FOR RECEIVING LAB USE ONLY:
NAME: Mike Parker	CONSIGNMENT NOTE NO. -	NAME: Z.L.	DATE: 22/7/10	COOLER SEAL - Yes No Intact Broken
OF: JBSE Environmental	TRANSPORT CO. CCC	OF: ELS	DATE:	COOLER SEAL - Yes No Intact Broken
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:		COOLER SEAL - Yes No Intact Broken
OF: DATE:	TRANSPORT CO	OF: DATE:		COOLER SEAL - Yes No Intact Broken

Carrier: A Preservative Container: B = Plastic; C = Soil Jar; D = Glass Bottle; E = Nitric Acid Pres.; F = Hydrochloric Acid Pres.; G = Sodium Hydroxide Pres.; H = Sulfuric Acid Pres.; I = Sulfuric Acid Pres.; J = Sulfuric Acid Pres.; K = Sulfuric Acid Pres.; L = Sulfuric Acid Pres.; M = Sulfuric Acid Pres.; N = Sulfuric Acid Pres.; O = Sulfuric Acid Pres.; P = Sulfuric Acid Pres.; Q = Sulfuric Acid Pres.; R = Sulfuric Acid Pres.; S = Sulfuric Acid Pres.; T = Sulfuric Acid Pres.; U = Sulfuric Acid Pres.; V = Sulfuric Acid Pres.; W = Sulfuric Acid Pres.; X = Sulfuric Acid Pres.; Y = Sulfuric Acid Pres.; Z = Sulfuric Acid Pres.; AA = Sulfuric Acid Pres.; AB = Sulfuric Acid Pres.; AC = Sulfuric Acid Pres.; AD = Sulfuric Acid Pres.; AE = Sulfuric Acid Pres.; AF = Sulfuric Acid Pres.; AG = Sulfuric Acid Pres.; AH = Sulfuric Acid Pres.; AI = Sulfuric Acid Pres.; AJ = Sulfuric Acid Pres.; AK = Sulfuric Acid Pres.; AL = Sulfuric Acid Pres.; AM = Sulfuric Acid Pres.; AN = Sulfuric Acid Pres.; AO = Sulfuric Acid Pres.; AP = Sulfuric Acid Pres.; AQ = Sulfuric Acid Pres.; AR = Sulfuric Acid Pres.; AS = Sulfuric Acid Pres.; AT = Sulfuric Acid Pres.; AU = Sulfuric Acid Pres.; AV = Sulfuric Acid Pres.; AW = Sulfuric Acid Pres.; AX = Sulfuric Acid Pres.; AY = Sulfuric Acid Pres.; AZ = Sulfuric Acid Pres.; BA = Sulfuric Acid Pres.; BB = Sulfuric Acid Pres.; BC = Sulfuric Acid Pres.; BD = Sulfuric Acid Pres.; BE = Sulfuric Acid Pres.; BF = Sulfuric Acid Pres.; BG = Sulfuric Acid Pres.; BH = Sulfuric Acid Pres.; BI = Sulfuric Acid Pres.; BJ = Sulfuric Acid Pres.; BK = Sulfuric Acid Pres.; BL = Sulfuric Acid Pres.; BM = Sulfuric Acid Pres.; BN = Sulfuric Acid Pres.; BO = Sulfuric Acid Pres.; BP = Sulfuric Acid Pres.; BQ = Sulfuric Acid Pres.; BR = Sulfuric Acid Pres.; BS = Sulfuric Acid Pres.; BT = Sulfuric Acid Pres.; BU = Sulfuric Acid Pres.; BV = Sulfuric Acid Pres.; BV = Sulfuric Acid Pres.; BW = Sulfuric Acid Pres.; BX = Sulfuric Acid Pres.; BY = Sulfuric Acid Pres.; BZ = Sulfuric Acid Pres.; CA = Sulfuric Acid Pres.; CB = Sulfuric Acid Pres.; CC = Sulfuric Acid Pres.; CD = Sulfuric Acid Pres.; CE = Sulfuric Acid Pres.; CF = Sulfuric Acid Pres.; CG = Sulfuric Acid Pres.; CH = Sulfuric Acid Pres.; CI = Sulfuric Acid Pres.; CJ = Sulfuric Acid Pres.; CK = Sulfuric Acid Pres.; CL = Sulfuric Acid Pres.; CM = Sulfuric Acid Pres.; CN = Sulfuric Acid Pres.; CO = Sulfuric Acid Pres.; CP = Sulfuric Acid Pres.; CQ = Sulfuric Acid Pres.; CR = Sulfuric Acid Pres.; CS = Sulfuric Acid Pres.; CT = Sulfuric Acid Pres.; CU = Sulfuric Acid Pres.; CV = Sulfuric Acid Pres.; CV = Sulfuric Acid Pres.; CW = Sulfuric Acid Pres.; CX = Sulfuric Acid Pres.; CY = Sulfuric Acid Pres.; CZ = Sulfuric Acid Pres.; DA = Sulfuric Acid Pres.; DB = Sulfuric Acid Pres.; DC = Sulfuric Acid Pres.; DD = Sulfuric Acid Pres.; DE = Sulfuric Acid Pres.; DF = Sulfuric Acid Pres.; DG = Sulfuric Acid Pres.; DH = Sulfuric Acid Pres.; DI = Sulfuric Acid Pres.; DJ = Sulfuric Acid Pres.; DK = Sulfuric Acid Pres.; DL = Sulfuric Acid Pres.; DM = Sulfuric Acid Pres.; DN = Sulfuric Acid Pres.; DO = Sulfuric Acid Pres.; DP = Sulfuric Acid Pres.; DP = Sulfuric Acid Pres.; DQ = Sulfuric Acid Pres.; DR = Sulfuric Acid Pres.; DS = Sulfuric Acid Pres.; DT = Sulfuric Acid Pres.; DU = Sulfuric Acid Pres.; DV = Sulfuric Acid Pres.; DV = Sulfuric Acid Pres.; DW = Sulfuric Acid Pres.; DX = Sulfuric Acid Pres.; DY = Sulfuric Acid Pres.; DZ = Sulfuric Acid Pres.; EA = Sulfuric Acid Pres.; EB = Sulfuric Acid Pres.; EC = Sulfuric Acid Pres.; ED = Sulfuric Acid Pres.; EE = Sulfuric Acid Pres.; EF = Sulfuric Acid Pres.; EG = Sulfuric Acid Pres.; EH = Sulfuric Acid



CHAIN OF CUSTODY

PROJECT NO.: 41274		LABORATORY BATCH NO.														
PROJECT NAME: John Moor PESA		SAMPLERS: Mike Parker														
SEND REPORT TO: Mike Parker		PHONE: 8338 1011														
DATE NEEDED BY: 21/7/10		EMAIL: mpa@jbsgrp.com.au														
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:		OC LEVEL: NEPM 1999 (X)														
ASLP & heavy metals & PATS.																
TCLP & heavy metals & PATS.																
SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	As Metals	TPH	BITX	PATS	OCB	PBS	Asbestos	VOCs	As P	TCLP	NOTES
BH05-0.8-0.9	soil	20/7/10		1 soil jar + bag + ice												
BH06-0.0-0.1		21/7/10		2 soil jars + bag + ice		X	X	X	X	X	X	X	X	X	X	
-0.3-0.4				1 soil jar + bag + ice												
-0.5-0.6																
-0.9-1.0				2 soil jars + bag + ice		X	X	X	X	X	X	X	X	X	X	
BH07-0.0-0.1				1 soil jar + bag + ice												
-0.3-0.4																
-0.5-0.6																
-0.9-1.0				2 soil jars + bag + ice		X	X	X	X	X	X	X	X	X	X	
BH08-0.0-0.1				1 soil jar + bag + ice												
-0.3-0.4																
-0.5-0.6																
-0.8-0.9				2 soil jars + bag + ice		X	X	X	X	X	X	X	X	X	X	
BH09-0.0-0.1				1 soil jar + bag + ice												
-0.3-0.4																
-0.5-0.6																
-0.6-0.7																

RELINQUISHED BY:		RECEIVED BY:	
NAME: Mike Parker	DATE: 21/7/10	NAME: Z.L.	DATE: 22/7/10
OF: JBS Environmental	TRANSPORT CO. CCC	OF: ELS	COOLER SEAL - Yes No
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER TEMP deg C
OF: DATE:	TRANSPORT CO	NAME: DATE:	COOLER SEAL - Yes No
OF: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER TEMP deg C

FOR RECEIVING LAB USE ONLY:
 COOLER SEAL - Yes No Intact Broken
 COOLER TEMP deg C
 COOLER SEAL - Yes No Intact Broken
 COOLER TEMP deg C

Consent: A = Preservative Container; P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Pres; C = Sodium Hydroxide Pres; VC = Hydrochloric Acid Pres; Vial; VS = Sulfuric Acid Pres; Z = Zinc Pres; E = EDTA Pres; ST = Stable Bottle; O = Other



CHAIN OF CUSTODY

PROJECT NO.: 41274				LABORATORY BATCH NO.												
PROJECT NAME: Labmoor PESA				SAMPLERS: Mike Parker												
SEND REPORT TO: Mike Parker				PHONE: 8338 1011												
DATE RECEIVED BY: STD TAT				EMAIL: mpa@jbsgrp.com.au												
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:				QC LEVEL: NEPM 1999 (X)												
ASCP & 8 heavy metals & PAFS.																
TCLP & 8 heavy metals & PAFS.																
SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	8 metals	TPH	PAHS	OCPS	PBS	Asbestos	VOCS	SVOCs	AsP	TCLP	NOTES
BH10-0.0-0.1	soil	21/7/10		2 soil jars + bag + ice		X	X	X	X	X	X					
↓ -0.3-0.4				1 soil jar + bag + ice		X	X	X	X	X						
BH11-0.0-0.1				1 soil jar + bag + ice		X	X	X	X	X						
↓ -0.3-0.4				2 soil jars + bag + ice		X	X	X	X	X						
BH12-0.0-0.1				1 soil jar + bag + ice		X	X	X	X	X						
↓ -0.3-0.4				1 soil jar + bag + ice		X	X	X	X	X						
↓ -0.5-0.6				1 soil jar + bag + ice		X	X	X	X	X						
BH13-0.0-0.1				1 soil jar + bag + ice		X	X	X	X	X						
↓ -0.3-0.4				2 soil jars + bag + ice		X	X	X	X	X						
↓ -0.5-0.6				1 soil jar + bag + ice		X	X	X	X	X						
BH14-0.0-0.1				2 soil jars + bag + ice		X	X	X	X	X						
↓ -0.3-0.4				1 soil jar + bag + ice		X	X	X	X	X						
↓ -0.5-0.6				2 soil jars + bag + ice		X	X	X	X	X						
BH15-0.0-0.1				2 soil jars + bag + ice		X	X	X	X	X						

RELINQUISHED BY:		METHOD OF SHIPMENT:		RECEIVED BY:		FOR RECEIVING LAB USE ONLY			
NAME:	DATE:	CONSIGNMENT NOTE NO.	TRANSPORT CO.	NAME:	DATE:	COOLER SEAL:	COOLER TEMP:	COOLER SEAL:	COOLER TEMP:
Mike Parker	21/7/10		ALC	Z.L.	22/7/10	Yes	22°C	Yes	22°C
JBS Environmental				ELS		Intact		Intact	
DATE:		CONSIGNMENT NOTE NO.	TRANSPORT CO.	NAME:	DATE:	COOLER SEAL:	COOLER TEMP:	COOLER SEAL:	COOLER TEMP:
						Intact		Intact	

Container & Preservation Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Presv.; C = Sodium Hydroxide Presv.; VC = Hydrochloric Acid Presv.; VS = Sulfuric Acid Presv.; V5 = Sulfuric Acid Presv.; 2 = Zinc Presv.; E = EDTA Presv.; ST = Sterile Bottle; O = Other.



CHAIN OF CUSTODY

165 Environmental Pty Ltd ABN 67 071 842 638
Phone: (02) 8338-1011
Fax: (02) 8338-1700
JMSO Forms013 - Chain of Custody



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:

JBS Environmental
P.O. Box 940
MASCOT NSW 1460

ph: 8338 1013
Fax: 8338 1700

Attention: Mike Parker

Sample log in details:

Your reference:
EnviroLab Reference:
Date received:
Date results expected to be reported:

41274, Tahmoor PESA
43819
22/07/10
29/07/10

Samples received in appropriate condition for analysis:	YES
No. of samples provided	56 Soils, 3 Waters
Turnaround time requested:	Standard
Temperature on receipt	Cool
Cooling Method:	Ice

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
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 43819-A

Client:

JBS Environmental
P.O. Box 940
MASCOT
NSW 1460

Attention: Mike Parker

Sample log in details:

Your Reference:	41274, Tahmoor PESA
No. of samples:	Additional Testing on 1 Soil
Date samples received:	22/07/10
Date completed instructions received:	30/07/10

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.

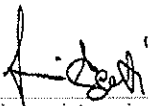
Please refer to the last page of this report for any comments relating to the results.

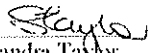
Report Details:

Date results requested by:	2/08/10
Date of Preliminary Report:	Not Issued
Issue Date:	2/08/10

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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:


Giovanni Agosti
Technical Manager


Sandra Taylor
Senior Organic Chemist

Envirolab Reference: 43819-A
Revision No: R 00



Metals in TCLP USEPA1311		
Our Reference:	UNITS	43819-A-13
Your Reference	-----	BH04
Depth	-----	0.0-0.1
Date Sampled		20/07/2010
Type of sample		Soil
Date extracted	-	30/07/2010
Date analysed	-	02/08/2010
pH of soil for fluid# determ.	pH units	6.10
pH of soil for fluid # determ. (acid)	pH units	1.40
Extraction fluid used	-	1
pH of final Leachate	pH units	5.10
Arsenic in TCLP	mg/L	<0.05
Cadmium in TCLP	mg/L	<0.01
Chromium in TCLP	mg/L	<0.01
Copper in TCLP	mg/L	0.02
Lead in TCLP	mg/L	<0.03
Mercury in TCLP	mg/L	<0.0005
Nickel in TCLP	mg/L	<0.02
Zinc in TCLP	mg/L	0.5

Metals-ASLP Neutral (ICP-MS)		
Our Reference:	UNITS	43819-A-13
Your Reference	-----	BH04
Depth	-----	0.0-0.1
Date Sampled		20/07/2010
Type of sample		Soil
Date extracted	-	30/07/2010
Date analysed	-	02/08/2010
pH of final Leachate	pH units	5.60
Arsenic in ASLP	µg/L	2
Cadmium in ASLP	µg/L	<0.1
Chromium in ASLP	µg/L	7
Copper in ASLP	µg/L	10
Lead in ASLP	µg/L	5
Mercury in ASLP	µg/L	<0.50
Nickel in ASLP	µg/L	3
Zinc in ASLP	µg/L	250

PAHs in TCLP (USEPA 1311)		
Our Reference:	UNITS	43819-A-13
Your Reference	-----	BH04
Depth	-----	0.0-0.1
Date Sampled		20/07/2010
Type of sample		Soil
Date extracted	-	02/08/2010
Date analysed	-	02/08/2010
Naphthalene in TCLP	mg/L	<0.001
Acenaphthylene in TCLP	mg/L	<0.001
Acenaphthene in TCLP	mg/L	<0.001
Fluorene in TCLP	mg/L	<0.001
Phenanthrene in TCLP	mg/L	<0.001
Anthracene in TCLP	mg/L	<0.001
Fluoranthene in TCLP	mg/L	<0.001
Pyrene in TCLP	mg/L	<0.001
Benzo(a)anthracene in TCLP	mg/L	<0.001
Chrysene in TCLP	mg/L	<0.001
Benzo(b+k)fluoranthene in TCLP	mg/L	<0.002
Benzo(a)pyrene in TCLP	mg/L	<0.001
Indeno(1,2,3-c,d)pyrene - TCLP	mg/L	<0.001
Dibenzo(a,h)anthracene in TCLP	mg/L	<0.001
Benzo(g,h,i)perylene in TCLP	mg/L	<0.001
Surrogate p-Terphenyl-d14	%	110

PAHs in water leach		
Our Reference:	UNITS	43819-A-13
Your Reference	-----	BH04
Depth	-----	0.0-0.1
Date Sampled		20/07/2010
Type of sample		Soil
Date extracted	-	02/08/2010
Date analysed	-	02/08/2010
Naphthalene in ASLP	mg/L	<0.001
Acenaphthylene in ASLP	mg/L	<0.001
Acenaphthene in ASLP	mg/L	<0.001
Fluorene in ASLP	mg/L	<0.001
Phenanthrene in ASLP	mg/L	<0.001
Anthracene in ASLP	mg/L	<0.001
Fluoranthene in ASLP	mg/L	<0.001
Pyrene in ASLP	mg/L	<0.001
Benzo(a)anthracene in ASLP	mg/L	<0.001
Chrysene in ASLP	mg/L	<0.001
Benzo(b+k)fluoranthene in ASLP	mg/L	<0.002
Benzo(a)pyrene in ASLP	mg/L	<0.001
Indeno(1,2,3-c,d)pyrene - ASLP	mg/L	<0.001
Dibenzo(a,h)anthracene in ASLP	mg/L	<0.001
Benzo(g,h,i)perylene in ASLP	mg/L	<0.001
Surrogate p-Terphenyl-d14	%	116

Method ID	Methodology Summary
LAB.4	Toxicity Characteristic Leaching Procedure (TCLP).
EXTRACT.7	Toxicity Characteristic Leaching Procedure (TCLP).
LAB.1	pH - Measured using pH meter and electrode in accordance with APHA 20th ED, 4500-H+.
Metals.20 ICP-AES	Determination of various metals by ICP-AES.
Metals.21 CV-AAS	Determination of Mercury by Cold Vapour AAS.
Metals.22 ICP-MS	Determination of various metals by ICP-MS following leaching using neutralised deionised water by AS 4439.3 - 1997.
Metals.21 ASLP	Determination of Mercury by Cold Vapour AAS following neutral water leaching by AS 4439.3 - 1997.
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.
GC.12 ASLP	ASLP Leachates are extracted with Dichloromethane and analysed by GC-MS.

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Metals in TCLP USEPA1311						Base II Duplicate II %RPD		
Date extracted	-			30/07/2010	[NT]	[NT]	LCS-W1	30/07/2010
Date analysed	-			02/08/2010	[NT]	[NT]	LCS-W1	02/08/2010
Arsenic in TCLP	mg/L	0.05	Metals.20 ICP-AES	<0.05	[NT]	[NT]	LCS-W1	113%
Cadmium in TCLP	mg/L	0.01	Metals.20 ICP-AES	<0.01	[NT]	[NT]	LCS-W1	105%
Chromium in TCLP	mg/L	0.01	Metals.20 ICP-AES	<0.01	[NT]	[NT]	LCS-W1	105%
Copper in TCLP	mg/L	0.01	Metals.20 ICP-AES	<0.01	[NT]	[NT]	LCS-W1	105%
Lead in TCLP	mg/L	0.03	Metals.20 ICP-AES	<0.03	[NT]	[NT]	LCS-W1	102%
Mercury in TCLP	mg/L	0.0005	Metals.21 CV-AAS	<0.0005	[NT]	[NT]	LCS-W1	119%
Nickel in TCLP	mg/L	0.02	Metals.20 ICP-AES	<0.02	[NT]	[NT]	LCS-W1	106%
Zinc in TCLP	mg/L	0.02	Metals.20 ICP-AES	<0.02	[NT]	[NT]	LCS-W1	110%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Metals-ASLP Neutral (ICP-MS)						Base II Duplicate II %RPD		
Date extracted	-			30/07/2010	[NT]	[NT]	LCS-W1	30/07/2010
Date analysed	-			20/08/2010	[NT]	[NT]	LCS-W1	02/08/2010
Arsenic in ASLP	µg/L	1	Metals.22 ICP-MS	<1	[NT]	[NT]	LCS-W1	108%
Cadmium in ASLP	µg/L	0.1	Metals.22 ICP-MS	<0.1	[NT]	[NT]	LCS-W1	110%
Chromium in ASLP	µg/L	1	Metals.22 ICP-MS	<1	[NT]	[NT]	LCS-W1	108%
Copper in ASLP	µg/L	1	Metals.22 ICP-MS	<1	[NT]	[NT]	LCS-W1	108%
Lead in ASLP	µg/L	1	Metals.22 ICP-MS	<1	[NT]	[NT]	LCS-W1	108%
Mercury in ASLP	µg/L	0.5	Metals.21 ASLP	<0.50	[NT]	[NT]	LCS-W1	117%
Nickel in ASLP	µg/L	1	Metals.22 ICP-MS	<1	[NT]	[NT]	LCS-W1	100%
Zinc in ASLP	µg/L	1	Metals.22 ICP-MS	<1	[NT]	[NT]	LCS-W1	112%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PAHs in TCLP (USEPA 1311)						Base II Duplicate II %RPD		
Date extracted	-			02/08/2010	[NT]	[NT]	LCS-W1	02/08/201
Date analysed	-			02/08/2010	[NT]	[NT]	LCS-W1	02/08/201
Naphthalene in TCLP	mg/L	0.001	GC.12 subset	<0.001	[NT]	[NT]	LCS-W1	98%
Acenaphthylene in TCLP	mg/L	0.001	GC.12 subset	<0.001	[NT]	[NT]	[NR]	[NR]
Acenaphthene in TCLP	mg/L	0.001	GC.12 subset	<0.001	[NT]	[NT]	[NR]	[NR]
Fluorene in TCLP	mg/L	0.001	GC.12 subset	<0.001	[NT]	[NT]	LCS-W1	109%
Phenanthrene in TCLP	mg/L	0.001	GC.12 subset	<0.001	[NT]	[NT]	LCS-W1	115%
Anthracene in TCLP	mg/L	0.001	GC.12 subset	<0.001	[NT]	[NT]	[NR]	[NR]
Fluoranthene in TCLP	mg/L	0.001	GC.12 subset	<0.001	[NT]	[NT]	LCS-W1	%
Pyrene in TCLP	mg/L	0.001	GC.12 subset	<0.001	[NT]	[NT]	LCS-W1	121%
Benzo(a)anthracene in TCLP	mg/L	0.001	GC.12 subset	<0.001	[NT]	[NT]	[NR]	[NR]
Chrysene in TCLP	mg/L	0.001	GC.12 subset	<0.001	[NT]	[NT]	LCS-W1	111%
Benzo(b+k)fluoranthene in TCLP	mg/L	0.002	GC.12 subset	<0.002	[NT]	[NT]	[NR]	[NR]
Benzo(a)pyrene in TCLP	mg/L	0.001	GC.12 subset	<0.001	[NT]	[NT]	LCS-W1	112%
Indeno(1,2,3-c,d)pyrene - TCLP	mg/L	0.001	GC.12 subset	<0.001	[NT]	[NT]	[NR]	[NR]
Dibenzo(a,h)anthracene in TCLP	mg/L	0.001	GC.12 subset	<0.001	[NT]	[NT]	[NR]	[NR]
Benzo(g,h,i)perylene in TCLP	mg/L	0.001	GC.12 subset	<0.001	[NT]	[NT]	[NR]	[NR]
Surrogate p-Terphenyl-d14	%		GC.12	126	[NT]	[NT]	LCS-W1	106%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PAHs in water leach						Base II Duplicate II %RPD		
Date extracted	-			02/08/2010	[NT]	[NT]	LCS-W1	02/08/2010
Date analysed	-			02/08/2010	[NT]	[NT]	LCS-W1	02/08/2010
Naphthalene in ASLP	mg/L	0.001	GC.12 ASLP	<0.001	[NT]	[NT]	LCS-W1	98%
Acenaphthylene in ASLP	mg/L	0.001	GC.12 ASLP	<0.001	[NT]	[NT]	[NR]	[NR]
Acenaphthene in ASLP	mg/L	0.001	GC.12 ASLP	<0.001	[NT]	[NT]	[NR]	[NR]
Fluorene in ASLP	mg/L	0.001	GC.12 ASLP	<0.001	[NT]	[NT]	LCS-W1	109%
Phenanthrene in ASLP	mg/L	0.001	GC.12 ASLP	<0.001	[NT]	[NT]	LCS-W1	115%
Anthracene in ASLP	mg/L	0.001	GC.12 ASLP	<0.001	[NT]	[NT]	[NR]	[NR]
Fluoranthene in ASLP	mg/L	0.001	GC.12 ASLP	<0.001	[NT]	[NT]	LCS-W1	109%
Pyrene in ASLP	mg/L	0.001	GC.12 ASLP	<0.001	[NT]	[NT]	LCS-W1	121%
Benzo(a)anthracene in ASLP	mg/L	0.001	GC.12 ASLP	<0.001	[NT]	[NT]	[NR]	[NR]
Chrysene in ASLP	mg/L	0.001	GC.12 ASLP	<0.001	[NT]	[NT]	LCS-W1	111%
Benzo(b+k)fluoranthene in ASLP	mg/L	0.002	GC.12 ASLP	<0.002	[NT]	[NT]	[NR]	[NR]
Benzo(a)pyrene in ASLP	mg/L	0.001	GC.12 ASLP	<0.001	[NT]	[NT]	LCS-W1	112%
Indeno(1,2,3-c,d)pyrene - ASLP	mg/L	0.001	GC.12 ASLP	<0.001	[NT]	[NT]	[NR]	[NR]
Dibenzo(a,h)anthracene in ASLP	mg/L	0.001	GC.12 ASLP	<0.001	[NT]	[NT]	[NR]	[NR]
Benzo(g,h,i)perylene in ASLP	mg/L	0.001	GC.12 ASLP	<0.001	[NT]	[NT]	[NR]	[NR]
Surrogate p-Terphenyl-d14	%		GC.12	126	[NT]	[NT]	LCS-W1	106%

Report Comments:

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

Asbestos was authorised by Approved Signatory: Not applicable for this job

INS: Insufficient sample for this test NT: Not tested PQL: Practical Quantitation Limit <: Less than >: Greater than

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.

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

Aileen Hie

From: Jacinta Hurst
Sent: Friday, 30 July 2010 10:33 AM
To: Aileen Hie
Subject: FW: Results for registration '43819 - 41274, Tahmoor PESA'

Regards,

Jacinta Hurst
 Envirolab Services Pty Ltd
 12 Ashley St Chatswood NSW 2067
 T 02 9910 6200 F 02 9910 6201
 D 02 9910 6220 M 0407 00 3037
jhurst@envirolabservices.com.au | www.envirolabservices.com.au

43819 A
 due 21/8/10
 urgent T/A

From: Michael Parker [<mailto:MParker@jbgroup.com.au>]
Sent: Friday, 30 July 2010 10:26
To: Jacinta Hurst
Subject: FW: Results for registration '43819 - 41274, Tahmoor PESA'

Hi Jacinta

Could I please request an additional analysis for this sample batch. Could you please conduct TCLP and ASLP for heavy metals and PAHs on sample BH04-0.0-0.1. I will need the results by next Monday (24hr TAT).

13

Thanks

Michael Parker
 Environmental Scientist
 JBS Environmental Pty Ltd
 128 O'Riordan Street, Mascot, NSW, 2020
 (ph) 02 8338 1011 (fax) 02 8338 1700 www.jbgroup.com.au

If you would like to send me large electronic files (>10MB), please use JBS Environmental's secure Internet-based file delivery system located at <http://dropbox.yousendit.com/JBSENVIRONMENTAL>

This message is intended solely for the individual(s) and entity(s) addressed. It is confidential and may contain legally privileged information. The use, copying or distribution of this message or any information it contains, by anyone other than the addressee, is prohibited. If you have received this message in error, please notify the sender by return email at mparker@jbgroup.com.au

From: Sandra Taylor [<mailto:STaylor@envirolabservices.com.au>]
Sent: Thursday, 29 July 2010 5:33 PM
To: Michael Parker
Subject: FW: Results for registration '43819 - 41274, Tahmoor PESA'

Regards,

Sandra Taylor
 Envirolab Services Pty Ltd
 12 Ashley St Chatswood NSW 2067
 T 02 9910 6200 F 02 9910 6201
 D 02 9910 6236

30/07/2010



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 44230

Client:

JBS Environmental
P.O. Box 940
MASCOT
NSW 1460

Attention: Mike Parker

Sample log in details:

Your Reference:	<u>41274, Tahmoor PESA</u>
No. of samples:	2 Soils
Date samples received:	02/08/2010
Date completed instructions received:	02/08/2010

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.

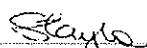
Please refer to the last page of this report for any comments relating to the results.

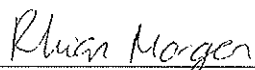
Report Details:

Date results requested by:	3/08/10
Date of Preliminary Report:	Not Issued
Issue Date:	3/08/10

NATA accreditation number 2901. This document shall not be reproduced except in full.
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:


Sandra Taylor
Senior Organic Chemist


Rhian Morgan
Metals Supervisor


Nancy Zhang
Chemist

EnviroLab Reference: 44230
Revision No: R 00



vTPH & BTEX in Soil		
Our Reference:	UNITS	44230-1
Your Reference	-----	SS01
Date Sampled	-----	07/31/2010
Type of sample		Soil
Date extracted	-	2/8/2010
Date analysed	-	3/8/2010
vTPH C ₆ - C ₉	mg/kg	<25
Benzene	mg/kg	<0.5
Toluene	mg/kg	<0.5
Ethylbenzene	mg/kg	<1.0
m+p-xylene	mg/kg	<2.0
o-Xylene	mg/kg	<1.0
Surrogate aaa-Trifluorotoluene	%	86

sTPH in Soil (C10-C36)		
Our Reference:	UNITS	44230-1
Your Reference	-----	SS01
Date Sampled	-----	07/31/2010
Type of sample		Soil
Date extracted	-	2/8/2010
Date analysed	-	2/8/2010
TPH C10 - C14	mg/kg	<50
TPH C15 - C28	mg/kg	<100
TPH C29 - C36	mg/kg	<100
Surrogate o-Terphenyl	%	118

PAHs in Soil	UNITS	44230-1
Our Reference:	-----	SS01
Your Reference	-----	07/31/2010
Date Sampled		Soil
Type of sample		
Date extracted	-	2/8/2010
Date analysed	-	3/8/2010
Naphthalene	mg/kg	<0.1
Acenaphthylene	mg/kg	<0.1
Acenaphthene	mg/kg	<0.1
Fluorene	mg/kg	<0.1
Phenanthrene	mg/kg	<0.1
Anthracene	mg/kg	<0.1
Fluoranthene	mg/kg	<0.1
Pyrene	mg/kg	<0.1
Benzo(a)anthracene	mg/kg	<0.1
Chrysene	mg/kg	<0.1
Benzo(b+k)fluoranthene	mg/kg	<0.2
Benzo(a)pyrene	mg/kg	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1
Surrogate p-Terphenyl-d14	%	95

Acid Extractable metals in soil		
Our Reference:	UNITS	44230-1
Your Reference	-----	SS01
Date Sampled	-----	07/31/2010
Type of sample		Soil
Date digested	-	03/08/2010
Date analysed	-	03/08/2010
Arsenic	mg/kg	9
Cadmium	mg/kg	<0.5
Chromium	mg/kg	13
Copper	mg/kg	1
Lead	mg/kg	12
Mercury	mg/kg	<0.1
Nickel	mg/kg	1
Zinc	mg/kg	41

Moisture		
Our Reference:	UNITS	44230-1
Your Reference	-----	SS01
Date Sampled	-----	07/31/2010
Type of sample		Soil
Date prepared	-	2/8/2010
Date analysed	-	2/8/2010
Moisture	%	13

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.
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 105 deg C for a minimum of 4 hours.

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
vTPH & BTEX in Soil						Base II Duplicate II %RPD		
Date extracted	-			2/8/2010	[NT]	[NT]	LCS-1	2/8/2010
Date analysed	-			3/8/2010	[NT]	[NT]	LCS-1	3/8/2010
vTPH C6 - C9	mg/kg	25	GC.16	<25	[NT]	[NT]	LCS-1	95%
Benzene	mg/kg	0.5	GC.16	<0.5	[NT]	[NT]	LCS-1	89%
Toluene	mg/kg	0.5	GC.16	<0.5	[NT]	[NT]	LCS-1	94%
Ethylbenzene	mg/kg	1	GC.16	<1.0	[NT]	[NT]	LCS-1	95%
m+p-xylene	mg/kg	2	GC.16	<2.0	[NT]	[NT]	LCS-1	98%
o-Xylene	mg/kg	1	GC.16	<1.0	[NT]	[NT]	LCS-1	100%
Surrogate aaa-Trifluorotoluene	%		GC.16	99	[NT]	[NT]	LCS-1	99%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
sTPH in Soil (C10-C36)						Base II Duplicate II %RPD		
Date extracted	-			2/8/2010	[NT]	[NT]	LCS-11	2/8/2010
Date analysed	-			2/8/2010	[NT]	[NT]	LCS-11	2/8/2010
TPH C10 - C14	mg/kg	50	GC.3	<50	[NT]	[NT]	LCS-11	90%
TPH C15 - C28	mg/kg	100	GC.3	<100	[NT]	[NT]	LCS-11	97%
TPH C29 - C36	mg/kg	100	GC.3	<100	[NT]	[NT]	LCS-11	77%
Surrogate o-Terphenyl	%		GC.3	124	[NT]	[NT]	LCS-11	72%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PAHs in Soil						Base II Duplicate II %RPD		
Date extracted	-			2/8/2010	[NT]	[NT]	LCS-9	2/8/2010
Date analysed	-			3/8/2010	[NT]	[NT]	LCS-9	3/8/2010
Naphthalene	mg/kg	0.1	GC.12 subset	<0.1	[NT]	[NT]	LCS-9	93%
Acenaphthylene	mg/kg	0.1	GC.12 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Acenaphthene	mg/kg	0.1	GC.12 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Fluorene	mg/kg	0.1	GC.12 subset	<0.1	[NT]	[NT]	LCS-9	101%
Phenanthrene	mg/kg	0.1	GC.12 subset	<0.1	[NT]	[NT]	LCS-9	100%
Anthracene	mg/kg	0.1	GC.12 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Fluoranthene	mg/kg	0.1	GC.12 subset	<0.1	[NT]	[NT]	LCS-9	95%
Pyrene	mg/kg	0.1	GC.12 subset	<0.1	[NT]	[NT]	LCS-9	100%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PAHs in Soil						Base II Duplicate II %RPD		
Benzo(a)anthracene	mg/kg	0.1	GC.12 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Chrysene	mg/kg	0.1	GC.12 subset	<0.1	[NT]	[NT]	LCS-9	103%
Benzo(b+k)fluoranthene	mg/kg	0.2	GC.12 subset	<0.2	[NT]	[NT]	[NR]	[NR]
Benzo(a)pyrene	mg/kg	0.05	GC.12 subset	<0.05	[NT]	[NT]	LCS-9	110%
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	GC.12 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	0.1	GC.12 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	0.1	GC.12 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Surrogate p-Terphenyl-d14	%		GC.12 subset	98	[NT]	[NT]	LCS-9	95%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Acid Extractable metals in soil						Base II Duplicate II %RPD		
Date digested	-			03/08/2010	[NT]	[NT]	LCS-1	03/08/2010
Date analysed	-			03/08/2010	[NT]	[NT]	LCS-1	03/08/2010
Arsenic	mg/kg	4	Metals.20 ICP-AES	<4	[NT]	[NT]	LCS-1	101%
Cadmium	mg/kg	0.5	Metals.20 ICP-AES	<0.5	[NT]	[NT]	LCS-1	99%
Chromium	mg/kg	1	Metals.20 ICP-AES	<1	[NT]	[NT]	LCS-1	100%
Copper	mg/kg	1	Metals.20 ICP-AES	<1	[NT]	[NT]	LCS-1	101%
Lead	mg/kg	1	Metals.20 ICP-AES	<1	[NT]	[NT]	LCS-1	100%
Mercury	mg/kg	0.1	Metals.21 CV-AAS	<0.1	[NT]	[NT]	LCS-1	6
Nickel	mg/kg	1	Metals.20 ICP-AES	<1	[NT]	[NT]	LCS-1	101%
Zinc	mg/kg	1	Metals.20 ICP-AES	<1	[NT]	[NT]	LCS-1	102%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank
Moisture				
Date prepared	-			2/8/201 0
Date analysed	-			2/8/201 0
Moisture	%	0.1	LAB.8	<0.10

Report Comments:

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

Asbestos was authorised by Approved Signatory: Not applicable for this job

INS: Insufficient sample for this test NT: Not tested PQL: Practical Quantitation Limit <: Less than >: Greater than

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.*

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



JBS Environmental Pty Ltd ABN 67 071 842 638
Phone: (02) 8338-1011
Fax: (02) 8338-1700
JMSO FormsO13 - Chain of Custody

Suite 2, 595 Gardeners Road MASCOT NSW 2020
PO Box 940 MASCOT NSW 1460
www.ibsgroup.com.au



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:

JBS Environmental
P.O. Box 940
MASCOT NSW 1460

ph: 8338 1013
Fax: 8338 1700

Attention: Mike Parker

Sample log in details:

Your reference:
Envirolab Reference:
Date received:
Date results expected to be reported:

41274, Tahmoor PESA
44230
02/08/2010
3/08/10

Samples received in appropriate condition for analysis:	YES
No. of samples provided	2 Soils
Turnaround time requested:	24hr
Temperature on receipt	Cool
Cooling Method:	Ice

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



ANALYTICAL REPORT

30 July 2010

JBS Environmental Pty Ltd

PO Box 940

MASCOT

NSW 1460

Attention: Mike Parker

Your Reference: 41274 - Tahmoor PESA

Our Reference: SE80091

Samples: 5 Soils

Received: 23/07/2010

Preliminary Report Sent: Not Issued

These samples were analysed in accordance with your written instructions.

For and on Behalf of:

SGS ENVIRONMENTAL SERVICES

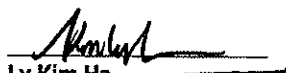
Sample Receipt: Angela Mamalicos

AU.SampleReceipt.Sydney@sgs.com

Production Manager: Huong Crawford

Huong.Crawford@sgs.com

Results Approved and/or Authorised by:


Ly Kim Ha
Organics Signatory


Huong Crawford
Metals Signatory



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VOCs in Soil - 72 List		
Our Reference:	UNITS	SE80091-1
Your Reference	-----	QC01A
Sample Matrix	-----	Soil
Date Sampled		20/07/2010
Date Extracted		27/07/2010
Date Analysed		27/07/2010
Dichlorodifluoromethane (CFC-12)	mg/kg	<1
Chloromethane	mg/kg	<1
Vinyl Chloride (chloroethene)	mg/kg	<0.1
Bromomethane	mg/kg	<1
Chloroethane	mg/kg	<1
Trichlorofluoromethane	mg/kg	<1
Acetone (2-propanone)	mg/kg	<10
1,1-Dichloroethene	mg/kg	<0.1
Methyl Iodine (iodomethane)	mg/kg	<5
Acrylonitrile	mg/kg	<0.1
Methylene Chloride (DCM)	mg/kg	<0.5
Allyl Chloride	mg/kg	<0.1
Carbon Disulphide	mg/kg	<0.5
<i>trans</i> -1,2-Dichloroethene	mg/kg	<0.1
Methyl-tert-butyl ether (MtBE)	mg/kg	<0.5
1,1-Dichloroethane	mg/kg	<0.1
2-Butanone (MEK)	mg/kg	<10
<i>cis</i> -1,2-Dichloroethene	mg/kg	<0.1
Bromochloromethane	mg/kg	<0.1
Chloroform	mg/kg	<0.1
2,2-Dichloropropane	mg/kg	<0.1
1,2-Dichloroethane	mg/kg	<0.1
1,1,1-Trichloroethane	mg/kg	<0.1
1,1-Dichloropropene	mg/kg	<0.1
Carbon tetrachloride	mg/kg	<0.1
Benzene	mg/kg	<0.1
Dibromomethane	mg/kg	<0.1
1,2-Dichloropropane	mg/kg	<0.1
Trichloroethene (TCE)	mg/kg	<0.1
2-Nitropropane	mg/kg	<10
Bromodichloromethane	mg/kg	<0.1
<i>cis</i> -1,3-Dichloropropene	mg/kg	<0.1
4-Methyl-2-Pentanone (MIBK)	mg/kg	<1
<i>trans</i> -1,3-Dichloropropene	mg/kg	<0.1
1,1,2-Trichloroethane	mg/kg	<0.1
Toluene	mg/kg	<0.1



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VOCs in Soil - 72 List Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ----- -----	SE80091-1 QC01A Soil 20/07/2010
1,3-Dichloropropane	mg/kg	<0.1
2-Hexanone (MBK)	mg/kg	<5
Dibromochloromethane	mg/kg	<0.1
1,2-Dibromoethane (EDB)	mg/kg	<0.1
Tetrachloroethene (PCE-perchloroethylen	mg/kg	<0.1
1,1,1,2-Tetrachloroethane	mg/kg	<0.1
Chlorobenzene	mg/kg	<0.1
Ethyl benzene	mg/kg	<0.1
Bromoform	mg/kg	<0.1
<i>m/p</i> -Xylenes	mg/kg	<0.2
Cis-1,4-dichloro-2-butene	mg/kg	<1
Styrene (vinyl benzene)	mg/kg	<0.1
1,1,2,2-Tetrachloroethane	mg/kg	<0.1
<i>o</i> -Xylene	mg/kg	<0.1
1,2,3-Trichloropropane	mg/kg	<0.1
Trans-1,4-dichloro-2-butene	mg/kg	<1
Isopropylbenzene (Cumene)	mg/kg	<0.1
Bromobenzene	mg/kg	<0.1
<i>n</i> -Propylbenzene	mg/kg	<0.1
2-Chlorotoluene	mg/kg	<0.1
4-Chlorotoluene	mg/kg	<0.1
1,3,5-Trimethylbenzene	mg/kg	<0.1
<i>tert</i> -Butylbenzene	mg/kg	<0.1
1,2,4-Trimethylbenzene	mg/kg	<0.1
<i>sec</i> -Butylbenzene	mg/kg	<0.1
1,3-Dichlorobenzene	mg/kg	<0.1
1,4-Dichlorobenzene	mg/kg	<0.1
<i>p</i> -Isopropyl toluene	mg/kg	<0.1
1,2-Dichlorobenzene	mg/kg	<0.1
<i>n</i> -Butylbenzene	mg/kg	<0.1
1,2-Dibromo-3-chloropropane	mg/kg	<0.1
1,2,4-Trichlorobenzene	mg/kg	<0.1
Naphthalene	mg/kg	<0.1
Hexachlorobutadiene	mg/kg	<0.1
1,2,3-Trichlorobenzene	mg/kg	<0.1
Vinyl acetate	mg/kg	<10
Dibromofluoromethane	%	98
1,2-Dichloroethane-d4	%	99
Toluene-d8 Surrogate 2	%	112



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VOCs in Soil - 72 List	UNITS	SE80091-1
Our Reference:	-----	QC01A
Your Reference	-----	Soil
Sample Matrix		20/07/2010
Date Sampled		
4-Bromofluorobenzene <i>Surrogate 3</i>	%	74



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TRH in soil with C6-C9 by P/T Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ----- -----	SE80091-1 QC01A Soil 20/07/2010
Date Extracted (TRH C6-C9 PT)		26/07/2010
Date Analysed (TRH C6-C9 PT)		26/07/2010
TRH C6 - C9 P&T	mg/kg	<20
Date Extracted (TRH C10-C36)		28/07/2010
Date Analysed (TRH C10-C36)		28/07/2010
TRH C10 - C14	mg/kg	<20
TRH C15 - C28	mg/kg	<50
TRH C29 - C36	mg/kg	<50



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PAHs in Soil Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ----- -----	SE80091-1 QC01A Soil 20/07/2010
Date Extracted		28/07/2010
Date Analysed		28/07/2010
Naphthalene	mg/kg	<0.10
2-Methylnaphthalene	mg/kg	<0.10
1-Methylnaphthalene	mg/kg	<0.10
Acenaphthylene	mg/kg	<0.10
Acenaphthene	mg/kg	<0.10
Fluorene	mg/kg	<0.10
Phenanthrene	mg/kg	<0.10
Anthracene	mg/kg	<0.10
Fluoranthene	mg/kg	<0.10
Pyrene	mg/kg	<0.10
Benzo[a]anthracene	mg/kg	<0.10
Chrysene	mg/kg	<0.10
Benzo[b,k]fluoranthene	mg/kg	<0.20
Benzo[a]pyrene	mg/kg	<0.05
Indeno[123-cd]pyrene	mg/kg	<0.10
Dibenzo[ah]anthracene	mg/kg	<0.10
Benzo[ghi]perylene	mg/kg	<0.10
Total PAHs (sum)	mg/kg	<1.7
Nitrobenzene-d5	%	72
2-Fluorobiphenyl	%	77
p -Terphenyl-d14	%	71



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OC Pesticides in Soil Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ----- -----	SE80091-1 QC01A Soil 20/07/2010
Date Extracted		28/07/2010
Date Analysed		28/07/2010
HCB	mg/kg	<0.1
<i>alpha</i> -BHC	mg/kg	<0.1
gamma-BHC (Lindane)	mg/kg	<0.1
Heptachlor	mg/kg	<0.1
Aldrin	mg/kg	<0.1
<i>beta</i> -BHC	mg/kg	<0.1
<i>delta</i> -BHC	mg/kg	<0.1
Heptachlor Epoxide	mg/kg	<0.1
<i>o,p</i> -DDE	mg/kg	<0.1
<i>alpha</i> -Endosulfan	mg/kg	<0.1
<i>trans</i> -Chlordane (<i>gamma</i>)	mg/kg	<0.1
<i>cis</i> -Chlordane (<i>alpha</i>)	mg/kg	<0.1
<i>trans</i> -Nonachlor	mg/kg	<0.1
<i>p,p</i> -DDE	mg/kg	<0.1
Dieldrin	mg/kg	<0.1
Endrin	mg/kg	<0.1
<i>o,p</i> -DDD	mg/kg	<0.1
<i>o,p</i> -DDT	mg/kg	<0.1
<i>beta</i> -Endosulfan	mg/kg	<0.1
<i>p,p</i> -DDD	mg/kg	<0.1
<i>p,p</i> -DDT	mg/kg	<0.1
Endosulfan Sulphate	mg/kg	<0.1
Endrin Aldehyde	mg/kg	<0.1
Methoxychlor	mg/kg	<0.1
Endrin Ketone	mg/kg	<0.1
2,4,5,6-Tetrachloro-m-xylene (<i>Surrogate</i>)	%	103



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OP Pesticides in Soil by GCMS Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ----- -----	SE80091-1 QC01A Soil 20/07/2010
Date Extracted		28/07/2010
Date Analysed		28/07/2010
Dichlorvos	mg/kg	<1
Dimethoate	mg/kg	<1
Diazinon	mg/kg	<0.5
Fenitrothion	mg/kg	<0.2
Malathion	mg/kg	<0.20
Chlorpyrifos-ethyl	mg/kg	<0.2
Parathion-ethyl	mg/kg	<0.2
Bromofos-ethyl	mg/kg	<0.2
Methidathion	mg/kg	<0.5
Ethion	mg/kg	<0.2
Azinphos-methyl	mg/kg	<0.20
2-fluorobiphenyl (Surr)	%	77
d14-p-Terphenyl (Surr)	%	71



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PCBs in Soil Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ----- -----	SE80091-1 QC01A Soil 20/07/2010
Date Extracted		28/07/2010
Date Analysed		28/07/2010
Arochlor 1016	mg/kg	<0.1
Arochlor 1221	mg/kg	<0.1
Arochlor 1232	mg/kg	<0.1
Arochlor 1242	mg/kg	<0.1
Arochlor 1248	mg/kg	<0.1
Arochlor 1254	mg/kg	<0.1
Arochlor 1260	mg/kg	<0.1
Arochlor 1262	mg/kg	<0.1
Arochlor 1268	mg/kg	<0.1
Total Positive PCB	mg/kg	<0.90
PCB_Surrogate 1	%	103



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Metals in Soil by ICP-OES Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ----- -----	SE80091-1 QC01A Soil 20/07/2010
Date Extracted (Metals)		28/07/2010
Date Analysed (Metals)		28/07/2010
Arsenic	mg/kg	<3
Cadmium	mg/kg	<0.3
Chromium	mg/kg	6.5
Copper	mg/kg	9.4
Lead	mg/kg	12
Nickel	mg/kg	3.1
Zinc	mg/kg	88



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Mercury Cold Vapor/Hg Analyser		
Our Reference:	UNITS	SE80091-1
Your Reference	-----	QC01A
Sample Matrix	-----	Soil
Date Sampled		20/07/2010
Date Extracted (Mercury)		28/07/2010
Date Analysed (Mercury)		28/07/2010
Mercury	mg/kg	<0.05



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Moisture		
Our Reference:	UNITS	SE80091-1
Your Reference	-----	QC01A
Sample Matrix	-----	Soil
Date Sampled		20/07/2010
Date Analysed (moisture)		27/07/2010
Moisture	%	12



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Method ID	Methodology Summary
AN433	Volatile Organic Compounds - Soil samples are extracted with methanol, purged and concentrated by a purge and trap apparatus, and then analysed using GC/MS technique. Water samples undergo the same analysis without the extraction step. Based on USEPA 5030B and 8260B.
SEO-019	Volatile Organic Compounds - Soil samples are extracted with methanol, purged and concentrated by a purge and trap apparatus, and then analysed using GC/MS technique. Water samples undergo the same analysis without the extraction step. Based on USEPA 5030B and 8260B.
SEO-018	BTEX / C6-C9 Hydrocarbons - Soil samples are extracted with methanol, purged and concentrated by a purge and trap apparatus, and then analysed using GC/MS technique. Water samples undergo the same analysis without the extraction step. Based on USEPA 5030B and 8260B.
SEO-020	Total Recoverable Hydrocarbons - determined by solvent extraction with dichloromethane / acetone for soils and dichloromethane for waters, followed by instrumentation analysis using GC/FID. Where applicable Solid Phase Extraction Manifold technique is used for aliphatic / aromatic fractionation.
SEO-030	Polynuclear Aromatic Hydrocarbons - determined by solvent extraction with dichloromethane / acetone for soils and dichloromethane for waters, followed by instrumentation analysis using GC/MS SIM mode.
SEO-005	OC/OP/PCB - Determination of a suite of Organochlorine Pesticides, Chlorinated Organo-phosphorus Pesticides and Polychlorinated Biphenyls (PCB's) by liquid-liquid extraction using dichloromethane for waters, or mechanical extraction using acetone / hexane for soils, followed by instrumentation analysis using GC/ECD. Based on USEPA 8081/8082.
AN420	Semi-Volatile Organic Compounds (SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates, and Speciated Phenols in soils, sediments and waters are determined by GCMS/ECD/FID technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).
SEM-010	Determination of elements by ICP-OES following appropriate sample preparation / digestion process. Based on USEPA 6010C / APHA 21st Edition, 3120B.
SEM-005	Mercury - determined by Cold-Vapour AAS following appropriate sample preparation or digestion process. Based on APHA 21st Edition, 3112B.
AN002	Preparation of soils, sediments and sludges undergo analysis by either air drying, compositing, subsampling and 1:5 soil water extraction where required. Moisture content is determined by drying the sample at 105 ± 5°C.



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
VOCs in Soil - 72 List								
Date Extracted				27/07/10	[NT]	[NT]	LCS	27/07/10
Date Analysed				27/07/10	[NT]	[NT]	LCS	27/07/10
Dichlorodifluoromethane (CFC-12)	mg/kg	1.0	AN433	<1	[NT]	[NT]	[NR]	[NR]
Chloromethane	mg/kg	1.0	AN433	<1	[NT]	[NT]	[NR]	[NR]
Vinyl Chloride (chloroethene)	mg/kg	0.1	AN433	<0.1	[NT]	[NT]	[NR]	[NR]
Bromomethane	mg/kg	1.0	AN433	<1	[NT]	[NT]	[NR]	[NR]
Chloroethane	mg/kg	1.0	AN433	<1	[NT]	[NT]	[NR]	[NR]
Trichlorofluoromethane	mg/kg	1.0	AN433	<1	[NT]	[NT]	[NR]	[NR]
Acetone (2-propanone)	mg/kg	10	AN433	<10	[NT]	[NT]	[NR]	[NR]
1,1-Dichloroethene	mg/kg	0.1	AN433	<0.1	[NT]	[NT]	LCS	96%
Methyl Iodine (iodomethane)	mg/kg	5	AN433	<5	[NT]	[NT]	[NR]	[NR]
Acrylonitrile	mg/kg	0.1	AN433	<0.1	[NT]	[NT]	[NR]	[NR]
Methylene Chloride (DCM)	mg/kg	0.5	AN433	<0.5	[NT]	[NT]	[NR]	[NR]
Allyl Chloride	mg/kg	0.1	AN433	<0.1	[NT]	[NT]	[NR]	[NR]
Carbon Disulphide	mg/kg	0.5	AN433	<0.5	[NT]	[NT]	[NR]	[NR]
trans-1,2-Dichloroethene	mg/kg	0.1	AN433	<0.1	[NT]	[NT]	[NR]	[NR]
Methyl-tert-butyl ether (MtBE)	mg/kg	0.5	AN433	<0.5	[NT]	[NT]	[NR]	[NR]
1,1-Dichloroethane	mg/kg	0.1	AN433	<0.1	[NT]	[NT]	[NR]	[NR]
2-Butanone (MEK)	mg/kg	10	AN433	<10	[NT]	[NT]	[NR]	[NR]
cis-1,2-Dichloroethene	mg/kg	0.1	AN433	<0.1	[NT]	[NT]	[NR]	[NR]
Bromochloromethane	mg/kg	0.1	AN433	<0.1	[NT]	[NT]	[NR]	[NR]
Chloroform	mg/kg	0.1	AN433	<0.1	[NT]	[NT]	LCS	85%
2,2-Dichloropropane	mg/kg	0.1	AN433	<0.1	[NT]	[NT]	[NR]	[NR]
1,2-Dichloroethane	mg/kg	0.1	AN433	<0.1	[NT]	[NT]	LCS	96%
1,1,1-Trichloroethane	mg/kg	0.1	AN433	<0.1	[NT]	[NT]	[NR]	[NR]
1,1-Dichloropropene	mg/kg	0.1	AN433	<0.1	[NT]	[NT]	[NR]	[NR]
Carbon tetrachloride	mg/kg	0.1	AN433	<0.1	[NT]	[NT]	[NR]	[NR]
Benzene	mg/kg	0.1	AN433	<0.1	[NT]	[NT]	LCS	84%
Dibromomethane	mg/kg	0.1	AN433	<0.1	[NT]	[NT]	[NR]	[NR]
1,2-Dichloropropane	mg/kg	0.1	AN433	<0.1	[NT]	[NT]	[NR]	[NR]
Trichloroethene (TCE)	mg/kg	0.1	AN433	<0.1	[NT]	[NT]	LCS	92%
2-Nitropropane	mg/kg	10	AN433	<10	[NT]	[NT]	[NR]	[NR]
Bromodichloromethane	mg/kg	0.1	AN433	<0.1	[NT]	[NT]	[NR]	[NR]



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
VOCs in Soil - 72 List								
<i>cis</i> -1,3-Dichloropropane	mg/kg	0.1	AN433	<0.1	[NT]	[NT]	[NR]	[NR]
4-Methyl-2-Pentanone (MIBK)	mg/kg	1.0	AN433	<1	[NT]	[NT]	[NR]	[NR]
<i>trans</i> -1,3-Dichloropropane	mg/kg	0.1	AN433	<0.1	[NT]	[NT]	[NR]	[NR]
1,1,2-Trichloroethane	mg/kg	0.1	AN433	<0.1	[NT]	[NT]	[NR]	[NR]
Toluene	mg/kg	0.1	AN433	<0.1	[NT]	[NT]	LCS	96%
1,3-Dichloropropane	mg/kg	0.1	AN433	<0.1	[NT]	[NT]	[NR]	[NR]
2-Hexanone (MBK)	mg/kg	5	AN433	<5	[NT]	[NT]	[NR]	[NR]
Dibromochloromethane	mg/kg	0.1	AN433	<0.1	[NT]	[NT]	[NR]	[NR]
1,2-Dibromoethane (EDB)	mg/kg	0.1	AN433	<0.1	[NT]	[NT]	[NR]	[NR]
Tetrachloroethene (PCE-perchloroethylen	mg/kg	0.1	AN433	<0.1	[NT]	[NT]	[NR]	[NR]
,1,2-Tetrachloroethane	mg/kg	0.1	AN433	<0.1	[NT]	[NT]	[NR]	[NR]
Chlorobenzene	mg/kg	0.1	AN433	<0.1	[NT]	[NT]	LCS	108%
Ethyl benzene	mg/kg	0.1	AN433	<0.1	[NT]	[NT]	LCS	109%
Bromoform	mg/kg	0.1	AN433	<0.1	[NT]	[NT]	[NR]	[NR]
<i>m/p</i> -Xylenes	mg/kg	0.2	AN433	<0.2	[NT]	[NT]	LCS	109%
Cis-1,4-dichloro-2-butene	mg/kg	1	AN433	<1	[NT]	[NT]	[NR]	[NR]
Styrene (vinyl benzene)	mg/kg	0.1	AN433	<0.1	[NT]	[NT]	[NR]	[NR]
1,1,2,2-Tetrachloroethane	mg/kg	0.1	AN433	<0.1	[NT]	[NT]	[NR]	[NR]
<i>o</i> -Xylene	mg/kg	0.1	AN433	<0.1	[NT]	[NT]	LCS	97%
1,2,3-Trichloropropane	mg/kg	0.1	AN433	<0.1	[NT]	[NT]	[NR]	[NR]
Trans-1,4-dichloro-2-butene	mg/kg	1.0	AN433	<1	[NT]	[NT]	[NR]	[NR]
Isopropylbenzene (Cumene)	mg/kg	0.1	AN433	<0.1	[NT]	[NT]	[NR]	[NR]
Bromobenzene	mg/kg	0.1	AN433	<0.1	[NT]	[NT]	[NR]	[NR]
<i>n</i> -Propylbenzene	mg/kg	0.1	AN433	<0.1	[NT]	[NT]	[NR]	[NR]
2-Chlorotoluene	mg/kg	0.1	AN433	<0.1	[NT]	[NT]	[NR]	[NR]
4-Chlorotoluene	mg/kg	0.1	AN433	<0.1	[NT]	[NT]	[NR]	[NR]
1,3,5-Trimethylbenzene	mg/kg	0.1	AN433	<0.1	[NT]	[NT]	[NR]	[NR]
<i>tert</i> -Butylbenzene	mg/kg	0.1	AN433	<0.1	[NT]	[NT]	[NR]	[NR]
1,2,4-Trimethylbenzene	mg/kg	0.1	AN433	<0.1	[NT]	[NT]	[NR]	[NR]
<i>sec</i> -Butylbenzene	mg/kg	0.1	AN433	<0.1	[NT]	[NT]	[NR]	[NR]
1,3-Dichlorobenzene	mg/kg	0.1	AN433	<0.1	[NT]	[NT]	[NR]	[NR]
1,4-Dichlorobenzene	mg/kg	0.1	AN433	<0.1	[NT]	[NT]	[NR]	[NR]
<i>p</i> -Isopropyl toluene	mg/kg	0.1	AN433	<0.1	[NT]	[NT]	[NR]	[NR]



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
VOCs in Soil - 72 List								
1,2-Dichlorobenzene	mg/kg	0.1	AN433	<0.1	[NT]	[NT]	[NR]	[NR]
n-Butylbenzene	mg/kg	0.1	AN433	<0.1	[NT]	[NT]	[NR]	[NR]
1,2-Dibromo-3-chloropropane	mg/kg	0.1	AN433	<0.1	[NT]	[NT]	[NR]	[NR]
1,2,4-Trichlorobenzene	mg/kg	0.1	AN433	<0.1	[NT]	[NT]	[NR]	[NR]
Naphthalene	mg/kg	0.1	AN433	<0.1	[NT]	[NT]	[NR]	[NR]
Hexachlorobutadiene	mg/kg	0.1	AN433	<0.1	[NT]	[NT]	[NR]	[NR]
1,2,3-Trichlorobenzene	mg/kg	0.1	AN433	<0.1	[NT]	[NT]	[NR]	[NR]
Vinyl acetate	mg/kg	10	AN433	<10	[NT]	[NT]	[NR]	[NR]
Dibromofluoromethane	%	0	SEO-019	87	[NT]	[NT]	LCS	90%
1,2-Dichloroethane-d4	%	0	SEO-019	85	[NT]	[NT]	LCS	94%
Toluene-d8 Surrogate 2	%	0	SEO-019	98	[NT]	[NT]	LCS	103%
4-Bromofluorobenzene Surrogate 3	%	0	SEO-019	77	[NT]	[NT]	LCS	77%

QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
TRH in soil with C6-C9 by P/T								
Date Extracted (TRH C6-C9 PT)				26/07/10	[NT]	[NT]	LCS	26/07/10
Date Analysed (TRH C6-C9 PT)				26/07/10	[NT]	[NT]	LCS	26/07/10
TRH C6 - C9 P&T	mg/kg	20	SEO-018	<20	[NT]	[NT]	LCS	102%
Date Extracted (TRH C10-C36)				28/07/2010	[NT]	[NT]	LCS	28/07/2010
Date Analysed (TRH C10-C36)				28/07/2010	[NT]	[NT]	LCS	28/07/2010
TRH C10 - C14	mg/kg	20	SEO-020	<20	[NT]	[NT]	LCS	112%
TRH C15 - C28	mg/kg	50	SEO-020	<50	[NT]	[NT]	LCS	122%
TRH C29 - C36	mg/kg	50	SEO-020	<50	[NT]	[NT]	LCS	121%



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
PAHs in Soil								
Date Extracted				28/07/2010	[NT]	[NT]	LCS	28/07/2010
Date Analysed				28/07/2010	[NT]	[NT]	LCS	28/07/2010
Naphthalene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	LCS	70%
2-Methylnaphthalene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	[NR]	[NR]
1-Methylnaphthalene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	[NR]	[NR]
Acenaphthylene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	LCS	71%
Acenaphthene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	LCS	89%
Fluorene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	[NR]	[NR]
Phenanthrene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	LCS	83%
Anthracene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	LCS	90%
Fluoranthene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	LCS	80%
Pyrene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	LCS	90%
Benzo[a]anthracene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	[NR]	[NR]
Chrysene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	[NR]	[NR]
Benzo[b,k]fluoranthene	mg/kg	0.2	SEO-030	<0.20	[NT]	[NT]	[NR]	[NR]
Benzo[a]pyrene	mg/kg	0.05	SEO-030	<0.05	[NT]	[NT]	LCS	68%
Indeno[123-cd]pyrene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	[NR]	[NR]
Dibenzo[a,h]anthracene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	[NR]	[NR]
Benzo[ghi]perylene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	[NR]	[NR]
Total PAHs (sum)	mg/kg	1.75	SEO-030	<1.7	[NT]	[NT]	[NR]	[NR]
Nitrobenzene-d5	%	0	SEO-030	68	[NT]	[NT]	LCS	87%
2-Fluorobiphenyl	%	0	SEO-030	85	[NT]	[NT]	LCS	71%
p -Terphenyl-d14	%	0	SEO-030	69	[NT]	[NT]	LCS	65%



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
OC Pesticides in Soil								
Date Extracted				28/07/2010	[NT]	[NT]	LCS	28/07/2010
Date Analysed				28/07/2010	[NT]	[NT]	LCS	28/07/2010
HCB	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>alpha</i> -BHC	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
gamma-BHC (Lindane)	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Heptachlor	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	LCS	104%
Aldrin	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	LCS	96%
<i>beta</i> -BHC	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>delta</i> -BHC	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	LCS	83%
Heptachlor Epoxide	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>o,p</i> -DDE	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>alpha</i> -Endosulfan	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>trans</i> -Chlordane (<i>gamma</i>)	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>cis</i> -Chlordane (<i>alpha</i>)	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>trans</i> -Nonachlor	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>p,p</i> -DDE	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Dieldrin	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	LCS	104%
Endrin	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	LCS	116%
<i>o,p</i> -DDD	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>o,p</i> -DDT	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>beta</i> -Endosulfan	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>p,p</i> -DDD	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>p,p</i> -DDT	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	LCS	107%
Endosulfan Sulphate	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Endrin Aldehyde	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Methoxychlor	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Endrin Ketone	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
2,4,5,6-Tetrachloro- <i>m</i> -xy lene (<i>Surrogate</i>)	%	0	SEO-005	93	[NT]	[NT]	LCS	90%



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
OP Pesticides in Soil by GCMS								
Date Extracted				28/07/2010	[NT]	[NT]	LCS	28/07/2010
Date Analysed				28/07/2010	[NT]	[NT]	LCS	28/07/2010
Dichlorvos	mg/kg	1	AN420	<1	[NT]	[NT]	LCS	80%
Dimethoate	mg/kg	1	AN420	<1	[NT]	[NT]	[NR]	[NR]
Diazinon	mg/kg	0.5	AN420	<0.5	[NT]	[NT]	LCS	69%
Fenitrothion	mg/kg	0.2	AN420	<0.2	[NT]	[NT]	[NR]	[NR]
Malathion	mg/kg	0.2	AN420	<0.20	[NT]	[NT]	[NR]	[NR]
Chlorpyrifos-ethyl	mg/kg	0.2	AN420	<0.2	[NT]	[NT]	LCS	81%
Parathion-ethyl	mg/kg	0.2	AN420	<0.2	[NT]	[NT]	[NR]	[NR]
Bromofos-ethyl	mg/kg	0.2	AN420	<0.2	[NT]	[NT]	[NR]	[NR]
Methidathion	mg/kg	0.5	AN420	<0.5	[NT]	[NT]	[NR]	[NR]
Ethion	mg/kg	0.2	AN420	<0.2	[NT]	[NT]	LCS	64%
Azinphos-methyl	mg/kg	0.2	AN420	<0.20	[NT]	[NT]	[NR]	[NR]
2-fluorobiphenyl (Surr)	%	0	AN420	85	[NT]	[NT]	LCS	80%
d14-p-Terphenyl (Surr)	%	0	AN420	69	[NT]	[NT]	LCS	65%

QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
PCBs in Soil								
Date Extracted				28/07/2010	[NT]	[NT]	LCS	28/07/2010
Date Analysed				28/07/2010	[NT]	[NT]	LCS	28/07/2010
Arochlor 1016	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1221	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1232	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1242	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1248	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1254	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1260	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	LCS	122%
Arochlor 1262	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1268	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Total Positive PCB	mg/kg	0.9	SEO-005	<0.90	[NT]	[NT]	[NR]	[NR]
PCB_Surrogate 1	%	0	SEO-005	93	[NT]	[NT]	LCS	94%



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Metals in Soil by ICP-OES								
Date Extracted (Metals)				28/07/2010	[NT]	[NT]	LCS	28/07/2010
Date Analysed (Metals)				28/07/2010	[NT]	[NT]	LCS	28/07/2010
Arsenic	mg/kg	3	SEM-010	<3	[NT]	[NT]	LCS	108%
Cadmium	mg/kg	0.3	SEM-010	<0.3	[NT]	[NT]	LCS	103%
Chromium	mg/kg	0.3	SEM-010	<0.3	[NT]	[NT]	LCS	107%
Copper	mg/kg	0.5	SEM-010	<0.5	[NT]	[NT]	LCS	107%
Lead	mg/kg	1	SEM-010	<1	[NT]	[NT]	LCS	104%
Nickel	mg/kg	0.5	SEM-010	<0.5	[NT]	[NT]	LCS	108%
Zinc	mg/kg	0.5	SEM-010	<0.5	[NT]	[NT]	LCS	105%

QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Mercury Cold Vapor/Hg Analyser								
Date Extracted (Mercury)				28/07/2010	[NT]	[NT]	LCS	28/07/2010
Date Analysed (Mercury)				28/07/2010	[NT]	[NT]	LCS	28/07/2010
Mercury	mg/kg	0.05	SEM-005	<0.05	[NT]	[NT]	LCS	107%

QUALITY CONTROL	UNITS	LOR	METHOD	Blank
Hold sample-NO test required				
Sample on HOLD		[NT]		[NT]

QUALITY CONTROL	UNITS	LOR	METHOD	Blank
Moisture				
Date Analysed (moisture)				[NT]
Moisture	%	1	AN002	<1



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Result Codes

[INS] : Insufficient Sample for this test
[NR] : Not Requested
[NT] : Not tested
[LOR] : Limit of reporting

[RPD] : Relative Percentage Difference
* : Not part of NATA Accreditation
[N/A] : Not Applicable

Report Comments

Samples analysed as received. Solid samples expressed on a dry weight basis.

Date Organics extraction commenced:

NATA Corporate Accreditation No. 2562, Site No 4354

Note: Test results are not corrected for recovery (excluding Air-toxics and Dioxins/Furans*)

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Quality Control Protocol

Method Blank: An analyte free matrix to which all reagents are added in the same volume or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. A method blank is prepared every 20 samples.

Duplicate: A separate portion of a sample being analysed that is treated the same as the other samples in the batch. One duplicate is processed at least every 10 samples.

Surrogate Spike: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are added to samples before extraction to monitor extraction efficiency and percent recovery in each sample.

Internal Standard: Added to all samples requiring analysis for organics (where relevant) or metals by ICP after the extraction/digestion process; the compounds/elements serve to give a standard of retention time and/or response, which is invariant from run-to-run with the instruments.

Laboratory Control Sample: A known matrix spiked with compound(s) representative of the target analytes. It is used to document laboratory performance. When the results of the matrix spike analysis indicates a potential problem due to the sample matrix itself, the LCS results are used to verify that the laboratory can perform the analysis in a clean matrix.

Matrix Spike: An aliquot of sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Quality Acceptance Criteria

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: <http://www.au.sgs.com/sgs-mp-au-env-qu-022-qa-qc-plan-en-09.pdf>



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SECRET

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100

AU.SampleReceipt.Sydney (Sydney)

From: Michael Parker [MParker@jbsgroup.com.au]
Sent: Monday, 26 July 2010 10:18 AM
To: AU.SampleReceipt.Sydney (Sydney)
Subject: RE: 41274 - Tahmoor PESA (SGS SE80091)

Dear Karla

No ASLP or TCLP is required at this stage.

Kind regards

Michael Parker
Environmental Scientist
JBS Environmental Pty Ltd
128 O'Riordan Street, Mascot, NSW, 2020
(ph) 02 8338 1011 (fax) 02 8338 1700 www.jbsgroup.com.au

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From: AU.SampleReceipt.Sydney (Sydney) [mailto:AU.SampleReceipt.Sydney@sgs.com]
Sent: Monday, 26 July 2010 10:17 AM
To: Michael Parker
Subject: 41274 - Tahmoor PESA (SGS SE80091)

Dear Mike,

On the attached COC you have specified ASLP and TCLP for 8 Heavy Metals & PAH, however it has not been ticked for analysis. I just want to confirm with you if you require these analysis.

Kind Regards

Karla Pereira
Environmental Services
Sample Administration

SGS Australia Pty Ltd
Unit 16, 33 Maddox St
Alexandria, NSW, 2015

Phone: +61 (0)2 8594 0400
Fax: +61 (0)2 8594 0499
E-mail: au.samplereceipt.sydney@sgs.com

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26/07/2010



SAMPLE RECEIPT ADVICE (SRA)

26 July 2010

Client Details

Requested By : **Mike Parker**
Client : JBS Environmental Pty Ltd
Contact : Michael Parker
Address : PO Box 940
MASCOT NSW 1460

Email : mparker@jbgroup.com.au
Telephone : 02 8338 1013
Facsimile : 02 8338 1700

Project : 41274 - Tahmoor PESA
Order Number :
Samples : 5 Soils

Laboratory Details

Laboratory : SGS Environmental Services
Manager : Edward Ibrahim
Address : Unit 16, 33 Maddox Street
Alexandria NSW 2015

Email : au.samplerreceipt.sydney@sgs.com
Telephone : 61 2 8594 0400
Facsimile : 61 2 8594 0499

Report No : **SE80091**
No. of Samples : 5
Due Date : 30/07/2010

Date Instructions Received : 23/07/2010
Sample Receipt Date : 23/07/2010

Samples received in good order	: YES	Samples received in correct containers	: YES
Samples received without headspace	: YES	Sufficient quantity supplied	: YES
Upon receipt sample temperature	: Cool	Cooling Method	: Ice Pack
Sample containers provided by	: Other Lab	Samples clearly Labelled	: YES
Turnaround time requested	: Standard	Completed documentation received	: YES

Samples will be held for 1 month for water samples and 3 months for soil samples from date of receipt of samples, unless otherwise instructed.

Comments

To the extent not inconsistent with the other provisions of this document and unless specifically agreed otherwise in writing by SGS, all SGS services are rendered in accordance with the applicable SGS General Conditions of Service accessible at http://www.sgs.com/terms_and_conditions.htm as at the date of this document. Attention is drawn to the limitations of liability and to the clauses of indemnification.

The signed chain of custody will be returned to you with the original report.



SAMPLE RECEIPT ADVICE (SRA) - continued

Client : JBS Environmental Pty Ltd
Project : 41274 - Tahmoor PESA

Report No : SE80091

Summary of Samples and Requested Analysis

The table below represents SGS Environmental Service's understanding and interpretation of the customer supplied sample request.

Please indicate ASAP if your request differs from these details.

Testing shall commence immediately as per this table, unless the customer intervenes with a correction prior to testing.

Note that a small X in the table below indicates some testing has not been requested in the package.

Sample No.	Description	Metals Prep, soil 8 HM	VOCs in Soil-SGS Nat. 72 List	TRH in soil with C6-C9 by P/T	PAHs in Soil	OC Pesticides in Soil	OP Pesticides in Soil by GCMS	PCBs in Soil	Metals in Soil by ICP-OES	Mercury Cold Vapor/Hg Analyser	Hold sample-NO test required	Moisture
1	QC01A	X	X	X	X	X	X	X	X	X		X
2	QC02A										X	
3	QC03A										X	
4	QC04A										X	
5	QC05A										X	

Sample No.	Description
1	QC01A
2	QC02A
3	QC03A
4	QC04A
5	QC05A



26 July 2010

Mr M. Parker
JBS Environmental
PO Box 940
MASCOT NSW 1460

Fax: 8338-1700

CERTIFICATE OF ANALYSIS – ASBESTOS IDENTIFICATION**YOUR REFERENCE/JOB No.:** 41274**TYPE OF SAMPLES:** Bulk sample - as received from Envirolab Services**SITE LOCATION:** Tahmoor PESA**DATE SAMPLED:** 20 July 2010**DATE RECEIVED:** 23 July 2010**OUR REFERENCE:** 63254-ID

TEST METHOD: Soil samples examined by Stereomicroscopy and Polarized Light Microscopy (with Dispersion Staining) in accordance with AS 4964-2004: - 'Method for the qualitative identification of asbestos in bulk samples' as outlined in Laboratory Method ID/1. The Reporting Limit for the results in this Certificate is numerically equal to the lowest detection limit of 0.1 g/kg. Trace asbestos analysis has been conducted on each sample, which is generally designed to detect 'respirable' asbestos fibres (ie less than 3 micrometres in width) distributed throughout the sample.

All sampling and site work have been undertaken by the client - the analytical procedures and results reported on this Certificate have been conducted by Pickford & Rhyder Consulting.

Sample No	Lab No	Sample Information	Analysis Result	Description
QC01A	63254	Soil sample as received	no asbestos detected	The sample was a brown soil with stones and insect and plant matter, of approximate weight 27 g, in which organic fibres were detected. No asbestos fibres were found at the Reporting Limit of 0.1 g/kg.

Analysed and reported by:

K. Grose,
Approved Identifier and Signatory.



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Accreditation number 2515

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Appendix L
Procedure B Calculations

Normal & Lognormal Distribution Calculations

Assuptions:

- (a) = the number of samples that should have been collected to account for the results observed.
 (b) = you are 95% confident that all the results are below this value.

To Use:

Enter Site Name Here:
 Place Analyte Names in Titles.
 Enter values for analytes from D19 down.
 Change Regulatory Threshold (RT) Values in Normal Distribution Table.
 Printout relevant tables.

Use of Normal or Lognormal Distribution

Normal distribution can be applied to many forms of data distributions including those that are not normally distributed. This is based on the Central Limit Theorem which states that sample means tend to exhibit a normal distribution even though the entire data is not normally distributed. However if the Coefficient of Variation (CV) is greater than 1.2 then tests support the hypothesis of a lognormal distribution (Gilbert, 1987).

CV = standard deviation / mean

0.4483964	0.3388695	0.5369406	0.3569263	0.7162289	0.6174628	0.9838379	1.6567443	0.8288341	
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	Depth	Population (Clay, Weathered Shale, Shale)	Date	Arsenic	Chromium (III+VI)	Copper	Lead	Nickel	Zinc	TPH C10 - C36 (Sum of total)	Benzo(a) pyrene	PAHs (Sum of total)	
BH01	0 - 0.1	FILL	20-Jul-10	2	7	7	14	3	71	125	0.025	0.775	
BH02	0 - 0.1	FILL	20-Jul-10	2	9	30	22	18	110	125	0.025	0.775	
BH03	0 - 0.1	FILL	20-Jul-10	4	10	32	14	9	140	125	0.025	0.775	
BH04	0 - 0.1	FILL	20-Jul-10	7	19	36	23	18	220	125	0.025	0.775	
BH05	0 - 0.1	FILL	20-Jul-10	7	12	38	24	23	85	125	0.3	3.7	
BH06	0 - 0.1	FILL	21-Jul-10	8	19	20	20	5	24	125	0.025	0.775	
BH07	0 - 0.1	FILL	21-Jul-10	2	7	5	11	3	32	125	0.025	0.775	
BH08	0 - 0.1	FILL	21-Jul-10	5	14	14	22	7	100	125	0.025	0.775	
BH09	0 - 0.1	FILL	21-Jul-10	6	16	13	21	8	150	720	0.025	0.775	
BH09	0.5 - 0.6	FILL	21-Jul-10	4	17	23	21	4	29	125	0.025	0.775	
BH11	0 - 0.1	FILL	21-Jul-10	4	11	11	41	4	190	125	0.025	0.775	
BH15	0 - 0.1	FILL	21-Jul-10	7	11	32	19	17	75	125	0.025	0.775	

Highlighted = Hotspot concentration
 When concentration <LOR half LOR assigned

Normal Distribution - Tahmoor - FILL

	Arsenic	Chromium (III+VI)	Copper	Lead	Nickel	Zinc	TPH C10 - C36 (Sum of total)	Benzo(a) pyrene	PAHs (Sum of total)
Number of samples (n)	12	12	12	12	12	12	12	12	12
Minimum Concentration (ppm)	2	7	5	11	3	24	125	0.025	0.775
Maximum Concentration (ppm)	8	19	38	41	23	220	720	0.3	3.7
Arithmetic Mean (x)	4.833	12.667	21.750	21.000	9.917	102.167	174.583	0.048	1.019
Sample Standard Deviation (s)	2.167	4.292	11.678	7.495	7.103	63.084	171.762	0.079	0.844
Sample Variance (s ²)	4.697	18.424	136.386	56.182	50.447	3979.606	29502.083	0.006	0.713
Degrees of freedom (n=n-1)	11	11	11	11	11	11	11	11	11
t (for n, a=5%)	1.796	1.796	1.796	1.796	1.796	1.796	1.796	1.796	1.796
Threshold Concentration	100	120000	1000	300	600	7000	1000	1	20
95% UCL of Arithmetic Mean (CI=x+(ts/On)	5.957	14.892	27.804	24.886	13.599	134.871	263.629	0.089	1.456

Appropriate no. of samples	0.00322	0.00000	0.00088	0.00447	0.00090	0.00052	0.26847	0.04310	0.01227
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Selected Distribution based on CV and data set

Normal & Lognormal Distribution Calculations

Assumptions:

- (a) = the number of samples that should have been collected to account for the results observed.
 (b) = you are 95% confident that all the results are below this value.

To Use:

Enter Site Name Here:
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 Change Regulatory Threshold (RT) Values in Normal Distribution Table.
 Printout relevant tables.

Use of Normal or Lognormal Distribution

Normal distribution can be applied to many forms of data distributions including those that are not normally distributed. This is based on the Central Limit Theorem which states that sample means tend to exhibit a normal distribution even though the entire data is not normally distributed. However if the Coefficient of Variation (CV) is greater than 1.2 then tests support the hypothesis of a lognormal distribution (Gilbert, 1987).

CV = standard deviation / mean

0.7375636	0.6743307	1.6171305	0.5439162	0.8957493	1.052842				
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	Depth	Population (Clay, Weathered Shale, Shale)	Date	Arsenic	Chromium (III+VI)	Copper	Lead	Nickel	Zinc				
BH02	0.3 - 0.4	CLAYEY SAND	20-Jul-10	2	4	1	6	1	2				
BH10	0.3 - 0.4	SANDSTONE	21-Jul-10	5	14	0.5	10	2	4				
BH12	0.3 - 0.4	SILTY CLAY	21-Jul-10	10	23	16	26	6	40				
BH13	0 - 0.1	CLAYEY SAND	21-Jul-10	2	6	3	10	2	11				
BH14	0 - 0.1	SAND	21-Jul-10	2	5	1	12	1	8				
SS01	0 - 0.1	CLAYEY SAND	31-Jul-10	9	13	1	12	1	14				

Highlighted = Hotspot concentration
 When concentration <LOR half LOR assigned

Normal Distribution - Tahmoor - NATURAL

	Arsenic	Chromium (III+VI)	Copper	Lead	Nickel	Zinc
Number of samples (n)	6	6	6	6	6	6
Minimum Concentration (ppm)	2	4	0.5	6	1	2
Maximum Concentration (ppm)	10	23	16	26	6	40
Arithmetic Mean (x)	5.000	10.833	3.750	12.667	2.167	13.167
Sample Standard Deviation (s)	3.688	7.305	6.064	6.890	1.941	13.862
Sample Variance (s ²)	13.600	53.367	36.775	47.467	3.767	192.167
Degrees of freedom (n=n-1)	5	5	5	5	5	5
t (for n , a=5%)	2.015	2.015	2.015	2.015	2.015	2.015
Threshold Concentration	100	120000	1000	300	600	7000
95% UCL of Arithmetic Mean (CI=x+(ts/Ön)	8.034	16.843	8.739	18.334	3.763	24.570
Appropriate no. of samples	0.00934	0.00000	0.00023	0.00356	0.00007	0.00002

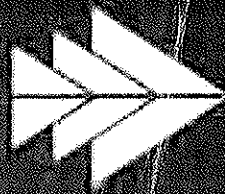
Selected Distribution based on CV and data set

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Document Status

Rev No.	Author	Reviewer	Approved for Issue		
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