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ENERGY AND CLIMATE CHANGE
ENVIRONMENT AND SUSTAINABILITY
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LAND AND PROPERTY
MINING AND MINERAL PROCESSING
MINERAL ESTATES
WASTE RESOURCE MANAGEMENT



WASTECARE LIMITED

BATTERY TREATMENT FACILITY, HALIFAX

SITE CONDITION REPORT

APRIL 2019

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1 SITE DETAILS

Name of the applicant	Wastecare Limited
Activity address	Units 1–6, North Dean Business Park, Stainland Road, Elland, West Yorkshire. HX4 8LR.
National grid reference	SE 09469 22056

Document reference and dates for Site Condition Report at permit application and surrender	Permit application date – March 2019
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Document references for site plans (including location and boundaries)	ST-16653-001 – Site Location Plan ST-16653-002 – Permit Boundary Plan ST-16653-003 – Site Layout & Drainage Plan ST-16653-006 – Fire Prevention Plan
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2 CONDITION OF THE LAND AT PERMIT ISSUE

Environmental setting including: <ul style="list-style-type: none"> • geology • hydrogeology • surface waters 	<p>Geology</p> <p><i>Bedrock Geology</i></p> <p>The site is directly underlain by bedrock strata of the Millstone Grit Group - Mudstone, Siltstone and Sandstone. Sedimentary Bedrock formed approximately 319 to 329 million years ago in the Carboniferous Period. Local environment previously dominated by swamps, estuaries and deltas.</p> <p><i>Superficial Geology</i></p> <p>The site has a superficial geology comprising Alluvium - Clay, Silt, Sand and Gravel. Superficial Deposits formed up to 2 million years ago in the Quaternary Period. Local environment previously dominated by rivers.</p> <p><i>Soils</i></p>
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Soils are described as “freely draining slightly acid loamy soils”. Landcover classification at the site is arable and grassland.

Hydrogeology

Abstraction Licences

The Envirocheck report shows that there are 26 water abstractions within 2km of the site. 23 of these abstractions are located over 1km away from the site. The closest abstraction is situated approximately 567m south of the site. The abstraction is used for mineral washing purposes.

Source Protection Zones

The site does not lie within a Source Protection Zone. There are no Source Protection Zones within 2km of the site.

Bedrock Aquifer Designation

The Envirocheck report shows the site within a Secondary A Aquifer.

Superficial Aquifer Designation

The Envirocheck report shows the site within a Secondary A Aquifer.

Hydrology

The site sits adjacent to the Rover Calder, which passes to the East of the site. The site boundary is approximately 20m from the watercourse at its closest point. Other watercourses within 2km include the Calder and Hebble Navigation Canal following a similar route to the River Calder which passes the site on the opposite bank of the river. Additionally the Mill Race, a small tributary to

	<p>the River Calder, is approximately 550m South of the site.</p> <p><i>Flood Risk</i></p> <p>The Flood Map for Planning website shows that the site is within a Flood Storage Area. According to BGS Groundwater Flooding Susceptibility, there is potential for Groundwater Flooding to occur at surface (shown within the Envirocheck report).</p>
<p>Pollution history including:</p> <ul style="list-style-type: none"> • pollution incidents that may have affected land • historical land-uses and associated contaminants • any visual/olfactory evidence of existing contamination • evidence of damage to pollution prevention measures 	<p><i>Pollution Incidents</i></p> <p>The Envirocheck report shows that there have been no incidents of pollution at the site. There have been 49 pollution incidents to controlled waters within 1km of the site, of which 4 minor incidents were within 250m of site. 38 incidents were classified as minor and 11 as significant. These incidents are deemed unlikely to have an impact on the site.</p> <p><i>Historic Land Use</i></p> <p>The Envirocheck report presents a number of historic maps, covering the period 1854 to 2019. The maps show that the site has comprised unbuilt floodplain prior to 1894, with a small building present on the south of the site from 1908, identified as a dripping and tallow works. A small portion of the extreme north of the site is marked as sludge beds from 1930 to 1969. This was replaced by industrial buildings prior to the 1975 map, marked as part of the North Dean Works water pollution control plant. The 1982-3 map includes additional buildings covering the site, which is marked as works. The aforementioned sludge beds which covered the northern extremity of the site are marked</p>

	<p>as an historic landfill site in Envirocheck records.</p> <p><i>Visual / Olfactory evidence of existing contamination</i></p> <p>A site walkover was undertaken in February 2018. There was no visual or olfactory evidence of contamination.</p> <p><i>Evidence of Damage to Pollution Prevention Measures</i></p> <p>There is no evidence of damage to existing pollution prevention measures. As part of the site redesign new pollution prevention measures will be installed at the site.</p>
<p>Evidence of historic contamination, for example, historical site investigation, assessment, remediation and verification reports (where available)</p>	<p>There is no evidence of historical contamination at the site.</p>
<p>Baseline soil and groundwater reference data</p>	<p>Baseline estimated soil chemistry data for the site, as returned by the site's Envirocheck report. Note these are not site-specific samples:</p> <ul style="list-style-type: none"> • Arsenic <15mg/kg • Cadmium <1.8mg/kg • Chromium 60-90mg/kg • Lead 100-200mg/kg (south of site) and 200-300mg/kg (north of site) • Nickel 15-30mg/kg <p>No sampling has been undertaken on site. The proposed site design includes extensive impermeable paving, sealed drainage, covered or enclosed battery storage areas. The site is provided with impermeable concrete surfacing and we would not wish to damage this an create a pathway. All storage</p>

	areas will be maintained and inspected at regular intervals.
Supporting information	Source information: <ul style="list-style-type: none"> • British Geological Survey mapping • Magic maps • Historical ordnance Survey maps • Flood map for planning • Envirocheck report (including historic maps, groundwater vulnerability map, bedrock and superficial aquifer designations maps, source protection zone map, sensitive land uses map, land use maps, flood maps, soil chemistry maps)

3 PERMITTED ACTIVITIES

Permitted activities	<p>This application is for the recovery, treatment and storage of hazardous batteries, with a maximum permitted site throughput of 25,000 tonnes per annum. This includes the physio-chemical treatment of hazardous batteries and mechanical treatment of non-hazardous alkaline batteries.</p> <p>Permitted activities will comprise:</p> <ul style="list-style-type: none"> • Section 5.3 Part A(1) (a) – Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving one or more of the following activities – (ii) physico-chemical treatment • Section 5.6 Part A(1) (a) – Temporary storage of hazardous waste with a total capacity exceeding 50 tonnes pending any of the activities listed in Sections 5.1, 5.2, 5.3 • Recovery of non-hazardous wastes (R3, R4, R5, R13) <p>The existing site permit (SR2008 no.23 – EPR/MP3899VT) will be retained.</p>
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Non-permitted activities undertaken	The following non-permitted activities will be undertaken: <ul style="list-style-type: none">• Staff welfare activities; and• Car parking
Document references for: <ul style="list-style-type: none">• plan showing activity layout; and• environmental risk assessment.	<ul style="list-style-type: none">• Site Layout and Drainage Plan• Amenity and Accident Risk Assessment

4 CHANGES TO THE ACTIVITY

Have there been any changes to the activity boundary?	
Have there been any changes to the permitted activities?	
Have any 'dangerous substances' not identified in the Application Site Condition Report been used or produced as a result of the permitted activities?	
Checklist of supporting information	<ul style="list-style-type: none"> • Plan showing any changes to the boundary (where relevant) • Description of the changes to the permitted activities (where relevant) • List of 'dangerous substances' used/produced by the permitted activities that were not identified in the Application Site Condition Report (where relevant)

5 MEASURES TAKEN TO PROTECT LAND

N/A	
Checklist of supporting information	<ul style="list-style-type: none"> • Inspection records and summary of findings of inspections for all pollution prevention measures • Records of maintenance, repair and replacement of pollution prevention measures

6 POLLUTION INCIDENTS THAT MAY HAVE HAD AN IMPACT ON LAND, AND THEIR REMEDIATION

N/A	
Checklist of supporting information	<ul style="list-style-type: none"> • Records of pollution incidents that may have impacted on land • Records of their investigation and remediation

7 SOIL GAS AND WATER QUALITY MONITORING (WHERE UNDERTAKEN)

N/A	
Checklist of supporting information	<ul style="list-style-type: none"> • Description of soil gas and/or water monitoring undertaken • Monitoring results (including graphs)

8 DECOMMISSIONING AND REMOVAL OF POLLUTION RISK

N/A	
Checklist of supporting information	<ul style="list-style-type: none">• Site closure plan• List of potential sources of pollution risk• Investigation and remediation reports (where relevant)

9 REFERENCE DATA AND REMEDIATION (WHERE RELEVANT)

N/A	
Checklist of supporting information	<ul style="list-style-type: none">• Land and/or groundwater data collected at application (if collected)• Land and/or groundwater data collected at surrender (where needed)• Assessment of satisfactory state• Remediation and verification reports (where undertaken)

10 STATEMENT OF SITE CONDITION

N/A

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