



## Application for Works Approval Amendment

### Part V Division 3 of the *Environmental Protection Act 1986*

---

<b>Works Approval Number</b>	W6207/2018/1
<b>Works Approval Holder</b>	Q Stone Pty Ltd
<b>ACN</b>	612 873 177
<b>File Number</b>	DER2018/001042
<b>Premises</b>	Potts Road Quarry  Part of:  Lot 606 Plan 148004, Lot 3029 Plan 2839601, Lot 2643 Plan 150837, and Road Reserve 11712114  Potts Road, WELBUNGIN WA 6477  As defined by the Figure 1 attached to the Revised Works Approval
<b>Date of Report</b>	2 August 2023
<b>Decision</b>	Revised works approval granted

A/MANAGER, RESOURCE INDUSTRIES  
REGULATORY SERVICES

an officer delegated under section 20 of the *Environmental Protection Act 1986* (WA)

# Table of Contents

<b>1. Decision summary</b>	<b>1</b>
<b>2. Scope of assessment</b>	<b>1</b>
2.1 Regulatory framework	1
2.2 Application summary and overview of premises	1
<b>3. Risk assessment</b>	<b>2</b>
3.1 Source-pathways and receptors	2
3.1.1 Emissions and controls	2
3.1.2 Receptors	3
3.2 Risk ratings	5
<b>4. Consultation</b>	<b>7</b>
<b>5. Conclusion</b>	<b>7</b>
5.1 Summary of amendments	7
<b>References</b>	<b>9</b>
<b>Appendix 2: Application validation summary</b>	<b>10</b>
Table 1: Proposed throughput capacity changes	1
Table 2: Works Approval Holder controls	2
Table 3: Sensitive human and environmental receptors and distance from prescribed activity	3
Table 4: Risk assessment of potential emissions and discharges from the Premises during construction and operation	6
Table 5: Consultation	7
Table 6: Summary of works approval amendments	7
Figure 1: Distance to sensitive receptors from proposed expanded premises boundary	4

# 1. Decision summary

Works Approval W6207/2018/1 is held by Q Stone Pty Ltd (Works Approval Holder) for the Potts Road Quarry (the Premises), located at Potts Road, Welbungin WA 6447.

This Amendment Report documents the assessment of potential risks to the environment and public health from proposed changes to the emissions and discharges during the construction of the Premises. As a result of this assessment, Revised Works Approval W6207/2018/1 has been granted.

The Revised Works Approval issued as a result of this amendment consolidates and supersedes the existing Works Approval previously granted in relation to the Premises. The Revised Works Approval has been granted in a new format with existing conditions being transferred, but not reassessed, to the new format.

## 2. Scope of assessment

### 2.1 Regulatory framework

In completing the assessment documented in this Amendment Report, the department has considered and given due regard to its Regulatory Framework and relevant policy documents which are available at <https://dwer.wa.gov.au/regulatory-documents>.

### 2.2 Application summary and overview of premises

The Works Approval Holder currently operates the Premises under Works Approval W6207/2018/1 and Registration R2505/2020/1. The Registration approves Category 70 production capacity of more than 5,000 but less than 50,000 tonnes per year.

On 20 December 2022, the Works Approval Holder submitted an application to the department to amend Works Approval W6207/2018/1 under section 59 and 59B of the *Environmental Protection Act 1986* (EP Act). The following amendments are being sought:

Category 70:

- Construct and install a washing plant with a closed loop system to facilitate washing up to 30% of the material produced. New infrastructure includes associated 4 wedge pits (L= 15 m, W = 4 m, D= 1.3 m) and associated pipework, diesel generator, fines storage area and water tanks

Changes to prescribed premises boundary:

- Expand the prescribed premises boundary to extend the north-east and south-east boundary LOT 101 ON PLAN 412779 (Figure 1 of Works Approval)

As the Works Approval Holder currently operates under a Registration for Category 70, a new registration for the expanded boundary should be applied for. Additionally, the Works Approval Holder currently has a clearing permit 8324/1. If Q Stone intends to clear any additional vegetation, they may need to apply for another permit.

Table 1 below outlines the proposed changes to the existing Works Approval

**Table 1: Proposed throughput capacity changes**

Category	Current throughput capacity	Proposed throughput capacity	Description of proposed amendment
70	50,000 tonnes per annum	No change	No increase in throughput however propose to wash

			up to 30% of the material produced.
--	--	--	-------------------------------------

### 3. Risk assessment

The department assesses the risks of emissions from prescribed premises and identifies the potential source, pathway and impact to receptors in accordance with the *Guideline: Risk assessments* (DWER 2020).

To establish a Risk Event there must be an emission, a receptor which may be exposed to that emission through an identified actual or likely pathway, and a potential adverse effect to the receptor from exposure to that emission.

#### 3.1 Source-pathways and receptors

##### 3.1.1 Emissions and controls

The key emissions and associated actual or likely pathway during premises construction which have been considered in this Amendment Report are detailed in Table 2 below. Table 2 also details the proposed control measures the Works Approval Holder has proposed to assist in controlling these emissions, where necessary.

**Table 2: Works Approval Holder controls**

Emission	Sources	Potential pathways	Proposed controls
<b>Construction</b>			
Dust	<ul style="list-style-type: none"> <li>- Placement of washing equipment</li> <li>- Construction of wedge pits, fines storage area</li> <li>- Installation of 2 x 25 kL water tanks, pumps and piping</li> </ul>	Air/windborne pathway	<ul style="list-style-type: none"> <li>- Land east of premise boundary has been sheeted with fines material to provide a suitable surface for the movement of plant and equipment.</li> <li>- Watercart available for dust suppression use.</li> <li>- May install water sprays on transfer points</li> </ul>
Sediment laden stormwater	<ul style="list-style-type: none"> <li>- Placement of washing equipment</li> <li>- Construction of wedge pits and fines storage area</li> <li>- Installation of 2 x 25 kL water tanks, pumps and piping</li> </ul>	Overland flow causing sediment loading of nearby creek lines	<ul style="list-style-type: none"> <li>- Water is recycled at wash facility where suspended solids are removed during recycling</li> <li>- Existing rock bunding (1.5 m high, 20 m long) present along northern boundary of the site just east of the remaining patch of vegetation. No additional bunding will be constructed.</li> <li>- Graded drains will divert stormwater away from the wash facility to the north and west within the site boundary where it will dissipate naturally through infiltration.</li> <li>- Wedge pits are designed to hold an extra 60,000L over normal operating</li> </ul>

Emission	Sources	Potential pathways	Proposed controls
			levels for extra storage

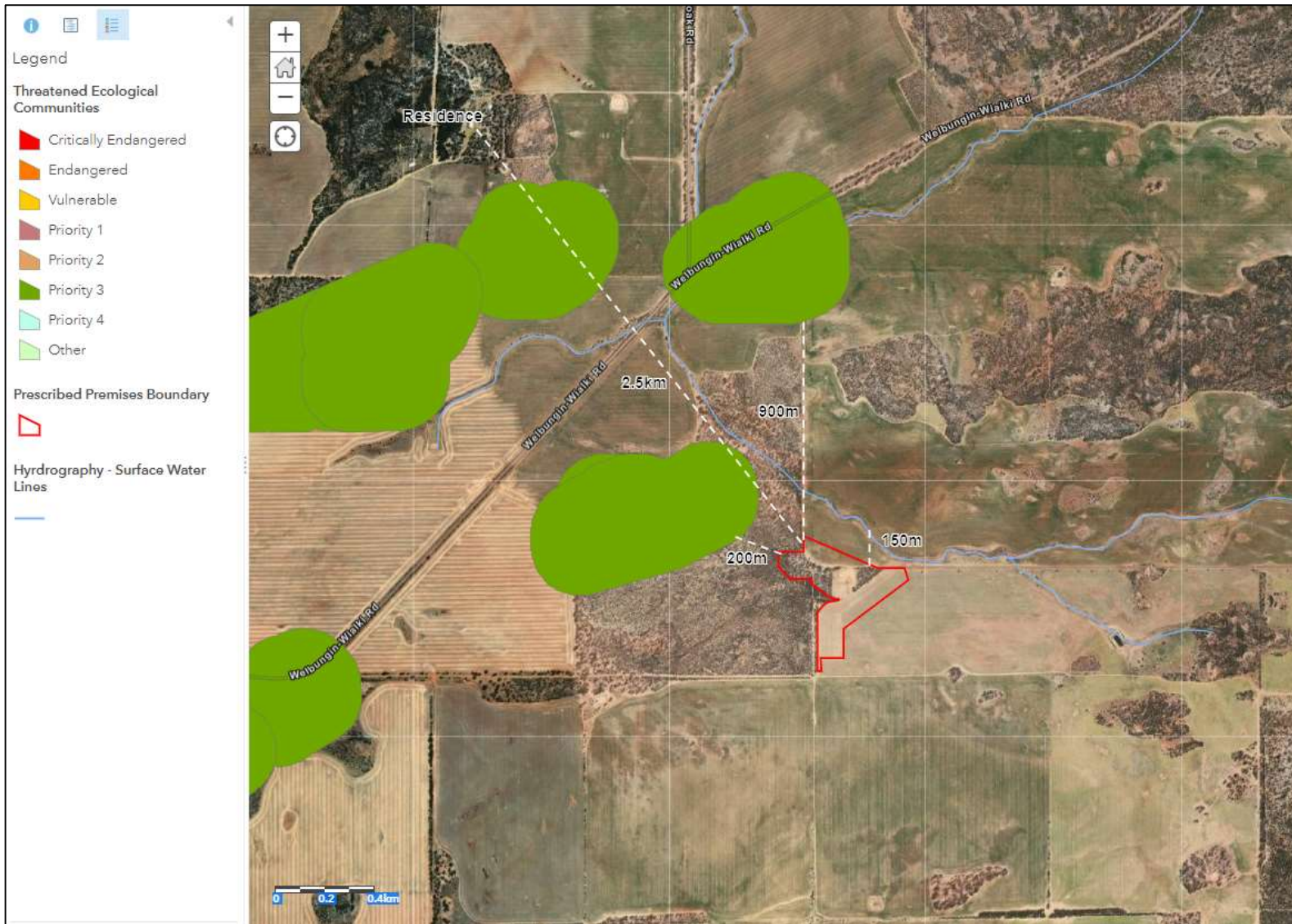
### 3.1.2 Receptors

In accordance with the *Guideline: Risk assessments* (DWER 2020), the Delegated Officer has excluded employees, visitors and contractors of the Works Approval Holder's from its assessment. Protection of these parties often involves different exposure risks and prevention strategies, and is provided for under other state legislation.

Table 3 and Figure 1 below provides a summary of potential human and environmental receptors that may be impacted as a result of activities upon or emission and discharges from the prescribed premises (*Guideline: Environmental Siting* (DWER 2020)).

**Table 3: Sensitive human and environmental receptors and distance from prescribed activity**

Human receptors	Distance from prescribed activity
Residential residence	2.5km north-west of the prescribed premises
Environmental receptors	Distance from prescribed activity
Avon river catchment	Activity is located within the proclaimed surface water catchment area
Creek Bed / minor surface water line	150m north of the prescribed premises boundary (Within 20m north of the fines storage area and within 50m north of the wash facility area)
Threatened ecological community (TEC): Eucalyptus Woodland of the WA Wheatbelt	<ul style="list-style-type: none"> <li>- Approximately 200m north west of the prescribed premises boundary</li> <li>- Approximately 900m north of the prescribed premises boundary</li> </ul>
Malleefowl (Leipoa Ocellata)	<p>The presence of Malleefowl (Leipoa ocellata) is considered possible due to presence of habitat associated with foraging in the area.</p> <p>Q Stone have indicated that no evidence of their presence has been sighted since commencement of operations in 2020.</p>



**Figure 1: Distance to sensitive receptors from proposed expanded premises boundary**

Works Approval: W6207/2018/1

IR-T15 Amendment report template v3.0 (May 2021)

## 3.2 Risk ratings

Risk ratings have been assessed in accordance with the *Guideline: Risk Assessments* (DWER 2020) for those emission sources which are proposed to change and takes into account potential source-pathway and receptor linkages as identified in Section 3.1. Where linkages are incomplete they have not been considered further in the risk assessment.

Where the Works Approval Holder has proposed mitigation measures/controls (as detailed in Section 3.1), these have been considered when determining the final risk rating. Where the Delegated Officer considers the Works Approval Holder's proposed controls to be critical to maintaining an acceptable level of risk, these will be incorporated into the Works Approval as regulatory controls.

Additional regulatory controls may be imposed where the Works Approval Holder's controls are not deemed sufficient. Where this is the case the need for additional controls will be documented and justified in Table 4.

The Revised Works Approval W6207/2018/1 that accompanies this Amendment Report authorizes construction only and time-limited operations. The conditions in the Revised Works Approval have been determined in accordance with *Guidance Statement: Setting Conditions* (DER 2015).

A licence is required following the time-limited operational phase authorised under the works approval to authorise emissions associated with the ongoing operation of the Premises i.e. washing of material produced. A risk assessment for the operational phase has been included in this Amendment Report, however licence conditions will not be finalised until the department assesses the licence application.

**Table 4: Risk assessment of potential emissions and discharges from the Premises during construction and operation**

Risk Event					Risk rating <sup>1</sup> C = consequence L = likelihood	Works Approval Holder's controls sufficient?	Conditions <sup>2</sup> of works approval	Justification for additional regulatory controls
Source/Activities	Potential emission	Potential pathways and impact	Receptors	Works Approval Holder's controls				
<b>Construction</b>								
<ul style="list-style-type: none"> <li>- Placement of washing equipment</li> <li>- Construction of wedge pits</li> <li>- Construction of fines storage area</li> </ul>	Dust	Air/windborne pathway causing impacts to vegetation health	TEC Adjacent vegetation Residence Potential habitat for Malleefowl	Refer to Section 3.1.1	C = Minor L = Unlikely <b>Medium Risk</b>	Y	<u>Modification to existing condition:</u> Condition 1 – requirements for wash facility infrastructure <u>New condition:</u> Condition 8 – dust suppression	To mitigate risk to surrounding vegetation and potential habitat for Malleefowl, DWER is placing applicant's proposed controls of using water suppression as a regulatory control.
<ul style="list-style-type: none"> <li>- Installation of 2 x 25kL water tanks</li> <li>- Installation of pumps and piping for a closed loop system</li> </ul>	Sediment laden stormwater	Overland flow causing sediment loading of nearby creek lines	TEC Adjacent vegetation Surface water creek Potential habitat for Malleefowl	Refer to Section 3.1.1	C = Minor L = Unlikely <b>Medium Risk</b>	Y	<u>Modification to existing condition:</u> Condition 1 - requirements for wash facility infrastructure	To mitigate risk to surface water, DWER is placing applicant's proposed controls of using graded drains and bunding as a regulatory control.

Note 1: Consequence ratings, likelihood ratings and risk descriptions are detailed in the *Guideline: Risk assessments* (DWER 2020).

Note 2: Proposed Works Approval Holder's controls are depicted by standard text. **Bold and underline text** depicts additional regulatory controls imposed by department.



## 4. Consultation

Table 5 provides a summary of the consultation undertaken by the department.

**Table 5: Consultation**

Consultation method	Comments received	Department response
Local Government Authority – Shire of Mt Marshall – advised of proposal 30/03/2023	None received	N/A
Landholder - Paul Sachse – advised of proposal mailed 30/03/2023	None received	N/A
Landholder – Stuart Faulkner – advised of proposal mailed 30/03/2023	None received	N/A
Works Approval Holder was provided with draft amendment on 28/07/2023	Comments received: <ol style="list-style-type: none"> <li>1. Provided all outstanding information DWER required.</li> <li>2. Condition 3 of the works approval - requested a timeframe for submission be added for the Environmental Compliance Report (ECR)</li> <li>3. Condition 12 of the works approval - refers to 'books specified under condition 14' however there is no condition 14.</li> <li>4. Decision report page 2 - requested the page break be corrected</li> </ol>	<ol style="list-style-type: none"> <li>1. Incorporated outstanding information.</li> <li>2. Condition 3 was altered to include a 30-day timeframe for when the ECR should be submitted.</li> <li>3. Condition 12 now refers to 'books specified under condition 11'.</li> <li>4. Corrected.</li> </ol>

## 5. Conclusion

Based on the assessment in this Amendment Report, the Delegated Officer has determined that a Revised Works Approval will be granted, subject to conditions commensurate with the determined controls and necessary for administration and reporting requirements.

### 5.1 Summary of amendments

Table 6 provides a summary of the proposed amendments and will act as record of implemented changes. All proposed changes have been incorporated into the Revised Works Approval as part of the amendment process.

**Table 6: Summary of works approval amendments**

Condition no.	Proposed amendments
---------------	---------------------

Formatting and updates	<p>Updated to new works approval format:</p> <ul style="list-style-type: none"> <li>• Revised condition and table numbers</li> <li>• Deleted redundant information (Explanatory notes and Condition 5)</li> <li>• Revised condition 3 and 4</li> <li>• Revised conditions 6 and 7 (now conditions 10, 11 and 12)</li> <li>• Deleted schedule 2</li> <li>• Added works approval history</li> <li>• Moved definition table to the end of the conditions</li> </ul>
Modified Table 1	<ul style="list-style-type: none"> <li>• Addition of wash facility infrastructure and requirements</li> </ul>
New Condition 8	<ul style="list-style-type: none"> <li>• Addition of Works Approval Holder's control to minimise dust using water carts and installation of water sprays on transfer points</li> </ul>

## References

1. Department of Environment Regulation (DER) 2015, *Guidance Statement: Setting Conditions*, Perth, Western Australia.
2. Department of Water and Environmental Regulation (DWER) 2020, *Guideline: Environmental Siting*, Perth, Western Australia.
3. DWER 2020, *Guideline: Risk Assessments*, Perth, Western Australia

## Appendix 2: Application validation summary

SECTION 1: APPLICATION SUMMARY	
<b>Application type</b>	
Works approval	<input checked="" type="checkbox"/> Previous works approval – W6207/2018/1. Registration R2505/2020/1
Date application received	20/12/2022
<b>Applicant and Premises details</b>	
Applicant name/s (full legal name/s)	Q Stone Pty Ltd
Premises name	Potts Road Quarry
Premises location	Lot 606 on Plan 142820, Lot 3029 on Plan 203960, Lot 2643 on Plan 150837 and Road Reserve 11712114, Mount Marshall Operations
Local Government Authority	Shire of Mount Marshall
<b>Application documents</b>	
HPCM file reference number:	DER2018/001042-8~58 and DER2018/001617
Key application documents (additional to application form):	Shire Approval Letter of Authority DMP Approvals Water farm information Siting and location Updated premises boundary
<b>Scope of application/assessment</b>	
Summary of proposed activities or changes to existing operations.	<p><b>Works approval</b></p> <p>The applicant has previously been granted a works approval and subsequent registration for a crushing and screening plant at this location. They intend to add a washing plant, which will require associated settling ponds, diesel generator, fines storage area and water tanks. They intend to store the fines until they can be sold making the fines a commodity (not a waste stream) however, there is not currently a buyer.</p> <p>There is no increase to throughput, however, they plan to wash up to 30% of the material produced.</p> <p>The applicant is also seeking to enlarge the prescribed premises boundary as part of this application. An aerial photo provided by the applicant suggests that their operations have exceeded the prescribed premises boundary slightly.</p>

**Category number/s (activities that cause the premises to become prescribed premises)**

**Table 1: Prescribed premises categories**

Prescribed premises category and description	Assessed production or design capacity
Category 70: Screening etc. of material: premises on which material extracted from the ground is screened, washed, crushed, ground, milled, sized or separated	Up to 50,000 tpa

**Legislative context and other approvals**

Has the applicant referred, or do they intend to refer, their proposal to the EPA under Part IV of the EP Act as a significant proposal?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Referral decision No: Managed under Part V <input checked="" type="checkbox"/> Assessed under Part IV <input type="checkbox"/>
Does the applicant hold any existing Part IV Ministerial Statements relevant to the application?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Ministerial statement No: EPA Report No:
Has the proposal been referred and/or assessed under the EPBC Act?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Reference No:
Has the applicant demonstrated occupancy (proof of occupier status)?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Certificate of title <input checked="" type="checkbox"/> General lease <input type="checkbox"/> Expiry: Mining lease / tenement <input checked="" type="checkbox"/> <b>Exploration Lease E70/5820</b> <b>Expiry: 12/12/26</b> <b>However, documents provided for dead tenement E70/4819</b> Other evidence <input type="checkbox"/> Expiry: <b>Agreement with one title holder supplied, but not the other.</b>
Has the applicant obtained all relevant planning approvals?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Approval: <b>Shire development approval, however no Extractive Industry Licence has been provided.</b> <b>Also has an approved mining plan with DMIRS.</b> Expiry date: None given

		If N/A explain why?
Has the applicant applied for, or have an existing EP Act clearing permit in relation to this proposal?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	CPS No: 8324/1 – included as part of the original works approval.
Has the applicant applied for, or have an existing CAWS Act clearing licence in relation to this proposal?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Application reference No: N/A Licence/permit No: N/A
Has the applicant applied for, or have an existing RIWI Act licence or permit in relation to this proposal?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Application reference No: Licence/permit No: Licence / permit not required.
Does the proposal involve a discharge of waste into a designated area (as defined in section 57 of the EP Act)?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Name: Avon River System Surface Water Area. Type: Proclaimed Surface Water Area Has Regulatory Services (Water) been consulted? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Regional office:
Is the Premises situated in a Public Drinking Water Source Area (PDWSA)?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Name: N/A Priority: P1 / P2 / P3 / N/A Are the proposed activities/landuse compatible with the PDWSA (refer to <a href="#">WQPN 25</a> )? Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
Is the Premises subject to any other Acts or subsidiary regulations (e.g. <i>Dangerous Goods Safety Act 2004, Environmental Protection (Controlled Waste) Regulations 2004, State Agreement Act xxxx</i> )	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Is the Premises within an Environmental Protection Policy (EPP) Area?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Is the Premises subject to any EPP requirements?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

Is the Premises a known or suspected contaminated site under the <i>Contaminated Sites Act 2003</i> ?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Classification: N/A Date of classification: N/A
---	---	--