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BARR ENVIRONMENTAL

BARR KILLOCH ENERGY RECOVERY PARK

REMEDIATION STRATEGY

MAY 2018

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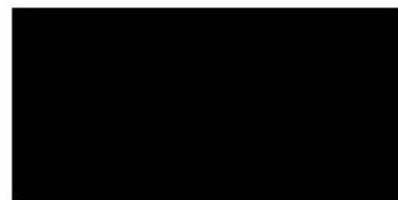
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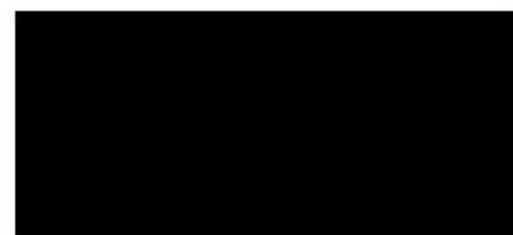
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APPENDICES

Appendix A Table 1: Assessment Criteria

1 INTRODUCTION

1.1 Instruction

1.1.1 Wardell Armstrong LLP (WA) were commissioned by Barr Environmental Limited, in May 2018, to prepare a Remediation Strategy relating to a proposed Energy Recovery Park at their Killoch site, south west of Ochiltree, East Ayrshire.

1.2 Site Location

1.2.1 The site is located approximately 14km east of Ayr and 9km west of Cumnock, adjacent to the A70 linking the 2 towns. It is located 3km south west of Ochiltree and is approximately 8 hectares in area. The approximate centre of the site is at OS National Grid Reference 248000E 620400N.

1.3 Remediation Requirements

1.3.1 WA prepared a Desk Study report ref LE12479-001, dated March 2015. It was concluded in the Desk Study that potential pollution linkages existed between contaminants in the made ground located on site and off site. It was also highlighted in the Desk Study that there was a potential for ground gas generation from the made ground at the site and from the former Killoch Colliery north of the site.

1.3.2 WA undertook a ground investigation and associated risk assessments in September 2017 (Report ref. LE12479-007 December 2017). With regards to potential contamination, it was concluded in the report that the ground beneath the site contains contamination at acceptable levels when compared to generic assessment criteria and that no remediation is required. However:

- Stockpiles on site were not tested and will be removed from site prior to development;
- Should earthworks be required on site as part of the development, a Materials Management Plan (MMP) will be prepared and should be approved by a Qualified Person in line with the CL:AIRE Definition of Waste Code of Practice;
- Gas protection measures equivalent to Characteristic Situation 2 would be incorporated into the foundation design and validated;
- Any unforeseen contamination encountered during construction should be dealt with appropriately.

1.3.3 Planning permission (reference number 15/0413/PP) for the erection of an Energy Recovery Park and associated infrastructure and landscaping was approved in June 2017. The ground investigation referred to in paragraph 1.3.2 was commissioned to enable the discharge of Planning Conditions 11 and 12, relating to ground contamination and mine gas.

1.3.4 Planning conditions 11 and 12:

- 11. A/ No ground preparation works or construction shall take place within the site until a site investigation and risk assessment have been carried out and a report submitted in writing to the Planning Authority (PAN33 Paragraph 37). The investigation and assessment shall be conducted in line with BS 10175: 2001 code of practice for “The investigation of potentially contaminated sites” and “Contaminated Land Report 11 – Model Procedures for the Management of Land Contamination” (CLR). Where potential risks to key receptors from contaminants in the soil have been identified, the report shall detail:
 - (i) The nature, extent and type(s) of contamination on the site;
 - (ii) A site-specific risk assessment of all relevant pollutant linkages;
 - (iii) A remediation plan to treat/remove contamination to ensure the site is fit for purpose;
 - (iv) Measures to deal with unsuspected contamination discovered during construction works.
- 11. B/ Upon completion of all remedial works (and prior to site occupation) a verification report shall be submitted to the Planning Authority detailing all the remedial actions which were carried out under condition 11A of this permission.
- 12. A/ Prior to the commencement of any ground preparation or construction work on the proposed development a scheme of site investigation works for mine gases associated with the former deep mining operations within the site shall be submitted to and approved by the Planning Authority in consultation with the Coal Authority. The approved scheme of site investigation works shall be fully implemented prior to the commencement of any ground preparation works or construction work on the proposed energy recovery park.
- 12. B/ In the event that the site investigation work required under condition 12A of this permission confirms the need for remedial works to treat any