# <u>Ysgol Y Deri Expansion</u> <u>CEMP Appendix 1</u>

# Environmental Aspects and Impacts Risk Assessments



#### A: AIR QUALITY

|     |  |  | Li   | kelihoo | d   | Pote | ntial Sev | erity |   |  | Resid | ual Risk I | Rating |
|-----|--|--|------|---------|-----|------|-----------|-------|---|--|-------|------------|--------|
| No. | Aspect                                       | Impact & Legislation   | High | Med     | Low | High | Med       | Low   | Control/Mitigation Measures   | Ref to Control Plans   | High  | Med        | Low    |
| A1  | Dust arising from construction<br>activities | Nuisance to neighbours. Damage to<br>local wildlife & habitats. Compliance<br>to requirements of Considerate<br>Constructors Scheme<br>Clean Air Act 1993  |      | •       |     | •    |           |       | <ul> <li>Temporary fencing and sheeting at site<br/>boundary.</li> <li>Hard-paving haulage roads and storage<br/>areas where possible.</li> <li>Water used as dust suppressant for dusty<br/>works.</li> <li>Damp down drilling &amp; dry excavation works</li> <li>Cover stored materials, chutes &amp; skips</li> <li>Site wide dust monitoring</li> </ul>  | <ul> <li>ISG BPM Section<br/>6.4.4.4</li> <li>GLA BPG The<br/>Control of Dust &amp;<br/>Emissions from<br/>Construction &amp;<br/>Demolition</li> <li>Considerate<br/>Constructors<br/>Scheme</li> </ul> |       | •          |        |
| A2  | Release of ozone depleting substances        | Release of ozone depleting<br>substances to the atmosphere.<br>Damage to the atmospheric ozone<br>layer<br>Ozone Depleting Substances<br>(Qualifications) Regulations 2009<br>Environmental Protection (Controls<br>on Ozone Depleting Substances) Regs<br>2002 As Amended |      | •       |     |      | •         |       | <ul> <li>Ban on the use of any ozone depleting<br/>substances or materials on the project</li> </ul>  | <ul> <li>Design<br/>Specifications</li> <li>Contractor<br/>documentation</li> </ul>  |       |            | •      |
| A3  | Vehicle & plant emissions                    | Local air pollution. Nuisance to<br>wildlife & habitats.<br>Clean Air Act 1993   | •    |         |     |      | •         |       | <ul> <li>Compliance with ISG Low Emissions Policy</li> <li>Engines of vehicles &amp; plant turned off when<br/>not in use</li> <li>Encourage the use of low emission<br/>transportation i.e. LPG, electric, hybrid,<br/>biofuels, low sulphur petrol etc.</li> <li>Vehicles &amp; plant to be regularly maintained</li> <li>All vehicles comply to EU regulations and<br/>hold current MOT certification</li> </ul> | • ISG BPM Section<br>6.4.4.4   |       |            | •      |

| No.  | Aspect                                 | Impact & Legislation   | L         | ikelihoo | d   | Poter | ntial Sev | erity | Control/Mitigation Measures   | Ref to Control Plans   | Resid | ual Risk F | ₹ating |
|------|--|--|-----------|----------|-----|-------|-----------|-------|---|--|-------|------------|--------|
| NO.  | Азресс                                 | 1 5  | High      | Med      | Low | High  | Med       | Low   | control/witigation measures   | Rel to control Plans   | High  | Med        | Low    |
| A4   | Carbon Dioxide emissions<br>(CO2)      | Release of greenhouse gas to<br>atmosphere contributing to global<br>warming.  |           | •        |     |       | •         |       | <ul> <li>Encourage the use of low CO2 vehicles for transportation i.e. LPG, electric, hybrid, biofuels etc.</li> <li>Low energy usage plant, lighting &amp; equipment to be used where possible</li> <li>ISG Energy Policy to be implemented</li> </ul>   | <ul> <li>ISG BPM Section<br/>6.4.4.4</li> <li>ISG Energy Policy</li> </ul>                   |       |            | •      |
| B: B | IODIVERSTY & ECOLOG                    | Y  |           | ikelihoo | 4   | Dotor | ntial Sev | ority |   |  | Posid | ual Risk F | Pating |
| No.  | Aspect                                 | Impact & Legislation   | ∟<br>High | Med      | Low | High  | Med       | Low   | Control/Mitigation Measures   | Ref to Control Plans   | High  | Med        | Low    |
| B1   | Retain protected species & habitats    | Damage or loss to protected species<br>or habitat.<br>Wildlife & Countryside Act 1981<br>Conservation (Natural Habitats)<br>Regulations 1994                           |           | •        |     |       | •         |       | <ul> <li>Identify locations of protected species &amp; habitats and form physical protection to prevent worker access</li> <li>Monitor habitat on regular basis</li> <li>Communicate to operatives via inductions</li> </ul>  | <ul> <li>Environmental<br/>Management<br/>Plan</li> <li>ISG BPM Section<br/>6.4.5</li> </ul> |       |            | •      |
| B2   | Protection of trees and planted areas  | Damage to trees & associated wildlife  |           | •        |     |       | •         |       | <ul> <li>Identify locations of protected species &amp;<br/>habitats and form physical protection to<br/>prevent worker access</li> <li>Monitor habitat on regular basis</li> <li>Communicate to operatives via inductions</li> <li>Record and identify any damaged habitat<br/>for reinstatement</li> </ul>                         | <ul> <li>Environmental<br/>Management<br/>Plan</li> <li>ISG BPM Section<br/>6.4.5</li> </ul> |       |            | •      |
| B3   | Noise & vibration nuisance to wildlife | Nuisance and damage to wildlife<br>caused by noise and vibration from<br>construction activities<br>Wildlife & Countryside Act 1981<br>Conservation (Natural Habitats) | •         |          |     |       | •         |       | <ul> <li>Limitations to hours of working as defined<br/>in H&amp;S Plan or Planning Requirements</li> <li>Use of low noise procedures and equipment</li> <li>Temporary noise baffles to be used for<br/>noisy operations.</li> <li>Noise barriers at site boundary</li> <li>Best practice procedures to keep noise &amp;</li> </ul> | <ul> <li>Planning<br/>requirements</li> <li>Construction<br/>Phase H&amp;S Plan</li> </ul>   |       |            | •      |

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| B: B       | IODIVERSTY & ECOLO         | GY (CONTINUED)   |      |           |     |      |           |        |   |                                    |       |            |        |
|------------|----------------------------|--|------|-----------|-----|------|-----------|--------|---|------------------------------------|-------|------------|--------|
| No.        | Aspect                     | Impact & Legislation   | l    | Likelihoo | d   | Pote | ntial Sev | verity | Control/Mitigation Measures   | Ref to Control Plans               | Resid | ual Risk F | Rating |
| 110.       | Aspect                     | impact & Legislation   | High | Med       | Low | High | Med       | Low    | control/ Miligation Measures  | Net to control rians               | High  | Med        | Low    |
| в4<br>С: Е | Light nuisance to wildlife | Nuisance and damage to wildlife<br>caused by artificial lighting from<br>construction activities<br>Wildlife & Countryside Act 1981<br>Conservation (Natural Habitats)<br>Regulations 1994 |      | •         |     |      |           | •      | <ul> <li>Diffusers used on permanent lighting to<br/>prevent light spread</li> <li>Timers / movement sensors used to limited<br/>hours of artificial lighting</li> <li>Light assessments made for temporary /<br/>task lighting. To be included in Risk<br/>Assessments&amp; Method Statements</li> </ul> | Contractor<br>Method<br>Statements |       |            | •      |
|            | A                          |  | l    | Likelihoo | d   | Pote | ntial Sev | verity |   |                                    | Resid | ual Risk F | Rating |
| No.        | Aspect                     | Impact & Legislation   | High | Med       | Low | High | Med       | Low    | Control/Mitigation Measures   | Ref to Control Plans               | High  | Med        | Low    |
| C1         | Reduction of energy usage  | Reduction in localised pollution and greenhouse gas emissions.   |      | •         |     |      | •         |        | <ul> <li>Low energy usage plant, lighting &amp; equipment to be used where possible</li> <li>PIRs for office and welfare lighting</li> <li>ISG Energy Policy to be implemented</li> <li>Measurement of energy usage (where possible) &amp; reporting to ISG</li> </ul>                                    | ISG Energy Policy                  |       |            | •      |

| No. | Aspect  | Impact & Legislation   |      | Likeliho | od  | Pote | ntial Sev | erity | Control/Mitigation Measures  | Ref to Control Plans   | Resid | ual Risk | Rating |
|-----|---|--|------|----------|-----|------|-----------|-------|--|--|-------|----------|--------|
| NO. | Aspect  | Impact & Legislation   | High | Med      | Low | High | Med       | Low   | Control/Witigation Measures  | Ker to control Plans   | High  | Med      | Low    |
| D1  | Prevent pollution of clean land<br>during construction activities | Pollution of soils and associated<br>groundwater systems during<br>construction activities<br>Control of Pollution (Oil Storage)<br>Regs: 2001 | •    |          |     |      | •         |       | <ul> <li>Correct storage of hazardous materials</li> <li>Use of double skinned storage containers<br/>for oils and chemicals</li> <li>Use of bunds around fuel and oil storage<br/>areas to contain leaks and spills (min. 110%<br/>capacity)</li> <li>Spill kits adjacent to all fuel storage areas</li> <li>Drip trays/Plant Nappies to be used under<br/>all oil using plant and equipment</li> <li>Segregation of contaminated and non<br/>contaminated soils</li> <li>Hard surfaced roads and storage areas</li> <li>Permit to break ground for excavation<br/>works</li> </ul> | <ul> <li>Environmental<br/>Management<br/>Plan</li> <li>Emergency<br/>procedures</li> <li>ISG BPM Section<br/>6.4.4</li> </ul>               |       | •        |        |
| D2  | Pollution of clean soils from<br>dewatering process               | Pollution of soils and associated<br>groundwater systems during<br>dewatering<br>Control of Pollution (Oil Storage)<br>Regs: 2001              |      | •        |     |      | •         |       | <ul> <li>Pumping of surface water to foul water<br/>drainage with DC/WW Consent</li> <li>Consent to Discharge</li> </ul>   | <ul> <li>ISG<br/>Environmental<br/>Management<br/>Plan</li> <li>ISG BPM Section<br/>6.4.4</li> <li>DC/WW Consent<br/>to Discharge</li> </ul> |       |          | •      |
| D3  | Pollution to watercourses from contaminated soils                 | Pollution to watercourses<br>Control of Pollution (Oil Storage)<br>Regs: 2001<br>Groundwater Regulations 2006                                  | •    |          |     |      | •         |       | <ul> <li>Controls for rainwater runoff from<br/>contaminated soil storage areas</li> <li>Contaminated soils to be stored on hard<br/>standing areas away from surface water<br/>drains</li> <li>Gully guards to be installed in road gullies<br/>where required to catch any silt run off</li> </ul>   | <ul> <li>Pollution<br/>Prevention and<br/>Incident<br/>Contingency Plan</li> <li>ISG BPM Section<br/>6.4.4</li> </ul>                        |       |          | •      |

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| No. | Aspect  | Impact & Legislation   | L    | ikelihoo. | d   | Pote | ntial Sev | verity | Control/Mitigation Measures  | Ref to Control Plans       | Resid | ual Risk | Ratin |
|-----|---|--|------|-----------|-----|------|-----------|--------|--|----------------------------|-------|----------|-------|
| NO. | Азресс  | impact & Legislation   | High | Med       | Low | High | Med       | Low    | control/writigation weasures   | Rel to control Plans       | High  | Med      | Lo    |
| E1  | Damage to archaeology & heritage during construction activities | Damage or loss of items of<br>archaeological or historical interest<br>Ancient Monuments Regs: 1981<br>Treasure Act 1996 |      |           | •   |      |           | •      | <ul> <li>Archaeological survey to be completed<br/>before excavation works commence</li> <li>Possibility of archaeological or historical<br/>items being on site covered in induction</li> </ul> | • ISG BPM Section<br>6.4.2 |       |          | •     |

#### F: LIGHT

| No. | Aspect   | Impact & Legislation   | I    | .ikelihoo | d   | Pote | ntial Sev | /erity | Control/Mitigation Measures   | Ref to Control Plans   | Resid | ual Risk F | Rating |
|-----|--|--|------|-----------|-----|------|-----------|--------|---|--|-------|------------|--------|
| NO. | Aspect   | impact & Legislation   | High | Med       | Low | High | Med       | Low    | control/whitgation weasures   | Ner to control Plans   | High  | Med        | Low    |
| F1  | Light pollution to local<br>communities & ecosystems<br>from temporary safety and<br>task lighting | Nuisance & disturbance to local<br>communities & ecosystems from<br>artificial lighting from construction<br>zones |      | •         |     |      |           | •      | <ul> <li>Planned location of lighting to reduce risk<br/>of pollution</li> <li>Light baffles &amp; projector luminaries used to<br/>control spread of light</li> <li>Timers and daylight sensors used to control<br/>non-essential lighting</li> <li>Warm white spectrum (&lt;2700 Kelvin) used<br/>where possible to reduce blue light<br/>component (Bat Conservation Trust)</li> </ul> | <ul> <li>ILE Guidance<br/>Notes for the<br/>Reduction of<br/>Light Pollution</li> <li>CIE Guide on<br/>Limitation of the<br/>Effects of<br/>Obtrusive Light</li> </ul> |       |            | •      |

#### G: MATERIALS (USE OF RAW MATERIALS & NATURAL RESOURCES)

| No. | Aspect   | Impact & Legislation  | I    | ikelihoo. | d   | Pote | ntial Sev | erity | Control/Mitigation Measures  | Ref to Control Plans   | Resid | ual Risk F | Rating |
|-----|--|---|------|-----------|-----|------|-----------|-------|--|--|-------|------------|--------|
| NO. | Aspect   | Impact & Legislation  | High | Med       | Low | High | Med       | Low   | Controly wittigation weasures  | Ker to control Plans   | High  | Med        | Low    |
| G1  | Appropriate life cycle of materials and components | Minimisation of materials &<br>resources by prevention of<br>maintenance or replacement during<br>whole life span of facility |      | •         |     |      | •         |       | <ul> <li>Review of contractors materials evaluate<br/>appropriate materials &amp; components to suit<br/>planned lifespan of facility</li> </ul> | <ul> <li>ISG Sustainability<br/>Guidance Pack<br/>for Suppliers</li> <li>Contractor<br/>Sustainability<br/>Management<br/>Plans</li> <li>ISG Sustainability<br/>Returns</li> </ul> |       |            | •      |

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| No. | Aspect                                      | Impact & Legislation  | I    | ikelihoo | d   | Pote | ntial Sev | /erity | Control/Mitigation Measures   | Ref to Control Plans   | Resid | lual Risk | Rating |
|-----|---|---|------|----------|-----|------|-----------|--------|---|--|-------|-----------|--------|
| NO. | Aspect                                      | Impact & Legislation  | High | Med      | Low | High | Med       | Low    | Control/Mitigation Measures   | Rel to Control Plans   | High  | Med       | Low    |
| G2  | Reuse of contaminated excavated materials   | Hazards to health of human and wildlife. Contaminated leechants polluting water courses.                        |      | •        |     | •    |           |        | <ul> <li>Correct storage of excavated materials</li> <li>Testing of excavated materials</li> <li>Remediation &amp; disposal measures in accordance with the ISG site rules</li> </ul>   | <ul> <li>Contractor<br/>Method<br/>Statements</li> <li>Permit to<br/>Proceed system</li> </ul>   |       |           | •      |
| G3  | Use of materials not<br>responsibly sourced | Depletion of natural resources & deforestation.   |      | •        |     |      | •         |        | <ul> <li>Only FSC certified sustainable timber products to be used.</li> <li>Auditing of supply chain deliveries and paperwork</li> <li>Completion of ISG Sustainability Returns</li> </ul>   | <ul> <li>ISG Sustainability<br/>Guidance Pack<br/>for Suppliers</li> <li>Contractor<br/>Sustainability<br/>Management<br/>Plans</li> <li>ISG Sustainability<br/>Returns</li> </ul> |       | •         |        |
| G4  | Use of toxic materials                      | Pollution to air & water. Hazard to<br>health of humans & wildlife<br>Planning hazardous Substances Act<br>1990 |      |          | •   |      | •         |        | <ul> <li>Specification and purchase of low toxic alternatives</li> <li>No use of banned substances in ISG Sustainable Sourcing Code</li> <li>Correct storage, handling &amp; application &amp; disposal of any toxic materials</li> </ul> | <ul> <li>ISG Sustainable<br/>Sourcing Code</li> <li>ISG<br/>Environmental<br/>Management<br/>Plan</li> <li>Contractors<br/>Sustainability<br/>Management<br/>Plan</li> </ul>       |       |           | •      |

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| No.       | Aspect  | Impact & Legislation  | L         | .ikelihoo                  | d        | Poter         | ntial Sev                   | erity                   | Control/Mitigation Measures   | Ref to Control Plans   | Residu        | ual Risk F        | Rating                   |
|-----------|---|---|-----------|----------------------------|----------|---------------|-----------------------------|-------------------------|---|--|---------------|-------------------|--------------------------|
| NO.       | Aspect  | impact & Legislation  | High      | Med                        | Low      | High          | Med                         | Low                     | Control/Mitigation Measures   | Rel to Control Plans   | High          | Med               | Low                      |
| G5        | Use of HFC's and PVC's  | Global warming potential. Use of<br>hazardous materials and<br>environmentally damaging<br>manufacturing methods<br>Ozone Depleting Substances<br>(Qualifications) Regulations 2009<br>Environmental Protection (Controls<br>on Ozone Depleting Substances) Regs<br>2002 As Amended                               | •         |                            |          |               | •                           |                         | <ul> <li>Monitoring of contractor and supplier<br/>Sustainable Commodities datasheet</li> <li>Compliance with the HFC Policy.</li> <li>Use of HFC Justification Reports</li> </ul>  | <ul> <li>ISG Sustainable<br/>Sourcing Code</li> <li>ISG PVC &amp; HFC<br/>Policies</li> <li>ISG Sustainability<br/>Returns</li> <li>HFC &amp; PVC<br/>Justification<br/>Reports</li> </ul> |               | •                 |                          |
| H: N      | IOISE & VIBRATION (IN   | MPACTS ON LOCAL COMMU   | NITIES    | 5)                         |          |               |                             |                         |   |  |               |                   |                          |
| No        | Assest  | Impact 9 Locislation  | L         | ikelihoo                   | d        | Pote          | ntial Sev                   | erity                   | Control (Mitigation Massures  | Pofto Control Diana  | Residu        | ual Risk F        | Rating                   |
| -         | Aspect  | Impact & Legislation  | L<br>High | ikelihoo<br><sub>Med</sub> | d<br>Low | Poter<br>High | ntial Sev<br><sub>Med</sub> | erity<br><sub>Low</sub> | Control/Mitigation Measures   | Ref to Control Plans   | Resid<br>High | ual Risk F<br>Med | Rating<br><sub>Low</sub> |
| No.<br>H1 | Aspect<br>Noise pollution to local<br>communities from<br>construction activities | Impact & LegislationNuisance & disturbance to local<br>communities due to noise caused by<br>construction activities and deliveries.Environmental protection Act 1990<br>Part III: Statutory NuisanceNoise & Statutory Nuisance Act 1993<br>Control of Noise (CoP for<br>Construction & Open Sites) Order<br>2002 |           |                            | -        |               |                             |                         | <ul> <li>Control/Mitigation Measures</li> <li>Identification of sensitive receptors</li> <li>Hours of noisy operations in accordance with planning approval. Any extension to this will not be carried out without a Section 61 agreement in place.</li> <li>Low noise methods of construction to be employed</li> <li>Low noise plant and equipment specified and used on site</li> <li>Regular monitoring of noise levels at perimeter of site (if required)</li> </ul> | Ref to Control Plans <ul> <li>Section 61 <ul> <li>Agreement</li> <li>ISG</li> <li>Environmental</li> <li>Management</li> <li>Plan</li> </ul> </li> </ul>                                   |               |                   |                          |

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| No. | Aspect  | Import 9 Logislation  | I    | Likelihoo | d   | Pote | ntial Sev | erity | Control/Mitigation Measures  | Ref to Control Plans   | Resid | ual Risk | Rating |
|-----|---|---|------|-----------|-----|------|-----------|-------|--|--|-------|----------|--------|
| NO. | Aspect  | Impact & Legislation  | High | Med       | Low | High | Med       | Low   | Control/Mitigation Measures  | Rel to Control Plans   | High  | Med      | Low    |
| J1  | Waste production from<br>construction activities          | Unnecessary waste of materials and<br>resources. Waste to landfill or<br>incineration. Opportunities for<br>recycling.<br>ISG Zero Waste to Landfill target<br>Landfill: Waste Acceptance Criteria<br>Environmental Permitting Regs: 2007<br>Hazardous Waste Regs: 2005<br>Controlled Waste Regs: 1992<br>Environmental Protection Act 1990<br>Part II: The Duty of Care<br>Site Waste Management Plan Regs:<br>2008<br>Waste Electrical and Electronic<br>Equipment (WEEE) Regs 2006 | •    |           |     |      | •         |       | <ul> <li>Reduce waste generated via workshops, reusable packaging and maximisation of offsite fabrication</li> <li>Good standards of housekeeping &amp; storage arrangements to avoid material damage</li> <li>Reuse of off cuts and materials wherever possible</li> <li>Segregation of waste streams in accordance with waste management contractors requirements for recycling</li> <li>Use of approved waste management contractors contractor by all suppliers and contractors</li> </ul> | <ul> <li>ISG Construction<br/>Environmental<br/>Management<br/>Plan</li> <li>Supplier<br/>contractual order<br/>documentation</li> <li>ISG Site Waste<br/>Management<br/>Plan</li> </ul> |       | •        |        |
| J2  | Waste production from site offices and welfare facilities | Waste to landfill or incineration.<br>Opportunities for recycling are<br>missed.<br>Controlled Waste Regs: 1992<br>Environmental Protection Act 1990<br>Part II: The Duty of Care<br>Site Waste Management Plan Regs:<br>2008   |      | •         |     |      |           | •     | <ul> <li>Segregation of organic waste from canteen</li> <li>Recycling facilities for office waste</li> </ul>   | ISG Site Waste<br>Management<br>Plan   |       |          | •      |

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#### K: WATER (USAGE) Likelihood Potential Severity **Residual Risk Rating** No. **Impact & Legislation Control/Mitigation Measures Ref to Control Plans** Aspect High Med Low High Med Low High Med Low К1 Use of water during Water wastage or unnecessary use. Control of water supply • ISG • • construction activities Leak prevention Environmental Water Resources Act 1991 • On site monitoring & control Management • Targets set for water consumption & Plan Water Act 2003 records kept К2 Use of water from welfare Water wastage or unnecessary use. • Low usage equipment to be used in welfare • ISG • facilities facilities (spray taps, waterless urinals etc.) Environmental • Water management equipment for toilets Management • Targets set for water consumption & Plan records kept L: WATER QUALITY (RELEASES TO WATER AND FLOODING) Likelihood Potential Severity **Residual Risk Rating** No. Impact & Legislation **Control/Mitigation Measures Ref to Control Plans** Aspect Med High Med Low High Low High Med Low L1 Soil erosion Sediment and silt residues • ISG • Plan for water runoff from storage areas • contaminating existing soil and water Prevention of runoff into controlled waters Environmental courses. and surface water drainage Management Plan • Regular monitoring of soil erosion Groundwater Regulations 2009 L2 Surface water runoff from Pollution to clean soil areas, surface • Plan for water runoff from contaminated • ISG • • contaminated soils water drains and watercourses. soils areas Environmental • Prevention of runoff foul water drainage Management Water Act 2003 • Proper storage areas for contaminated Plan soils.

Regular inspections & monitoring

| No. | Aspect  | Impact & Legislation  | L    | ikelihoo | d   | Pote | ntial Sev | verity | Control/Mitigation Measures  | Ref to Control Plans   | Resid | ual Risk I | Rating |
|-----|---|---|------|----------|-----|------|-----------|--------|--|--|-------|------------|--------|
| NO. | Aspect  | inipact & Legislation   | High | Med      | Low | High | Med       | Low    | Control/Witigation Measures  | Ker to control Plans   | High  | Med        | Low    |
| L3  | Leaks and spills of hazardous materials                                   | Pollution to surface water drains and<br>watercourses.<br>Control of Pollution Regulations 2001 | •    |          |     | •    |           |        | <ul> <li>Correct storage of hazardous materials</li> <li>Pollution prevention controls in place i.e. bunding, spill kits, drip trays etc.</li> <li>Double skinned oil tanks</li> <li>Spill kits available for all locations of hazardous materials</li> <li>Spill kits located in all items of plant i.e. excavators / forklift</li> </ul> | <ul> <li>ISG<br/>Environmental<br/>Management<br/>Plan</li> <li>As Built' record<br/>drawings of<br/>existing drainage<br/>systems</li> <li>ISG BPM Section<br/>6.4.4</li> <li>Contractor<br/>Method<br/>Statements</li> </ul> |       |            | •      |
| L4  | Flooding from storm water   | Pollution to clean soil areas, surface water drains and watercourses.                           |      |          | •   | •    |           |        | <ul> <li>Planned storage for hazardous materials</li> <li>Flood plan &amp; emergency procedures (see EMP)</li> <li>Storm controls to temporary drains</li> </ul>   | <ul> <li>ISG</li> <li>Environmental</li> <li>Management</li> <li>Plan</li> </ul>   |       |            | •      |
| L5  | Discharge of waters to foul<br>drains or controlled waters                | Pollution of controlled waters. Breach<br>of discharge consent to foul drainage<br>systems.     |      | •        |     | •    |           |        | <ul> <li>DC/WW required for discharge to foul<br/>drainage systems</li> <li>Treatment on site of water for discharge to<br/>controlled waters</li> <li>Regular monitoring &amp; inspections</li> </ul>   | <ul> <li>ISG<br/>Environmental<br/>Management<br/>Plan</li> <li>DC/WW<br/>Discharge<br/>Consents</li> </ul>  |       |            | •      |
| L6  | Damage to boreholes causing<br>pathway for contaminants to<br>the aquifer | Pollution of aquifer.<br>Groundwater Regs: 2009   |      | •        |     | •    |           |        | <ul> <li>Adequate protection of boreholes and<br/>working exclusion zone</li> <li>No storage of materials adjacent to<br/>boreholes</li> <li>Keeping boreholes free from rubbish</li> <li>Regular inspection of boreholes</li> </ul>   | <ul> <li>ISG<br/>Environmental<br/>Management<br/>Plan</li> </ul>  |       |            | •      |

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CEMP Appendix 1 - Environmental Aspects RA