



Government of **Western Australia**
Department of **Environment and Conservation**

Your ref:
Our ref:
Enquiries: DEC7019
Phone: Registrar
Fax: 1300 762982
Email:

Ed Newman
Sorby Management Pty Ltd
Level 3, 2 Elizabeth Plaza
North Sydney WA 2060

BY: _____

Dear Sir/Madam

BASIC SUMMARY OF RECORDS REQUEST

Thank you for your Basic Summary of Records ("BSR") request for the site consisting of the following parcel(s) of land:

- LOT 896 ON PLAN 208779 as shown on certificate of title LR3142/905 known as Lot 896 Reginald St, Wyndham WA 6740
- LOT 719 ON PLAN 172093 as shown on certificate of title LR3142/904 known as Lot 719 Barytes Rd, Wyndham WA 6740
- LOT 600 ON PLAN 207828 as shown on certificate of title LR3142//902 known as Lot 600 Wyndham WA 6740

which Department of Environment and Conservation ("DEC") received on 02/05/2012

A search of DEC's records of known and suspected contaminated sites was undertaken and the results of the search are attached for your information.

A guide on how to interpret the BSR response is also attached for your information.

General information on a Summary of Records and associated request forms is available from DEC's website on www.dec.wa.gov.au/contaminatedsites or by contacting the Registrar on 1300 762982.

Yours sincerely

Andrew Miller, Section Manager
CONTAMINATED SITES BRANCH
Delegated Officer under section 91
of the *Contaminated Sites Act 2003*

07/05/2012

Enc. Basic Summary of Records x 3
Guide to interpreting the Basic Summary of Records
Receipt Number DEC11064

DIRECTOR GENERAL AND ENVIRONMENTAL SERVICES DIVISIONS: The Atrium, 168 St Georges Terrace, Perth, Western Australia 6000
Phone: (08) 6467 5000 Fax: (08) 6467 5562

PARKS AND CONSERVATION SERVICES DIVISIONS: Executive: Corner of Australia II Drive and Hackett Drive, Crawley, Western Australia 6009
Phone: (08) 9442 0300 Fax: (08) 9386 1578 Operations: 17 Dick Perry Avenue, Technology Park, Kensington, Western Australia 6151
Phone: (08) 9219 8000 Fax: (08) 9334 0498

POSTAL ADDRESS FOR ALL DIVISIONS: Locked Bag 104, Bentley Delivery Centre, Western Australia 6983

Information Request
CSSID = 2982

www.dec.wa.gov.au
wa.gov.au

XDECL001



Contaminated Sites Act 2003
Basic Summary of Records Search Response

Report Generated at: 4:49:03PM, 07/05/2012

Receipt No. DEC110

Search Results

This response relates to a search request received for:

1730 Reginald St
Wyndham WA 6740

This parcel belongs to a site that contains 2 parcel(s).

According to Department of Environment and Conservation records, this land has been reported as a known or suspected contaminated site.

Address	1730 Reginald St Wyndham WA 6740
Lot on Plan Address	Lot 719 On Plan 172093
Parcel Status	<p>Classification: 02/08/2011 - Contaminated - restricted use</p> <p>Nature and Extent of Contamination:</p> <p>Hydrocarbons (such as from petrol, diesel or oil) are present in soil at the site.</p> <p>Hydrocarbons (such as from petrol, diesel or oil) and lead are present in groundwater beneath the site.</p> <p>Restrictions on Use:</p> <p>The land use of the site is restricted to commercial/industrial use, (which excludes childcare centres, kindergartens, pre-schools and primary schools) provided that any buildings constructed on site do not have basements (i.e. buildings area constructed with slab on grade). The site should not be developed for a more sensitive use such as recreational open space, residential use or childcare centres without further contamination assessment and/or remediation.</p> <p>Other than for analytical testing or remediation, groundwater abstraction is not permitted at this site because of the nature and extent of groundwater contamination.</p> <p>Reason for Classification:</p> <p>This site was reported to the Department of Environment and Conservation (DEC) as per reporting obligations under section 11 of the 'Contaminated Sites Act 2003', which commenced on 1 December 2006. The site classification is based on information submitted to DEC by May 2011.</p> <p>This site was used as a fuel storage depot for, for approximately 35 years, from the early 1960s to 1999. This is a land use that has the potential to cause contamination, as specified in the guideline 'Potentially Contaminating Activities, Industries and Landuses' (Department of Environment, 2004).</p> <p>The fuel depot at the site was decommissioned in 1999 and environmental assessments,</p>

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Contaminated Sites Act 2003 Basic Summary of Records Search Response

Report Generated at: 4:49:03PM, 07/05/2012

including soil and groundwater testing, were carried out following the removal of site infrastructure in 2008. These investigations found that hydrocarbons (such as from petrol/diesel/oil) were present in soils at concentrations exceeding Ecological Investigation Levels, and in some locations, also exceeding Health-based Investigation Levels for commercial and industrial sites as published in 'Assessment Levels for Soil, Sediment and Water' (DEC, 2010).

Hydrocarbons (such as from petrol, diesel or oil) and lead were present in groundwater beneath the site at concentrations exceeding marine guidelines, as published in 'Assessment Levels for Soil, Sediment and Water' (DEC, 2010). However, an intermediate environmental risk assessment indicated that, due to the low permeability of the clay soils beneath the site, soil and groundwater contamination at the site does not pose an unacceptable risk to the marine environment to the west of the site.

A Detailed Health Risk Assessment has indicated that the contamination present on the site does not pose an unacceptable risk to human health under the proposed commercial/industrial land use for the site, provided any future buildings are constructed with slab on grade (i.e. without basements). However, the contamination may present an unacceptable risk to human health under a more sensitive land use.

Based on the information provided, the site appears suitable for continued commercial/industrial use, but may not be suitable for more sensitive land uses.

As the site is suitable for the current landuse, but may not be suitable for a more sensitive landuse, the site has been classified as 'contaminated - restricted use'.

A memorial stating the site's classification has been placed on the Certificate of Title, and will trigger the need for further investigations and risk assessment should the site be proposed for a more sensitive land use.

DEC, in consultation with the Department of Health, has classified this site based on the information available to DEC at the time of classification. It is acknowledged that the contamination status of the site may have changed since the information was collated and/or submitted to DEC, and as such, the usefulness of this information may be limited.

Under the Contaminated Sites Act 2003, this site has been classified as "contaminated - restricted use". For further information on the contamination status of this site, please contact the Contaminated Sites Branch of the Department of Environment & Conservation.

Certificate of Title
Memorial

Current Regulatory
Notice Issued

Type of Regulatory Notice: Nil

Date Issued: Nil

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Department of
Environment
and Conservation

Contaminated Sites Act 2003
Basic Summary of Records Search Response

Report Generated at: 4:49:03PM, 07/05/2012

General

Disclaimer

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Contaminated Sites Act 2003
Basic Summary of Records Search Response

Report Generated at: 4:33:59PM, 07/05/2012

Receipt No. DEC110

Search Results

This response relates to a search request received for:

1730 Reginald St
Wyndham WA 6740

This parcel belongs to a site that contains 2 parcel(s).

According to Department of Environment and Conservation records, this land has been reported as a known or suspected contaminated site.

Address	1730 Reginald St Wyndham WA 6740
Lot on Plan Address	Lot 896 On Plan 208779
Parcel Status	<p>Classification: 02/08/2011 - Contaminated - restricted use</p> <p>Nature and Extent of Contamination:</p> <p>Hydrocarbons (such as from petrol, diesel or oil) are present in soil at the site.</p> <p>Hydrocarbons (such as from petrol, diesel or oil) and lead are present in groundwater beneath the site.</p> <p>Restrictions on Use:</p> <p>The land use of the site is restricted to commercial/industrial use, (which excludes childcare centres, kindergartens, pre-schools and primary schools) provided that any buildings constructed on site do not have basements (i.e. buildings area constructed with slab on grade). The site should not be developed for a more sensitive use such as recreational open space, residential use or childcare centres without further contamination assessment and/or remediation.</p> <p>Other than for analytical testing or remediation, groundwater abstraction is not permitted at this site because of the nature and extent of groundwater contamination.</p> <p>Reason for Classification:</p> <p>This site was reported to the Department of Environment and Conservation (DEC) as per reporting obligations under section 11 of the 'Contaminated Sites Act 2003', which commenced on 1 December 2006. The site classification is based on information submitted to DEC by May 2011.</p> <p>This site was used as a fuel storage depot for, for approximately 35 years, from the early 1960s to 1999. This is a land use that has the potential to cause contamination, as specified in the guideline 'Potentially Contaminating Activities, Industries and Landuses' (Department of Environment, 2004).</p> <p>The fuel depot at the site was decommissioned in 1999 and environmental assessments,</p>

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Contaminated Sites Act 2003 Basic Summary of Records Search Response

Report Generated at: 4:33:59PM, 07/05/2012

including soil and groundwater testing, were carried out following the removal of site infrastructure in 2008. These investigations found that hydrocarbons (such as from petrol/diesel/oil) were present in soils at concentrations exceeding Ecological Investigation Levels, and in some locations, also exceeding Health-based Investigation Levels for commercial and industrial sites as published in 'Assessment Levels for Soil, Sediment and Water' (DEC, 2010).

Hydrocarbons (such as from petrol, diesel or oil) and lead were present in groundwater beneath the site at concentrations exceeding marine guidelines, as published in 'Assessment Levels for Soil, Sediment and Water' (DEC, 2010). However, an intermediate environmental risk assessment indicated that, due to the low permeability of the clay soils beneath the site, soil and groundwater contamination at the site does not pose an unacceptable risk to the marine environment to the west of the site.

A Detailed Health Risk Assessment has indicated that the contamination present on the site does not pose an unacceptable risk to human health under the proposed commercial/industrial land use for the site, provided any future buildings are constructed with slab on grade (i.e. without basements). However, the contamination may present an unacceptable risk to human health under a more sensitive land use.

Based on the information provided, the site appears suitable for continued commercial/industrial use, but may not be suitable for more sensitive land uses.

As the site is suitable for the current landuse, but may not be suitable for a more sensitive landuse, the site has been classified as 'contaminated - restricted use'.

A memorial stating the site's classification has been placed on the Certificate of Title, and will trigger the need for further investigations and risk assessment should the site be proposed for a more sensitive land use.

DEC, in consultation with the Department of Health, has classified this site based on the information available to DEC at the time of classification. It is acknowledged that the contamination status of the site may have changed since the information was collated and/or submitted to DEC, and as such, the usefulness of this information may be limited.

Under the Contaminated Sites Act 2003, this site has been classified as "contaminated - restricted use". For further information on the contamination status of this site, please contact the Contaminated Sites Branch of the Department of Environment & Conservation.

Type of Regulatory Notice: Nil

Date Issued: Nil

Certificate of Title
Memorial

Current Regulatory
Notice Issued

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Contaminated Sites Act 2003
Basic Summary of Records Search Response

Report Generated at: 5:04:44PM, 07/05/2012

Receipt No. DEC110

Search Results

This response relates to a search request received for:

1730 Reginald St
Wyndham WA 6740

This parcel belongs to a site that contains 2 parcel(s).

According to Department of Environment and Conservation records, this land has been reported as a known or suspected contaminated site.

Address	1730 Reginald St Wyndham WA 6740
Lot on Plan Address	Wyndham Townsite Lot 600
Parcel Status	<p>Classification: 04/10/2010 - Possibly contaminated - investigation required</p> <p>Nature and Extent of Contamination:</p> <p>Lead remains in soil beneath the concentrate storage shed and in the surrounding areas on the site.</p> <p>Heavy metals, including nickel, lead, zinc and copper are present in the sediments of the eastern mud flats near the concentrate storage shed.</p> <p>Restrictions on Use:</p> <p>Please refer to Reasons for Classification for further information on the contamination present at the site.</p> <p>Reason for Classification:</p> <p>This site was originally reported to the Department of Environment and Conservation (DEC) prior to the commencement of the 'Contaminated Sites Act 2003', and was reported again as per reporting obligations under section 11 of the Act in May 2007 and again in July 2007. The site classification is based on information submitted to DEC by August 2010.</p> <p>This site is currently used for port activities and has been operating as such from approximately 1988. This land use has the potential to cause contamination, as specified in the guideline 'Potentially Contaminating Activities, Industries and Landuses' (Department of Environment, 2004).</p> <p>The site was originally classified under the Act, on 16 August 2007, as 'possibly contaminated - investigation required'. Further site investigation reports have been submitted to DEC since this classification, and these reasons for classification consider the updated information presented in these reports.</p> <p>A soil investigation conducted in 1997 found heavy metals in mudflats and drainage lines in the vicinity of the storage shed, located on the eastern portion of the site.</p>

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Contaminated Sites Act 2003 Basic Summary of Records Search Response

Report Generated at: 5:04:44PM, 07/05/2012

Ecological and human health risk assessments were undertaken in 1998 to derive site-specific clean up levels, and determined that the only soils that required remediation were soils that contained lead concentrations above the derived clean-up levels. The derived clean-up levels were below Health-based Investigation Levels for commercial and industrial sites, as published in 'Assessment Levels for Soil, Sediment and Water' (Department of Environment, 2003).

Remedial works (involving excavation and off-site disposal) were carried out between December 1999 and October 2002, and all accessible lead contamination exceeding the site-specific clean-up levels was successfully removed. However, limited residual lead contaminated soil remains beneath the concrete slab floor of the concentrate storage shed and in areas surrounding the shed. A majority of soil samples that exceeded the derived site specific cleanup levels also exceeded Health-based Investigation Levels for commercial and industrial sites, as published in 'Assessment Levels for Soil, Sediment and Water' (Department of Environment, 2003).

In May 2003 the Department confirmed that the Site was suitable for ongoing industrial use as a port/harbour.

Multiple sediment investigations including a detailed site investigation, which included sediment sampling, have been conducted between July 2006 and June 2009. The investigations identified heavy metals, including copper, lead, nickel and zinc, at levels exceeding Interim Sediment Quality Guidelines - Low and High, as published in 'Assessment Levels for Soil, Sediment and Water' (Department of Environment, 2003). The sediment investigations carried out were limited and do not meet the standard required as outlined in the Departments "Contaminated Sites Management Series " guidelines.

The analytical results from the detailed site investigation conducted between July 2006 and September 2007 were used to determine ecological risk. The assessment however, was not suitable and further investigations and interpretation of results are required.

Multiple surface water investigations conducted between December 2007 and January 2009 identified heavy metals in surface water at concentrations exceeding Aquatic Ecosystems - Marine, as published in 'Assessment Levels for Soil, Sediment and Water' (Department of Environment, 2003).

Further soil, sediment, surface water and groundwater investigations are required to determine the contamination status of the soils across the whole site.

Based on the information provided, the site appears suitable for continued commercial/industrial use, but may not be suitable for more sensitive land uses (such as recreational open space, residential housing, child care centres).

As there are grounds to indicate possible contamination of the site, and since a suitable investigation of soil, sediment, surface water and groundwater and a risk assessment to determine the risk to human health, the environment, or any environmental value has not been carried out, further works are required to determine the contamination status of the site and the site is therefore classified as 'possibly contaminated - investigation required'.

DEC, in consultation with the Department of Health, has classified this site based on the

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Contaminated Sites Act 2003
Basic Summary of Records Search Response

Report Generated at: 5:04:44PM, 07/05/2012

Certificate of Title Memorial
Current Regulatory Notice Issued
General

information available to DEC at the time of classification. It is acknowledged that the contamination status of the site may have changed since the information was collated and/or submitted to DEC, and as such, the usefulness of this information may be limited.

In accordance with Department of Health advice, if groundwater is being or is proposed to be abstracted, DEC recommends that analytical testing should be carried out to determine whether the groundwater is suitable for its intended use.

Under the Contaminated Sites Act 2003, this site has been classified as "Possibly contaminated - investigation required". For further information on the contamination status of this site, please contact the Contaminated Sites section of the Department of Environment & Conservation.

Type of Regulatory Notice: Nil

Date Issued: Nil

Disclaimer


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Interpreting a summary of records

A summary of records will include information relating to a single cadastral parcel of land. Residential addresses are often comprised of one parcel of land, however a contaminated site may comprise one or more parcels of land, so if you require details on all of the parcels you will need to request a summary of records for each of those parcels.

Outlined below are the two types of summaries available - a 'basic' and 'detailed'.

Basic Summary of Records (BSR)

	<p align="right">Page 1 of 2</p> <p align="center">United States Environmental Protection Agency</p> <p align="center">Department of Environment</p> <p align="center">Basic Summary of Records Search Response</p> <p align="right">Report Generated at: 3/9/94 PM 1:46</p>
<p>1. Requester's Name</p>	<p>Requester's Name: [REDACTED]</p>
<p>2. Requester's Address</p>	<p>Requester's Address: [REDACTED]</p>
<p>3. Requester's Phone Number</p>	<p>Requester's Phone Number: [REDACTED]</p>
<p>4. Requester's E-mail Address</p>	<p>Requester's E-mail Address: [REDACTED]</p>
<p>5. Requester's Fax Number</p>	<p>Requester's Fax Number: [REDACTED]</p>
<p>6. Requester's Title</p>	<p>Requester's Title: [REDACTED]</p>
<p>7. Requester's Organization</p>	<p>Requester's Organization: [REDACTED]</p>
<p>8. Requester's Date of Birth</p>	<p>Requester's Date of Birth: [REDACTED]</p>
<p>9. Requester's Date of Death</p>	<p>Requester's Date of Death: [REDACTED]</p>
<p>10. Requester's Date of Birth</p>	<p>Requester's Date of Birth: [REDACTED]</p>

In the top right hand corner, the time and date of when the report (record) was generated is displayed. The information contained in the BSR is only valid for that time and date. Sites can be reclassified at any time as more information becomes available.

Below this is a receipt number, which may or may not be filled out as it depends on how the summary was ordered. Receipt numbers are provided when a prescribed fee is required to be paid.

Down the left hand side of the page is a list of key headings in boxes, which are described in detail below.

Search Results:

The parcel address to which the summary relates, followed by the amount of parcels included in that particular site.

e.g. this parcel of land belongs to a site that contains three parcels of land.

Address:

The parcel address

Parcel Status:

Contains four sections:

1. **Classification - What classification** has been given to the site (there are seven possible classifications under the Act).
2. **Nature and Extent of Contamination –** Briefly outlines where any known contamination is found on the site and what type of contamination it is. The nature and extent may differ between each parcel of the site.
3. **Reasons for Classification –** This is an explanation of the contamination issues that have been identified for that particular site. The information remains the same for each parcel of the site, as it is an overview of the whole site.

Information listed here may include:

- When and why the site was reported to the Department of Environment and Conservation (DEC) as a known or suspected contaminated site.
- What types of investigations have already been undertaken.
- Any past potentially contaminating activities.
- What contaminants of concern have been identified at the site.



- If the site has been remediated (partially or completely), and a brief description of what that remediation entailed.
- What assessment criteria were used to classify the site.
- Whether a memorial has been placed on the Certificate of Title.

4. **Restrictions on Use** – In some circumstances DEC will advise against certain activities being conducted on the parcel of land. Such restrictions may relate to the abstraction and use of groundwater, or preventing sensitive land uses such as residential landuse or schools from being established on the land.

Certificate of Title Memorial:

Four of the classifications under the Act (*Contaminated – remediation required*, *Contaminated – restricted use*, *Remediated for restricted use* and *Possibly contaminated – investigation required*) require a memorial be placed on the Certificate of Title, and DEC will instruct the Department of Land Information to do this. A memorial will also be placed on the Certificate of Title if a regulatory notice has been issued by DEC relating to the site. The actual wording on the memorial will be placed in this section.

Current Regulatory Notice Issued:

This section will detail if a regulatory notice has been issued against the site, or the site's owner. The information displayed will only show what type of notice has been issued (*hazard abatement*, *clean-up* or *an investigation notice*) and the date that the notice was issued. If no notice has been issued the word 'Nil' will be displayed.

General:

This section details any appeals lodged for that site, i.e. an appeal about the classification or an appeal regarding the parcel's inclusion at the site. The date the appeal was lodged will also be displayed, plus an instruction to contact the Contaminated Sites Committee for further information.

Detailed Summary of Records (DSR)

The DSR contains similar information to the BSR, however additional information is included.

Certificate of Contamination Audit:

This section details whether a certificate of contamination audit (CCA) has been issued for the site. The only information displayed on the actual DSR is the date the CCA was issued, however a copy of the CCA will be attached to the DSR.

Environmental Reports:

This section features a comprehensive list of the reports on the site held by DEC. The information will include the author, date and report title. Such reports may include management plans, sampling and analysis programs and any other information the DEC chief executive officer considers appropriate.

Contact DEC to view the documents and arrange a mutually convenient time.

Need more information?

DEC has published a series of fact sheets and administrative and technical guidelines to assist with the assessment, management and remediation of contaminated sites in Western Australia; these are available by going to www.dec.wa.gov.au/contaminatedsites.

Further information is available by mail from the address below or by calling the Contaminated Sites Section on 1300 762 982.

Contaminated Sites Section
Department of Environment and Conservation
Locked Bag 104
Bentley Delivery Centre WA 6983



Ed Newman
Sorby Management Pty Ltd
Level 3, 2 Elizabeth PLaza
North Sydney, NSW, 2060

Dear Mr Newman,

BASIC SUMMARY OF RECORDS REQUEST

Thank you for your Basic Summary of Records request for the site consisting of the following parcels of land:

- Lot 1272 on Plan 172093 as shown on certificate of title LR3142/908 known as Lot 1272 Barytes Rd, Wyndham WA 6740; and
- Lot 1737 on Plan 216431 as shown on certificate of title LR3142/912 known as Lot 1737 Reginald St, Wyndham WA 6740,

which the Department of Environment and Conservation (DEC) received on 2 May 2012.

DEC wrote to you on 11 May 2012 informing you that DEC holds information relating to the site, but as of 11 May 2012 the site had not been classified under the *Contaminated Sites Act 2003*. DEC has subsequently undertaken a review of the information available in relation to contamination at the above-mentioned properties (the site), and provides the following comments.

As at 24 August 2012 DEC has insufficient information to classify the site as a 'known or suspected contaminated site' under the *Contaminated Sites Act 2003*. However, reports detailing investigations for contamination at the adjacent bulk fuel facility, located at Lot 1 on Diagram 77060 and Lot 654 on Plan 207828, indicate that hydrocarbons (such as from petroleum fuels) may have migrated to affect the site. Specifically, groundwater monitoring conducted in 2004 (the most recent data available to DEC) identified low levels of hydrocarbons (such as from diesel) in groundwater beneath both Lot 1272 and Lot 1737. However, based on the low concentrations detected, and the age of the data, DEC considers that further investigation is required to confirm these results.

On 21 August 2012 DEC classified Lot 1 and Lot 654 as 'possibly contaminated – investigation required' under the *Contaminated Sites Act 2003* based on the presence of petroleum hydrocarbons in soil and groundwater. For further information, please find enclosed a copy of the Basic Summary of Records response for Lot 1 and Lot 654. If further detailed information is required, you may wish to submit a Detailed Summary of Records request, along with the required fee of \$300, in order to view any technical reports relating to Lot 1 and Lot 654.

The classification of Lot 1 and Lot 654 requires that further investigation of soil and groundwater quality is undertaken, including determining the lateral extent of hydrocarbon-impacted groundwater. If, as a result of these investigations, or based on any other relevant information submitted to DEC, contamination is identified on Lot 1272 and/or Lot 1737, DEC will consider classifying the Lot(s) under the *Contaminated Sites Act 2003*.

Please contact Lomas Capelli, Environmental Officer of CSB, on 9333 7589 if you have any queries in relation to the above.

Yours sincerely



Kerry Laszig
MANAGER
CONTAMINATED SITES BRANCH

27 August 2012

Enclosed: Basic Summary of Records response for Lot 1 and Lot 654
 Fact Sheet 9 – Site classifications – what do they mean?



Contaminated Sites Act 2003
Basic Summary of Records Search Response

Our environment, our future



Report generated at 02:06:11PM, 27/08/2012

Receipt No: 052194

ID No: 13750

Search Results

This response relates to a search request received for:

1730 Reginald St
Wyndham, WA, 6740

This parcel belongs to a site that contains 2 parcel(s).

According to Department of Environment and Conservation records, this land has been reported as a known or suspected contaminated site.

Address	1730 Reginald St Wyndham, WA, 6740
Lot on Plan Address	Wyndham Townsite Lot 654
Parcel Status	<p>Classification: 21/08/2012 - <i>Possibly contaminated - investigation required</i></p> <p>Nature and Extent of Contamination:</p> <p>Hydrocarbons (such as from petrol/diesel/oil) are present in soils at various locations across the site.</p> <p>Hydrocarbons (such as from petrol/diesel/oil) and the heavy metal lead are present in groundwater beneath the site.</p> <p>Restrictions on Use:</p> <p>Due to the nature and extent of groundwater contamination identified to date, the abstraction of groundwater (other than for monitoring or remediation) is not recommended.</p> <p>Reason for Classification:</p> <p>This site was originally reported to the Department of Environment and Conservation (DEC) prior to the commencement of the 'Contaminated Sites Act 2003' (the Act), and was reported again as per reporting obligations under section 11 of the Act in May 2007. The site classification is based on information submitted to DEC by August 2012.</p> <p>This site, comprising two separate parcels (Lot 1 and Lot 654), has been used as a petroleum fuel storage and transfer facility since 1969. This is a land use that has the potential to cause contamination, as specified in the guideline 'Potentially Contaminating Activities, Industries and Landuses' (Department of Environment, 2004).</p> <p>Soil investigations conducted across the site in 1999 and 2004 identified hydrocarbons (such as from petrol/diesel/oil) at concentrations exceeding ecological investigation levels and, in the absence of speciation analysis, possibly health-based investigation levels for commercial and industrial sites, as published in 'Assessment Levels for Soil, Sediment and Water' (DEC, 2010). Benzene was identified in soil at one location on Lot 654 in 1999 at a concentration exceeding Health-based Investigation Levels for commercial and industrial sites, as published in 'Assessment Levels for Soil, Sediment and</p>

Disclaimer

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Contaminated Sites Act 2003

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Water' (DEC, 2010). DEC is not aware of any remedial works having been undertaken at the site to address the hydrocarbon-impacted soil identified in 1999 and 2004.

Groundwater monitoring, undertaken in 2004 (the most recent groundwater monitoring results available to DEC at the time of classification), identified free-phase hydrocarbons (such as pure petrol/diesel) on the surface of the groundwater in three locations on Lot 654. Benzene, naphthalene, xylenes and the heavy metal lead were detected in groundwater beneath Lot 654 exceeding Aquatic Ecosystems - Marine Guidelines, as published in 'Assessment Levels for Soil, Sediment and Water' (DEC, 2010). These are relevant criteria given the site's close proximity to the Cambridge Gulf marine ecosystem.

Groundwater monitoring undertaken on Lot 1 identified hydrocarbons (such as from diesel/oil) at concentrations exceeding Groundwater Intervention Values (Netherlands Ministry for Housing, Spatial Planning and Environment, 2000).

Groundwater monitoring undertaken in 2004 found that low-levels of hydrocarbons had migrated beyond the site's boundaries to affect other parcels of land. However, further monitoring is required to confirm these results.

Concentrations of contaminants have been found to exceed adopted assessment levels for commercial/industrial landuse and ecological investigation levels. A screening risk assessment has therefore indicated that further investigation is required to determine the risk to human health, the environment and environmental values.

As an appropriate Health Risk Assessment has not been carried out, DEC cannot comment on the suitability of the site for any landuse.

As there are grounds to indicate possible contamination of the site, and since further investigation of soil and groundwater is required and a risk assessment to determine the risk to human health, the environment, or any environmental value has not been carried out, further works are required to determine the contamination status of the site and the site is therefore classified as 'possibly contaminated - investigation required'.

When the results of further soil and groundwater investigations are submitted to DEC, these will be reviewed, and the site may be re-classified.

DEC, in consultation with the Department of Health, has classified this site based on the information available to DEC at the time of classification. It is acknowledged that the contamination status of the site may have changed since the information was collated and/or submitted to DEC, and as such, the usefulness of this information may be limited.

Action Required

Further soil and groundwater investigations are required to adequately delineate and characterise the nature and extent of soil and groundwater contamination across the site. Investigations should meet the standards outlined in the DEC's Contaminated Sites Management Series of guidelines.


If further investigation identifies off-site impacts, future reports on investigation, assessment, monitoring or remediation of the site which are submitted to DEC will need to be accompanied by a Mandatory Auditor's Report, in accordance with regulation 31(1)(b) of the Contaminated Sites Regulations 2006.

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Certificate of Title Memorial	Under the Contaminated Sites Act 2003, this site has been classified as "possibly contaminated - investigation required". For further information on the contamination status of this site, please contact the Contaminated Sites Branch of the Department of Environment & Conservation.
Current Regulatory Notice Issued	Type of Regulatory Notice: <i>Nil</i> Date Issued: <i>Nil</i>
General	No other information relating to this parcel.

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Report generated at 02:06:49PM, 27/08/2012

Receipt No: 052194

ID No: 13749

Search Results

This response relates to a search request received for:

1 Barytes Rd
Wyndham, WA, 6740

This parcel belongs to a site that contains 2 parcel(s).

According to Department of Environment and Conservation records, this land has been reported as a known or suspected contaminated site.


Address	1 Barytes Rd Wyndham, WA, 6740
Lot on Plan Address	Lot 1 On Diagram 77060
Parcel Status	<p>Classification: 21/08/2012 - <i>Possibly contaminated - investigation required</i></p> <p>Nature and Extent of Contamination:</p> <p>Hydrocarbons (such as from petrol/diesel/oil) are present in soils at various locations across the site.</p> <p>Hydrocarbons (such as from petrol/diesel/oil) and the heavy metal lead are present in groundwater beneath the site.</p> <p>Restrictions on Use:</p> <p>Due to the nature and extent of groundwater contamination identified to date, the abstraction of groundwater (other than for monitoring or remediation) is not recommended.</p> <p>Reason for Classification:</p> <p>This site was originally reported to the Department of Environment and Conservation (DEC) prior to the commencement of the 'Contaminated Sites Act 2003' (the Act), and was reported again as per reporting obligations under section 11 of the Act in May 2007. The site classification is based on information submitted to DEC by August 2012.</p> <p>This site, comprising two separate parcels (Lot 1 and Lot 654), has been used as a petroleum fuel storage and transfer facility since 1969. This is a land use that has the potential to cause contamination, as specified in the guideline 'Potentially Contaminating Activities, Industries and Landuses' (Department of Environment, 2004).</p> <p>Soil investigations conducted across the site in 1999 and 2004 identified hydrocarbons (such as from petrol/diesel/oil) at concentrations exceeding ecological investigation levels and, in the absence of speciation analysis, possibly health-based investigation levels for commercial and industrial sites, as published in 'Assessment Levels for Soil, Sediment and Water' (DEC, 2010). Benzene was identified in soil at one location on Lot 654 in 1999 at a concentration exceeding Health-based Investigation Levels for commercial and industrial sites, as published in 'Assessment Levels for Soil, Sediment and</p>

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Contaminated Sites Act 2003 **Basic Summary of Records Search Response**

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Water' (DEC, 2010). DEC is not aware of any remedial works having been undertaken at the site to address the hydrocarbon-impacted soil identified in 1999 and 2004.

Groundwater monitoring, undertaken in 2004 (the most recent groundwater monitoring results available to DEC at the time of classification), identified free-phase hydrocarbons (such as pure petrol/diesel) on the surface of the groundwater in three locations on Lot 654. Benzene, naphthalene, xylenes and the heavy metal lead were detected in groundwater beneath Lot 654 exceeding Aquatic Ecosystems - Marine Guidelines, as published in 'Assessment Levels for Soil, Sediment and Water' (DEC, 2010). These are relevant criteria given the site's close proximity to the Cambridge Gulf marine ecosystem.

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Groundwater monitoring undertaken in 2004 found that low-levels of hydrocarbons had migrated beyond the site's boundaries to affect other parcels of land. However, further monitoring is required to confirm these results.

Concentrations of contaminants have been found to exceed adopted assessment levels for commercial/industrial landuse and ecological investigation levels. A screening risk assessment has therefore indicated that further investigation is required to determine the risk to human health, the environment and environmental values.

As an appropriate Health Risk Assessment has not been carried out, DEC cannot comment on the suitability of the site for any landuse.

As there are grounds to indicate possible contamination of the site, and since further investigation of soil and groundwater is required and a risk assessment to determine the risk to human health, the environment, or any environmental value has not been carried out, further works are required to determine the contamination status of the site and the site is therefore classified as 'possibly contaminated - investigation required'.

When the results of further soil and groundwater investigations are submitted to DEC, these will be reviewed, and the site may be re-classified.

DEC, in consultation with the Department of Health, has classified this site based on the information available to DEC at the time of classification. It is acknowledged that the contamination status of the site may have changed since the information was collated and/or submitted to DEC, and as such, the usefulness of this information may be limited.

Action Required

Further soil and groundwater investigations are required to adequately delineate and characterise the nature and extent of soil and groundwater contamination across the site. Investigations should meet the standards outlined in the DEC's Contaminated Sites Management Series of guidelines.

If further investigation identifies off-site impacts, future reports on investigation, assessment, monitoring or remediation of the site which are submitted to DEC will need to be accompanied by a Mandatory Auditor's Report, in accordance with regulation 31(1)(b) of the Contaminated Sites Regulations 2006.

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Contaminated Sites Act 2003
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Report generated at 02:06:50PM, 27/08/2012

Certificate of Title Memorial	Under the Contaminated Sites Act 2003, this site has been classified as "possibly contaminated - investigation required". For further information on the contamination status of this site, please contact the Contaminated Sites Branch of the Department of Environment & Conservation.
Current Regulatory Notice Issued	Type of Regulatory Notice: Nil Date Issued: Nil
General	No other information relating to this parcel.

Disclaimer

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Site classifications - what do they mean?

What is a site classification?

A site classification is a description assigned to an area of land that has been reported to the Department of Environment and Conservation (DEC) as a site that is known or suspected to be contaminated. Under the *Contaminated Sites Act 2003* (Act), DEC can allocate any one of seven possible classifications to sites:

- 1. Report not substantiated** – there is not enough information to indicate that the site could be contaminated.
- 2. Possibly contaminated - investigation required** – there are grounds to indicate soil, groundwater and/or surface water at the site may be contaminated, however, more information is required to confirm or dismiss the possibility of contamination.
- 3. Not contaminated - unrestricted use** – after investigation, no contamination was found at the site.
- 4. Contaminated - restricted use** – the site is contaminated but suitable for limited uses (e.g. the site may be suitable for commercial use only, or for residential use provided groundwater bores are not used).
- 5. Remediated for restricted use** – the site was contaminated but has been cleaned up to a standard where it is suitable for limited uses (e.g. the site may be suitable for an apartment block, but not for a kindergarten).
- 6. Contaminated - remediation required** – the site is contaminated and needs to be cleaned up to ensure it does not present a risk to human health or the environment. This classification will remain until remediation is complete.
- 7. Decontaminated** – the site has been remediated and is suitable for all uses. It does not pose a risk to the environment or human health.

Remediation means 'cleaning' or removing contamination. It includes action taken to remove, destroy, reduce or contain any contaminant or its negative effects on the environment or human health, or to restore the site to the condition it was in before the contamination occurred. Remediation may involve restricting public access to an area or removing material for suitable waste disposal.

Some classifications have more serious ramifications than others. For example, sites classified as:

- *contaminated - remediation required*
- *contaminated - restricted use*
- *remediated for restricted use*
- *possibly contaminated - investigation required*

require DEC to place a memorial on the Certificate of Title. This alerts potential buyers and interested parties to the site's contamination status. For further information refer to Fact Sheet 14, *Buying, Selling or Occupying Contaminated Land*.

The Contaminated Sites Database on DEC's website has information on sites classified as:

- *contaminated - remediation required*
- *contaminated - restricted use*
- *remediated for restricted use*

Members of the public can access the database by going to www.dec.wa.gov.au/contaminatedsites

Information on all **other reported sites**, including those awaiting classification, is available by submitting a Form 2 to DEC. Forms are available for download on DEC's website www.dec.wa.gov.au/contaminatedsites. For further information refer to Fact Sheet 1, *How to Access Information on Contaminated Sites in Western Australia*.



How are sites classified?

Contamination, as defined by the Act, means having a substance on land, water or site above background concentrations and at high enough levels to present, or potentially present, a risk of harm to human health, the environment or any environmental value.

Background concentrations - substances that occur naturally due to the geology (rock formations and soil types) at a site. Establishing background concentrations will determine if any chemical substances detected are due to human activities at or near a site, or are representative of natural conditions in the area.

To classify a site, DEC is required to assess the levels of substances present in soil, groundwater and/or surface water at the site against accepted criteria. Contamination is generally deemed present or potentially present if there are specific substances recorded above concentrations listed in DEC's guideline, *Assessment Levels for Soil, Sediment and Water* which is available on DEC's website:

www.dec.wa.gov.au/contaminatedsites

All classifications are based on information available to DEC at the time of classification and take into account the relevant guidelines for site investigations and management.

The classification of a site may influence:

- the intended use of the land
- whether a memorial is registered on the Certificate of Title
- who is notified of the classification
- who may appeal against a site classification
- how information on the site can be accessed
- whether further work to investigate or clean up the site is required.

Notification of classification

The Act requires DEC to notify the following people of a reported site's classification:

- each owner of the site
- an occupier of the site
- any relevant public authority
- the person who reported the site
- those responsible for remediating the site where it is classified *contaminated – remediation required*
- any other person DEC has a particular reason to notify.

Changing a Classification

The classification of a site may be changed if:

- a site investigation is conducted in accordance with DEC guidelines supporting a different classification
- a new area or type of contamination is discovered
- contamination has been removed or cleaned up and a subsequent validation report has been reviewed and accepted by DEC
- the owner or occupier of a site successfully appeals against a classification.

Disclosure of Contaminated Sites Classification

Under the Act, owners of contaminated sites are required to inform any potential new owner, lessee or mortgagee at least 14 days before the completion of a transaction when a site is classified:

- *contaminated – remediation required*
- *contaminated – restricted use*
- *remediated for restricted use*

Disclosure is also required where an investigation, clean up or hazard abatement notice has been issued for a site.

The appropriate form (Form 6 – *Land Owner's Disclosure Before Completion of Land Transaction*) is available for download from DEC's website:

www.dec.wa.gov.au/contaminatedsites

A completed copy must also be submitted to DEC.

NEED MORE INFORMATION?

DEC has published a series of fact sheets and guidelines to assist with the assessment, management and remediation of contaminated sites in Western Australia. These are available on DEC's website:

www.dec.wa.gov.au/contaminatedsites

Further information is available by mail from the address below or by calling the Contaminated Sites Hotline on 1300 762 982.

Contaminated Sites Branch
Department of Environment and Conservation
Locked Bag 104
Bentley Delivery Centre WA 6983