

Appendix 5

Pest Control Plan

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Greenport Environmental Ltd,
The Red Church,
Henry Street, Limerick
22/10/08

Dear Margaret,

Thank you for the opportunity to quote for the provision of a documented pest management system at your new premises at Foynes Port and provides for:

- Service visits will be carried out monthly.
- Any emergency calls to be responded to on request and free of charge.
- Each service visit to be documented in a service report folder, which will also contain a computer generated plan of all bait points and details of product used.
- Large tamper resistant rat bait boxes to be installed in external areas at €9.75 plus VAT each. It is estimated that 24 of these would be required to provide adequate protection.
- Tamper resistant mouse bait boxes to be installed in indoor areas.

We would invoice at €72 per service, exclusive of V.A.T., for rodent control.

We would also like to point out that all our technicians are qualified to IPCA standard and as such operate to the Irish Pest Control Association's codes of practice. As a locally based company we can guarantee a fast and efficient response to any emergency call.

If this quotation is to your satisfaction we would be ready to start work at a days notice. If you have any further queries please contact me at 061 419901 or email at scpestcontrol@eircom.net

I will be glad to hear from you.

Regards,



Pat Roche

Tel 061 419901, Fax 061 419504
Email: scpestcontrol@eircom.net - Web: www.curtinpestcontrol.ie

Appendix 6

Asbestos Survey

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APPENDIX: ASBESTOS SURVEY

Carry out an asbestos survey to determine if the buildings on site contain asbestos containing material (ACM), and whether it is fit for purpose. If the lean to shed, which the applicant proposes to demolish contains asbestos, proposals shall be submitted (method statement) to include measures to minimize the risk of release of asbestos fibres into the atmosphere during the demolition and handling of ACM prior to its removal off site for appropriate treatment.

Asbestos Survey:

Introduction

Michael Punch & Partners, Consulting Engineers, were members of the original design team for the construction of an extension to the former Allied Smokeless Fuels Facility at Foynes, now the subject of a change of use planning application

In addition to undertaking a visual survey of the structure at Foynes to establish if the structure contains asbestos containing material (ACM), we have also reviewed our archived files to determine the materials specified at construction stage and any construction correspondence which may have superseded the drawings.

Site Survey

The site survey was undertaken on 20th November 2008 by Sinead Kennedy, BE, CEng and Gerard Neville.

Each elevation was examined and it was confirmed that all cladding materials are plastic coated metal decking. The roof structure was viewed from within the building and was also found to be constructed from metal decking. Drawing 061-306-019 Rev P0 refers.

The survey indicated that the existing cladding to the North of the site had significant moss growth and the cladding has discoloured from the effects of the elements.

It was also noted that some of the cladding fixings have corroded. This is likely to have resulted from the aggressive wind-borne salt from the estuary. The fixings appear to have been replaced in sections of the office block and further assessment should be undertaken to establish the extent of damage and the requirement to replace fixings.

The office structures were viewed however no opening up of partitions or ceilings was undertaken. There are no proposals to amend the layout of the office. However, the record drawings for the office block indicate that partitions were gyproc construction. Where internal amendments are proposed in the future, additional surveys will be undertaken to confirm that no Asbestos Containing Materials are present.

The lean-to shed to be removed was inspected and consists of plastic coated metal decking on structural steelwork. No insulation or internal partitions are present.

Conclusions

The building was inspected for the presence of Asbestos containing materials. Michael Punch & Partners confirm that the external roof and wall cladding to the building and existing lean-to structure consist of coated metal deck.

No opening up of the office building was undertaken. However, from available record information, it is considered that construction of the office building did not include the use of asbestos containing materials.

No amendments are proposed to the office structure. Where any future amendments are to be made to the office structure, additional surveys will be commissioned.

The cladding fixings to the building need to be assessed further to determine the extend of replacement due to corrosion.

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Appendix 7

National Parks & Wildlife Service Site Synopses

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SITE SYNOPSIS

SITE NAME: LOWER RIVER SHANNON

SITE CODE: 002165

This very large site stretches along the Shannon valley from Killaloe to Loop Head/ Kerry Head, a distance of some 120 km. The site thus encompasses the Shannon, Feale, Mulkear and Fergus Estuaries, the freshwater lower reaches of the River Shannon (between Killaloe and Limerick), the freshwater stretches of much of the Feale and Mulkear catchments and the marine area between Loop Head and Kerry Head. The Shannon and Fergus flow through Carboniferous limestone as far as Foynes, but west of Foynes Namurian shales and flagstones predominate (except at Kerry Head, which is formed from Old Red Sandstone). The eastern sections of the Feale catchment flow through Namurian Rocks and the western stretches through Carboniferous Limestone. The Mulkear flows through Lower Palaeozoic Rocks in the upper reaches before passing through Namurian Rocks, followed by Lower Carboniferous Shales and Carboniferous Limestone. The Mulkear River itself, immediately north of Pallas Green, passes through an area of Rhyolites, Tuffs and Agglomerates. Rivers within the sub-catchment of the Feale include the Galey, Smearlagh, Oolagh, Allaughaun, Owveg, Clydagh, Caher, Breanagh and Glenacarne. Rivers within the sub-catchment of the Mulkear include the Killeenagarraff, Annagh, Newport, the Dead River, the Bilboa, Glashacloonaraveela, Gortnageragh and Cahernahallia.

The site is a candidate SAC selected for lagoons and alluvial wet woodlands, both habitats listed on Annex I of the E.U. Habitats Directive. The site is also selected for floating river vegetation, *Molinia* meadows, estuaries, tidal mudflats, Atlantic salt meadows, Mediterranean salt meadows, *Salicornia* mudflats, sand banks, perennial vegetation of stony banks, sea cliffs, reefs and large shallow inlets and bays all habitats listed on Annex I of the E.U. Habitats Directive. The site is also selected for the following species listed on Annex II of the same directive – Bottle-nosed Dolphin, Sea Lamprey, River Lamprey, Brook Lamprey, Freshwater Pearl Mussel, Atlantic Salmon and Otter.

The Shannon and Fergus Estuaries form the largest estuarine complex in Ireland. They form a unit stretching from the upper tidal limits of the Shannon and Fergus Rivers to the mouth of the Shannon estuary (considered to be a line across the narrow strait between Kilcredaun Point and Kilconly Point). Within this main unit there are several tributaries with their own 'sub-estuaries' e.g. the Deel River, Mulkear River, and Maigne River. To the west of Foynes, a number of small estuaries form indentations in the predominantly hard coastline, namely Poulnasherry Bay, Ballylongford Bay, Clonderalaw Bay and the Feale or Cashen River Estuary.

Both the Fergus and inner Shannon estuaries feature vast expanses of intertidal mudflats, often fringed with saltmarsh vegetation. The smaller estuaries also feature mudflats, but have their own unique characteristics, e.g. Poulnasherry Bay is stony and unusually rich in species and biotopes. Plant species are typically scarce on the mudflats, although there are some Eel-grass beds (*Zostera* spp.) and patches of green algae (e.g. *Ulva* sp. and *Enteromorpha* sp.). The main macro-invertebrate community, which has been noted from the inner Shannon and Fergus estuaries, is a *Macoma-Scrobicularia-Nereis* community.

In the transition zone between mudflats and saltmarsh, specialised colonisers of mud predominate: swards of Common Cord-grass (*Spartina anglica*) frequently occur in the upper parts of the estuaries. Less common are swards of Glasswort (*Salicornia europaea* agg.). In the innermost parts of the estuaries, the tidal channels or creeks are fringed with species

such as Common Reed (*Phragmites australis*) and Club-rushes (*Scirpus maritimus*, *S. tabernaemontani* and *S. triqueter*). In addition to the nationally rare Triangular Club-rush (*Scirpus triqueter*), two scarce species are found in some of these creeks (e.g. Ballinacurra Creek): Lesser Bulrush (*Typha angustifolia*) and Summer Snowflake (*Leucojum aestivum*).

Saltmarsh vegetation frequently fringes the mudflats. Over twenty areas of estuarine saltmarsh have been identified within the site, the most important of which are around the Fergus Estuary and at Ringmoylan Quay. The dominant type of saltmarsh present is Atlantic salt meadow occurring over mud. Characteristic species occurring include Common Saltmarsh Grass (*Puccinellia maritima*), Sea Aster (*Aster tripolium*), Thrift (*Armeria maritima*), Sea-milkwort (*Glaux maritima*), Sea Plantain (*Plantago maritima*), Red Fescue (*Festuca rubra*), Creeping Bent (*Agrostis stolonifera*), Saltmarsh Rush (*Juncus gerardi*), Long-bracted Sedge (*Carex extensa*), Lesser Sea-spurrey (*Spergularia marina*) and Sea Arrowgrass (*Triglochin maritima*). Areas of Mediterranean salt meadows, characterised by clumps of Sea Rush (*Juncus maritimus*) occur occasionally. Two scarce species are found on saltmarshes in the vicinity of the Fergus Estuary: a type of robust Saltmarsh-grass (*Puccinellia foucaudii*), sometimes placed within the compass of Common Saltmarsh-grass (*Puccinellia maritima*) and Hard-grass (*Parapholis strigosa*).

Saltmarsh vegetation also occurs around a number of lagoons within the site. The two which have been surveyed as part of a National Inventory of Lagoons are Shannon Airport Lagoon and Cloonconeen Pool. Cloonconeen Pool (4-5 ha) is a natural sedimentary lagoon impounded by a low cobble barrier. Seawater enters by percolation through the barrier and by overwash. This lagoon represents a type which may be unique to Ireland since the substrate is composed almost entirely of peat. The adjacent shore features one of the best examples of a drowned forest in Ireland. Aquatic vegetation in the lagoon includes typical species such as Beaked Tasselweed (*Ruppia maritima*) and green algae (*Cladophora* sp.). The fauna is not diverse, but is typical of a high salinity lagoon and includes six lagoon specialists (*Hydrobia ventrosa*, *Cerastoderma glaucum*, *Lekanesphaera hookeri*, *Palaemonetes varians*, *Sigara stagnalis* and *Enochrus bicolor*). In contrast, Shannon Airport Lagoon (2 ha) is an artificial saline lake with an artificial barrier and sluiced outlet. However, it supports two Red Data Book species of Stonewort (*Chara canescens* and *Chara cf. connivens*).

Most of the site west of Kilcredaun Point/Kilconly Point is bounded by high rocky sea cliffs. The cliffs in the outer part of the site are sparsely vegetated with lichens, Red Fescue, Sea Beet (*Beta vulgaris*), Sea Campion (*Silene maritima*), Thrift and Plantains (*Plantago* spp.). A rare endemic Sea Lavender (*Limonium recurvum* subsp. *pseudotranswallinum*) occurs on cliffs near Loop Head. Cliff-top vegetation usually consists of either grassland or maritime heath. The boulder clay cliffs further up the estuary tend to be more densely vegetated, with swards of Red Fescue and species such as Kidney Vetch (*Anthyllis vulneraria*) and Bird's-foot Trefoil (*Lotus corniculatus*).

The site supports an excellent example of a large shallow inlet and bay. Littoral sediment communities in the mouth of the Shannon Estuary occur in areas that are exposed to wave action and also in areas extremely sheltered from wave action. Characteristically, exposed sediment communities are composed of coarse sand and have a sparse fauna. Species richness increases as conditions become more sheltered. All shores in the site have a zone of sand hoppers at the top and below this each of the shores has different characteristic species giving a range of different shore types in the pcSAC.

The intertidal reefs in the Shannon Estuary are exposed or moderately exposed to wave action and subject to moderate tidal streams. Known sites are steeply sloping and show a

good zonation down the shore. Well developed lichen zones and littoral reef communities offering a high species richness in the sublittoral fringe and strong populations of *Paracentrotus lividus* are found. The communities found are tolerant to sand scour and tidal streams. The infralittoral reefs range from sloping platforms with some vertical steps to ridged bedrock with gullies of sand between the ridges to ridged bedrock with boulders or a mixture of cobbles, gravel and sand. Kelp is very common to about 18m. Below this it becomes rare and the community is characterised by coralline crusts and red foliose algae.

Other coastal habitats that occur within the site include the following:

stony beaches and bedrock shores - these shores support a typical zonation of seaweeds (*Fucus* spp., *Ascophyllum nodosum* and kelps).

shingle beaches - the more stable areas of shingle support characteristic species such as Sea Beet, Sea Mayweed (*Matricaria maritima*), Sea Campion and Curled Dock (*Rumex crispus*).

Sandbanks which are slightly covered by sea water at all times – there is a known occurrence of sand/gravel beds in the area from Kerry Head to Beal Head.

sand dunes - a small area of sand dunes occurs at Beal Point. The dominant species is Marram Grass (*Ammophila arenaria*).

Flowing into the estuaries are a number of tidal rivers. In some cases non-tidal portions of the rivers have been included in the site, most notably the Shannon from Killaloe to Limerick (along with some of its tributaries, such as the Mulkear and Feale catchments and the Kilmastulla River), the Fergus up as far as Ennis, and the Cloon River. The three rivers are very different in character: the Shannon being broad, generally slow-flowing and naturally eutrophic; the Fergus being smaller and alkaline; while the narrow, fast-flowing Cloon is acid in nature. Semi-natural habitats, such as wet grassland, wet woodland and marsh occur by the rivers, however, improved grassland is most common. One grassland type of particular conservation significance, *Molinia* meadows, occurs in several parts of the site and the examples at Worldsend on the River Shannon are especially noteworthy. Here are found areas of wet meadow dominated by rushes and sedges and supporting a diverse and species-rich vegetation, including such uncommon species as Blue-eyed Grass (*Sisyrinchium bermudiana*) and Pale Sedge (*Carex pallescens*).

Floating river vegetation characterised by species of Water-crowfoot (*Ranunculus* spp.), Pondweeds (*Potamogeton* spp.) and the moss *Fontinalis antipyretica* are present throughout the major river systems within the site. The rivers contain an interesting bryoflora with *Schistidium alpicola* var. *alpicola* recorded from in-stream boulders on the Bilboa, new to county Limerick.

Alluvial woodland occurs on the banks of the Shannon and on islands in the vicinity of the University of Limerick. The woodland is up to 50m wide on the banks and somewhat wider on the largest island. The most prominent woodland type is gallery woodland where White Willow (*Salix alba*) dominates the tree layer with occasional Alder (*Alnus glutinosa*). The shrub layer consists of various willow species with sally (*Salix cinerea* ssp. *oleifolia*) and what appear to be hybrids of *S. alba* x *S. viminalis*. The herbaceous layer consists of tall perennial herbs. A fringe of Bulrush (*Typha* sp.) occurs on the riverside of the woodland. On slightly higher ground above the wet woodland and on the raised embankment remnants of mixed oak-ash-alder woodland occur. These are poorly developed and contain numerous exotic species but locally there are signs that it is invading open grassland. Alder is the principal tree species with occasional Oak (*Quercus robur*), Elm (*Ulmus glabra*, *U. procera*), Hazel (*Corylus avellana*), Hawthorn (*Crataegus monogyna*) and the shrubs Guelder-rose (*Viburnum opulus*) and willows. The ground flora is species-rich.

Woodland is infrequent within the site, however Cahiracon Wood contains a strip of old Oak woodland. Sessile Oak (*Quercus petraea*) forms the canopy, with an understorey of Hazel and Holly (*Ilex aquifolium*). Great Wood-rush (*Luzula sylvatica*) dominates the ground flora. Less common species present include Great Horsetail (*Equisetum telmateia*) and Pendulous Sedge (*Carex pendula*).

In the low hills to the south of the Slievefelim mountains, the Cahernahallia River cuts a valley through the Upper Silurian rocks. For approximately 2km south of Cappagh Bridge at Knockanavar, the valley sides are wooded. The woodland consists of Birch (*Betula* spp.), Hazel, Oak, Rowan (*Sorbus aucuparia*), some Ash (*Fraxinus excelsior*) and Willow (*Salix* spp.). Most of the valley is not grazed by stock, and as a result the trees are regenerating well. The ground flora feature prominent Greater wood-rush and Bilberry (*Vaccinium myrtillus*) with a typical range of woodland herbs. Where there is more light available, Bracken (*Pteridium aquilinum*) features.

The valley sides of the Bilboa and Gortnageragh Rivers, on higher ground north east of Cappamore, support patches of semi-natural broadleaf woodland dominated by Ash, Hazel, Oak and Birch. There is a good scrub layer with Hawthorn, Willow, Holly and Blackthorn (*Prunus spinosa*) common. The herb layer in these woodlands is often open with a typically rich mixture of woodland herbs and ferns. Moss species diversity is high. The woodlands are ungrazed. The hazel is actively coppiced in places.

There is a small area of actively regenerating cut away raised bog at Ballyrorheen. It is situated approx. 5km north west of Cappamore Co. Limerick. The bog contains some wet areas with good moss (*Sphagnum*) cover. Species of particular interest include the Cranberry (*Vaccinium oxycoccos*) and the White Sedge (*Carex curta*) along with two other regionally rare mosses including *S. fimbriatum*. The site is being invaded by Birch (*Betula pubescens*) scrub woodland. Both commercial forestry and the spread of rhododendron has greatly reduced the overall value of the site.

A number of plant species that are Irish Red Data Book species occur within the site - several are protected under the Flora (Protection) Order, 1999:

Triangular Club-rush (*Scirpus triquetus*) - in Ireland this protected species is only found in the Shannon Estuary, where it borders creeks in the inner estuary.

Opposite-leaved Pondweed (*Groenlandia densa*) - this protected pondweed is found in the Shannon where it passes through Limerick City.

Meadow Barley (*Hordeum secalinum*) - this protected species is abundant in saltmarshes at Ringmoylan and Mantlehill.

Hairy Violet (*Viola hirta*) - this protected violet occurs in the Askeaton/Foynes area.

Golden Dock (*Rumex maritimus*) - noted as occurring in the River Fergus Estuary.

Bearded Stonewort (*Chara canescens*) - a brackish water specialist found in Shannon Airport lagoon.

Convergent Stonewort (*Chara connivens*) - presence in Shannon Airport Lagoon to be confirmed.

Overall, the Shannon and Fergus Estuaries support the largest numbers of wintering waterfowl in Ireland. The highest count in 1995-96 was 51,423 while in 1994-95 it was 62,701. Species listed on Annex I of the E.U. Birds Directive which contributed to these totals include: Great Northern Diver (3; 1994/95), Whooper Swan (201; 1995/96), Pale-bellied Brent Goose (246; 1995/96), Golden Plover (11,067; 1994/95) and Bar-tailed Godwit (476; 1995/96). In the past, three separate flocks of Greenland White-fronted Goose were regularly found but none were seen in 1993/94.

Other wintering waders and wildfowl present include Greylag Goose (216; 1995/96), Shelduck (1,060; 1995/96), Wigeon (5,976; 1995/96); Teal (2,319; 1995-96); Mallard (528; 1995/96), Pintail (45; 1995/96), Shoveler (84; 1995/96), Tufted Duck (272; 1995/96), Scaup (121; 1995/96), Ringed Plover (240; 1995/96), Grey Plover (750; 1995/96), Lapwing (24,581; 1995/96), Knot (800; 1995/96), Dunlin (20,100; 1995/96), Snipe (719, 1995/96), Black-tailed Godwit (1062; 1995/96), Curlew (1504; 1995/96), Redshank (3228; 1995/96), Greenshank (36; 1995/96) and Turnstone (107; 1995/96). A number of wintering gulls are also present, including Black-headed Gull (2,216; 1995/96), Common Gull (366; 1995/96) and Lesser Black-backed Gull (100; 1994/95). This is the most important coastal site in Ireland for a number of the waders including Lapwing, Dunlin, Snipe and Redshank. It also provides an important staging ground for species such as Black-tailed Godwit and Greenshank.

A number of species listed on Annex I of the E.U. Birds Directive breed within the site. These include Peregrine Falcon (2-3 pairs), Sandwich Tern (34 pairs on Rat Island, 1995), Common Tern (15 pairs: 2 on Sturamus Island and 13 on Rat Island, 1995), Chough (14-41 pairs, 1992) and Kingfisher. Other breeding birds of note include Kittiwake (690 pairs at Loop Head, 1987) and Guillemot (4010 individuals at Loop Head, 1987)

There is a resident population of Bottle-nosed Dolphin in the Shannon Estuary consisting of at least 56-68 animals (1996). This is the only known resident population of this E.U. Habitats Directive Annex II species in Ireland. Otter, a species also listed on Annex II of this directive, is commonly found on the site.

Five species of fish listed on Annex II of the E.U. Habitats Directive are found within the site. These are Sea Lamprey (*Petromyzon marinus*), Brook Lamprey (*Lampetra planeri*), River Lamprey (*Lampetra fluviatilis*), Twaite Shad (*Allosa fallax fallax*) and Salmon (*Salmo salar*). The three lampreys and Salmon have all been observed spawning in the lower Shannon or its tributaries. The Fergus is important in its lower reaches for spring salmon while the Mulkear catchment excels as a grilse fishery though spring fish are caught on the actual Mulkear River. The Feale is important for both types. Twaite Shad is not thought to spawn within the site. There are few other river systems in Ireland which contain all three species of Lamprey.

Two additional fish of note, listed in the Irish Red Data Book, also occur, namely Smelt (*Osmerus eperlanus*) and Pollan (*Coregonus autumnalis pollan*). Only the former has been observed spawning in the Shannon.

Freshwater Pearl-mussel (*Margaritifera margaritifera*), a species listed on Annex II of the E.U. Habitats Directive, occurs abundantly in parts of the Cloon River.

There is a wide range of landuses within the site. The most common use of the terrestrial parts is grazing by cattle and some areas have been damaged through over-grazing and poaching. Much of the land adjacent to the rivers and estuaries has been improved or reclaimed and is protected by embankments (especially along the Fergus Estuary). Further, reclamation continues to pose a threat as do flood relief works (e.g. dredging of rivers). Gravel extraction poses a major threat on the Feale.

In the past, Cord-grass (*Spartina* sp.) was planted to assist in land reclamation. This has spread widely, and may oust less vigorous colonisers of mud and may also reduce the area of mudflat available to feeding birds.

Domestic and industrial wastes are discharged into the Shannon, but water quality is generally satisfactory - except in the upper estuary, reflecting the sewage load from Limerick City. Analyses for trace metals suggest a relatively clean estuary with no influences by

industrial discharges apparent. Further industrial development along the Shannon and water polluting operations are potential threats.

Fishing is a main tourist attraction on the Finn and there are a large number of Angler Associations, some with a number of beats. Fishing stands and styles have been erected in places. The River Feale is a designated Salmonid Water under the E.U. Freshwater Fish Directive. Other uses of the site include commercial angling, oyster farming, boating (including dolphin-watching trips) and shooting. Some of these may pose threats to the birds and dolphins through disturbance. Specific threats to the dolphins include underwater acoustic disturbance, entanglement in fishing gear and collisions with fast moving craft.

This site is of great ecological interest as it contains a high number of habitats and species listed on Annexes I and II of the E.U. Habitats Directive, including the priority habitat lagoon, the only known resident population of Bottle-nosed Dolphin in Ireland and all three Irish lamprey species. A good number of Red Data Book species are also present, perhaps most notably the thriving populations of Triangular Club-rush. A number of species listed on Annex I of the E.U. Birds Directive are also present, either wintering or breeding. Indeed, the Shannon and Fergus Estuaries form the largest estuarine complex in Ireland and support more wintering wildfowl and waders than any other site in the country. Most of the estuarine part of the site has been designated a Special Protection Area (SPA), under the E.U. Birds Directive, primarily to protect the large numbers of migratory birds present in winter.

24.5.2004

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SITE SYNOPSIS

SITE NAME: RIVER SHANNON AND RIVER FERGUS ESTUARIES SPA

SITE CODE: 004077

The estuaries of the River Shannon and River Fergus form the largest estuarine complex in Ireland. The site comprises all of the estuarine habitat west from Limerick City and south from Ennis, extending west as far as Killadysert and Foynes on the north and south shores respectively of the River Shannon (a distance of some 25 km from east to west). Also included are several areas in the outer Shannon estuary, notably Clonderalaw Bay and Poulnasherry Bay, as well as the intertidal areas on the south shore of the Shannon between Tarbert and Beal Point.

The site has vast expanses of intertidal flats. The main macro-invertebrate community present is a *Macoma-Scrobicularia-Nereis* community which provides a rich food resource for the wintering birds. Other species occurring include Common Cockle (*Cerastoderma edule*), Lugworm (*Arenicola marina*), the polychaete *Nephtys hombergii*, the gastropod *Hydrobia ulvae* and the crustacean *Corophium volutator*. Eelgrass (*Zostera* spp.) is present in places, along with green algae (e.g. *Ulva* spp. and *Enteromorpha* spp.). Salt marsh vegetation frequently fringes the mudflats and this provides important high tide roost areas for the wintering birds. Characteristic species occurring include Common Saltmarsh-grass (*Puccinellia maritima*), Sea Aster (*Aster tripolium*), Thrift (*Armeria maritima*), Sea-milkwort (*Glaux maritima*), Sea Plantain (*Plantago maritima*), Red Fescue (*Festuca rubra*) and Saltmarsh Rush (*Juncus gerardi*). In the innermost parts of the estuaries, the tidal channels or creeks are fringed with species such as Common Reed (*Phragmites australis*) and club-rushes (*Scirpus maritimus*, *S. lacustris* subsp. *tabernaemontani*). Also found is the nationally rare Triangular Club-rush (*Scirpus triquetus*). Elsewhere in the site the shoreline comprises stony or shingle beaches.

The site is the most important coastal wetland site in the country and regularly supports in excess of 50,000 wintering waterfowl (mean of 59,183 for the 4 seasons 1996-97 to 1999/00), a concentration easily of international importance. The site has internationally important populations of Dunlin (14,987), Black-tailed Godwit (706) and Redshank (1,983) - all figures are average peaks for 3 of the 5 seasons in the 1995/96-1999/00 period. A further 16 species have populations of national importance, i.e. Cormorant (148), Whooper Swan (141), Greylag Goose (88), Shelduck (895), Wigeon (3,025), Teal (1,558), Pintail (40), Shoveler (56), Scaup (76), Golden Plover (4,073), Grey Plover (564), Lapwing (13,007), Knot (686), Bar-tailed Godwit (481), Curlew (1,231) and Greenshank (33). The site is among the most important in the country for several of these species, notably Dunlin (11% of national total), Grey Plover (7.5% of total), Lapwing (6.5% of total), Redshank (6% of total) and Shelduck (6.0% of total). The site is also used by Oystercatcher (363), Ringed Plover (70), Brent Goose (135), Great Crested Grebe (47), Red-breasted Merganser (14), Mallard (247), Turnstone (71), Mute Swan (54), Grey Heron (25), Black-headed Gull (1,233) and Common Gull (194). The Shannon / Fergus system was formerly frequented by a Greenland White-fronted Goose population but this declined during the 1980s and 1990s and the birds now appear to have abandoned the area. The site provides both feeding and roosting areas for the wintering birds. Habitat quality for most of the estuarine habitats is good. Some species, particularly Whooper Swan and Greylag Goose, utilise areas outside of the site for feeding.

Apart from the wintering birds, large numbers of some species also pass through the site whilst on migration in spring and/or autumn. Regular species include Black-tailed Godwit, Whimbrel and Greenshank.

Much of the land adjacent to the rivers and estuaries has been reclaimed and improved for agriculture and is protected by embankments (especially along the River Fergus estuary). Further reclamation, especially near to the urbanised and industrial areas continues to pose a threat. The site receives pollution from several sources, including industry and agriculture, but it is not known if this has any significant impacts on the wintering birds. Aquaculture occurs in some areas of the site – future increases in this activity could cause disturbance to the habitats and the associated birds. Common Cord-grass (*Spartina anglica*) is well-established and may threaten some of the estuarine habitats. Some disturbance occurs from boating activities.

This site is of great ornithological interest, being of international importance on account of the numbers of wintering birds it supports. It also supports internationally important numbers of three species, i.e. Dunlin, Black-tailed Godwit and Redshank. In addition, there are 16 species that have populations of national importance. For several of the bird species, it is the top site in the country. Also of note is that three of the species which occur regularly are listed on Annex I of the E.U. Birds Directive, i.e. Whooper Swan, Golden Plover and Bar-tailed Godwit. The site is most effectively censused from the air and this is carried out in most winters.

1.4.2005

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SITE SYNOPSIS

SITE NAME: BARRIGONE

SITE CODE: 000432

Barrigone is situated approximately 5km west of Askeaton, County Limerick. The site comprises an area of dry, species-rich, calcareous grassland and patches of scrub on a gentle, north-east-facing slope. The underlying limestone outcrops occasionally, and the proximity of the site to the Shannon Estuary adds a maritime influence.

The open calcareous grassland supports an impressive range of plant species. Cowslip (*Primula veris*), Mountain Everlasting (*Antennaria dioica*), Carlina Thistle (*Carlina vulgaris*), Wild Thyme (*Thymus praecox*), Wood Sage (*Teucrium scorodonia*) and Violets (*Viola* spp.) are present, while Burnet Rose (*Rosa pimpinellifolia*) is abundant and scattered throughout the grassland. The maritime influence is evident in the presence in the sward of Sea Plantain (*Plantago maritima*).

The orchid flora is particularly well-developed and diverse, with eight species being recorded on recent visits. These include Fragrant Orchid (*Gymnadenia conopsea*), Frog Orchid (*Coeloglossum viride*), Butterfly Orchid (*Platanthera bifolia*), Pyramidal Orchid (*Anacamptis pyramidalis*) and the scarce Irish Orchid (*Neotinea maculata*).

A range of scrub types are present, including a dense stand of Hazel (*Corylus avellana*) towards the south, and a small area dominated by Juniper (*Juniperus communis*). Blackthorn (*Prunus spinosa*), Hawthorn (*Crataegus monogyna*) and Gorse (*Ulex europaeus*) also form scrub patches, and these tend to be less species-rich than other habitats present.

Hairy Violet (*Viola hirta*), a species protected under the Flora Protection Order (1987) occurs at Barrigone. The site also holds a large population of the Marsh Fritillary butterfly (*Euphydryas aurinia*), a species listed under Annex II of the European Habitats Directive.

The primary threat to this site is quarrying. Grazing is also an important factor: overgrazing would cause damage to the vegetation, while undergrazing would allow scrub encroachment at the expense of grassland species which require more open conditions. A balance between scrub and grassland is also important for invertebrate species.

A number of factors, including substrate, bedrock, microclimate and maritime influence, contribute to the floristic richness at Barrigone and hence to the ecological interest of this site. The presence of rare species of plant and invertebrate highlight the site's conservation value.

14.6.1999

SITE SYNOPSIS

SITE NAME: STURAMUS ISLAND

SITE CODE: 001436

Sturamus Island is a small islet situated less than 1 km from Foynes Island within the estuary of the River Shannon.

In 1984, 35 pairs of Common Terns were nesting. Also present were 40 Black-headed Gulls, three Herring Gulls and two Great Black-backed Gulls.

This site is the only tern colony in Co. Limerick.

11.07.1995

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Appendix 8

Appropriate Assessment

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Appropriate Assessment Screening Document

Greenport Environmental Composting Facility

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Planning & Environmental Consultants

DOCUMENT DETAILS

Client: **Greenport Environmental**

Project title: **Composting Facility**

Project Number: **080907**

Document Title: **Appropriate Assessment Screening Document**

Doc. File Name: **080907 – AAR – 2009.05.20 – F**

Prepared By: **McCarthy Keville O’Sullivan Ltd.**

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Table of Contents

1	Introduction.....	1
2	Features of the Project.....	2
2.1	Purposes & Objectives of Proposed Development	2
2.2	Site Location	2
2.3	Size, Scale & Land Take.....	2
2.4	Changes to the Site resulting from the Proposed Development.....	3
2.5	Timescales	3
2.6	Waste Arisings	4
2.7	Wastes in Relation to Natura 2000 sites	4
2.8	Additional Services	5
3	Description of Natura 2000 site	5
3.1	Site Description.....	5
3.2	Conservation Objectives.....	5
3.3	Nature Conservation Initiatives	6
3.4	Baseline Conditions	6
3.5	Value of the Site within Natura 2000 Network.....	6
3.6	Likely Changes in the Absence of the Project	6
3.7	Methodologies used in Gathering Information	7
3.8	Organisations Consulted.....	7
4	Screening Assessment.....	8
4.1	Screening Matrix.....	8
4.2	Cumulative Impacts	9
5	Finding of No Significant Effects Report (FONSE).....	10
5.1	Greenport Environmental Composting Facility	10
5.2	Assessment of Significance of Effects	10
5.3	Data Collected to Carry Out Assessment.....	11
5.4	Overall Conclusions	11

1 INTRODUCTION & SUMMARY

This document serves to screen for the requirement to carry out an EU Habitats Directive Article 6(3) Appropriate Assessment in relation to a proposed composting facility to be located at Foynes, Co Limerick. The information required to undertake the screening process has been gained from the EIA that was carried out as part of the planning application.

Section Two of this document describes all features of the proposed facility. Section Three describes the nearby SAC/SPA and baseline conditions within it. Section Four is a screening assessment that evaluates the information in preceding sections to determine whether an Article 6(3) Appropriate Assessment is required. Section Five comprises a **Finding of No Significant Effects report (FONSE)**, confirming the findings of the screening assessment in Section Four. In this case, there was a finding of no significant effects on the SAC/SPA resulting from the proposed development. None had been identified in the EIA or were identified in subsequent screening investigations and therefore, an Article 6(3) Appropriate Assessment was considered un-necessary

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2 FEATURES OF THE PROJECT

2.1 Purposes & Objectives of Proposed Development

Greenport Environmental Ltd. propose to construct a fully enclosed anaerobic digestion and in-vessel composting facility, capable of receiving up to 50,000 tonnes of organic waste per annum.

Given the anticipated efficiency of the proposed facility, which will incorporate the use of the Best Available Technology (BAT), it is envisaged that the plant may be capable of processing up to 50,000 tonnes of material per annum. Initially however, the facility will treat 40,000 tonnes of organic waste per annum. This material will comprise source-separated organic waste (household brown bin waste) and mechanically separated organic fines from mixed municipal solid waste (MSW). Each of the waste streams will be separately processed at all stages.

It is estimated that by the end of 2010, the likely annual quantities processed at the facility will be approximately 19,000 tonnes of source-separated brown bin waste (domestic and commercial) and 21,000 tonnes of mechanically separated organic waste from MSW. These quantities are estimates based on the successful roll-out of brown bin collections to domestic and commercial customers in urban areas within the Region, in line with the *'National Strategy on Biodegradable Waste'*. In line with the Strategy, the facility is designed to handle both mechanically separated and source-separated organic waste. As source-separated collection of organic waste increases, the facility will dedicate more capacity to the separate treatment of this material.

2.2 Site Location

The site of the proposed development is located within the Shannon Foynes Port Area, in the townland of Durnish, on the southern side of the Shannon Estuary, Co. Limerick, as shown on Figure 2.1. The Port Area is located approximately 30 kilometres downstream of Limerick City. The boundary of the proposed development site, which lies in the northeastern section of the Port Area, is shown on Figure 2.2. The site is wholly owned by Greenport Environmental Ltd. and is not under the administrative control of the Shannon Foynes Port Company. A layout of the proposed development is shown in Figure 2.3.

2.3 Size, Scale & Land Take

The site of the proposed development measures 17.24 acres (6.694 Hectares) and currently comprises a vacant, L-shaped, warehouse and external concrete surfaced yard. The warehouse is located in the northwestern corner of the site and occupies a floor space of 4554.5 square metres (0.45 Hectares). The existing warehouse, as viewed from the east, is shown in Plate 2.1. The proposed composting and biogas facility will be constructed within this existing warehouse and in an extension to this building to be constructed in the external yard. The completed structures will have a total area of approximately 1.3 hectares all located within the site area. Although the site is approximately 6.69 Hectares in size, the proposed development will only utilise an area of approximately 3.424 hectares at the western end, leaving the rest of the site unused.



Map Legend




Site of Proposed Development

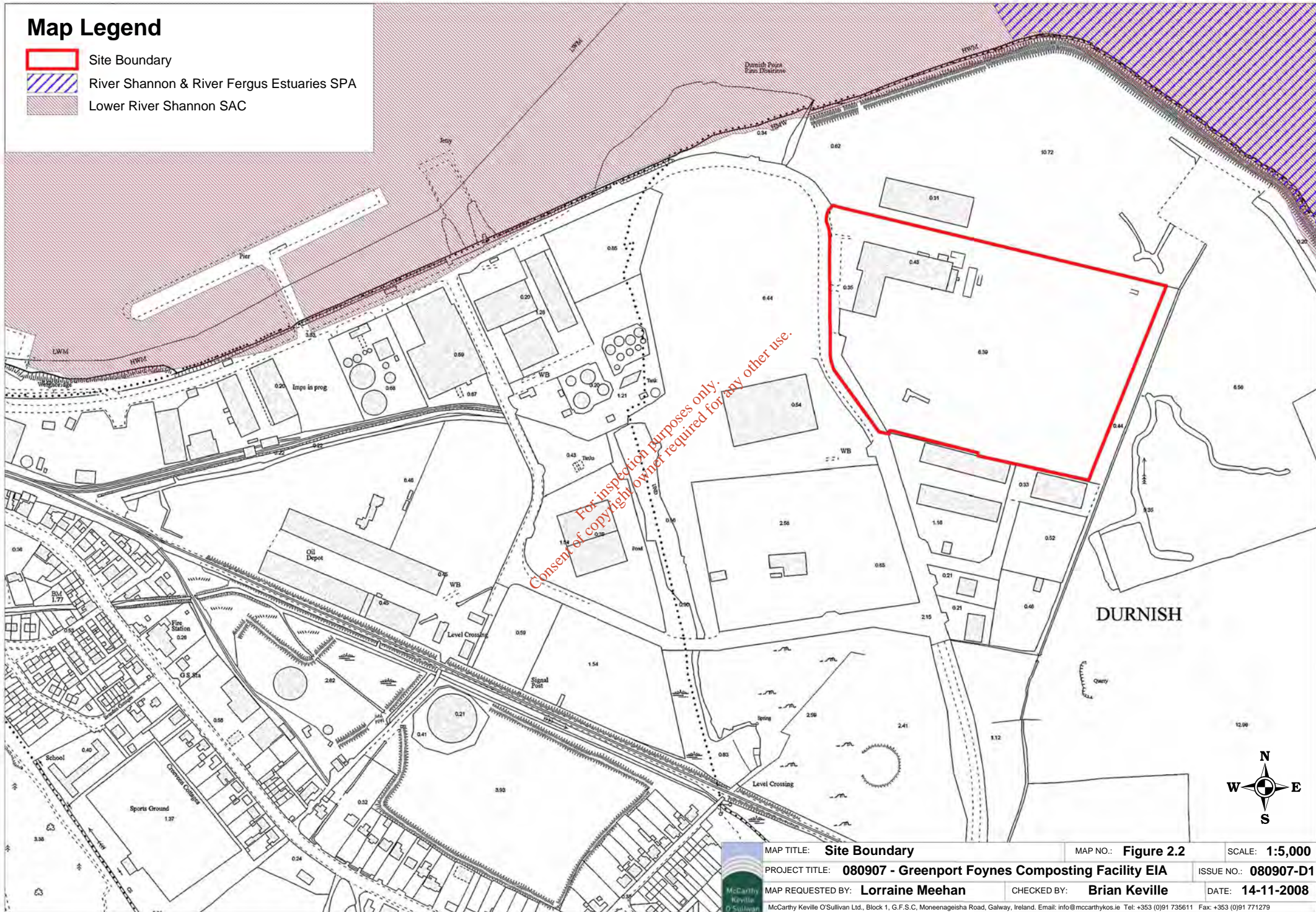
Comment: Site of Proposed Development purposes only - not required for any other use.

MAP TITLE: Site Location Map	MAP NO.: Figure 2.1	SCALE: 1:50,000
PROJECT TITLE: 080907 - Greenport Foynes EIS	ISSUE NO.: 080907-2008.11.14-D1	
MAP DRAWN/MODIFIED BY: Lorraine Meehan	CHECKED BY: Brian Keville	DATE: 14-11-2008


McCarthy Keville O'Sullivan

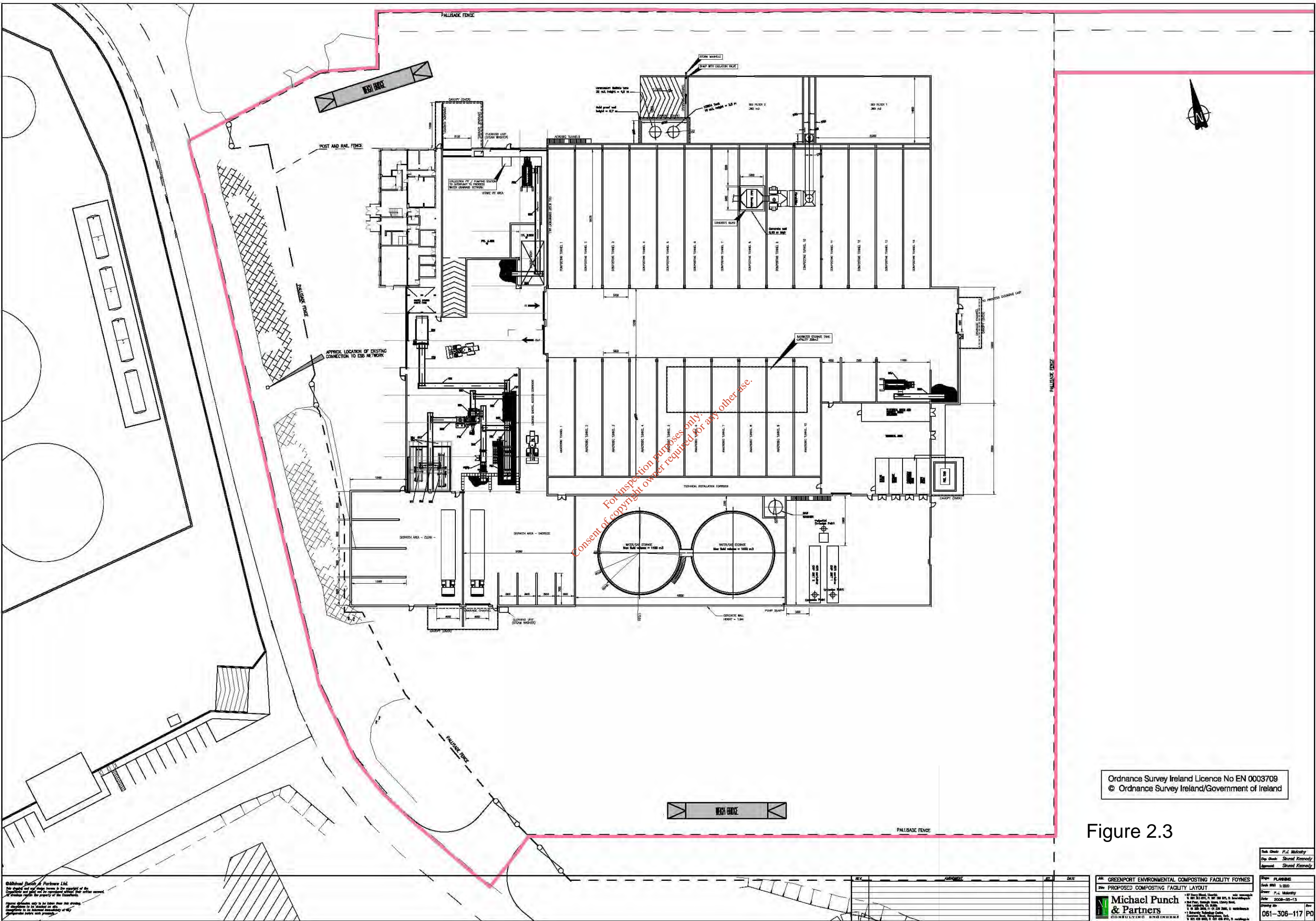
Map Legend

-  Site Boundary
-  River Shannon & River Fergus Estuaries SPA
-  Lower River Shannon SAC



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	MAP TITLE: Site Boundary	MAP NO.: Figure 2.2	SCALE: 1:5,000
	PROJECT TITLE: 080907 - Greenport Foynes Composting Facility EIA	ISSUE NO.: 080907-D1	
	MAP REQUESTED BY: Lorraine Meehan	CHECKED BY: Brian Keville	DATE: 14-11-2008
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Figure 2.3

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Desk Check: P.J. McLooney
 Eng. Check: Shred Kennedy
 Approval: Shred Kennedy

GREENPORT ENVIRONMENTAL COMPOSTING FACILITY FOYNES		Stage: PLANNING
PROPOSED COMPOSTING FACILITY LAYOUT		Scale: A3 1:200
		Drawn: P.J. McLooney
47 Park Street, Dublin 4 9, 11 & 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 49, 51, 53, 55, 57, 59, 61, 63, 65, 67, 69, 71, 73, 75, 77, 79, 81, 83, 85, 87, 89, 91, 93, 95, 97, 99, 101, 103, 105, 107, 109, 111, 113, 115, 117, 119, 121, 123, 125, 127, 129, 131, 133, 135, 137, 139, 141, 143, 145, 147, 149, 151, 153, 155, 157, 159, 161, 163, 165, 167, 169, 171, 173, 175, 177, 179, 181, 183, 185, 187, 189, 191, 193, 195, 197, 199, 201, 203, 205, 207, 209, 211, 213, 215, 217, 219, 221, 223, 225, 227, 229, 231, 233, 235, 237, 239, 241, 243, 245, 247, 249, 251, 253, 255, 257, 259, 261, 263, 265, 267, 269, 271, 273, 275, 277, 279, 281, 283, 285, 287, 289, 291, 293, 295, 297, 299, 301, 303, 305, 307, 309, 311, 313, 315, 317, 319, 321, 323, 325, 327, 329, 331, 333, 335, 337, 339, 341, 343, 345, 347, 349, 351, 353, 355, 357, 359, 361, 363, 365, 367, 369, 371, 373, 375, 377, 379, 381, 383, 385, 387, 389, 391, 393, 395, 397, 399, 401, 403, 405, 407, 409, 411, 413, 415, 417, 419, 421, 423, 425, 427, 429, 431, 433, 435, 437, 439, 441, 443, 445, 447, 449, 451, 453, 455, 457, 459, 461, 463, 465, 467, 469, 471, 473, 475, 477, 479, 481, 483, 485, 487, 489, 491, 493, 495, 497, 499, 501, 503, 505, 507, 509, 511, 513, 515, 517, 519, 521, 523, 525, 527, 529, 531, 533, 535, 537, 539, 541, 543, 545, 547, 549, 551, 553, 555, 557, 559, 561, 563, 565, 567, 569, 571, 573, 575, 577, 579, 581, 583, 585, 587, 589, 591, 593, 595, 597, 599, 601, 603, 605, 607, 609, 611, 613, 615, 617, 619, 621, 623, 625, 627, 629, 631, 633, 635, 637, 639, 641, 643, 645, 647, 649, 651, 653, 655, 657, 659, 661, 663, 665, 667, 669, 671, 673, 675, 677, 679, 681, 683, 685, 687, 689, 691, 693, 695, 697, 699, 701, 703, 705, 707, 709, 711, 713, 715, 717, 719, 721, 723, 725, 727, 729, 731, 733, 735, 737, 739, 741, 743, 745, 747, 749, 751, 753, 755, 757, 759, 761, 763, 765, 767, 769, 771, 773, 775, 777, 779, 781, 783, 785, 787, 789, 791, 793, 795, 797, 799, 801, 803, 805, 807, 809, 811, 813, 815, 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Plate 2.1 View of existing warehouse from the centre of the propose development site

2.4 Changes to the Site resulting from the Proposed Development

The proposed development will involve the construction of an extension to the existing warehouse on the site and the demolition of a lean-to building on the existing building. This will result in the addition of 8719 square metres of internal floorspace. Fermentation tanks and a weighbridge will also be constructed on the site. All the proposed works will take place within the curtilage of the existing structure on the site and on lands that are either within the existing building or form part of the concrete yard area that surrounds it.

No other physical changes are proposed.

2.5 Timescales

The proposed composting and biogas facility will be constructed in one phase. It is anticipated that the duration of the construction phase will be approximately six months.

The hours of operation for the proposed facility will be 24 hours a day, 365 days a year. Material will only be accepted at the site during the hours of 8:00am to 6:00pm, six days a week.

2.6 Waste Arisings

All process operations associated with the proposed composting and biogas facility will take place indoors on an impermeable surface. The only waste arisings from the site will be Air exiting the composting tunnels. Treated wastewater from the on site toilets and run off of surface water from the roofs and external yard area.

The exhaust air exiting the tunnels will be conveyed initially to a scrubber to neutralise any basic gases prior to discharge to the humidifier. The scrubber will also reduce any dust and bioaerosols that may be present in the air. The scrubber will use sulphuric acid (H₂SO₄) as a reagent. This reagent will be dosed by a dosing pump, which is monitored continuously and controlled automatically. The water discharge will be automatically controlled by conductivity measurement whereas level sensors will control the water make-up in the scrubber. The scrubber and associated storage tanks will be bunded to 110% capacity and under cover to protect from rain ingress.

All process wastewater generated will be contained in bunded storage tanks and re-used within the process. There will therefore be no process discharges off-site to ground or surface water.

Toilets are available onsite within the existing warehouse building, from which wastewater currently discharges to an onsite septic tank. A 'Puraflo' mechanical treatment unit or equivalent will be installed onsite to replace this septic tank. This upgrade will be completed at the beginning of the construction works to ensure there is no impact on emissions to the sewer during the construction phase. Emission limits for the discharge of treated effluent from the onsite wastewater treatment unit will be assigned by the EPA as part of the waste licencing process for the facility. The treated effluent will discharge to the Shannon via an existing outfall provided as part of the contract for an adjacent facility. Following discussions between Greenport Environmental Ltd. and the Shannon Foynes Port Authority, the connection from the onsite treatment unit will be made to this sewer, which is currently under construction on the Port Road. This sewer will be taking treated effluent from an adjacent site and the outfall to the estuary is currently under construction.

Surface water run-off from external surfaced areas will discharge via a Class 1 hydrocarbon interceptor to the small watercourse on the eastern boundary of the site. The Shannon Estuary will be the final receiving water for external surface water run-off from the site during the construction and operational phases of the development. Class 1 interceptors achieve a concentration of 5 mg/litre of oil under test conditions. The hydrocarbon interceptor will be installed at the start of the project to prevent any impacts during the construction or the operational phase. During the construction phase all vehicles will be inspected for leaks prior to entering the site.

A lighting plan for the proposed development site has been prepared. There will be no light spill outside the proposed development site.

2.7 Wastes in Relation to Natura 2000 sites

The waste arisings that are of greatest relevance to the adjacent Natura 2000 sites are those that will be released into the designated site. These are the treated effluent from the on-site toilets and surface water run off.

2.8 Additional Services

All additional services required by the proposed development are shown on Figure 2.4(drainage plan) and Figure 2.5 (lighting plan)

3 DESCRIPTION OF NATURA 2000 SITE

3.1 Site Description

The National Parks and Wildlife Service (NPWS) publish synopses of the information regarding areas designated for conservation. The site of the proposed development is situated just over 100 metres south of the Lower River Shannon SAC, the River Shannon & River Fergus estuaries SPA (Site Codes 002165/004077). The Lower River Shannon SAC covers an area of approximately 72,000 hectares. The following is an extract from the NPWS site synopsis that is shown in full as Appendix 7 to the EIS.

“The River Shannon SAC is a very large site which stretches along the Shannon valley from Killaloe to Loop Head/ Kerry Head, a distance of some 120 km. The site thus encompasses the Shannon, Feale, Mulkear and Fergus Estuaries, the freshwater lower reaches of the River Shannon (between Killaloe and Limerick), the freshwater stretches of much of the Feale and Mulkear catchments and the marine area between Loop Head and Kerry Head.

The Shannon and Fergus Estuaries support the largest numbers of wintering waterfowl in Ireland. The highest count in 1995-96 was 51,423 while in 1994-95 it was 62,701. Species listed on Annex I of the E.U. Birds Directive which contributed to these totals include: Great Northern Diver (3; 1994/95), Whooper Swan (201; 1995/96), Pale-bellied Brent Goose (246; 1995/96), Golden Plover (11,067; 1994/95) and Bar-tailed Godwit (476; 1995/96). In the past, three separate flocks of Greenland White-fronted Goose were regularly found but none were seen in 1993/94.

A number of species listed on Annex I of the E.U. Birds Directive breed within the site. These include Peregrine Falcon (2-3 pairs), Sandwich Tern (34 pairs on Rat Island, 1995), Common Tern (15 pairs: 2 on Sturamus Island and 13 on Rat Island, 1995), Chough (14-41 pairs, 1992) and Kingfisher. Other breeding birds of note include Kittiwake (690 pairs at Loop Head, 1987) and Guillemot (4010 individuals at Loop Head, 1987).”

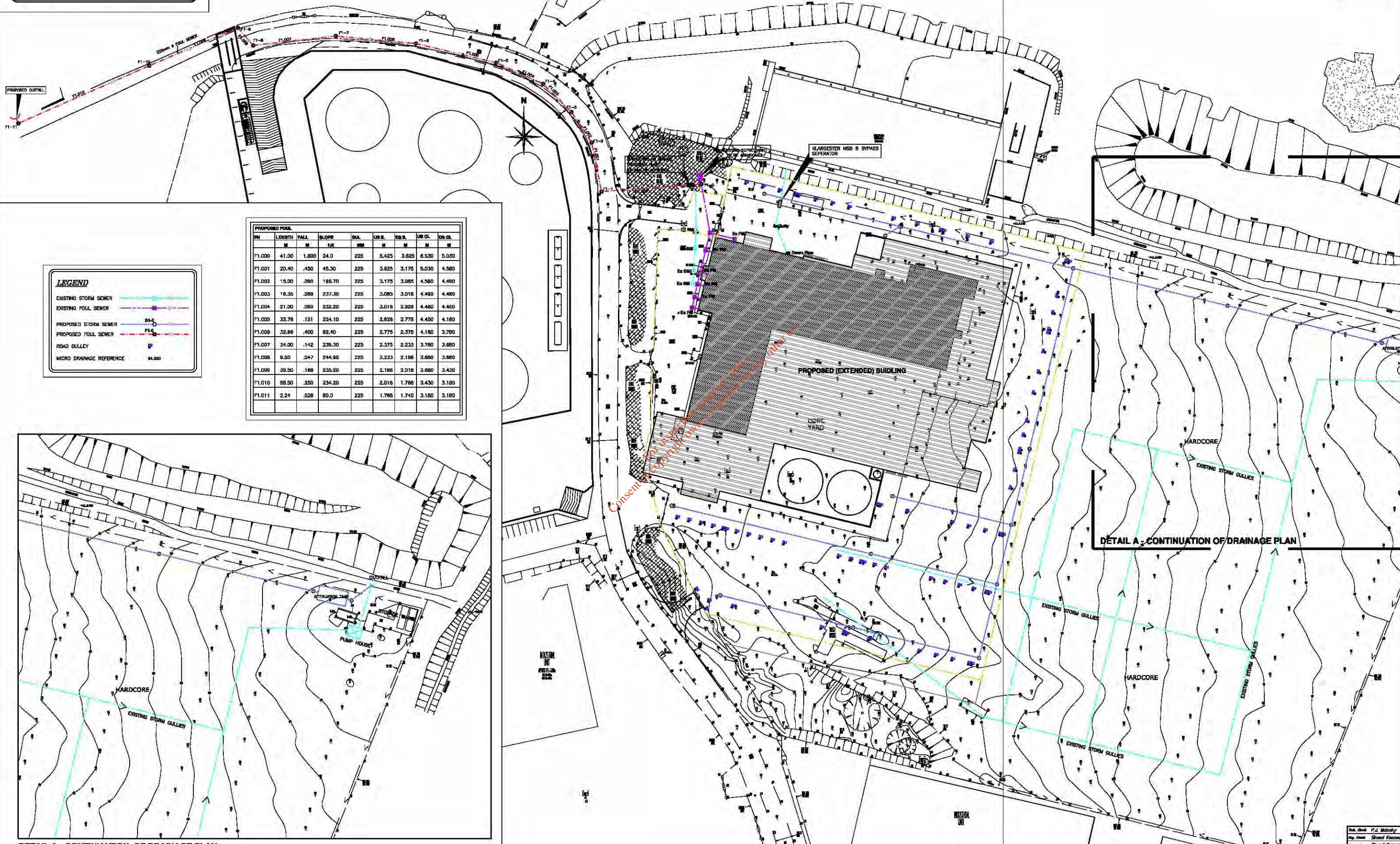
3.2 Conservation Objectives

The Conservation Objectives of the Lower River Shannon cSAC are listed below:

- To maintain the Annex I habitats for which the site has been selected at favourable conservation status. These being:
 - Mudflats and sandflats not covered by seawater at low tide.
 - Coastal lagoons.
 - Vegetated sea cliffs of the Atlantic and Baltic coasts
 - Salicornia and other annuals colonizing mud and sand Atlantic Water courses of plain to montane levels with the Ranunculion fluitantis and Callitriche-Batrachion vegetation
 - salt meadows (Glauco-Puccinellietalia maritimae)
 - Mediterranean salt meadows (Juncetalia maritimi)

Figure 2.4

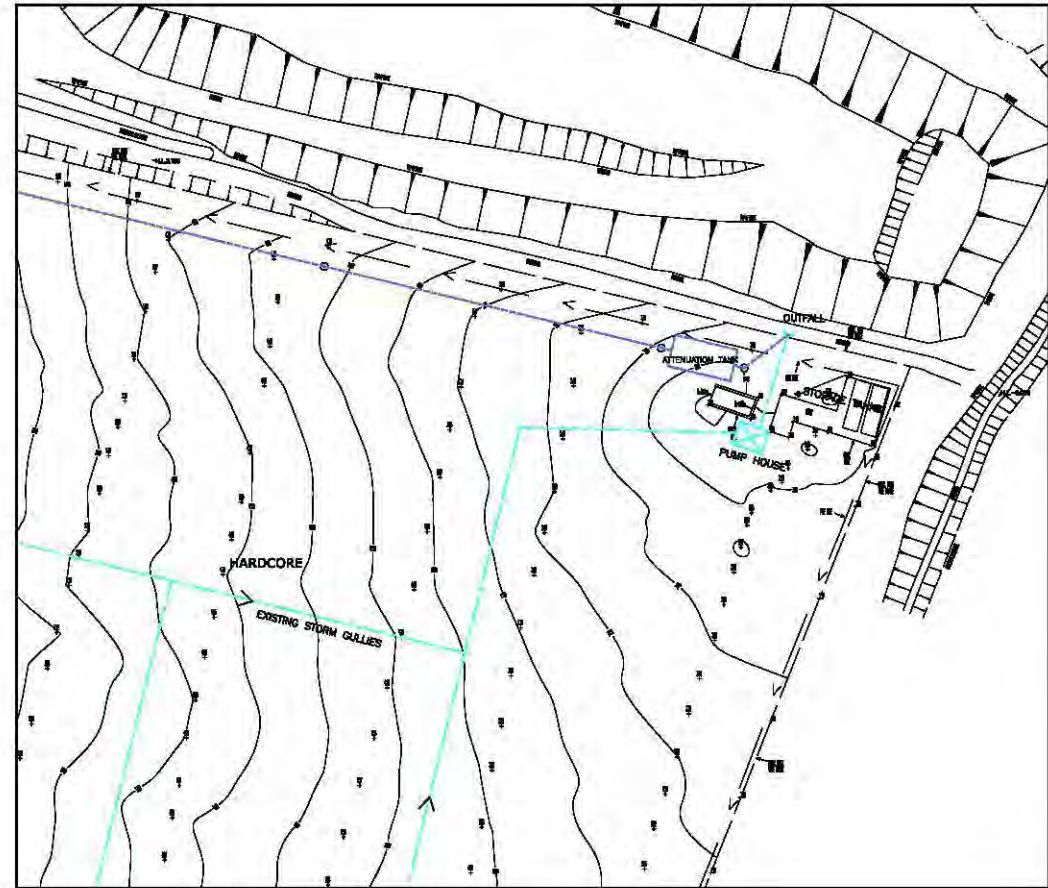
NOTE:
 ALL SURVEY INFORMATION TAKEN FROM
 EMC SURVEYS, SURVEY OF SITE DEVELOPMENT
 FOYNES PORT, DWG NO. 04-062-001 DATED 12-07-04
 ALL LEVELS SHOWN IN METRES RELATIVE TO
 STATION EMCS - VALUE 6.93 METRES
 ORDNANCE DATUM MALIN HEAD.



PN	LENGTH M	FALL M	SLOPE 1%	DIA. MM	US B. M	DS B. M	UB CL. M	DS CL. M
F1.000	41.00	1.800	24.0	225	5.425	3.825	6.530	5.030
F1.001	20.40	.450	45.30	225	3.825	3.175	5.030	4.580
F1.002	15.00	.090	166.70	225	3.175	3.085	4.580	4.490
F1.003	16.35	.069	237.30	225	3.085	3.016	4.480	4.480
F1.004	21.00	.090	232.20	225	3.016	2.926	4.480	4.450
F1.005	33.78	.151	224.10	225	2.926	2.775	4.450	4.180
F1.006	32.88	.400	82.40	225	2.775	2.375	4.180	3.780
F1.007	34.00	.142	239.30	225	2.375	2.233	3.780	3.680
F1.008	9.50	.047	244.90	225	2.233	2.186	3.680	3.680
F1.009	39.50	.188	235.20	225	2.186	2.018	3.680	3.430
F1.010	98.50	.250	234.20	225	2.018	1.788	3.430	3.180
F1.011	2.24	.028	80.0	225	1.788	1.740	3.180	3.180

LEGEND

- EXISTING STORM SEWER
- EXISTING FOUL SEWER
- PROPOSED STORM SEWER
- PROPOSED FOUL SEWER
- ROAD GULLEY
- MICRO DRAINAGE REFERENCE



DETAIL A - CONTINUATION OF DRAINAGE PLAN

DETAIL A - CONTINUATION OF DRAINAGE PLAN

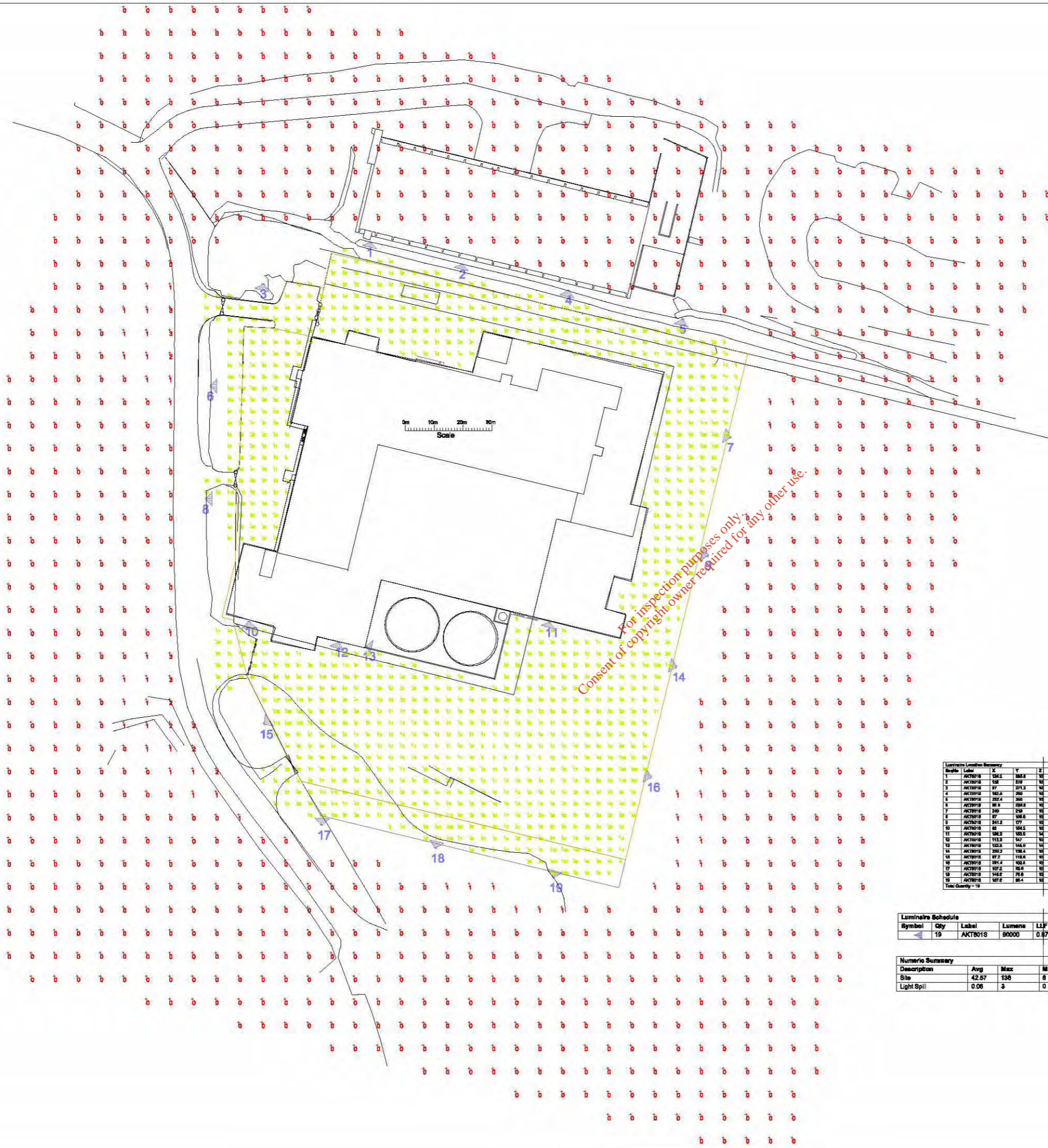
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REV.	AMENDMENT	BY	DATE

GREENPORT ENVIRONMENTAL COMPOSTING FACILITY FOYNES
 DRAINAGE LAYOUT

Michael Punch & Partners
 CONSULTING ENGINEERS

Proj. No: 061-306-104
 Date: 2009-04-28
 Drawn: P.J. Mulcahy
 Check: Sioned Kennedy
 Approved: Sioned Kennedy



Akra cut-off Floodlight Series
Floodlighting

Available in a wide range of sizes, the Aktra cut-off floodlight provides precise light control and uniformity of beam spread. It is ideal for commercial applications where light spillage is not an option.

Consistent, clean light distribution. Floodlighting with increased precision. Floodlighting with increased precision. Floodlighting with increased precision.

Available in a wide range of sizes, the Aktra cut-off floodlight provides precise light control and uniformity of beam spread. It is ideal for commercial applications where light spillage is not an option.

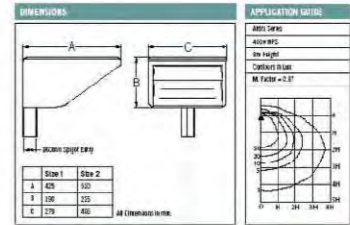
Consistent, clean light distribution. Floodlighting with increased precision. Floodlighting with increased precision. Floodlighting with increased precision.

Available in a wide range of sizes, the Aktra cut-off floodlight provides precise light control and uniformity of beam spread. It is ideal for commercial applications where light spillage is not an option.

Consistent, clean light distribution. Floodlighting with increased precision. Floodlighting with increased precision. Floodlighting with increased precision.

www.light.ie

Veelite



Wedge	Loop Type	Size	Code	Details
10W	SP1	1	AKT101	AKT 100W Floodlight
15W	SP1	2	AKT151	AKT 150W Floodlight
20W	SP1	3	AKT201	AKT 200W Floodlight
30W	SP1	4	AKT301	AKT 300W Floodlight
40W	SP1	5	AKT401	AKT 400W Floodlight
50W	SP1	6	AKT501	AKT 500W Floodlight
60W	SP1	7	AKT601	AKT 600W Floodlight
70W	SP1	8	AKT701	AKT 700W Floodlight
80W	SP1	9	AKT801	AKT 800W Floodlight
90W	SP1	10	AKT901	AKT 900W Floodlight
100W	SP1	11	AKT1001	AKT 1000W Floodlight

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Symbol	Qty	Label	Lumens	LLF	Description	Filename
19	1	AKT901S	90000	0.870	AKTRA 900w HPS	AKT901S.lvs

Symbol	Qty	Label	Lumens	LLF	Description	Filename
19	1	AKT901S	90000	0.870	AKTRA 900w HPS	AKT901S.lvs

Description	Avg	Max	Min	Min/Avg	Min/Max	Units	PtSpclr	PtSpCth	\$ Pts
Site	42.57	138	8	0.19	0.06	Lux	4	4	1082
Light Spill	0.06	3	0	N.A.	N.A.	Lux	8	8	1221

Figure 2.5

PLANNING ISSUE

Don O'Malley & Partners
Consulting Engineers - Building Services

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Email: services@domalley.com Web: www.domalley.com

APPROVED: JM CHECKED: BC DRAWN: RMC DATE: Mar 2008

ARCHITECT: Michael Punch & Partners
Henry R. Lusk
CLIENT: Mr. Brian Lusk
Luskmore, Co. Limerick

PROJECT: Greenport Environmental Composting Facility
POWERS, Co. Limerick
TITLE: Electrical Installation, Lighting Services - Site Lighting

SCALE: 1:500 at AO JOB NO: 1062 DWG NO: E001

- Sandbanks which are slightly covered by sea water all the time
 - Large shallow inlets and bays
 - Reefs
 - Perennial vegetation of stony banks
 - *Spartina* swards (*Spartinion maritimae*)
 - *Molinia* meadows on calcareous, peaty or clayey-silt-laden soils (*Molinion caeruleae*)
 - Alluvial forests with *Alnus glutinosa* and *Fraxinus excelsior* (*Alno-Padion*, *Alnion incanae*, *Salicion albae*)
- To maintain the Annex II species for which the site has been selected at conservation status. These being:
 - *Lampetra fluviatilis*
 - *Lampetra planeri*
 - *Petromyzon marinus*
 - *Salmo salar*
 - *Tursiops truncatus*
 - *Lutra lutra*
 - *Margaritifera margaritifera*
 - *Petromyzon marinus*
 - To maintain the extent, species richness and biodiversity of the entire site
 - To establish effective liaison with landowners, legal users and relevant authorities.

3.3 Nature Conservation Initiatives

The implementation of the EU Water Framework Directive will require that all waterbodies that are included within the site are either improved to or maintained at good water quality status.

3.4 Baseline Conditions

The site synopses for the relevant designated sites are shown in full in Appendix 7 to the EIS. These describe the baseline conditions over the sites as a whole.

3.5 Value of the Site within Natura 2000 Network

This site is of high ecological interest as it contains a high number of habitats and species listed on Annexes I and II of the E.U. Habitats Directive, including the priority habitat lagoon, the only known resident population of Bottle-nosed Dolphin in Ireland and all three Irish lamprey species. A good number of Red Data Book species are also present, perhaps most notably the thriving populations of Triangular Club-rush. A number of species listed on Annex I of the E.U. Birds Directive are also present, either wintering or breeding. Indeed, the Shannon and Fergus Estuaries form the largest estuarine complex in Ireland and support more wintering wildfowl and waders than any other site in the country. It supports internationally important numbers of three species, i.e. Dunlin, Black-tailed Godwit and Redshank. In addition, there are 16 bird species that have populations of national importance.

3.6 Likely Changes in the Absence of the Project

The designated site covers a large area with many variables that could contribute to changes that may affect the entire site or sections of it. To evaluate all the possible

changes that may occur, regardless of the proposed development, is beyond the scope of this report.

3.7 Methodologies used in Gathering Information

In preparation of the EIS, the following methodologies were used to gather information

- Field Visit to the site of the proposed development
- Review of NPWS Site Synopsis
- Review of other literature pertinent to the site including Flora and Bird Atlases
- Consultation with relevant authorities and bodies

The complete flora and fauna study carried out is provided in Section Five of the EIS

3.8 Organisations Consulted

A scoping report providing details regarding the site of the proposed development, the proposed facility, and the methodology to be employed in surveying the site, was prepared by McCarthy Keville O'Sullivan Ltd. as part of the EIS process and sent to a number of consultees for comment including the Development Application Unit of the Department of the Environment, Heritage and Local Government (DoEHLG), the Heritage Officer of Limerick County Council, the EPA and the Shannon Regional Fisheries Board.

At the date of writing this report, two scoping responses relevant to the ecology of the site had been received. The recommendations of the Heritage Officer of Limerick County Council included:

- The development should take into account the presence of the nearby SAC site in terms of pollution mitigation measures during the construction and operation phases.
- The lighting associated with the development to be designed and orientated so as to prevent excessive light spill on to the estuary, in order to minimise disturbance to any wildfowl that might be using the estuary

The scoping response from the Development Applications Unit of the DoEHLG set out the nature conservation recommendations of the National Parks & Wildlife Service (NPWS). The letter stated that an appropriate assessment of the impacts of the proposed development on the River Shannon SAC and the River Shannon and River Fergus Estuaries SPA would be required.

4 SCREENING ASSESSMENT

The following section uses information from the Impacts sections of the chapters in the EIS to address specific assessment criteria contained as a screening matrix in the Guidelines for the Assessment of Plans and Projects Significantly affecting Natura 2000 Sites.

4.1 Screening Matrix

Describe the individual elements of the project (either alone or in combination with other plans or projects) that may give rise to impacts on the Natura 2000 Sites

- None

Describe any likely direct, indirect or secondary impacts of the project (either alone or in combination with other plans or projects) on the Natura 200 sites by virtue of:

- **Size and Scale**
None
- **Land Take**
None
- **Distance from Natura 2000 site**
100 metres at closest point
- **Resource Requirements (water abstraction etc..)**
None
- **Emissions (disposal to land, air or water)**
All emissions subject to suitably designed mitigation to prevent pollution in any form
- **Excavation Requirements**
None
- **Transportation Requirements**
None
- **Duration of construction, operation, decommissioning etc...**
None
- **Other**
None

Describe any likely changes to the sites arising as a result of:

- **Reduction in Habitat area:**
None
- **Disturbance to Key Species**
None

- **Habitat or species fragmentation**
None
- **Reduction in Species Density**
None
- **Changes in Key Indicators of conservation Value (Water Quality etc..)**
None
- **Climate Change**
None

Describe any likely impacts on the Natura 2000 sites as a whole in terms of:

- **Interference with the key relationships that define the structure of the site**
None
- **Interference with the key relationships that define the function of the site**
None

Provide indicators of significance as a result of the identification of effects set out above in terms of:

- **Loss**
N/A
- **Fragmentation**
N/A
- **Disruption**
N/A
- **Changes to key elements of the sites (e.g. water quality etc.).**
N/A

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Describe from the above those elements of the project or plan, or combination of elements, where the above impacts are likely to be significant or where the scale or magnitude of impacts is not known.

- None

4.2 Cumulative Impacts

No direct or significant indirect impacts on the SAC were identified in the EIS or in the process of carrying out the screening matrix. Given also that all significant impacts on flora and fauna that were identified in the EIS were adequately mitigated through process and design, there is no likelihood of this development contributing to any significant cumulative impacts on the SAC/SPA.

5 FINDING OF NO SIGNIFICANT EFFECTS REPORT (FONSE)

5.1 Greenport Environmental Composting Facility

Name and location of Natura 2000 sites

- Lower River Shannon SAC, the River Shannon & River Fergus estuaries SPA (Site Codes 002165/004077)
- Approx 100 metres to the north of the site at nearest point

Description of Project

- Greenport Environmental Ltd. propose to construct a fully enclosed anaerobic digestion and in-vessel composting facility, capable of receiving up to 50,000 tonnes of organic waste per annum.
- The site of the proposed development measures 17.24 acres (6.694 Hectares)

Is the project directly connected with or necessary to the management of the site.

- No

Are there any other projects or plans that together with the project being assessed could affect the site

- No

5.2 Assessment of Significance of Effects

Describe how the project is likely to affect the Natura 2000 site

- The project as planned will not significantly affect sites

Explain why these effects are not considered significant

- 100 metre buffer between development site and Natura 2000 site
- Best environmental practice to be employed and fully described in the EIS

List of Agencies Consulted

- Development Application Unit of the Department of the Environment, Heritage and Local Government (DoEHLG)
- Heritage Officer of Limerick County Council
- The EPA
- Shannon Regional Fisheries Board.

Response to Consultation

- The development should take into account the presence of the nearby SAC site in terms of pollution mitigation measures during the construction and operation phases.
- The lighting associated with the development to be designed and orientated so as to prevent excessive light spill on to the estuary, in order to minimise disturbance to any wildfowl that might be using the estuary

- An appropriate assessment of the impacts of the proposed development on the River Shannon SAC and the River Shannon and River Fergus Estuaries SPA would be required.

5.3 Data Collected to Carry Out Assessment

In preparation of the EIS, the following methodologies were used to gather information.

- Field Visit to the site of the proposed development
- Review of NPWS Site Synopsis
- Review of other literature pertinent to the site including Flora and Bird Atlases
- Consultation with relevant authorities and bodies
- These surveys were carried out by Lorraine Meehan B.Sc (Env), Dervla O'Dowd B.Sc (Env) and Jennifer Fisher B.Sc (Ecology). All the above are employees of McCarthy, Keville, O'Sullivan Ltd.

5.4 Overall Conclusions

- The site of the proposed development is located over 100 metres from the lands that are designated for conservation with a buffer of agricultural grassland, a building and a tree line located between the site and the estuary. The proposed development will include the planting of a line of trees along this border to further screen the site from the SAC/SPA
- The site is already developed as an industrial site and has been used until recently as an industrial facility. The proposed changes in use will not result in a major difference in disturbance levels at the site.
- The proposed process at the site is to be located entirely indoors and will be fully enclosed. The only discharges from the site are described below:
 - Storm water from the roofs and hard standing areas will be discharged from the site but will first be treated in a hydrocarbon/silt interceptor
 - Sewage from the toilets on the site will be treated with a Puraflow treatment system or equivalent as opposed to the septic tank that is currently in use on the site
 - Gasses will be discharged from the waste composting process but will be subject to "scrubbing" prior to release
- The lighting associated with the proposed development will be focussed internally onto the site and away from areas of ecological sensitivity. It will not affect the adjacent designated sites.
- The general area of Foynes port is highly industrial and the proposed development will not be located in a previously undisturbed or rural area. It will not be an obvious disturbance in the area.
- The EIA that was carried out in relation to this project carried out a full impact assessment and found no significant impacts on the SAC/SPA
- Based on information presented above and included within the EIS, a **Finding of No Significant Effects (FONSE)** has been reached. This serves as a screening assessment and precludes the requirement to carry out a full Article 6(3) Appropriate Assessment.

Appendix 9

Species List

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	Latin	Plant List
Trees	<i>Buddleja davidii</i>	Butterfly Bush
	<i>Fagus sylvatica</i>	Beech
	<i>Fraxinus excelsior</i>	Ash
	<i>Rubus Fruticosus</i>	Bramble
	<i>Salix cinerea</i>	Sally
	<i>Sambucus nigra</i>	Elder
Grasses	<i>Agrostis stolonifera</i>	Creeping Bent
	<i>Brachypodium sylvaticum</i>	False Brome
	<i>Cynosurus cristatus</i>	Crested Dog's-tail
	<i>Dactylis glomerata</i>	Cock's Foot
	<i>Festuca ovina</i>	Sheep's Fescue
	<i>Festuca rubra</i>	Red Fescue
	<i>Holcus lanatus</i>	Yorkshire Fog
	<i>Poa annua</i>	Annual Meadow Grass
Herbs	<i>Bellis perennis</i>	Daisy
	<i>Brassica rapa</i>	Rape
	<i>Clematis vitalba</i>	Traveller's-joy
	<i>Conyza canadensis</i>	Canadian Fleabane
	<i>Crepis biennis</i>	Rough Hawk's Beard
	<i>Daucus carota</i>	Wild Carrot
	<i>Epilobium sp.</i>	Willowherb
	<i>Geranium molle</i>	Dove's-foot Crane's-bill
	<i>Hypochoeris radicata</i>	Common Cat's-ear
	<i>Lotus corniculatus</i>	Bird's-foot Trefoil
	<i>Matricaria matricarioides</i>	Pineappleweed
	<i>Medicago lupulina</i>	Black Medick
	<i>Odontites verna</i>	Red Bartsia
	<i>Pilosella officinarum</i>	Mouse Ear Hawkweed
	<i>Plantago lanceolata</i>	Ribwort Plantain
	<i>Plantago major</i>	Greater Plantain
	<i>Potentilla anserina</i>	Silverweed
	<i>Prunella vulgaris</i>	Selfheal
	<i>Ranunculus repens</i>	Creeping Buttercup
	<i>Raphanus raphanistrum</i>	Wild Radish
	<i>Rumex conglomeratus</i>	Clustered Dock
	<i>Rumex crispus</i>	Curled Dock
	<i>Rumex obtusifolius</i>	Broad Dock
	<i>Sagina sp.</i>	
	<i>Saxifraga tridactylites</i>	Rue-leaved Saxifrage
	<i>Scrophularia nodosa</i>	Figwort
	<i>Senecio jacobaea</i>	Ragwort
	<i>Senecio vulgaris</i>	Groundsel
	<i>Sisymbrium officinale</i>	Hedge Mustard
	<i>Sonchus oleraceus</i>	Smooth Sow-thistle
	<i>Stachys sylvatica</i>	Hedge Woundwort
	<i>Taraxacum officinale</i>	Dandelion
	<i>Trifolium pratense</i>	Red Clover
	<i>Trifolium repens</i>	White Clover
<i>Tussilago farfara</i>	Colt's Foot	
<i>Urtica dioica</i>	Nettle	
<i>Vicia cracca</i>	Tufted Vetch	

Appendix 10

Priority Geotechnical Ltd. Ground Investigation Report

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PRIORITY GEOTECHNICAL LIMITED

Unit 12, Owenacurra Business Park, Midleton, Co. Cork

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FOYNES WASTE TRANSFER SITE
REPORT ON GROUND INVESTIGATION

FACTUAL REPORT

NO. P8056

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Client: Greenport Environmental Limited

Engineer: Michael Punch & Partners

Consulting Engineers,

97 Henry Street

Limerick

TABLE OF CONTENTS

1	INTRODUCTION	1
1.1	SCOPE OF WORKS.....	1
1.2	REPORTING	1
2	THE SITE	2
2.1	SITE LOCATION & DESCRIPTION	2
3	FIELDWORK	3
3.1	GENERAL	3
3.2	EXPLORATORY HOLES	3
3.3	GROUNDWATER MONITORING	4
3.4	IN-SITU TESTING	4
4	LABORATORY TESTING	5
4.1	SOIL.....	5
4.2	LEACHATE.....	6
5	GROUND CONDITIONS	8
5.1	GROUNDWATER	10
6	CONCLUSIONS	12
6.1	CONCLUSIONS.....	12

APPENDICES

APPENDIX A	EXPLORATORY HOLE RECORDS
APPENDIX B	LABORATORY TESTING
APPENDIX C	PHOTOGRAPHIC RECORDS
APPENDIX D	EXPLORATION LOCATION PLAN

1 INTRODUCTION

1.1 SCOPE OF WORKS

In June 2008 Michael Punch and Partners, MPP, Consulting Engineers commissioned Priority Geotechnical Limited, PGL, on behalf of their Client, Greenport Environmental Limited, to carry out a ground investigation for the proposed Foynes Waste Transfer Site, at Foynes, Co. Limerick. The supervising Engineer on site was Mouchel, Consulting Engineers. The purpose of the geo-environmental ground investigation was to obtain sufficient geotechnical and environmental information to assess the environmental liability for the proposed waste transfer site.

The investigation, which was specified by MPP, Consulting Engineers, comprised four (4) number cable tool boreholes, four (4) number rotary boreholes, two (3) number trial pit excavations, and six (6) number window samples, all associated sampling, *in-situ* testing, laboratory work and factual reporting.

This investigation was carried out in accordance with the contract specification and relevant standards. The fieldwork was carried out in June 2008.

1.2 REPORTING

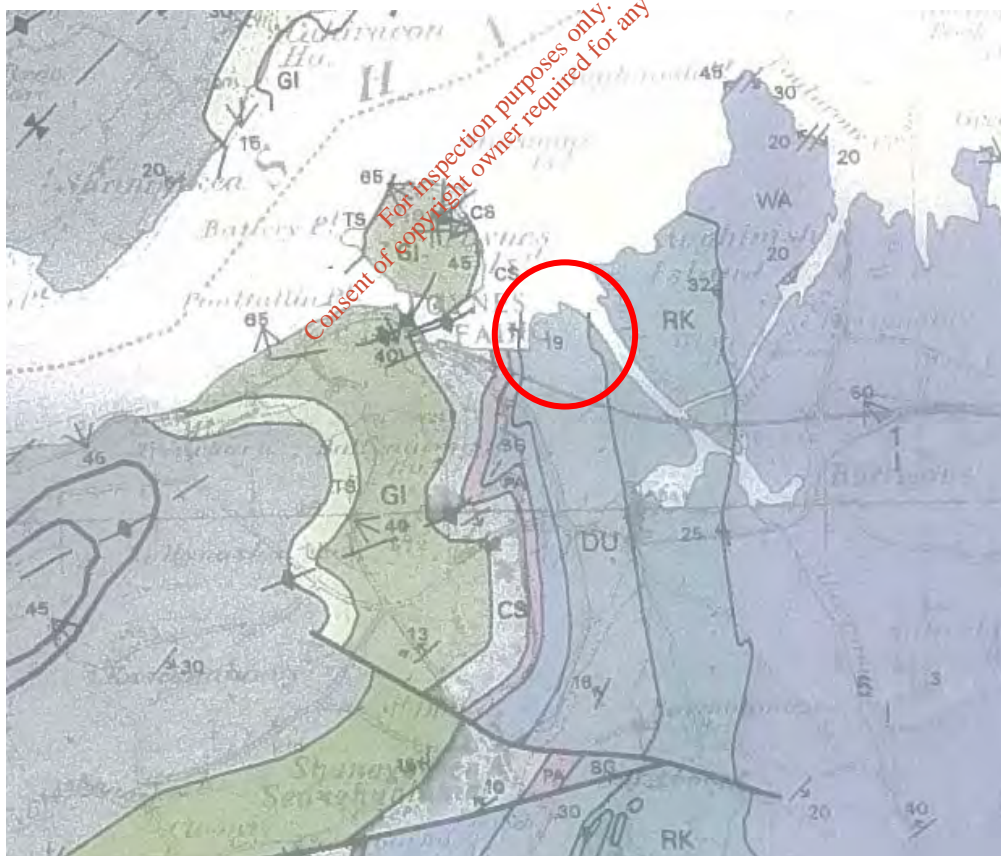
This report (PC8056_Rp_F01) presents the factual records of the fieldwork, and environmental lab analysis, with respect to the ground investigation contract.

2 THE SITE

2.1 SITE LOCATION & DESCRIPTION

The site was located in Foynes, Co Limerick. The site was a brownfield site with previous usage as a coal storage facility and timber yard. The site is not currently in use.

The Geology of the area as indicated on the Geological Survey of Ireland 1:100,000 mapping (Sheet 17) is characterised by the Rathkeale Formation (RK), the Durnish Formation (DU), the Parsonage and Corgrig Lodge Formation (Pa) and the Clare Shale Formation (CS). The Rathkeale Formation was described as dark muddy LIMESTONE and shaly MUDSTONE. The Durnish Formation was described as blue-black cherty bioclastic LIMESTONE. The Parsonage and Corgrig Lodge Formation was described as fine laminated and muddy LIMESTONE and SHALE. The Clare Shale Formation was described as MUDSTONE, which is cherty at the base.



3 FIELDWORK

3.1 GENERAL

The fieldwork was carried out in general accordance with BS 5930 (1999) and Part 9 of BS 1377 (1990).

The exploration locations were selected by the consultant engineer and set out from existing features within the site subject to work space and access. The exploratory locations were surveyed using Trimble V8 GPS equipment to the Ordinance Survey national grid system of co-ordinates and elevations to Malin Head datum. The exploratory locations are shown on the Exploration Location Plan (drawing references: PC8056-SI-01) presented in **APPENDIX D** of this report.

3.2 EXPLORATORY HOLES

The exploratory holes as completed during the ground investigation are listed in the following table:

SUMMARY OF EXPLORATORY HOLES

Type	Quantity	Depth Range	Remarks
Trial Pits	22No.	0.4m to 3.9m	TP201, TP202, TP202A, TP203, TP204, TP204A, TP205, TP206, TP207, TP208, TP209, TP210, TP211, TP212, TP213, TP214, TP215, TP216, TP217, TP218, TPBH103 and TPBH104.
Rotary Cored Boreholes	5No.	5.1m to 10.4m	RC101, RC102, RC103, RC104 and RC105.

The exploration records are presented in **APPENDIX A** and should be read in conjunction with the key sheet included. The records provide descriptions, in accordance with BS 5930 (1999), of the materials encountered and details of the samples taken, together with any observations made during the investigation.

3.3 GROUNDWATER MONITORING

Groundwater was recorded when encountered during trial pitting and rotary boring, and monitored in standpipe installations, where and if installed.

3.4 IN-SITU TESTING

Standard Penetration Test, N values were carried out in the Rotary Cored Boreholes. The results are presented in the exploration records, **APPENDIX A** and summarised below.

SUMMARY OF IN-SITU TESTING

Type	No.	Remarks
Standard Penetration Test, N value	21	N values ranging from 4 to 74

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4 LABORATORY TESTING

All samples were examined and transported to Priority Geotechnical Ltd's laboratory in Midleton, Co. Cork. The following tests were scheduled by Mouchel. Specialist geoenvironmental testing for potential contamination was undertaken by Euro Environmental Laboratories Ltd. The laboratory test results are presented in **APPENDIX B**.

A summary of tests are detailed below:

4.1 SOIL

SUMMARY OF LABORATORY TESTING UNDERTAKEN

SOILS		
Type	No.	Remarks
% Dry Matter	48	Appendix B
Acenaphthene	43	Appendix B
Acenaphthylene	43	Appendix B
Anthracene	43	Appendix B
Arsenic (OES)		Appendix B
Asbestos Screening	12	Appendix B
Barium (OES)		Appendix B
Benzo(a)anthracene	39	Appendix B
Benzo(a)-pyrene	43	Appendix B
Benzo(b)-fluoranthene	43	Appendix B
Benzo(ghi)perylene	43	Appendix B
Benzo(k)-fluoranthene	43	Appendix B
Beryllium	4	Appendix B
Boron	4	Appendix B
BTEX	5	Appendix B
Cadmium		Appendix B
Chromium		Appendix B
Chrysene	43	Appendix B
Copper		Appendix B
Dibenzo(a,h)anthracene	43	Appendix B
Fluoranthene	43	Appendix B
Fluorene	43	Appendix B
Indeno(1,2,3-cd)pyrene	43	Appendix B
Lead (OES)		Appendix B
Loss on Ignition	5	Appendix B
Mercury (OES)		Appendix B

SUMMARY OF LABORATORY TESTING UNDERTAKEN (Continued)

SOILS		
Type	No.	Remarks
Mineral Oil	5	Appendix B
Naphthalene	43	Appendix B
Nickel (OES)		Appendix B
PAH	5	Appendix B
PCBs in solid	8	Appendix B
pH	16	Appendix B
Phenanthrene	43	Appendix B
Pyrene	43	Appendix B
Selenium (OES)		Appendix B
Total Organic Carbon	5	Appendix B
TPH (C6-C36)	24	Appendix B
Vanadium (OES)		Appendix B
Zinc (OES)		Appendix B
Semi VOC	8	Appendix B
VOC	8	Appendix B

4.2 LEACHATE

SUMMARY OF LABORATORY TESTING UNDERTAKEN

Leachate		
Type	No.	Remarks
Acid Neutralisation Capacity (pH4)	5	Appendix B
Acid Neutralisation Capacity (pH7)	5	Appendix B
Antimony	5	Appendix B
Arsenic	48	Appendix B
Barium	48	Appendix B
Beryllium	39	Appendix B
Boron	39	Appendix B
Cadmium	48	Appendix B
Chloride	5	Appendix B
Chromium	44	Appendix B
Copper	48	Appendix B
Dissolved Organic Carbon	5	Appendix B
Fluoride	5	Appendix B
Lead	48	Appendix B
Mercury	48	Appendix B

SUMMARY OF LABORATORY TESTING UNDERTAKEN (continued)

Molybdenum	5	Appendix B
Nickel	48	Appendix B
Phenol Index	9	Appendix B
Selenium	48	Appendix B
Sulphate	48	Appendix B
Sulphur	39	Appendix B
Total Dissolved solids	5	Appendix B
Vanadium	43	Appendix B
Zinc	48	Appendix B

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5 GROUND CONDITIONS

The site was characterised by deposits of slightly sandy slightly gravelly CLAY and peaty CLAY to a depth of 8.0m below ground level (bgl). MADE GROUND was encountered and described as slightly clayey slightly sandy gravelly COBBLES and sandy GRAVEL, with reinforced concrete slabs to a maximum depth of 2.45m bgl.

The CLAY was underlain by clayey gravelly SAND at location TP218 from 0.6m bgl to 1.5m bgl. At location RC105, slightly sandy slightly gravelly SILT was found from 3.5m bgl to 4.5m. This was overlain and underlain by very silty very sandy GRAVEL from 2.0m bgl to 3.5m bgl, and from 4.5m bgl to 5.0m bgl. Clayey sandy COBBLES were encountered at TP202A and TP207 between 0.65m bgl and 3.3m bgl.

Based on the SPT, N values the CLAY was described as being soft to stiff with N values of 8 to 26. The GRAVEL at RC105 at 2.0m bgl was described as medium dense to very dense, with N values of 13 to 66.

Strong to extremely strong LIMESTONE was encountered to a depth of 10.4m bgl. The quality of the rock was not verified by physical testing.

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The ground conditions are summarised in the following table:

SUMMARY OF GROUND CONDITIONS

Stratum Encountered	Typical Range of Thicknesses	Location
FILL	0.0m to 2.45m	RC102, RC103, TP201, TP202, TP202A, TP203, TP204, TP204A, TP205, TP206, TP208, TP209, TP210, TP211, TP212, TP213, TP214, TP215, TP216, TP217, TP218, TPBH103 and TPBH104.
Slightly sandy slightly gravelly CLAY	0.2m to 8.0m	RC101, RC102, RC103, RC104, RC105, TP201, TP202, TP202A, TP203, TP204A, TP205, TP209, TP212, TP213, TP216, TP217, TP218, TPBH103 and TPBH104.
Peaty CLAY	1.1m to 3.5m	TP202A, TP203, TP206, TP207 and TPBH103.
Slightly sandy slightly gravelly SILT	3.5m to 4.5	RC105
Slightly clayey gravelly SAND	0.6m to 1.5m	TP218
Very silty very sandy GRAVEL	2.0m to 5.0m	RC105
Clayey sandy gravelly COBBLES	0.65m to 3.3m	TP202A and TP207
LIMESTONE	1.2m to 10.4m	RC101, RC103, RC104 and RC105.

5.1 GROUNDWATER

Groundwater was encountered within the site as detailed below and presented graphically on the logs in **APPENDIX A**.

Details of the gas monitoring wells and ground monitoring installations are detailed on the logs presented in **APPENDIX A** and summarised below.

SUMMARY OF GROUNDWATER DETAILR AND INSTALLATIONS

Location	Groundwater Depth, m bgl	Comments	Details
RC101	8.5m	Gas monitoring well/ and standpipe installed	19mm dia. gas well, response zone 1.0m to 2.0m bgl 50mm dia. standpipe, response zone 4.0m to 10.4m bgl
RC102	4.5m	Gas monitoring well installed	50mm dia. standpipe, response zone 0.5m to 1.0m bgl
RC103	4.0m	Gas monitoring well and standpipe installed	19mm dia. gas well, response zone 1.0m to 4.0m bgl 50mm dia. standpipe, response zone 6.0m to 10.0m bgl
RC104	2.2m 4.2m 8.5m	Gas monitoring well/ standpipe installed	19mm dia. gas well, response zone 1.0m to 5.0m bgl 50mm dia. standpipe, response zone 6.5m to 10.0m bgl
RC105	-	Standpipe installed	50mm dia. standpipe, response zone 1.0m to 3.0m bgl

SUMMARY OF GROUNDWATER MONITORING


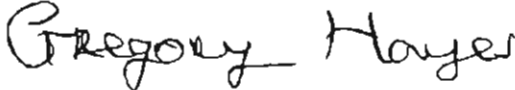
Location	Groundwater depth m bgl		
	dd.mm.yy	dd.mm.yy	dd.mm.yy
RC101			
RC102			
RC103			
RC104			
RC105			

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6 CONCLUSIONS

6.1 CONCLUSIONS

1. The site was characterised by cohesive soils and granular deposits.
2. FILL was encountered to a depth of up to 2.45m bgl within the site.
3. Soft to stiff slightly gravelly slightly sandy CLAY, was encountered to depth of between 0.2m bgl and 8.0m.
4. The CLAY was underlain by medium dense to very dense very silty very sandy GRAVEL from 2.0m bgl to 5.0m bgl at location RC105.
5. Groundwater was encountered between 2.2m to 8.5m of existing ground level within the site.
6. Environmental testing was undertaken.
7. Both gas monitoring wells and standpipes were installed at borehole locations, see Section 5.1.
8. No laboratory testing was undertaken to determine the geotechnical properties of the soils and rock encountered.

Prepared By	 Siobhan Clifford BSc MSc
Approved By	 Greg Hayes Chartered Engineer BE MEngSc MIEI

APPENDIX A

EXPLORATORY HOLE RECORDS

Key to Exploration Hole Records	Key
Rotary Boreholes	RC101, RC102, RC103, RC104 AND RC105.
Trial Pits	TP201, TP202, TP202A, TP203, TP204, TP204A, TP205, TP206, TP207, TP208, TP209, TP210, TP211, TP212, TP213, TP214, TP215, TP216, TP217, TP218, TPBH103 and TPBH104.

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KEY TO SYMBOLS ON EXPLORATORY HOLE RECORDS

All linear dimensions are in metres or millimetres

DESCRIPTIONS

Drillers Description
 Friable Easily crumbled

SAMPLES

U () Undisturbed 102mm diameter sample, () denotes number of blows to drive sampler
 U () F, U () P F - not recovered, P - partially recovered
 USB Undisturbed 38mm diameter sample
 P(F), (P) Piston sample, F - not recovered, P - partially recovered
 B Bulk sample - disturbed
 D Jar Sample - disturbed
 W Water Sample
 CBR California Bearing Ratio mould sample
 CS Chemical Sample for Contamination Analysis
 SPTLS Standard Penetration Test S lump sample from split sampler.

CORE RECOVERY AND ROCK QUALITY

TCR Total Core Recovery (% of Core Run)
 SCR Solid Core Recovery (length of core having at least one full diameter as % of core run)
 RQD Rock Quality Designation (length of solid core greater than 100mm as % of core run)
 Where there is insufficient space for the TCR, SCR and RQD, the results may be found in the remarks column.
 If Fracture Spacing in mm (Minimum/Average/Maximum) NI - non intact, NR - no recovery
 AZCL Assumed Zone of Core Loss

GROUNDWATER

 Groundwater strike
 Groundwater level after standing period
 Date/Water Date of shift (day/month)/Depth to water at end of previous shift shown above the date and depth to water at beginning of shift given below the date

INSITU TESTING

S Standard Penetration Test - split barrel sampler
 C Standard Penetration Test - solid 60° cone
 SW Self Weight Penetration
 Ivp, Hvp (R) In Situ Vane Test - Hand Vane Test (R) demonstrates remoulded strength
 K(F),(C),(R),(P) Permeability Test
 HP Hand Penetrometer Test

MEASURED PROPERTIES

N Standard Penetration Test - blows required to drive 300mm after seating drive
 x/y Denotes x blows for y mm within the Standard Penetration Test
 x'/y' Denotes x blows for y mm within the seating drive
 c_u Undrained Shear Strength (kN/m²)
 CBR California Bearing Ratio

ROTARY DRILLING SIZES


Index Letter	Nominal Diameter (mm)	
	Borehole	Core
N	75	54
H	99	76
P	120	92
S	146	113



Symbols used on Exploratory Hole Records

Key

Project Name: Foynes Waste Transfer Site	Project No. PC8056	Co-ords: 126003E - 151946N	Hole Type Rotary
Location: Foynes, Co. Limerick		Level: 6.71 m AOD	Scale 1:50
Client: Greenport Environmental Limited		Dates: 17/06/2008-19/06/2008	Logged By SC


Well	Water Strikes	Samples & In Situ Testing				Depth (m)	Level (m AOD)	Legend	Stratum Description
		Depth (m)	Type	Results					
		1.20	CPT	N=74		2.00	4.71		Open hole boring. Driller noted CLAY and BOULDERS.
		1.00-1.50	ES	(3,2/					
		1.00-1.50	D	13,19,22,20)					
		1.50-2.00	ES						
		1.50-2.00	D						
		2.00	CPT	25					
		2.00-2.30	100	2Q25 for 10mm/ 25 for 10mm)					
		2.30-2.55	92	24	0				
					0				
		2.55-4.25	98	74	63				
		4.25-4.80	100	80	80				
		4.80-5.80	100	86	86				
		5.80-7.30	92	73	61	3 260 540			
		7.30-7.85	100	96	96				
	▽	7.85-8.90	100	91	91				
		8.90-10.40	96	88	83	5 280 400			
			TCR	SCR	RQD	FI			

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Continued next sheet

Remarks: Inspection pit was dug. Waterstrike at 8.5m. Double installation, response zone groundwater 50mm dia. 4.0mbgl to 10.4mbgl and from 1.0mbgl to 2.0mbgl 19mm gas well.



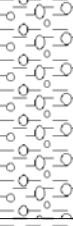

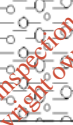
Project Name: Foynes Waste Transfer Site	Project No. PC8056	Co-ords: 126003E - 151946N	Hole Type Rotary
Location: Foynes, Co. Limerick		Level: 6.71 m AOD	Scale 1:50
Client: Greenport Environmental Limited		Dates: 17/06/2008-19/06/2008	Logged By SC

Well	Water Strikes	Rotary Coring				Depth (m)	Level (m AOD)	Legend	Stratum Description	
		Depth (m)	TCR	SCR	RQD					
						10.40	-3.69		Strong to extremely strong, dark grey, crystalline, bioclastic LIMESTONE. Weathering: fresh to slightly weathered; clay on fracture surfaces with occasional localised iron staining on fracture surfaces. Fractures: closely to very closely spaced; dip of between 8 degrees and 32 degrees, with undulating rough surfaces. End of Borehole at 10.40 m	11
										12
										13
										14
										15
										16
										17
										18
										19

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Remarks: Inspection pit was dug. Waterstrike at 8.5m. Double installation, response zone groundwater 50mm dia. 4.0mbgl to 10.4mbgl and from 1.0mbgl to 2.0mbgl 19mm gas well.

Project Name: Foynes Waste Transfer Site	Project No. PC8056	Co-ords: 126113E - 151918N	Hole Type Rotary
Location: Foynes, Co. Limerick		Level: 6.64 m AOD	Scale 1:50
Client: Greenport Environmental Limited		Dates: 17/06/2008-19/06/2008	Logged By SC

Well	Water Strikes	Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
		Depth (m)	Type	Results				
							Driller noted FILL (CONCRETE etc.)	
	1.50-2.00 1.50-2.00 1.50-2.00 2.00	D ES B CPT	N=13 (2,3/ 5,1,1,6)	1.50	5.14		Open hole boring. Driller noted CLAY and BOULDERS.	
	2.50-3.00 2.50-3.00 2.50-3.00 3.00	D ES B SPT	N=8 (1,1/ 1,2,2,3)	3.00	3.64		Open hole boring. Driller noted CLAY.	
	3.50-4.00 3.50-4.00 3.50-4.00	D ES B		4.20	2.44		Open hole boring. Driller noted CLAY and BOULDERS.	
	4.50-5.00 4.50-5.00 4.50-5.00	D ES B		5.10	1.54		End of Borehole at 5.10 m	

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Remarks: Inspection pit was dug. Waterstrike at 4.5m. Gas well installed, 50mm dia., response zone 0.5mbgl to 1.0mbgl.

Project Name:
Foynes Waste Transfer Site

Project No.
PC8056

Co-ords: 126280E - 151876N

Hole Type
Rotary

Location: Foynes, Co. Limerick

Level: 3.34 m AOD

Scale
1:50

Client: Greenport Environmental Limited

Dates: 12/06/2008-13/06/2008

Logged By
SC

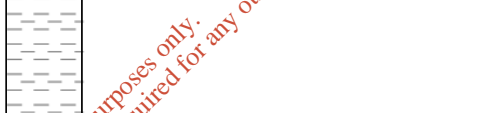
Well	Water Strikes	Samples & In Situ Testing				Depth (m)	Level (m AOD)	Legend	Stratum Description
		Depth (m)	Type	Results					
					0.40	2.94		Open hole boring. Driller noted FILL.	
		1.00	CPT	50 (16,18/ 25 for 20mm)	1.20	2.14		Open hole boring. Driller noted BOULDERS.	
		1.20-2.70	24	0 0	2.70	0.64		Driller noted CLAY and BOULDERS. NI. Recovered as strong to very strong, dark grey, crystalline LIMESTONE. Weathering: fresh to slightly weathered; localised iron staining and clay smearing on fracture surfaces. Fractures: closely to very closely spaced, irregular fractures, dipping between 15 degrees and 73 degrees, with undulating rough surfaces.	
		2.00-2.50 2.00-2.50	ES D						
		3.00	SPT	N=4 (1,0/ 0,1,1,2)	3.80	-0.46		Open hole boring. Driller noted dark blue CLAY. 2.7m - 6.0m, VOID.	
		3.00-3.50 3.00-3.50	ES D						
		4.00	SPT	94 (8,14/ 16,29,25 for 30mm)	6.00	-2.66		Open hole boring. Driller noted CLAY and BOULDERS.	
		4.00-4.50 4.00-4.50 2.70-6.00	ES D O						
		5.00	CPT	25 (15,25 for 20mm/ 25 for 10mm)	6.00	-2.66		Strong to very strong, dark grey, crystalline LIMESTONE. Weathering: fresh to slightly weathered; localised iron staining and clay smearing on fracture surfaces. Fractures: closely to very closely spaced, irregular fractures, dipping between 15 degrees and 73 degrees, with undulating rough surfaces. 6.0m - 6.5m, NI.	
		5.00-5.50 5.00-5.50	ES D						
		6.00	CPT	25 (25 for 10mm/ 25 for 10mm)	7.00-8.50				
		6.00-7.00	100	9 0					
		7.00-8.50	100	63 46	8.50-10.00				
		8.50-10.00	92	71 61 60 120 230					
			TCR	SCR	RQD	FI			

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End of Borehole at 10.00 m

Remarks: Waterstrike at 4.0m. Double standpipe installations, response zones groundwater 50mm dia. 6.0mbgl to 10.0mbgl and gas well 1.0mbgl to 4.0mbgl, 19mm dia..

Project Name: Foynes Waste Transfer Site	Project No. PC8056	Co-ords: 126243E - 151682N	Hole Type Rotary
Location: Foynes, Co. Limerick		Level: 3.97 m AOD	Scale 1:50
Client: Greenport Environmental Limited		Dates: 16/06/2008-17/06/2008	Logged By SC

Well	Water Strikes	Samples & In Situ Testing				Depth (m)	Level (m AOD)	Legend	Stratum Description		
		Depth (m)	Type	Results							
		1.00	CPT	N=26 (5,8/ 8,8,5,5)					Open hole boring. Driller noted sandy CLAY and BOULDERS.	1	
		1.00-1.50	D								
		1.00-1.50	B								
		1.00-1.50	ES								
	▽	2.00	SPT	N=8 (1,1/ 1,2,3,2)		2.00	1.97			Open hole boring. Driller noted CLAY.	2
		2.00-2.50	D								
		2.00-2.50	B								
		2.00-2.50	ES								
		3.00	SPT	N=6 (1,0/ 1,1,2,2)							3
		3.00-3.50	D								
		3.00-3.50	B								
		3.00-3.50	ES								
	▽	4.00	SPT	N=9 (1,2/ 2,1,3,3)						4	
		4.00-4.50	D								
		4.00-4.50	B								
		4.00-4.50	ES								
		5.00	SPT	N=6 (1,2/ 1,2,2,1)		5.00	-1.03		Open hole boring. Driller noted CLAY and BOULDERS.	5	
		5.00-5.50	D								
		5.00-5.50	B								
		5.00-5.50	ES								
		6.00	SPT	N=41 (9,10/ 13,9,8,11)						6	
		6.00-6.50	D								
		6.00-6.50	B								
		6.00-6.50	ES								
		7.00	SPT	N=17 (2,3/ 5,4,3,5)						7	
		7.00-7.50	D								
		7.00-7.50	B								
		7.00-7.50	ES								
	▽	8.00	CPT	50 (21/ 25 for 30mm)		8.00	-4.03		Very strong to extremely strong, dark grey, bioclastic, fresh LIMESTONE with occasional calcite veins. Fractures; medium to very closely spaced fractures, dip of between 2 degrees and 85 degrees, with planar rough surfaces.	8	
		8.00-9.50	95	59	56						
		8.00-9.50								9	
		9.50-10.05	100	73	62						
			TCR	SCR	RQD	FI					

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Continued next sheet

Remarks: Waterstrikes at 2.2m, 4.2m and 8.0m bgl. Double standpipe installation, groundwater 50mm dia. response zone 6.5mbgl to 10.0mbgl and gas well 19mm dia. 1.0mbgl to 5.0mbgl.



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Borehole No
RC104
 Sheet 2 of 2

Project Name: Foynes Waste Transfer Site	Project No. PC8056	Co-ords: 126243E - 151682N	Hole Type Rotary
Location: Foynes, Co. Limerick		Level: 3.97 m AOD	Scale 1:50
Client: Greenport Environmental Limited		Dates: 16/06/2008-17/06/2008	Logged By SC

Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	Legend	Stratum Description	
		Depth (m)	TCR	SCR	RQD	FI					
						10.05	-6.08			Very strong to extremely strong, dark grey, bioclastic, fresh LIMESTONE with occasional calcite veins. Fractures; medium to very closely spaced fractures, dip of between 2 degrees and 85 degrees, with planar rough surfaces.	11
										End of Borehole at 10.05 m	12
											13
											14
											15
											16
											17
											18
											19

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Remarks: Waterstrikes at 2.2m, 4.2m and 8.0m bgl. Double standpipe installation, groundwater 50mm dia. response zone 6.5mbgl to 10.0mbgl and gas well 19mm dia. 1.0mbgl to 5.0mbgl.

Project Name:
Foynes Waste Transfer Site

Project No.
PC8056

Co-ords: 126272E - 151875N
Level: 3.22 m AOD

Date
13/06/2008

Location: Foynes, Co. Limerick

Dimensions: 3.50m

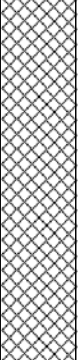
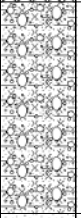



Scale
1:25

Client: Greenport Environmental Limited

Depth
3.90m

1.80m

Logged By
AM


Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.50-0.60 0.50-0.60 0.50-0.60	B D ES		1.20	2.02		Well-compacted FILL described as grey, slightly clayey, sandy (fine to coarse), gravelly (fine to coarse, angular) COBBLES (0.20m x 0.20m) and BOULDERS (0.70m x 0.60m).
1.50-1.60 1.50-1.60 1.50-1.60	B D ES		1.90	1.32		Firm to stiff, grey, slightly sandy (fine), slightly peaty CLAY.
2.50-2.60 2.50-2.60 2.50-2.60	B D ES					Firm to stiff, brown mottled grey/ orange, slightly sandy (fine) CLAY.
3.50 3.50-3.60 3.50-3.60 3.50-3.60	W B D ES		3.80	-0.59		
3.80-3.90 3.80-3.90 3.80-3.90	B D ES		3.90	-0.69		Firm to stiff, brown mottled grey/ orange, slightly sandy CLAY with many cobbles (0.20m x 0.20m) and boulders (0.30m x 0.30m). Trialpit Complete at 3.90 m

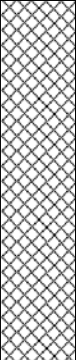

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Remarks: Backfilled with spoil.

Stability: Moderate.

Groundwater: Ground water at 3.4m inflowing fast.

Project Name: Foynes Waste Transfer Site	Project No. PC8056	Co-ords: 126240E - 151681N Level: 3.93 m AOD	Date 12/06/2008
Location: Foynes, Co. Limerick		Dimensions: 3.00m Depth 3.60m	Scale 1:25
Client: Greenport Environmental Limited			Logged By AM

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.00-1.00	B		1.20	2.73		Well-compacted FILL described as grey, slightly sandy (fine to coarse), slightly gravelly (fine to coarse, angular to angular to sub-angular), clayey COBBLES (0.20m x 0.20m) and BOULDERS (0.50m x 0.80m).
1.00-2.00 1.00-2.00	B D					FILL described as dense, brown/ grey, slightly sandy (fine to coarse), gravelly (fine to coarse, angular to sub-angular), clayey COBBLES (0.20m x 0.20m) with many boulders (1.5m x 2.0m).
2.00-2.20 2.00-2.20	B D		2.25	1.68		Firm to stiff, blue/ grey, slightly sandy CLAY with occasional black staining and occasional plant rootlets and seashells.
2.50-3.00 2.50-3.00	B D					
3.60	W		3.60	0.33		Trialpit Complete at 3.60 m

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Remarks: Backfilled with spoil.

Stability: Moderate.

Groundwater: Trickle at 3.5m.

Project Name:
Foynes Waste Transfer Site

Project No.
PC8056

Co-ords: 126024E - 151939N
Level: 6.65 m AOD

Date
13/06/2008

Location: Foynes, Co. Limerick

Dimensions: 3.00m

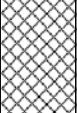

Scale
1:25

Client: Greenport Environmental Limited

Depth
0.60m

1.50m

Logged By
AM

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.40-0.50	B		0.40	6.25		Well-compacted, grey CI-804 FILL.
0.40-0.50	D					Very stiff, brown/ orange, slightly sandy, slightly gravelly CLAY with many boulders (0.5m x 0.5m) and many cobbles (0.2m x 0.2m).
0.40-0.50	ES		0.60	6.05		
Trialpit Complete at 0.60 m						
<p style="color: red; transform: rotate(-45deg); font-size: 1.2em;">For inspection purposes only. Consent of copyright owner required for any other use.</p>						

Remarks: Trial pit terminated due to ASSUMED BEDROCK (LIMESTONE). Backfilled with spoil.

Stability: Moderate.

Groundwater: None.

Project Name:
Foynes Waste Transfer Site

Project No.
PC8056

Co-ords: 126148E - 151903N
Level: 5.55 m AOD

Date
11/06/2008

Location: Foynes, Co. Limerick

Dimensions: 7.20m




Scale
1:25

Client: Greenport Environmental Limited

Depth
0.50m

1.30m

Logged By
AM

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.30-0.40	B		0.20	5.35		Well-compacted FILL described as grey SAND (fine to coarse) and GRAVEL (fine to coarse, angular to sub-angular).
0.30-0.40	D					Very stiff, brown/ orange, slightly sandy (fine to coarse), slightly gravelly (fine to coarse, angular to sub-angular) CLAY with many cobbles (0.20m x 0.20m) and many boulders (0.5m x 0.5m).
0.30-0.40	ES		0.50	5.05		
Trialpit Complete at 0.50 m						
<p style="color: red; transform: rotate(-45deg); font-weight: bold;">For inspection purposes only. Consent of copyright owner required for any other use.</p>						

Remarks: Concrete rubble FILL (0.4m high) over ground level. Trial pit terminated at 0.5m due to assumed BEDROCK (LIMESTONE). Pit extended to 7.2m at RE instruction to check consistency in rock depth. Backfilled with Spoil.

Stability: Spoil.

Groundwater: None.

Project Name:
Foynes Waste Transfer Site

Project No.
PC8056

Co-ords: 126168E - 151895N
Level: 5.21 m AOD

Date
11/06/2008

Location: Foynes, Co. Limerick

Dimensions: 3.00m

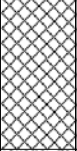

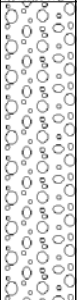

Scale
1:25

Client: Greenport Environmental Limited

Depth
2.90m

1.50m

Logged By
AM

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.50-0.60 0.50-0.60 0.50-0.60	B D ES		0.50	4.71		Well-compacted FILL described as grey, slightly clayey, slightly sandy (fine to coarse), gravelly (fine to coarse, angular to sub-angular) COBBLES (0.20m x 0.20m) and BOULDERS (1.0m x 0.8m).
1.50-1.60 1.50-1.60 1.50-1.60	B D ES		1.10	4.11		Stiff, brown/ orange, slightly sandy (fine to coarse), slightly gravelly (fine to coarse, angular to sub-angular) CLAY with many cobbles (0.20m x 0.20m) and occasional boulders (0.30m x 0.30m).
2.50-2.60 2.50-2.60 2.50-2.60	B D ES		2.10	3.11		Dense, grey/ brown, slightly sandy (fine to coarse), very clayey COBBLES (0.20m x 0.20m) with many boulders (1.0m x 1.0m).
			2.90	2.31		Firm, grey, slightly sandy (fine), peaty CLAY.
						Trialpit Complete at 2.90 m

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Remarks: Trial pit terminated due to assumed BEDROCK (LIMESTONE). Backfilled with spoil.

Stability: Moderate.

Groundwater: None.



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Trial Pit No
TP203
 Sheet 1 of 1

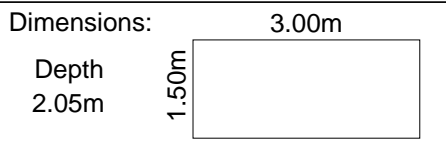
Project Name:
 Foynes Waste Transfer Site

Project No.
 PC8056

Co-ords: 126202E - 151885N
 Level: 4.56 m AOD

Date
 11/06/2008

Location: Foynes, Co. Limerick



Scale
 1:25

Client: Greenport Environmental Limited

Logged By
 AM

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.20-0.30 0.20-0.30	B D		0.40	4.16		Well-compacted FILL described as grey, slightly clayey, slightly sandy (fine to coarse), gravelly (fine to coarse, angular to sub-angular) COBBLES (0.20m x 0.20m) with many boulders.
1.20-1.30 1.20-1.30	B D					Stiff, brown/ orange, slightly sandy (fine to coarse), slightly gravelly (fine to coarse, angular to sub-angular) CLAY with many cobbles (0.20m x 0.20m) and many boulders (0.50m x 1.00m).
1.70-1.80 1.70-1.80	B D		1.65	2.91		Firm, brown/ grey, slightly sandy, peaty CLAY.
			2.05	2.51		Trialpit Complete at 2.05 m

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Remarks: Trial pit terminated due to assumed BEDROCK. Backfilled with spoil.

Stability: Good.

Groundwater: None.

Project Name:
Foynes Waste Transfer Site

Project No.
PC8056

Co-ords: 126125E - 151883N
Level: 6.76 m AOD

Date
11/06/2008

Location: Foynes, Co. Limerick

Dimensions: 0.00m
Depth 0.55m

Scale
1:25

Client: Greenport Environmental Limited

Logged By
AM

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.40-0.50	B		0.40	6.36	[Cross-hatched pattern]	Loose FILL described as grey SAND and GRAVEL with many large reinforced CONCRETE SLABS (1.0m x 0.5m).
0.40-0.50	D		0.55	6.21		FILL described as black, slightly clayey, sandy (fine to coarse) GRAVEL (fine to coarse, angular to sub-angular) with many fragments of CONCRETE.
0.40-0.50	ES					Trialpit Complete at 0.55 m
						1
						2
						3
						4

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Remarks: Trial pit terminated due to CONCRETE SLAB at 0.55m. Backfilled with spoil.

Stability: Good.

Groundwater: None.

Project Name:
Foynes Waste Transfer Site

Project No.
PC8056

Co-ords: 126149E - 151875N
Level: 5.87 m AOD

Date
11/06/2008

Location: Foynes, Co. Limerick

Dimensions: 3.50m

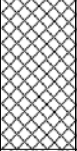


Scale
1:25

Client: Greenport Environmental Limited

Depth
2.50m

1.50m

Logged By
AM

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.50-0.60 0.50-0.60 0.50-0.60	B D ES		0.50	5.37		Well-compacted FILL described as grey, slightly clayey, sandy (fine to coarse), gravelly (fine to coarse, angular to sub-angular) COBBLES (0.20m x 0.20m) with occasional boulders (0.30m x 0.30m).
1.50-1.60 1.50-1.60 1.50-1.60	B D ES		1.80	4.07		Firm to stiff, brown/ orange, slightly sandy (fine to coarse), slightly gravelly (fine to coarse, angular) CLAY with many cobbles (0.20m x 0.20m) and many boulders (0.6m x 0.8m).
2.40-2.50 2.40-2.50 2.40-2.50	B D ES		2.50	3.37		Very stiff, brown mottled pale grey, slightly sandy CLAY.
						Trialpit Complete at 2.50 m

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Remarks: Trial pit terminated due to assumed BEDROCK (LIMESTONE). Backfilled with spoil.

Stability: Moderate.

Groundwater: None.

Project Name:
Foynes Waste Transfer Site

Project No.
PC8056

Co-ords: 126216E - 151837N
Level: 4.51 m AOD

Date
11/06/2008

Location: Foynes, Co. Limerick

Dimensions: 3.00m

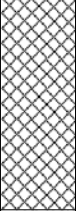

Scale
1:25

Client: Greenport Environmental Limited

Depth
1.80m

1.30m

Logged By
AM

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.20-0.30 0.20-0.30 0.20-0.30	B D ES		0.70	3.81		Well-compacted FILL described as grey, slightly clayey, slightly sandy (fine to coarse), gravelly (fine to coarse, angular to sub-angular) COBBLES (0.20m x 0.20m) with many boulders (0.30m x 0.30m).
1.50-1.60 1.50-1.60 1.50-1.60	B D ES		1.80	2.71		Firm to stiff, brown, slightly sandy (fine) CLAY.
<p>Trial pit Complete at 1.80 m</p> <p><i>For inspection purposes only. Consent of copyright owner required for any other use.</i></p>						

Remarks: Trial pit terminated due to assumed BEDROCK (LIMESTONE). Backfilled with spoil.

Stability: Good.

Groundwater: None.

Project Name:
Foynes Waste Transfer Site

Project No.
PC8056

Co-ords: 126261E - 151862N
Level: 3.44 m AOD

Date
11/06/2008

Location: Foynes, Co. Limerick

Dimensions: 3.00m

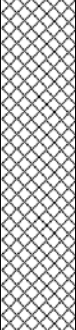


Scale
1:25

Client: Greenport Environmental Limited

Depth
3.50m

1.50m

Logged By
AM

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.50-0.60 0.50-0.60 0.50-0.60	B D ES		1.10	2.34		Well-compacted FILL described as slightly clayey, slightly sandy (fine to coarse), gravelly (fine to coarse, angular to sub-angular) COBBLES and BOULDERS (1m x 1m).
1.80-1.90 1.80-1.90 1.80-1.90 2.00	B D ES W		1.60	1.84		Firm, brown/ grey, peaty CLAY.
3.20-3.30 3.20-3.30 3.20-3.30	B D ES		3.50	-0.06		Stiff, blue/grey, slightly peaty CLAY.
						Trialpit Complete at 3.50 m

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Remarks: Above ground level stockpile (to 2m above GL): black, dry, slightly gravelly, sandy COAL DUST FILL with patches of TOPSOIL and fragments of plastic, rubber and metal, and occasional cobbles (0.2m x 0.2m). B, D COBBLES samples taken for 1m to 1.5m above GL. Backfilled with spoil.

Stability: Ground water at 3.2m inflowing fast, rose to 2.30m after 5 minutes.

Groundwater: Ground water at 3.2m inflowing fast, rose to 2.30m after 5 minutes.

Project Name:
Foynes Waste Transfer Site

Project No.
PC8056

Co-ords: 126242E - 151790N
Level: 4.19 m AOD

Date
12/06/2008

Location: Foynes, Co. Limerick

Dimensions: 3.00m

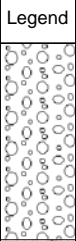
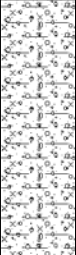


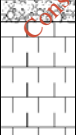
Scale
1:25

Client: Greenport Environmental Limited

Depth
3.30m

1.50m

Logged By
AM

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.50-0.60 0.50-0.60 0.50-0.60	B D ES		0.65	3.54		
1.40-1.50 1.40-1.50 1.40-1.50	B D ES		1.50	2.69		1
2.00-2.10 2.00-2.10 2.00-2.10	B D ES		2.15	2.04		2
2.50-2.60 2.50-2.60 2.50-2.60	B D ES		2.90	1.29		
2.90	W		2.90	1.29		3
			3.30	0.89		
Trialpit Complete at 3.30 m						

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Remarks: Trial pit terminated due to assumed BEDROCK (LIMESTONE). Backfilled with spoil.

Stability: Moderate.

Groundwater: Ground water at 2.80m inflowing steadily, rose to 2.40m after 20 minutes.

Project Name:
Foynes Waste Transfer Site

Project No.
PC8056

Co-ords: 126116E - 151810N
Level: 6.17 m AOD

Date
13/06/2008

Location: Foynes, Co. Limerick

Dimensions: 3.50m

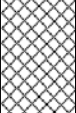

Scale
1:25

Client: Greenport Environmental Limited

Depth
0.70m

1.50m

Logged By
AM

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.40-0.50	B		0.40	5.77		Well-compacted FILL described as grey, sandy GRAVEL (fine to coarse, angular to sub-angular) and COBBLES (0.20m x 0.20m).
0.40-0.50	D					Very stiff, brown, slightly sandy (fine to coarse), slightly gravelly (fine to coarse, angular to sub-angular) CLAY with many cobbles (0.20m x 0.25m) and boulders (0.25m x 0.25m).
0.40-0.50	ES		0.70	5.47		----- Trialpit Complete at 0.70 m
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Remarks: Trial pit terminated due to assumed BEDROCK. Backfilled with spoil.

Stability: Moderate.

Groundwater: None.



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Trial Pit No
TP210
Sheet 1 of 1

Project Name:
Foynes Waste Transfer Site

Project No.
PC8056

Co-ords: 126130E - 151758N
Level: 5.85 m AOD

Date
13/06/2008

Location: Foynes, Co. Limerick

Dimensions: 4.50m

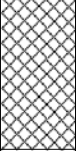
Scale
1:25

Client: Greenport Environmental Limited

Depth
0.50m

1.30m

Logged By
AM

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.30-0.40 0.30-0.40 0.30-0.40	B D ES		0.50	5.35		Well-compacted FILL described as grey, slightly clayey, sandy (fine to coarse), gravely (fine to coarse, angular to sub-angular) COBBLES (0.20m x 0.20m) with many boulders (0.25m x 0.25m). ----- Trialpit Complete at 0.50 m
						1
						2
						3
						4

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Remarks: Trial pit terminated due to assumed bedrock. Backfilled with spoil.

Stability: Moderate.

Groundwater: None.



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Trial Pit No
TP211
 Sheet 1 of 1

Project Name:
 Foynes Waste Transfer Site

Project No.
 PC8056

Co-ords: 126170E - 151743N
 Level: 5.16 m AOD

Date
 13/06/2008

Location: Foynes, Co. Limerick

Dimensions: 3.50m

Scale
 1:25

Client: Greenport Environmental Limited

Depth
 0.60m

1.30m



Logged By
 AM

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.40-0.50	B		0.60	4.56		Well compacted FILL described as grey, slightly clayey, sandy (fine to coarse), gravelly (fine to coarse, angular to sub-angular) COBBLES (0.20m x 0.20m) with many boulders (0.30m x 0.40m). Trialpit Complete at 0.60 m
0.40-0.50	D					
0.40-0.50	ES					
						1
						2
						3
						4

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Remarks: Trial pit terminated due to assumed limestone bedrock. Backfilled with spoil.

Stability: Moderate.

Groundwater: None.

Project Name:
Foynes Waste Transfer Site

Project No.
PC8056

Co-ords: 126255E - 151752N
Level: 3.92 m AOD

Date
12/06/2008

Location: Foynes, Co. Limerick

Dimensions: 3.50m

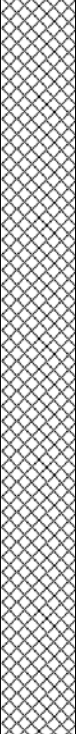
Scale
1:25

Client: Greenport Environmental Limited

Depth
3.50m

3.00m

Logged By
AM

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.60-0.70 0.60-0.70 0.60-0.70	B D ES					Well compacted FILL described as grey brown, slightly sandy (fine to coarse), slightly clayey, gravelly (fine to coarse, angular to sub-angular) COBBLES (0.20m x 0.20m) and BOULDERS (2.5m x 1.0m).
1.50-1.60 1.50-1.60 1.50-1.60	B D ES					
2.45			1.47			
3.20-3.30 3.20-3.30 3.20-3.30	B D ES					
3.50			0.42			Trialpit Complete at 3.50 m

Remarks: Backfilled with spoil.

Stability: Moderate.

Groundwater: None.

Project Name:
Foynes Waste Transfer Site

Project No.
PC8056

Co-ords: 126224E - 151712N
Level: 4.30 m AOD

Date
12/06/2008

Location: Foynes, Co. Limerick

Dimensions: 3.50m

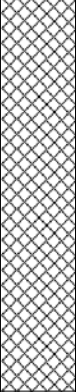
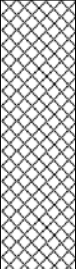

Scale
1:25

Client: Greenport Environmental Limited

Depth
3.50m

2.00m

Logged By
AM

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.50-0.60 0.50-0.60 0.50-0.60	B D ES		1.30	3.00		Well compacted FILL described as grey, slightly sandy (fine to coarse), clayey, gravelly (fine to coarse, angular to sub-angular) COBBLES (0.20m x 0.20m) and BOULDERS (1.5m x 1.0m).
1.50-1.60 1.50-1.60 1.50-1.60	B D ES		2.20	2.10		FILL described as dense, brown/ grey, slightly sandy (fine to coarse), gravelly (fine to coarse, angular to sub-angular), very clayey COBBLES (0.20m x 0.20m) and BOULDERS (0.5m x 1.0m).
2.50-2.60 2.50-2.60 2.50-2.60	B D ES		3.50	0.80		Stiff to very stiff, slightly sandy (fine) CLAY.
3.40-3.50 3.40-3.50 3.40-3.50	B D ES		Trialpit Complete at 3.50 m			

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Remarks: Backfilled with spoil.

Stability: Moderate.

Groundwater: Ground water at 3.5m inflowing slowly, rose to 3.3m after 20 minutes.



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Trial Pit No
TP214
 Sheet 1 of 1

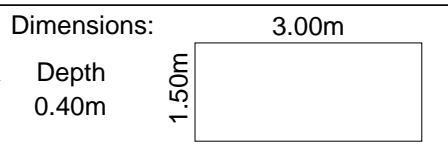
Project Name:
 Foynes Waste Transfer Site

Project No.
 PC8056

Co-ords: 126178E - 151692N
 Level: 4.86 m AOD

Date
 12/06/2008

Location: Foynes, Co. Limerick



Scale
 1:25

Client: Greenport Environmental Limited

Logged By
 AM

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10-0.20	B		0.40	4.46		Well compacted FILL described as grey, slightly sandy (fine to coarse), gravelly (fine to coarse, angular to sub-angular) COBBLES (0.20m x 0.20m) and BOULDERS (0.30m x 0.30m). ----- Trialpit Complete at 0.40 m
0.10-0.20	D					
0.10-0.20	ES					
						1
						2
						3
						4

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Remarks: Above GL stockpile (to 2.60m above GL): dry, loose, black/ grey, slightly gravelly, sandy COAL FILL with occasional cobble and occasional fragment of metal, plastic and wood. B, D and ES samples taken for 0.5m
 Stability: Good
 Groundwater: Backfilled with spoil

H016/ASE III (BA-414.4) Standard Trialpit Log v2 dated 27th Nov 03



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Trial Pit No
TP215
 Sheet 1 of 1

Project Name:
 Foynes Waste Transfer Site

Project No.
 PC8056

Co-ords: 126117E - 151721N
 Level: 5.98 m AOD

Date
 13/06/2008

Location: Foynes, Co. Limerick

Dimensions: 3.00m

Scale
 1:25

Client: Greenport Environmental Limited

Depth
 0.80m



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 AM

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.40-0.50 0.40-0.50 0.40-0.50	B D ES		0.80	5.18		Well compacted FILL described as grey, sandy (fine to coarse), clayey, gravelly (fine to coarse, angular to sub-angular) COBBLES (0.20m x 0.20m) with many boulders (0.25m x 0.30m).
Trialpit Complete at 0.80 m						1
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						3
						4

Remarks: Trial pit terminated due to assumed LIMESTONE BEDROCK. Backfilled with spoil.

Stability: Moderate.

Groundwater: None.



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Trial Pit No
TP216
 Sheet 1 of 1

Project Name:
 Foynes Waste Transfer Site

Project No.
 PC8056

Co-ords: 126058E - 151769N
 Level: 7.11 m AOD

Date
 13/06/2008

Location: Foynes, Co. Limerick

Dimensions: 3.50m

Scale
 1:25

Client: Greenport Environmental Limited

Depth
 1.40m

1.30m



Logged By
 AM

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description		
Depth (m)	Type	Results						
0.70-0.80	B D ES		0.60	6.51		Well-compacted FILL described as grey, sandy (fine to coarse) GRAVEL (fine to coarse, angular to sub-angular) and COBBLES (0.20m x 0.20m) with occasional boulders (0.25m x 0.25m).		
0.70-0.80						Very stiff, brown/ orange, slightly sandy (fine to coarse), slightly gravelly (fine to coarse, sub-angular to rounded) CLAY with many cobbles (0.15m x 0.15m) at base and occasional boulders (0.25m x 0.25m).	1	
0.70-0.80				1.40	5.71		Trialpit Complete at 1.40 m	2
								3
								4

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Remarks: Trial pit terminated due to assumed limestone bedrock. Backfilled with spoil.

Stability: Moderate.

Groundwater: None.

Project Name:
Foynes Waste Transfer Site

Project No.
PC8056

Co-ords: 126016E - 151786N
Level: 7.19 m AOD

Date
13/06/2008

Location: Foynes, Co. Limerick

Dimensions: 3.50m

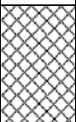

Scale
1:25

Client: Greenport Environmental Limited

Depth
0.90m

1.50m

Logged By
AM

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.50-0.60	B D ES		0.40	6.79		Well compacted FILL described as grey, sandy (fine to coarse) GRAVEL (fine to coarse, angular to sub-angular) and COBBLES (0.20m x 0.20m).
0.50-0.60						Stiff, brown/ orange, slightly gravelly (fine to coarse, angular to sub-angular), sandy (fine to coarse) CLAY with many cobbles (0.20m x 0.20m) and many boulders (0.40m x 0.50m).
0.50-0.60				0.90	6.29	
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Remarks: Trial pit terminated due to assumed limestone bedrock. Backfilled with spoil.

Stability: Moderate.

Groundwater: None.

Project Name:
Foynes Waste Transfer Site

Project No.
PC8056

Co-ords: 126055E - 151748N
Level: 7.00 m AOD

Date
13/06/2008

Location: Foynes, Co. Limerick

Dimensions: 5.00m



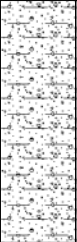
Scale
1:25

Client: Greenport Environmental Limited

Depth
1.40m

1.30m

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Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
			0.25	6.75		Well compacted FILL described as grey, sandy (fine to coarse) GRAVEL (fine to coarse, angular to sub-angular).
0.50-0.60 0.50-0.60 0.50-0.60	B D ES		0.60	6.40		Very stiff, brown/ orange, slightly sandy (fine to coarse), slightly gravelly (fine to coarse, angular to sub-rounded) CLAY with many cobbles (0.20m x 0.20m).
0.90-1.00 0.90-1.00 0.90-1.00	B D ES		1.40	5.60		Dense, brown/ grey, slightly clayey, gravelly (fine to coarse, angular to sub-angular) SAND (fine to coarse) with many cobbles (0.20m x 0.20m) and boulders (0.5m x 0.5m) at base.
Trialpit Complete at 1.40 m						

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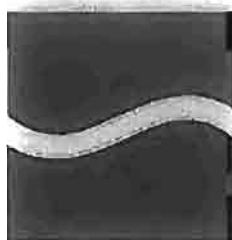
Remarks: Stockpile above GL (to 1.5m above GL): FILL (probably topsoil from site) described as dry, brown, slightly sandy (fine to coarse), slightly gravelly (fine to coarse, angular to sub-rounded) CLAY with occasional moderate (0.15m x 0.15m). B, D and ES sample taken for 0.7m to 0.8m AGL. TP terminated due to assumed no check. Backfilled with spoil.

APPENDIX B

SUMMARY OF LABORATORY

Environmental Testing

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Customer	Colette Kelly Priority Geotechnical Ltd. 412 Owanacurra Business Park Midleton Cork	Lab Report Ref. No.	6785/009/06S
Customer PO	1395	Date of Receipt	18/08/2008
Customer Ref	TP201 0.4-0.6 (PC8056 Foynes)	Date Testing Commenced	19/08/2008
		Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	14/08/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS - Supplementary

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
% Dry Matter	302	Drying @ 104 C	81.91	%	
Acenaphthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Acenaphthylene (Soil)	200	GC-MS 1	<0.05	mg/Kg	
Anthracene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Arsenic (Leachate)	128	ICPMS	78	ug/Kg	
Arsenic Soil (OES)	0	ICP-OES	19	mg/kg	
Barium (Leachate)	128	ICPMS	199	ug/Kg	
Barium Soil (OES)	0	ICP-OES	22	mg/kg	
Benzo(a)anthracene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Benzo(a)-pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Benzo(b)-fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Benzo(ghi)perylene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Benzo(k)-fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Beryllium (Leachate)	177	ICPMS	<0.2	ug/L	
Beryllium soil (OES)	224	ICP-OES	<10	mg/Kg	
Boron (Leachate)	177	ICPMS	4309	ug/Kg	
Boron soil (OES)	202	ICP-OES	17	mg/kg	
Cadmium (Leachate)	128	ICPMS	36	ug/Kg	
Cadmium Soil (OES)	224	ICP-OES	2.03	mg/Kg	
Chromium (Leachate)	128	ICPMS	114	ug/Kg	
Chromium Soil (OES)	224	ICP-OES	19	mg/kg	
Chrysene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Copper (Leachate)	128	ICPMS	22	ug/Kg	
Copper Soil (OES)	202	ICP-OES	11	mg/Kg	
Dibenzo(a,h)anthracene (soil)	200	GC-MS 1	<0.5	mg/Kg	

Signed: Donna Heslin

Donna Heslin - Laboratory Manager

Date: 14/08/08

Acc : Accredited Parameters by ISO 17025:2005

All organic results are analysed as received and all results are corrected for dry weight at 104 C
Results shall not be reproduced, except in full, without the approval of EURO environmental services
Results contained in this report relate only to the samples tested

* Subcontracted

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Customer	Colette Kelly Priority Geotechnical Ltd. 412 Owenacurra Business Park Midleton Cork	Lab Report Ref. No.	6765/009/06S
Customer PO	1395	Date of Receipt	19/06/2008
Customer Ref	TP201 0.4-0.5 (PC8056 Foynes)	Date Testing Commenced	19/08/2008
		Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	14/08/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS - Supplementary

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Fluorene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Indeno(1, 2, 3-cd)pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Lead (Leachate)	128	ICPMS	<0.38	ug/Kg	
Lead Soil (OES)	202	ICP-OES	14	mg/Kg	
Mercury (Leachate)	128	ICPMS	<0.2	ug/Kg	
Mercury Soil (OES)	0	ICP-OES	<2.5	mg/Kg	
Naphthalene (Soil)	200	GC-MS 1	<0.05	mg/Kg	
Nickel (Leachate)	128	ICPMS	108	ug/Kg	
Nickel Soil (OES)	0	ICP-OES	51	mg/kg	
PCB's (Soil)	167	GC-MS 1	<1	mg/Kg	
Phenanthrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Selenium (Leachate)	128	ICPMS	281	ug/Kg	
Selenium Soil (OES)	0	ICP-OES	<10	mg/kg	
Sulphate (Leachate)	190	IC	15.12	ug/Kg as SO4	
Sulphur (Leachate)	0	ICPMS	32	mg/Kg	
TPH Soil (C6-C36)	317	GC-FID	4.3	mg/Kg	
Vanadium (Leachate)	177	ICPMS	96	ug/L	
Vanadium soil (OES)	224	ICP-OES	21	mg/Kg	
Zinc (Leachate)	128	ICPMS	212	ug/Kg	
Zinc Soil (OES)	202	ICP-OES	59	mg/Kg	

Signed: Donna Heslin
Donna Heslin - Laboratory Manager

Date: 14/08/08

Acc.: Accredited Parameters by ISO 17025:2005

All organic results are analysed as received and all results are corrected for dry weight at 104 C
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Results contained in this report relate only to the samples tested

* Subcontracted

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Customer	Colette Kelly Priority Geotechnical Ltd. 412 Owenacurra Business Park Midleton Cork	Lab Report Ref. No.	6785/008/01
Customer PO	1381	Date of Receipt	18/06/2008
Customer Ref	TP202 0.3-0.4 (PC8056)	Date Testing Commenced	18/06/2008
		Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	02/07/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
% Dry Matter	302	Drying @ 104 C	65.18	%	
Acenaphthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Acenaphthylene (Soil)	200	GC-MS 1	<0.05	mg/Kg	
Anthracene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Arsenic (Leachate)	128	ICPMS	145	ug/Kg	
Asbestos Screening	0	Light Microscopy	N/D	N/A	
Barium (Leachate)	128	ICPMS	157	ug/Kg	
Benzo(a)anthracene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Benzo(a)-pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Benzo(b)-fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Benzo(ghi)perylene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Benzo(k)-fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Beryllium (Leachate)	177	ICPMS	<0.2	ug/L	
Boron (Leachate)	177	ICPMS	137	ug/Kg	
Cadmium (Leachate)	128	ICPMS	27	ug/Kg	
Chromium (Leachate)	128	ICPMS	65	ug/Kg	
Chrysene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Copper (Leachate)	128	ICPMS	38	ug/Kg	
Dibenzo(a,h)anthracene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Fluorene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Indeno(1, 2, 3-cd)pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Lead (Leachate)	128	ICPMS	<0.38	ug/Kg	
Mercury (Leachate)	128	ICPMS	18	ug/Kg	
Naphthalene (Soil)	200	GC-MS 1	<0.05	mg/Kg	

Signed: Donna Heslin

Date: 02/07/08

Donna Heslin - Laboratory Manager

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Customer PO	1381	Date of Receipt	18/06/2008
Customer Ref	TP202 0.3-0.4 (PC8058)	Date Testing Commenced	18/06/2008
		Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	02/07/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Nickel (Leachate)	128	ICPMS	46	ug/Kg	
pH (Soil)	500	Electrometry	7.4	pH Units	MCERT
Phenanthrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Selenium (Leachate)	128	ICPMS	<0.74	ug/Kg	
Semi VOC (Solid)	155	GC-MS 2	<1	mg/Kg	
Sulphate (Leachate)	190	IC	49.86	ug/Kg as SO4	
Sulphur (Leachate)	0	ICPMS	19	mg/Kg	
Vanadium (Leachate)	177	ICPMS	32	ug/l	
VOC (Solid)	154	GC-MS 1	<1	ug/Kg	
Zinc (Leachate)	128	ICPMS	127	ug/Kg	

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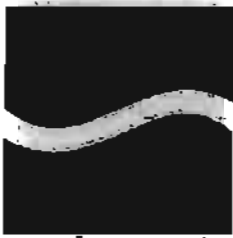
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Customer Ref	TP202A 0.5-0.6 (PC8066)	Date Testing Commenced	18/06/2008
		Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	02/07/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
% Dry Matter	302	Drying @ 104 C	84.98	%	
Acenaphthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Acenaphthylene (Soil)	200	GC-MS 1	<0.06	mg/Kg	
Anthracene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Arsenic (Leachate)	128	ICPMS	133	ug/Kg	
Barium (Leachate)	128	ICPMS	104	ug/Kg	
Benzo(a)anthracene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Benzo(a)-pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Benzo(b)-fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Benzo(ghi)perylene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Benzo(k)-fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Beryllium (Leachate)	177	ICPMS	<0.2	ug/L	
Boron (Leachate)	177	ICPMS	167	ug/Kg	
Cadmium (Leachate)	128	ICPMS	26	ug/Kg	
Chromium (Leachate)	128	ICPMS	62	ug/Kg	
Chrysene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Copper (Leachate)	128	ICPMS	15	ug/Kg	
Dibenzo(a,h)anthracene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Fluorene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Indeno(1, 2, 3-cd)pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Lead (Leachate)	128	ICPMS	<0.38	ug/Kg	
Mercury (Leachate)	128	ICPMS	<0.2	ug/Kg	
Naphthalene (Soil)	200	GC-MS 1	<0.05	mg/Kg	
Nickel (Leachate)	128	ICPMS	52	ug/Kg	

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Customer Ref	TP202A 0.5-0.6 (PC8066)	Date Testing Commenced	18/06/2008
		Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	02/07/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
pH (Soil)	300	Electrometry	7.5	pH Units	MCERT
Phenanthrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Pyrene (Soil)	200	GC-MS 1	<0.60	mg/Kg	
Selenium (Leachate)	128	ICPMS	<0.74	ug/Kg	
Sulphate (Leachate)	190	IC	72.08	mg/Kg as SO4	
Sulphur (Leachate)	0	ICPMS	26	mg/Kg	
Vanadium (Leachate)	177	ICPMS	17	ug/L	
Zinc (Leachate)	128	ICPMS	95	ug/Kg	

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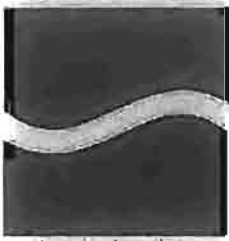
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Customer PO	1417	Date of Receipt	28/06/2008
Customer Ref	TP202A 0.5-0.6 (PC8056 Foynes)	Date Testing Commenced	28/06/2008
		Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	16/07/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
% Dry Matter	302	Drying @ 104 C	87.78	%	
Acid Neutralisation capacity (pH4)	128	Titrimetry	<0.50	mol/Kg	
Acid Neutralisation Capacity (pH7)	128	Titrimetry	<0.50	mol/Kg	
Antimony (Leachate)	128	ICPMS	<0.75	ug/Kg	
Arsenic (Leachate)	128	ICPMS	25	ug/Kg	
Barium (Leachate)	128	ICPMS	104	ug/Kg	
BTEX In Solid	179	GC-MS 1	<1	mg/Kg	
Cadmium (Leachate)	128	ICPMS	<0.09	ug/Kg	
Chloride (Leachate WAC)	190	IC	12.18	mg/Kg	
Chromium (Leachate)	128	ICPMS	13	ug/Kg	
Copper (Leachate)	128	ICPMS	40	ug/Kg	
Dissolved Organic Carbon (Leachate)	316	TOC Analyser	78.1	mg/Kg	
Fluoride (Leachate WAC)	190	IC	3.31	mg/Kg	
Lead (Leachate)	128	ICPMS	<0.38	ug/Kg	
Loss on Ignition	310	Ashing @ 550 C	1.87	%	
Mercury (Leachate)	128	ICPMS	<0.2	ug/Kg	
Mineral oil In Solid	168	GC-FID	<1	mg/Kg	
Molybdenum (Leachate)	128	ICPMS	27	ug/Kg	
Nickel (Leachate)	128	ICPMS	22	ug/Kg	
PAH solid (Sum of 17)	200	GC-MS 1	<1.00	mg/Kg	
PCBs In Solid	167	GC-MS 1	<1	mg/Kg	
pH (Solid)	110	Electrometry	8.1	pH Units	
Phenol Index (Leachate)	128	Colorimetry	<0.01	ug/Kg	
Selenium (Leachate)	128	ICPMS	12	ug/Kg	
Sulphate (Leachate WAC)	190	IC	124.14	mg/Kg	

Signed: Donna Heslin

Date: 16/07/08

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		Date Testing Commenced	28/06/2008
		Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
Customer PO	Cork 1417	Date of Report	16/07/2008
Customer Ref	TP202A 0.5-0.8 (PC8068 Foynes)	Sample Type	Soil

CERTIFICATE OF ANALYSIS

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
TOC (Solid)	315	TOC Analyser	<1.0	%	
Total Dissolved Solids (Leachate)	128	Evaporation/ Gravimetry	1980	mg/Kg	
Zinc (Leachate)	128	ICPMS	136	ug/Kg	

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Customer PO	1381	Date of Receipt	18/06/2008
Customer Ref	TP202A 1.5-1.8 (PC8056)	Date Testing Commenced	18/06/2008
		Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	27/06/2008
		Sample Type	Soil

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Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
TPH C10-C36 (Soil)	189	GC-FID	2.2	mg/Kg	

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Customer PO	1381	Date of Receipt	18/06/2008
Customer Ref	TP203 0.2-0.3 (PC8056)	Date Testing Commenced	18/06/2008
		Received or Collected	Courier, Interlink
		Condition on Receipt	Acceptable
		Date of Report	02/07/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
% Dry Matter	302	Drying @ 104 C	84.57	%	
Acenaphthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Acenaphthylene (Soil)	200	GC-MS 1	<0.05	mg/Kg	
Anthracene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Arsenic (Leachate)	128	ICPMS	<0.96	ug/Kg	
Barium (Leachate)	128	ICPMS	166	ug/Kg	
Benzo(a)anthracene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Benzo(a)-pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Benzo(b)-fluoranthene (Soil)	200	GC-MS 1	<0.60	mg/Kg	
Benzo(ghi)perylene (soil)	200	GC-MS 1	<0.6	mg/Kg	
Benzo(k)-fluoranthene (Soil)	200	GC-MS 1	<0.60	mg/Kg	
Beryllium (Leachate)	177	ICPMS	<0.2	ug/L	
Boron (Leachate)	177	ICPMS	121	ug/Kg	
Cadmium (Leachate)	128	ICPMS	33	ug/Kg	
Chromium (Leachate)	128	ICPMS	60	ug/Kg	
Chrysene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Copper (Leachate)	128	ICPMS	64	ug/Kg	
Dibenzo(a,h)anthracene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Fluorene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Indeno(1, 2, 3-cd)pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Lead (Leachate)	128	ICPMS	<0.38	ug/Kg	
Mercury (Leachate)	128	ICPMS	27	ug/Kg	
Naphthalene (Soil)	200	GC-MS 1	<0.05	mg/Kg	
Nickel (Leachate)	128	ICPMS	161	ug/Kg	

Signed: Donna Heslin

Donna Heslin - Laboratory Manager

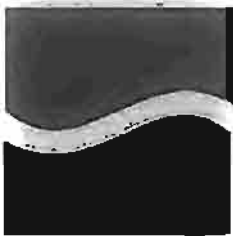
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<i>Customer Ref</i>	TP203 0.2-0.3 (PC8058)	<i>Date Testing Commenced</i>	18/06/2008
		<i>Received or Collected</i>	Courier: Interlink
		<i>Condition on Receipt</i>	Acceptable
		<i>Date of Report</i>	02/07/2008
		<i>Sample Type</i>	Soil

CERTIFICATE OF ANALYSIS

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
pH (Soil)	300	Electrometry	7.4	pH Units	MCERT
Phenanthrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Selenium (Leachate)	128	ICPMS	264	ug/Kg	
Sulphate (Leachate)	190	IC	114.27	ug/Kg as SO4	
Sulphur (Leachate)	0	ICPMS	42	mg/Kg	
Vanadium (Leachate)	177	ICPMS	47	ug/L	
Zinc (Leachate)	128	ICPMS	117	ug/Kg	

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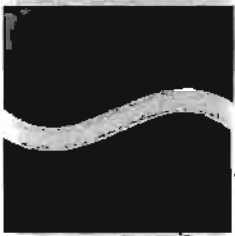
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Customer Ref	TP203 0.2-0.3 (PC8066 Foynes)	Date Testing Commenced	28/06/2008
		Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	16/07/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
% Dry Matter	302	Drying @ 104 C	82.92	%	
Acid Neutralisation capacity (pH4)	128	Titrimetry	<0.60	mol/Kg	
Acid Neutralisation Capacity (pH7)	128	Titrimetry	<0.60	mol/Kg	
Antimony (Leachate)	128	ICPMS	<0.76	ug/Kg	
Arsenic (Leachate)	128	ICPMS	114	ug/Kg	
Barium (Leachate)	128	ICPMS	204	ug/Kg	
BTEX in Solid	179	GC-MS 1	<1	mg/Kg	
Cadmium (Leachate)	128	ICPMS	<0.09	ug/Kg	
Chloride (Leachate WAC)	190	IC	171.42	mg/Kg	
Chromium (Leachate)	128	ICPMS	78	ug/Kg	
Copper (Leachate)	128	ICPMS	138	ug/Kg	
Dissolved Organic Carbon (Leachate)	316	TOC Analyser	93.9	mg/Kg	
Fluoride (Leachate WAC)	190	IC	3.27	mg/Kg	
Lead (Leachate)	128	ICPMS	12	ug/Kg	
Loss on Ignition	310	Ashing @ 550 C	4.01	%	
Mercury (Leachate)	128	ICPMS	<0.2	ug/Kg	
Mineral oil in Solid	158	GC-FID	<1	mg/Kg	
Molybdenum (Leachate)	128	ICPMS	86	ug/Kg	
Nickel (Leachate)	128	ICPMS	147	ug/Kg	
PAH solid (Sum of 17)	200	GC-MS 1	<1.00	mg/Kg	
PCBs in Solid	167	GC-MS 1	<1	mg/Kg	
pH (Solid)	110	Electrometry	7.8	pH Units	
Phenol Index (Leachate)	128	Colorimetry	0.09	ug/Kg	
Selenium (Leachate)	128	ICPMS	37	ug/Kg	
Sulphate (Leachate WAC)	190	IC	98.09	mg/Kg	

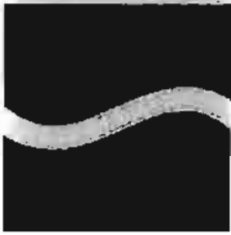
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Customer PO	1417	Date of Receipt	28/06/2008
Customer Ref	TP203 0.2-0.3 (PC8066 Foynea)	Date Testing Commenced	28/06/2008
		Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	16/07/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
TOC (Solid)	315	TOC Analyser	<1.0	%	
Total Dissolved Solids (Leachate)	128	Evaporation/ Gravimetry	1190	mg/Kg	
Zinc (Leachate)	128	ICPMS	186	ug/Kg	

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Donna Heslin - Laboratory Manager

Date: 16/07/08

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Customer	Colette Kelly Priority Geotechnical Ltd. 412 Owanacurra Business Park Midleton Cork	Lab Report Ref. No.	6785/008/06
Customer PO	1381	Date of Receipt	18/06/2008
Customer Ref	TP203 1.2-1.3 (PC8058)	Date Testing Commenced	18/06/2008
		Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	02/07/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
% Dry Matter	302	Drying @ 104 C	81.42	%	
Acenaphthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Acenaphthylene (Soil)	200	GC-MS 1	<0.05	mg/Kg	
Anthracene (Soil)	200	GC-MS 1	<0.60	mg/Kg	
Arsenic (Leachate)	128	ICPMS	146	ug/Kg	
Barium (Leachate)	128	ICPMS	162	ug/Kg	
Benzo(a)anthracene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Benzo(a)-pyrene (Soil)	200	GC-MS 1	<0.60	mg/Kg	
Benzo(b)-fluoranthene (Soil)	200	GC-MS 1	<0.60	mg/Kg	
Benzo(ghi)perylene (soil)	200	GC-MS 1	<0.6	mg/Kg	
Benzo(k)-fluoranthene (Soil)	200	GC-MS 1	<0.60	mg/Kg	
Beryllium (Leachate)	177	ICPMS	<0.2	ug/L	
Boron (Leachate)	177	ICPMS	44	ug/Kg	
Cadmium (Leachate)	128	ICPMS	38	ug/Kg	
Chromium (Leachate)	128	ICPMS	<0.93	ug/Kg	
Chrysene (Soil)	200	GC-MS 1	<0.60	mg/Kg	
Copper (Leachate)	128	ICPMS	142	ug/Kg	
Dibenzo(a,h)anthracene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Fluoranthene (Soil)	200	GC-MS 1	<0.60	mg/Kg	
Fluorene (Soil)	200	GC-MS 1	<0.60	mg/Kg	
Indeno(1, 2, 3-cd)pyrene (Soil)	200	GC-MS 1	<0.60	mg/Kg	
Lead (Leachate)	128	ICPMS	<0.38	ug/Kg	
Mercury (Leachate)	128	ICPMS	<0.2	ug/Kg	
Naphthalene (Soil)	200	GC-MS 1	<0.06	mg/Kg	
Nickel (Leachate)	128	ICPMS	20	ug/Kg	

Signed: Donna Heslin

Date: 02/07/08

Donna Heslin - Laboratory Manager

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Customer Ref	TP203 1.2-1.3 (PC8066)	Date Testing Commenced	18/06/2008
		Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	02/07/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
pH (Soil)	300	Electrometry	7.2	pH Units	MCERT
Phenanthrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Selenium (Leachate)	128	ICPMS	29	ug/Kg	
Sulphate (Leachate)	190	IC	115.45	ug/Kg as SO4	
Sulphur (Leachate)	0	ICPMS	44	mg/Kg	
Vanadium (Leachate)	177	ICPMS	<4	ug/L	
Zinc (Leachate)	128	ICPMS	68	ug/Kg	

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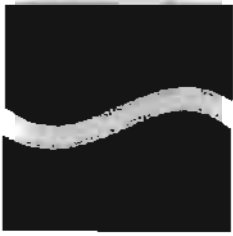
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Customer PO	1381	Date of Receipt	18/06/2008
Customer Ref	TP203 1.7-1.8 (PC8066)	Date Testing Commenced	18/06/2008
		Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	02/07/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
% Dry Matter	302	Drying @ 104 C	85.58	%	
Acenaphthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Acenaphthylene (Soil)	200	GC-MS 1	<0.05	mg/Kg	
Anthracene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Arsenic (Leachate)	128	ICPMS	<0.96	ug/Kg	
Barium (Leachate)	128	ICPMS	128	ug/Kg	
Benzo(a)anthracene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Benzo(a)pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Benzo(b)fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Benzo(ghi)perylene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Benzo(k)fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Beryllium (Leachate)	177	ICPMS	<0.2	ug/L	
Boron (Leachate)	177	ICPMS	133	ug/Kg	
Cadmium (Leachate)	128	ICPMS	32	ug/Kg	
Chromium (Leachate)	128	ICPMS	43	ug/Kg	
Chrysene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Copper (Leachate)	128	ICPMS	52	ug/Kg	
Dibenzo(a,h)anthracene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Fluorene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Indeno(1, 2, 3-cd)pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Lead (Leachate)	128	ICPMS	<0.38	ug/Kg	
Mercury (Leachate)	128	ICPMS	<0.2	ug/Kg	
Naphthalene (Soil)	200	GC-MS 1	<0.05	mg/Kg	
Nickel (Leachate)	128	ICPMS	35	ug/Kg	

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		Date Testing Commenced	18/06/2008
		Received or Collected	Courier Interline
		Condition on Receipt	Acceptable
Customer PO	Cork 1381	Date of Report	22/07/2008
Customer Ref	TP203.1.7-1.8 (PC8056)	Sample Type	Soil

CERTIFICATE OF ANALYSIS

Test Parameter	SGP	Analytical Technique	Result	Units	Acc:
pH (Soil)	300	Electrometry	7.6	pH Units	MCERT
Phenanthrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Selenium (Leachate)	128	ICPMS	38	µg/Kg	
Sulphate (Leachate)	190	IC	28.71	µg/Kg as SO4	
Sulphur (Leachate)	0	ICPMS	14	mg/Kg	
Vanadium (Leachate)	177	ICPMS	20	µg/L	
Zinc (Leachate)	128	ICPMS	48	µg/Kg	

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Customer PO	1381	Date of Receipt	18/08/2008
Customer Ref	TP204 D.4-0.5 (PC8058)	Date Testing Commenced	18/06/2008
		Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	08/07/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
% Dry Matter	302	Drying @ 104 C	90.68	%	
Acenaphthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Acenaphthylene (Soil)	200	GC-MS 1	0.613	mg/Kg	
Anthracene (Soil)	200	GC-MS 1	1.20	mg/Kg	
Arsenic (Leachate)	128	ICPMS	<0.96	ug/Kg	
Barium (Leachate)	128	ICPMS	128	ug/Kg	
Benzo(a)anthracene (soil)	200	GC-MS 1	12.516	mg/Kg	
Benzo(a)pyrene (Soil)	200	GC-MS 1	24.813	mg/Kg	
Benzo(b)fluoranthene (Soil)	200	GC-MS 1	41.51	mg/Kg	
Benzo(ghi)perylene (soil)	200	GC-MS 1	18.765	mg/Kg	
Benzo(k)fluoranthene (Soil)	200	GC-MS 1	30.18	mg/Kg	
Beryllium (Leachate)	177	ICPMS	<0.2	ug/L	
Boron (Leachate)	177	ICPMS	692	ug/Kg	
Cadmium (Leachate)	128	ICPMS	40	ug/Kg	
Chromium (Leachate)	128	ICPMS	128	ug/Kg	
Chrysene (Soil)	200	GC-MS 1	13.572	mg/Kg	
Copper (Leachate)	128	ICPMS	22	ug/Kg	
Dibenzo(a,h)anthracene (soil)	200	GC-MS 1	6.446	mg/Kg	
Fluoranthene (Soil)	200	GC-MS 1	12.264	mg/Kg	
Fluorene (Soil)	200	GC-MS 1	12.264	mg/Kg	
Indeno(1, 2, 3-cd)pyrene (Soil)	200	GC-MS 1	26.297	mg/Kg	
Lead (Leachate)	128	ICPMS	<0.38	ug/Kg	
Mercury (Leachate)	128	ICPMS	18	ug/Kg	
Naphthalene (Soil)	200	GC-MS 1	0.192	mg/Kg	
Nickel (Leachate)	128	ICPMS	43	ug/Kg	

Signed: Donna Heslin

Date: 08/07/08

Donna Heslin - Laboratory Manager

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		Received or Collected	Courier; Interlink
		Condition on Receipt	Acceptable
		Date of Report	08/07/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
pH (Soil)	300	Electrometry	10.1	pH Units	MCERT
Phenanthrene (Soil)	200	GC-MS 1	2.649	mg/Kg	
Pyrene (Soil)	200	GC-MS 1	12.424	mg/Kg	
Selenium (Leachate)	128	ICPMS	<0.74	ug/Kg	
Semi VOC (Soil)	166	GC-MS 2	<1	mg/Kg	
Sulphate (Leachate)	190	IC	276.04	g/Kg as SO4	
Sulphur (Leachate)	0	ICPMS	108	mg/Kg	
TPH C10-C36 (Soil)	189	GC-FID	19.8	mg/Kg	
Vanadium (Leachate)	177	ICPMS	266	ug/L	
VOC (Soil)	164	GC-MS 1	36.812	ug/Kg	
Zinc (Leachate)	128	ICPMS	46	ug/Kg	

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Customer Ref	TP204 0.5-0.6 (PC805B)	Date Testing Commenced	18/06/2008
		Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	02/07/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS

Test Parameter	SQP	Analytical Technique	Result	Units	Acc.
% Dry Matter	302	Drying @ 104 C	86.49	%	
Acenaphthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Acenaphthylene (Soil)	200	GC-MS 1	<0.05	mg/Kg	
Anthracene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Arsenic (Leachate)	128	ICPMS	87	ug/Kg	
Barium (Leachate)	128	ICPMS	141	ug/Kg	
Benzo(a)anthracene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Benzo(a)pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Benzo(b)fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Benzo(ghi)perylene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Benzo(k)fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Beryllium (Leachate)	177	ICPMS	<0.2	ug/l	
Boron (Leachate)	177	ICPMS	118	ug/Kg	
Cadmium (Leachate)	128	ICPMS	32	ug/Kg	
Chromium (Leachate)	128	ICPMS	64	ug/Kg	
Chrysene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Copper (Leachate)	128	ICPMS	163	ug/Kg	
Dibenzo(a,h)anthracene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Fluorene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Indeno(1, 2, 3-cd)pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Lead (Leachate)	128	ICPMS	<0.38	ug/Kg	
Mercury (Leachate)	128	ICPMS	47	ug/Kg	
Naphthalene (Soil)	200	GC-MS 1	<0.05	mg/Kg	
Nickel (Leachate)	128	ICPMS	48	ug/Kg	

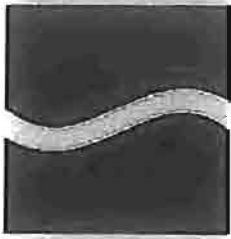
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Customer Ref	TP204 0.5-0.6 (PC8066)	Date Testing Commenced	18/06/2008
		Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	02/07/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS

Test Parameter	SO	Analytical technique	Result	Units	Acc.
pH (Soil)	300	Electrometry	8.1	pH Units	MCERT
Phenanthrene (Soil)	200	GC-MS 1	<0.60	mg/Kg	
Pyrene (Soil)	200	GC-MS 1	<0.60	mg/Kg	
Selenium (Leachate)	128	ICPMS	<0.74	ug/Kg	
Sulphate (Leachate)	190	IC	88.77	mg/Kg as SO4	
Sulphur (Leachate)	0	ICPMS	46	mg/Kg	
Vanadium (Leachate)	177	ICPMS	15	ug/L	
Zinc (Leachate)	128	ICPMS	85	ug/Kg	

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Customer PO	1381	Date of Receipt	18/06/2008
Customer Ref	TP205 0.2-0.3 (PC8058)	Date Testing Commenced	18/06/2008
		Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	02/07/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
% Dry Matter	302	Drying @ 104 C	83.25	%	
Acenaphthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Acenaphthylene (Soil)	200	GC-MS 1	<0.06	mg/Kg	
Anthracene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Arsenic (Leachate)	128	ICPMS	134	ug/Kg	
Asbestos Screening	0	Light Microscopy	N/D	N/A	
Barfurn (Leachate)	128	ICPMS	123	ug/Kg	
Benzo(a)anthracene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Benzo(a)pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Benzo(b)-fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Benzo(ghi)perylene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Benzo(k)-fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Beryllium (Leachate)	177	ICPMS	<0.2	ug/L	
Boron (Leachate)	177	ICPMS	110	ug/Kg	
Cadmium (Leachate)	128	ICPMS	31	ug/Kg	
Chromium (Leachate)	128	ICPMS	38	ug/Kg	
Chrysene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Copper (Leachate)	128	ICPMS	47	ug/Kg	
Dibenzo(a,h)anthracene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Fluorene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Indeno(1, 2, 3-cd)pyrene (Soil)	200	GC-MS 1	<0.60	mg/Kg	
Lead (Leachate)	128	ICPMS	<0.38	ug/Kg	
Mercury (Leachate)	128	ICPMS	6	ug/Kg	
Naphthalene (Soil)	200	GC-MS 1	<0.05	mg/Kg	

Signed: Donna Heslin

Date: 02/07/08

Donna Heslin - Laboratory Manager

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Customer	Colette Kelly Priority Geotechnical Ltd. 412 Owenacurra Business Park Midleton Cork	Lab Report Ref. No.	6755/008/09
Customer PO	1381	Date of Receipt	18/06/2008
Customer Ref	TP205 0.2-0.3 (PC8056)	Date Testing Commenced	18/06/2008
		Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	02/07/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS

Test Parameter	SQP	Analytical Technique	Result	Units	Acc.
Nickel (Leachate)	128	ICPMS	44	µg/Kg	
pH (Soil)	300	Electrometry	6.3	pH Units	MCERT
Phenanthrene (Soil)	300	GC-MS 1	<0.60	mg/Kg	
Pyrene (Soil)	300	GC-MS 1	<0.60	mg/Kg	
Selenium (Leachate)	128	ICPMS	<0.74	µg/Kg	
Sulphate (Leachate)	190	IC	85.44	µg/Kg as SO ₄	
Sulphur (Leachate)	0	ICPMS	39	mg/Kg	
TPH C10-C38 (Soil)	189	GC-FID	3.6	mg/Kg	
Vanadium (Leachate)	177	ICPMS	44	µg/L	
Zinc (Leachate)	128	ICPMS	121	µg/Kg	

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Customer Ref	TP205 1.5-1.6 (PC8056)	Date Testing Commenced	18/06/2008
		Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	02/07/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
% Dry Matter	302	Drying @ 104 C	82.7	%	
Acenaphthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Acenaphthylene (Soil)	200	GC-MS 1	<0.05	mg/Kg	
Anthracene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Arsenic (Leachate)	128	ICPMS	<0.96	ug/Kg	
Barium (Leachate)	128	ICPMS	270	ug/Kg	
Benzo(a)anthracene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Benzo(a)pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Benzo(b)-fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Benzo(ghi)perylene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Benzo(k)-fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Beryllium (Leachate)	177	ICPMS	<0.2	ug/L	
Boron (Leachate)	177	ICPMS	118	ug/Kg	
Cadmium (Leachate)	128	ICPMS	43	ug/Kg	
Chromium (Leachate)	128	ICPMS	1596	ug/Kg	
Chrysene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Copper (Leachate)	128	ICPMS	42	ug/Kg	
Dibenzo(a,h)anthracene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Fluorene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Indeno(1, 2, 3-cd)pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Lead (Leachate)	128	ICPMS	52	ug/Kg	
Mercury (Leachate)	128	ICPMS	10	ug/Kg	
Naphthalene (Soil)	200	GC-MS 1	<0.05	mg/Kg	
Nickel (Leachate)	128	ICPMS	616	ug/Kg	

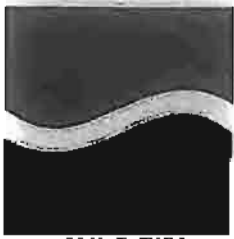
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Customer Ref	TP205 1.6-1.6 (PC8066)	Date Testing Commenced	18/06/2008
		Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	02/07/2008
		Sample Type	Soil

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Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
pH (Soil)	300	Electrometry	8.3	pH Units	MCERT
Phenanthrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Selenium (Leachate)	128	ICPMS	<0.74	ug/Kg	
Sulphate (Leachate)	190	IC	62.12	ng/Kg as SO4	
Sulphur (Leachate)	0	ICPMS	32	mg/Kg	
TPH C10-C36 (Soil)	189	GC-FID	2.2	mg/Kg	
Vanadium (Leachate)	177	ICPMS	18	ug/L	
Zinc (Leachate)	128	ICPMS	1691	ug/Kg	

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Customer Ref	TP206 0.5-0.8 (PC8056)	Date Testing Commenced	18/06/2008
		Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	02/07/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
% Dry Matter	302	Drying @ 104 C	91.82	%	
Acenaphthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Acenaphthylene (Soil)	200	GC-MS 1	<0.05	mg/Kg	
Anthracene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Arsenic (Leachate)	128	ICPMS	<0.96	ug/Kg	
Asbestos Screening	0	Light Microscopy	N/D	N/A	
Barium (Leachate)	128	ICPMS	181	ug/Kg	
Benzo(a)anthracene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Benzo(a)-pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Benzo(b)-fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Benzo(ghi)perylene (soil)	200	GC-MS 1	<0.6	mg/Kg	
Benzo(k)-fluoranthene (Soil)	200	GC-MS	<0.50	mg/Kg	
Beryllium (Leachate)	177	ICPMS	<0.2	ug/L	
Boron (Leachate)	177	ICPMS	82	ug/Kg	
Cadmium (Leachate)	128	ICPMS	38	ug/Kg	
Chromium (Leachate)	128	ICPMS	66	ug/Kg	
Chrysene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Copper (Leachate)	128	ICPMS	63	ug/Kg	
Dibenzo(a,h)anthracene (soil)	200	GC-MS 1	<0.6	mg/Kg	
Fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Fluorene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Indeno(1, 2, 3-cd)pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Lead (Leachate)	128	ICPMS	<0.38	ug/Kg	
Mercury (Leachate)	128	ICPMS	<0.2	ug/Kg	
Naphthalene (Soil)	200	GC-MS 1	<0.05	mg/Kg	

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		Received or Collected	Courier: Intarlink
		Condition on Receipt	Acceptable
		Date of Report	02/07/2008
		Sample Type	Soil

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Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Nickel (Leachate)	128	ICPMS	88	ug/Kg	
pH (Soil)	300	Electrometry	8.2	pH Units	MCERT
Phenanthrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Selenium (Leachate)	128	ICPMS	<0.74	ug/Kg	
Semi VOC (Soil)	155	GC-MS 2	<1	mg/Kg	
Sulphate (Leachate)	180	IC	69.87	1g/Kg as SO4	
Sulphur (Leachate)	0	ICPMS	26	mg/Kg	
Vanadium (Leachate)	177	ICPMS	53	ug/L	
VOC (Soil)	154	GC-MS 1	<1	ug/Kg	
Zinc (Leachate)	128	ICPMS	87	ug/Kg	

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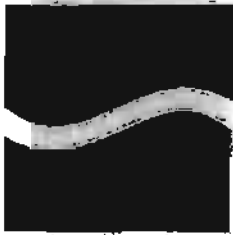
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Customer PO	1381	Date of Receipt	18/06/2008
Customer Ref	TP208 1.0-1.6 (PC8056)	Date Testing Commenced	18/06/2008
		Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	09/07/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
% Dry Matter	302	Drying @ 104 C	82.44	%	
Acenaphthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Acenaphthylene (Soil)	200	GC-MS 1	<0.05	mg/Kg	
Anthracene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Arsenic (Leachate)	128	ICPMS	<0.86	ug/Kg	
Barium (Leachate)	128	ICPMS	158	ug/Kg	
Benzo(a)anthracene (soil)	200	GC-MS 1	0.995	mg/Kg	
Benzo(a)pyrene (Soil)	200	GC-MS 1	1.324	mg/Kg	
Benzo(b)fluoranthene (Soil)	200	GC-MS 1	1.734	mg/Kg	
Benzo(ghi)perylene (soil)	200	GC-MS 1	1.099	mg/Kg	
Benzo(k)fluoranthene (Soil)	200	GC-MS 1	1.248	mg/Kg	
Beryllium (Leachate)	177	ICPMS	<0.2	ug/L	
Boron (Leachate)	177	ICPMS	1111	ug/Kg	
Cadmium (Leachate)	128	ICPMS	48	ug/Kg	
Chromium (Leachate)	128	ICPMS	<0.93	ug/Kg	
Chrysene (Soil)	200	GC-MS 1	0.845	mg/Kg	
Copper (Leachate)	128	ICPMS	168	ug/Kg	
Dibenzo(a,h)anthracene (soil)	200	GC-MS 1	0.644	mg/Kg	
Fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Fluorene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Indeno(1, 2, 3-cd)pyrene (Soil)	200	GC-MS 1	1.849	mg/Kg	
Lead (Leachate)	128	ICPMS	<0.38	ug/Kg	
Mercury (Leachate)	128	ICPMS	15	ug/Kg	
Naphthalene (Soil)	200	GC-MS 1	0.546	mg/Kg	
Nickel (Leachate)	128	ICPMS	87	ug/Kg	

Signed: Donna Heslin

Date: 09/07/08

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Customer PO	1381	Date of Receipt	18/06/2008
Customer Ref	TP206 1.0-1.5 (PC8056)	Date Testing Commenced	18/06/2008
		Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	09/07/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
pH (Soil)	300	Electrometry	8.6	pH Units	MCERT
Phenanthrene (Soil)	200	GC-MS 1	0.582	mg/Kg	
Pyrene (Soil)	200	GC-MS 1	0.79	mg/Kg	
Selenium (Leachate)	128	ICPMS	<0.74	ug/Kg	
Sulphate (Leachate)	180	IC	417.79	mg/Kg as SO4	
Sulphur (Leachate)	0	ICPMS	191	mg/Kg	
TPH C10-C36 (Soil)	188	GC-FID	44	mg/Kg	
Vanadium (Leachate)	177	ICPMS	147	ug/L	
Zinc (Leachate)	128	ICPMS	124	ug/Kg	

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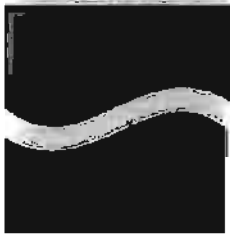
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Customer PO	1395	Date of Receipt	19/08/2008
Customer Ref	TP207 0.5-0.6 (PC8056 Foynes)	Date Testing Commenced	19/08/2008
		Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	14/08/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS - Supplementary

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
% Dry Matter	302	Drying @ 104 C	90.51	%	
Acanaphthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Acenaphthylene (Soil)	200	GC-MS 1	<0.05	mg/Kg	
Anthracene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Arsenic (Leachate)	128	ICPMS	55	ug/Kg	
Arsenic Soil (OES)	0	ICP-OES	13	mg/kg	
Barium (Leachate)	128	ICPMS	91	ug/Kg	
Barium Soil (OES)	0	ICP-OES	20	mg/kg	
Benzo(a)anthracene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Benzo(a)-pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Benzo(b)-fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Benzo(ghi)perylene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Benzo(k)-fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Beryllium (Leachate)	177	ICPMS	<0.2	ug/L	
Beryllium soil (OES)	224	ICP-OES	<10	mg/Kg	
Boron (Leachate)	177	ICPMS	<4.2	ug/Kg	
Boron soil (OES)	202	ICP-OES	85	mg/kg	
Cadmium (Leachate)	128	ICPMS	35	ug/Kg	
Cadmium Soil (OES)	224	ICP-OES	2.49	mg/Kg	
Chromium (Leachate)	128	ICPMS	16	ug/Kg	
Chromium Soil (OES)	224	ICP-OES	<10	mg/kg	
Chrysene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Copper (Leachate)	128	ICPMS	33	ug/Kg	
Copper Soil (OES)	202	ICP-OES	<10	mg/Kg	
Dibenzo(a,h)anthracene (soil)	200	GC-MS 1	<0.5	mg/Kg	

Signed: Donna Heslin

Date: 14/08/08

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		Condition on Receipt	Acceptable
		Date of Report	14/08/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS - Supplementary

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Fluorene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Indeno(1, 2, 3-cd)pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Lead (Leachate)	128	ICPMS	<0.38	ug/Kg	
Lead Soil (OES)	202	ICP-OES	18	mg/Kg	
Mercury (Leachate)	128	ICPMS	12	ug/Kg	
Mercury Soil (OES)	0	ICP-OES	<2.5	mg/Kg	
Naphthalene (Soil)	200	GC-MS 1	<0.05	mg/Kg	
Nickel (Leachate)	128	ICPMS	40	ug/Kg	
Nickel Soil (OES)	0	ICP-OES	28	mg/kg	
Phenanthrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Selenium (Leachate)	128	ICPMS	<0.74	ug/Kg	
Selenium Soil (OES)	0	ICP-OES	<10	mg/kg	
Semi VOC (Soil)	155	GC-MS 2	<1	mg/Kg	
Sulphate (Leachate)	190	IC	29.19	ug/Kg as SO4	
Sulphur (Leachate)	0	ICPMS	43	mg/Kg	
TPH Soil (C8-C36)	317	GC-FID	2.6	mg/Kg	
Vanadium (Leachate)	177	ICPMS	13	ug/L	
Vanadium soil (OES)	224	ICP-OES	10	mg/Kg	
VOC (Soil)	164	GC-MS 1	<1	ug/Kg	
Zinc (Leachate)	128	ICPMS	30	ug/Kg	
Zinc Soil (OES)	202	ICP-OES	68	mg/Kg	

Signed: Donna Heslin

Donna Heslin - Laboratory Manager

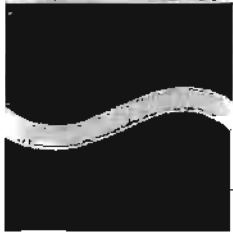
Date: 14/08/08

Acc. . Accredited Parameters by ISO 17025:2005

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Customer	Collette Kelly Priority Geotechnical Ltd. 412 Owenacurra Business Park Midleton Cork	Lab Report Ref. No.	6766/009/089
Customer PO	1395	Date of Receipt	19/06/2008
Customer Ref	TP207 1.4-1.7 (PC8056 Foynea)	Date Testing Commenced	19/06/2008
		Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	14/08/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS - Supplementary

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
% Dry Matter	302	Drying @ 104 C	80.89	%	
Acenaphthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Acenaphthylene (Soil)	200	GC-MS 1	<0.05	mg/Kg	
Anthracene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Arsenic (Leachate)	128	ICPMS	<0.96	ug/Kg	
Arsenic Soil (OES)	0	ICP-OES	14	mg/kg	
Barium (Leachate)	128	ICPMS	81	ug/Kg	
Barium Soil (OES)	0	ICP-OES	33	mg/kg	
Benzo(a)anthracene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Benzo(a)-pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Benzo(b)-fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Benzo(ghi)perylene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Benzo(k)-fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Beryllium (Leachate)	177	ICPMS	<0.2	ug/L	
Beryllium soil (OES)	224	ICP-OES	<10	mg/Kg	
Boron (Leachate)	177	ICPMS	68	ug/Kg	
Boron soil (OES)	202	ICP-OES	11	mg/kg	
Cadmium (Leachate)	128	ICPMS	26	ug/Kg	
Cadmium Soil (OES)	224	ICP-OES	3.27	mg/Kg	
Chromium (Leachate)	128	ICPMS	38	ug/Kg	
Chromium Soil (OES)	224	ICP-OES	10	mg/kg	
Chrysene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Copper (Leachate)	128	ICPMS	31	ug/Kg	
Copper Soil (OES)	202	ICP-OES	10	mg/Kg	
Dibenzo(a,h)anthracene (soil)	200	GC-MS 1	<0.5	mg/Kg	

Signed: Donna Heslin

Date: 14/08/08

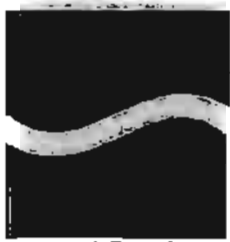
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Customer PO	1395	Date of Receipt	19/06/2008
Customer Ref	TP207 1.4-1.7 (PC8056 Foynea)	Date Testing Commenced	19/06/2008
		Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	14/08/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS - Supplementary

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Fluorene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Indeno(1, 2, 3-cd)pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Lead (Leachate)	128	ICPMS	<0.38	ug/Kg	
Lead Soil (OES)	202	ICP-OES	30	mg/Kg	
Mercury (Leachate)	128	ICPMS	<0.2	ug/Kg	
Mercury Soil (OES)	0	ICP-OES	<2.5	mg/Kg	
Naphthalene (Soil)	200	GC-MS 1	<0.05	mg/Kg	
Nickel (Leachate)	128	ICPMS	40	ug/Kg	
Nickel Soil (OES)	0	ICP-OES	36	mg/kg	
Phenanthrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Selenium (Leachate)	128	ICPMS	<0.74	ug/Kg	
Selenium Soil (OES)	0	ICP-OES	<10	mg/kg	
Sulphate (Leachate)	190	IC	28.67	ug/Kg as SO4	
Sulphur (Leachate)	0	ICPMS	37	mg/Kg	
Vanadium (Leachate)	177	ICPMS	12	ug/L	
Vanadium soil (OES)	224	ICP-OES	12	mg/Kg	
Zinc (Leachate)	128	ICPMS	79	ug/Kg	
Zinc Soil (OES)	202	ICP-OES	114	mg/Kg	

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Customer	Coletta Kelly Priority Geotechnical Ltd. 412 Owenacurra Business Park Midleton Cork	Lab Report Ref. No.	6766/008/08S
Customer PO	1395	Date of Receipt	19/06/2008
Customer Ref	TP208 0.3-0.4 (PC8056 Foynes)	Date Testing Commenced	19/06/2008
		Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	14/08/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS - Supplementary

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
% Dry Matter	302	Drying @ 104 C	97.01	%	
Acenaphthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Acenaphthylene (Soil)	200	GC-MS 1	<0.05	mg/Kg	
Anthracene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Arsenic (Leachate)	128	ICPMS	142	ug/Kg	
Arsenic Soil (OES)	0	ICP-OES	<10	mg/kg	
Barium (Leachate)	128	ICPMS	84	ug/Kg	
Barium Soil (OES)	0	ICP-OES	18	mg/kg	
Benzo(a)anthracene (soil)	200	GC-MS 1	2.607	mg/Kg	
Benzo(a)-pyrene (Soil)	200	GC-MS 1	3.745	mg/Kg	
Benzo(b)-fluoranthene (Soil)	200	GC-MS 1	2.828	mg/Kg	
Benzo(ghi)perylene (soil)	200	GC-MS 1	1.617	mg/Kg	
Benzo(k)-fluoranthene (Soil)	200	GC-MS 1	2.051	mg/Kg	
Beryllium (Leachate)	177	ICPMS	<0.2	ug/L	
Beryllium soil (OES)	224	ICP-OES	<10	mg/Kg	
Boron (Leachate)	177	ICPMS	<4.2	ug/Kg	
Boron soil (OES)	202	ICP-OES	28	mg/kg	
Cadmium (Leachate)	128	ICPMS	28	ug/Kg	
Cadmium Soil (OES)	224	ICP-OES	2.31	mg/Kg	
Chromium (Leachate)	128	ICPMS	<0.93	ug/Kg	
Chromium Soil (OES)	224	ICP-OES	<10	mg/kg	
Chrysene (Soil)	200	GC-MS 1	1.885	mg/Kg	
Copper (Leachate)	128	ICPMS	38	ug/Kg	
Copper Soil (OES)	202	ICP-OES	<10	mg/Kg	
Dibenzo(a,h)anthracene (soil)	200	GC-MS 1	1.986	mg/Kg	

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Donna Heslin - Laboratory Manager

Date: 14/08/08

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Customer PO	1395	Date of Receipt	19/08/2008
Customer Ref	TP208 0.3-0.4 (PC8056 Foynes)	Date Testing Commenced	19/08/2008
		Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	14/08/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS - Supplementary

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Fluorene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Indeno(1, 2, 3-cd)pyrene (Soil)	200	GC-MS 1	6.31	mg/Kg	
Lead (Leachate)	128	ICPMS	<0.38	ug/Kg	
Lead Soil (OES)	202	ICP-OES	<10	mg/Kg	
Mercury (Leachate)	128	ICPMS	43	ug/Kg	
Mercury Soil (OES)	0	ICP-OES	<2.5	mg/Kg	
Naphthalene (Soil)	200	GC-MS 1	0.835	mg/Kg	
Nickel (Leachate)	128	ICPMS	45	ug/Kg	
Nickel Soil (OES)	0	ICP-OES	<10	mg/kg	
Phenanthrene (Soil)	200	GC-MS 1	0.834	mg/Kg	
Pyrene (Soil)	200	GC-MS 1	0.727	mg/Kg	
Selenium (Leachate)	128	ICPMS	<0.74	ug/Kg	
Selenium Soil (OES)	0	ICP-OES	<10	mg/kg	
Sulphate (Leachate)	190	IC	5.63	ug/Kg as SO4	
Sulphur (Leachate)	0	ICPMS	26	mg/Kg	
Vanadium (Leachate)	177	ICPMS	37	ug/L	
Vanadium soil (OES)	224	ICP-OES	<10	mg/Kg	
Zinc (Leachate)	128	ICPMS	47	ug/Kg	
Zinc Soil (OES)	202	ICP-OES	30	mg/Kg	

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Date: 14/08/08

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Customer PO	1396	Date of Receipt	19/08/2008
Customer Ref	TP209 0.4-0.5 (PC8056 Foynes)	Date Testing Commenced	19/08/2008
		Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	14/08/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS - Supplementary

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
% Dry Matter	302	Drying @ 104 C	94.85	%	
Acenaphthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Acenaphthylene (Soil)	200	GC-MS 1	<0.05	mg/Kg	
Anthracene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Arsenic (Leachate)	128	ICPMS	104	ug/Kg	
Arsenic Soil (OES)	0	ICP-OES	<10	mg/kg	
Asbestos Screening	0	Light Microscopy	N/D	N/A	
Barium (Leachate)	128	ICPMS	192	ug/Kg	
Barium Soil (OES)	0	ICP-OES	<10	mg/kg	
Benzo(a)anthracene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Benzo(a)pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Benzo(b)fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Benzo(ghi)perylene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Benzo(k)fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Beryllium (Leachate)	177	ICPMS	<0.2	ug/L	
Beryllium soil (OES)	224	ICP-OES	<10	mg/Kg	
Boron (Leachate)	177	ICPMS	38	ug/Kg	
Boron soil (OES)	202	ICP-OES	40	mg/kg	
Cadmium (Leachate)	128	ICPMS	33	ug/Kg	
Cadmium Soil (OES)	224	ICP-OES	2.95	mg/Kg	
Chromium (Leachate)	128	ICPMS	69	ug/Kg	
Chromium Soil (OES)	224	ICP-OES	<10	mg/kg	
Chrysene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Copper (Leachate)	128	ICPMS	12	ug/Kg	
Copper Soil (OES)	202	ICP-OES	<10	mg/Kg	

Signed: Donna Heslin

Date: 14/08/08

Donna Heslin - Laboratory Manager

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Customer PO	1395	Date of Receipt	19/06/2008
Customer Ref	TP208 0.4-0.5 (PC8056 Foynas)	Date Testing Commenced	19/06/2008
		Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	14/08/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS - Supplementary

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Dibenzo(a,h)anthracene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Fluorene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Indeno(1, 2, 3-cd)pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Lead (Leachate)	128	ICPMS	<0.38	ug/Kg	
Lead Soil (OES)	202	ICP-OES	<10	mg/Kg	
Mercury (Leachate)	128	ICPMS	13	ug/Kg	
Mercury Soil (OES)	0	ICP-OES	<2.5	mg/Kg	
Naphthalene (Soil)	200	GC-MS 1	<0.05	mg/Kg	
Nickel (Leachate)	128	ICPMS	58	ug/Kg	
Nickel Soil (OES)	0	ICP-OES	19	mg/Kg	
Phenanthrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Selenium (Leachate)	128	ICPMS	<0.74	ug/Kg	
Selenium Soil (OES)	0	ICP-OES	<10	mg/Kg	
Semi VOC (Soil)	155	GC-MS 2	<1	mg/Kg	
Sulphate (Leachate)	190	IC	37.95	ug/Kg as SO4	
Sulphur (Leachate)	0	ICPMS	39	mg/Kg	
TPH Soil (C6-C36)	317	GC-FID	3.4	mg/Kg	
Vanadium (Leachate)	177	ICPMS	181	ug/L	
Vanadium soil (OES)	224	ICP-OES	<10	mg/Kg	
VOC (Soil)	154	GC-MS 1	<1	ug/Kg	
Zinc (Leachate)	128	ICPMS	94	ug/Kg	
Zinc Soil (OES)	202	ICP-OES	29	mg/Kg	

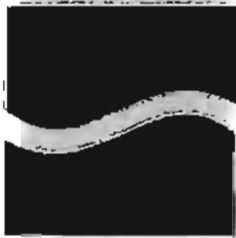
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Customer PO	1395	Date of Receipt	19/06/2008
Customer Ref	TP210 0.3-0.4 (PC8056 Foynes)	Date Testing Commenced	19/06/2008
		Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	14/08/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS - Supplementary

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
% Dry Matter	302	Drying @ 104 C	94.8	%	
Acenaphthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Acenaphthylene (Soil)	200	GC-MS 1	<0.05	mg/Kg	
Anthracene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Arsenic (Leachate)	128	ICPMS	<0.96	ug/Kg	
Arsenic Soil (OES)	0	ICP-OES	<10	mg/kg	
Asbestos Screening	0	Light Microscopy	N/D	N/A	
Barium (Leachate)	128	ICPMS	120	ug/Kg	
Barium Soil (OES)	0	ICP-OES	12	mg/kg	
Benzo(a)anthracene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Benzo(a)-pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Benzo(b)-fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Benzo(ghi)perylene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Benzo(k)-fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Beryllium (Leachate)	177	ICPMS	<0.2	ug/L	
Beryllium soil (OES)	224	ICP-OES	<10	mg/Kg	
Boron (Leachate)	177	ICPMS	15	ug/Kg	
Boron soil (OES)	202	ICP-OES	11	mg/kg	
Cadmium (Leachate)	128	ICPMS	32	ug/Kg	
Cadmium Soil (OES)	224	ICP-OES	2.77	mg/Kg	
Chromium (Leachate)	128	ICPMS	44	ug/Kg	
Chromium Soil (OES)	224	ICP-OES	10	mg/kg	
Chrysene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Copper (Leachate)	128	ICPMS	<0.2	ug/Kg	
Copper Soil (OES)	202	ICP-OES	<10	mg/Kg	

Signed: Donna Heslin

Date: 14/08/08

Donna Heslin - Laboratory Manager

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Customer PO	1395	Date of Receipt	19/06/2008
Customer Ref	TP210 0.3-0.4 (PC8056 Foynas)	Date Testing Commenced	19/06/2008
		Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	14/08/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS - Supplementary

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Dibenzo(a,h)anthracene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Fluorene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Indeno(1, 2, 3-cd)pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Lead (Leachate)	128	ICPMS	28	ug/Kg	
Lead Soil (OES)	202	ICP-OES	<10	mg/Kg	
Mercury (Leachate)	128	ICPMS	16	ug/Kg	
Mercury Soil (OES)	0	ICP-OES	<2.5	mg/Kg	
Naphthalene (Soil)	200	GC-MS 1	<0.05	mg/Kg	
Nickel (Leachate)	128	ICPMS	51	ug/Kg	
Nickel Soil (OES)	0	ICP-OES	20	mg/kg	
Phenanthrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Selenium (Leachate)	128	ICPMS	81	ug/Kg	
Selenium Soil (OES)	0	ICP-OES	<10	mg/kg	
Semi VOC (Soil)	155	GC-MS 2	<1	mg/Kg	
Sulphate (Leachate)	190	IC	6.87	ug/Kg as SO4	
Sulphur (Leachate)	0	ICPMS	23	mg/Kg	
TPH Soil (C8-C36)	317	GC-FID	3.1	mg/Kg	
Vanadium (Leachate)	177	ICPMS	54	ug/L	
Vanadium soil (OES)	224	ICP-OES	<10	mg/Kg	
VOC (Soil)	154	GC-MS 1	<1	ug/Kg	
Zinc (Leachate)	128	ICPMS	62	ug/Kg	
Zinc Soil (OES)	202	ICP-OES	26	mg/Kg	

Signed: Donna Heslin

Date: 14/08/08

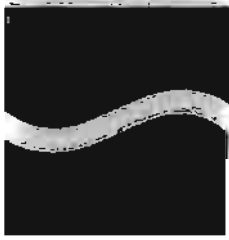
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Customer	Collette Kelly Priority Geotechnical Ltd. 412 Owenacurra Business Park Middleton Cork	Lab Report Ref. No.	6765/009/12S
Customer PO	1395	Date of Receipt	19/06/2008
Customer Ref	TP211 0.4-0.5 (PCB066 Foynes)	Date Testing Commenced	19/06/2008
		Received or Collected	Courier: Intarlink
		Condition on Receipt	Acceptable
		Date of Report	14/08/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS - Supplementary

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
% Dry Matter	302	Drying @ 104 C	95.18	%	
Acenaphthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Acenaphthylene (Soil)	200	GC-MS 1	<0.05	mg/Kg	
Anthracene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Arsenic (Leachate)	128	ICPMS	159	ug/Kg	
Arsenic Soil (OES)	0	ICP-OES	10	mg/kg	
Barium (Leachate)	128	ICPMS	106	ug/Kg	
Barium Soil (OES)	0	ICP-OES	<10	mg/kg	
Benzo(a)anthracene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Benzo(a)pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Benzo(b)fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Benzo(ghi)perylene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Benzo(k)fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Beryllium (Leachate)	177	ICPMS	<0.2	ug/L	
Beryllium soil (OES)	224	ICP-OES	<10	mg/Kg	
Boron (Leachate)	177	ICPMS	<4.2	ug/Kg	
Boron soil (OES)	202	ICP-DES	<10	mg/kg	
Cadmium (Leachate)	128	ICPMS	38	ug/Kg	
Cadmium Soil (OES)	224	ICP-DES	2.58	mg/Kg	
Chromium (Leachate)	128	ICPMS	52	ug/Kg	
Chromium Soil (OES)	224	ICP-DES	<10	mg/kg	
Chrysene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Copper (Leachate)	128	ICPMS	25	ug/Kg	
Copper Soil (OES)	202	ICP-OES	<10	mg/Kg	
Dibenzo(a,h)anthracene (soil)	200	GC-MS 1	<0.5	mg/Kg	

Signed: Donna Heslin

Donna Heslin - Laboratory Manager

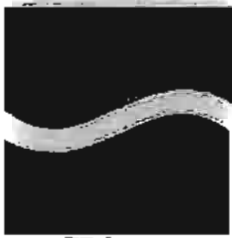
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Customer PO	1395	Date of Receipt	19/08/2008
Customer Ref	TP211 0.4-0.5 (PC8056 Foynes)	Date Testing Commenced	18/08/2008
		Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	14/08/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS - Supplementary

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Fluorene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Indeno(1, 2, 3-cd)pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Lead (Leachate)	128	ICPMS	<0.38	ug/Kg	
Lead Soil (OES)	202	ICP-OES	<10	mg/Kg	
Mercury (Leachate)	128	ICPMS	34	ug/Kg	
Mercury Soil (OES)	0	ICP-OES	<2.5	mg/Kg	
Naphthalene (Soil)	200	GC-MS 1	<0.05	mg/Kg	
Nickel (Leachate)	128	ICPMS	58	ug/Kg	
Nickel Soil (OES)	0	ICP-OES	21	mg/kg	
Phenanthrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Selenium (Leachate)	128	ICPMS	<0.74	ug/Kg	
Selenium Soil (OES)	0	ICP-OES	<10	mg/kg	
Sulphate (Leachate)	190	IC	6.55	ug/Kg as SO4	
Sulphur (Leachate)	0	ICPMS	23	mg/Kg	
Vanadium (Leachate)	177	ICPMS	107	ug/L	
Vanadium soil (OES)	224	ICP-OES	<10	mg/Kg	
Zinc (Leachate)	128	ICPMS	48	ug/Kg	
Zinc Soil (OES)	202	ICP-OES	35	mg/Kg	

Signed: Donna Heslin
Donna Heslin - Laboratory Manager

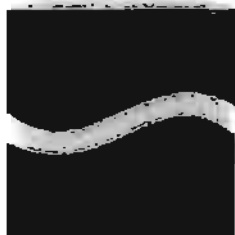
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Customer	Colette Kelly Priority Geotechnical Ltd. 412 Owenacurra Business Park Midleton Cork	Lab Report Ref. No.	6766/009/13S
Customer PO	1395	Date of Receipt	19/06/2008
Customer Ref	TP212 0.6-0.7 (PC8056 Foynnes)	Date Testing Commenced	19/06/2008
		Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	14/08/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS - Supplementary

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
% Dry Matter	302	Drying @ 104 C	93.52	%	
Acenaphthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Acenaphthylene (Soil)	200	GC-MS 1	<0.05	mg/Kg	
Anthracene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Arsenic (Leachate)	128	ICPMS	93	ug/Kg	
Arsenic Soil (OES)	0	ICP-OES	11	mg/kg	
Asbestos Screening	0	Light Microscopy	N/D	N/A	
Barium (Leachate)	128	ICPMS	403	ug/Kg	
Barium Soil (OES)	0	ICP-OES	13	mg/kg	
Benzo(a)anthracene (soil)	200	GC-MS 1	<0.50	mg/Kg	
Benzo(a)pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Benzo(b)fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Benzo(ghi)perylene (soil)	200	GC-MS 1	<0.50	mg/Kg	
Benzo(k)fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Beryllium (Leachate)	177	ICPMS	<0.2	ug/L	
Beryllium soil (OES)	224	ICP-OES	<10	mg/Kg	
Boron (Leachate)	177	ICPMS	193	ug/Kg	
Boron soil (OES)	202	ICP-OES	56	mg/kg	
Cadmium (Leachate)	128	ICPMS	37	ug/Kg	
Cadmium Soil (OES)	224	ICP-OES	2.70	mg/Kg	
Chromium (Leachate)	128	ICPMS	203	ug/Kg	
Chromium Soil (OES)	224	ICP-OES	<10	mg/kg	
Chrysene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Copper (Leachate)	128	ICPMS	63	ug/Kg	
Copper Soil (OES)	202	ICP-OES	22	mg/Kg	

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Date: 14/08/08

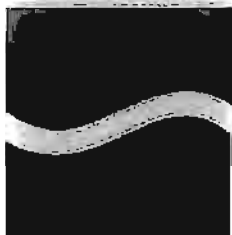
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Customer	Colette Kelly Priority Geotechnical Ltd. 412 Owenacurra Business Park Midleton Cork	Lab Report Ref. No.	6786/009/13S
Customer PO	1395	Date of Receipt	19/06/2008
Customer Ref	TP212 0.8-0.7 (PC8056 Foynes)	Date Testing Commenced	19/06/2008
		Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	14/08/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS - Supplementary

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Dibenzo(a,h)anthracene (soil)	200	GC-MS 1	<0.8	mg/Kg	
Fluoranthene (Soil)	200	GC-MS 1	<0.60	mg/Kg	
Fluorene (Soil)	200	GC-MS 1	<0.60	mg/Kg	
Indeno(1, 2, 3-cd)pyrene (Soil)	200	GC-MS 1	<0.60	mg/Kg	
Lead (Leachate)	128	ICPMS	<0.38	ug/Kg	
Lead Soil (OES)	202	ICP-OES	<10	mg/Kg	
Mercury (Leachate)	128	ICPMS	<0.2	ug/Kg	
Mercury Soil (OES)	0	ICP-OES	<2.6	mg/Kg	
Naphthalene (Soil)	200	GC-MS 1	<0.05	mg/Kg	
Nickel (Leachate)	128	ICPMS	103	ug/Kg	
Nickel Soil (OES)	0	ICP-OES	27	mg/kg	
Phenanthrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Pyrene (Soil)	200	GC-MS 1	<0.60	mg/Kg	
Selenium (Leachate)	128	ICPMS	<0.74	ug/Kg	
Selenium Soil (OES)	0	ICP-OES	<10	mg/kg	
Sulphate (Leachate)	180	IC	25.96	ug/Kg as SO4	
Sulphur (Leachate)	0	ICPMS	34	mg/Kg	
Vanadium (Leachate)	177	ICPMS	520	ug/L	
Vanadium soil (OES)	224	ICP-OES	22	mg/Kg	
Zinc (Leachate)	128	ICPMS	111	ug/Kg	
Zinc Soil (OES)	202	ICP-OES	38	mg/Kg	

Signed: Donna Heslin

Donna Heslin - Laboratory Manager

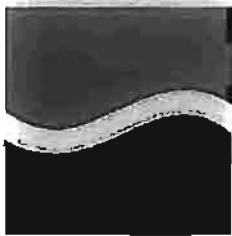
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Customer	Coletta Kelly Priority Geotechnical Ltd. 412 Owenacurra Business Park Middleton	Lab Report Ref. No.	6766/009/14S
	Cork	Date of Receipt	19/06/2008
Customer PO	1395	Date Testing Commenced	19/06/2008
Customer Ref	TP212 1.5-1.6 (PC8056 Foynes)	Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	14/08/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS - Supplementary

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
% Dry Matter	302	Drying @ 104 C	79.95	%	
Acenaphthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Acenaphthylene (Soil)	200	GC-MS 1	<0.05	mg/Kg	
Anthracene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Arsenic (Leachate)	128	ICPMS	<0.96	ug/Kg	
Arsenic Soil (OES)	0	ICP-OES	10	mg/kg	
Barium (Leachate)	128	ICPMS	248	ug/Kg	
Barium Soil (OES)	0	ICP-OES	22	mg/kg	
Benzo(a)anthracene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Benzo(a)-pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Benzo(b)-fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Benzo(ghi)perylene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Benzo(k)-fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Beryllium (Leachate)	177	ICPMS	<0.2	ug/L	
Beryllium soil (OES)	224	ICP-OES	<10	mg/Kg	
Boron (Leachate)	177	ICPMS	126	ug/Kg	
Boron soil (OES)	202	ICP-OES	<10	mg/kg	
Cadmium (Leachate)	128	ICPMS	41	ug/Kg	
Cadmium Soil (OES)	224	ICP-OES	2.59	mg/Kg	
Chromium (Leachate)	128	ICPMS	84	ug/Kg	
Chromium Soil (OES)	224	ICP-OES	<10	mg/kg	
Chrysene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Copper (Leachate)	128	ICPMS	50	ug/Kg	
Copper Soil (OES)	202	ICP-OES	28	mg/Kg	
Dibenzo(a,h)anthracene (soil)	200	GC-MS 1	<0.5	mg/Kg	

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Date: 14/08/08

Donna Heslin - Laboratory Manager

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Customer	Colette Kelly Priority Geotechnical Ltd. 412 Owenacurra Business Park Midleton Cork	Lab Report Ref. No.	6765/009/14S
Customer PO	1395	Date of Receipt	19/06/2008
Customer Ref	TP212 1.5-1.8 (PC8056 Foynes)	Date Testing Commenced	19/06/2008
		Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	14/08/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS - Supplementary

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Fluorene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Indeno(1, 2, 3-cd)pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Lead (Leachate)	128	ICPMS	<0.38	ug/Kg	
Lead Soil (OES)	202	ICP-OES	11	mg/Kg	
Mercury (Leachate)	128	ICPMS	<0.2	ug/Kg	
Mercury Soil (OES)	0	ICP-OES	<2.5	mg/Kg	
Naphthalene (Soil)	200	GC-MS 1	<0.06	mg/Kg	
Nickel (Leachate)	128	ICPMS	71	ug/Kg	
Nickel Soil (OES)	0	ICP-OES	24	mg/kg	
Phenanthrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Selenium (Leachate)	128	ICPMS	<0.74	ug/Kg	
Selenium Soil (OES)	0	ICP-OES	<10	mg/kg	
Sulphate (Leachate)	190	IC	79.67	ug/Kg as SO4	
Sulphur (Leachate)	0	ICPMS	89	mg/Kg	
Vanadium (Leachate)	177	ICPMS	386	ug/L	
Vanadium soil (OES)	224	ICP-OES	22	mg/Kg	
Zinc (Leachate)	128	ICPMS	57	ug/Kg	
Zinc Soil (OES)	202	ICP-OES	53	mg/Kg	

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Date: 14/08/08

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Customer PO	1395	Date of Receipt	19/06/2008
Customer Ref	TP213 0.5-0.6 (PC8066 Foynes)	Date Testing Commenced	19/06/2008
		Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	14/08/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS - Supplementary

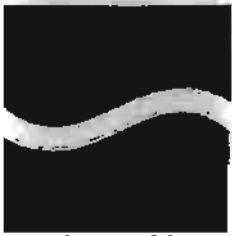
Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
% Dry Matter	302	Drying @ 104 C	82.81	%	
Acenaphthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Acenaphthylene (Soil)	200	GC-MS 1	<0.05	mg/Kg	
Anthracene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Arsenic (Leachate)	128	ICPMS	236	ug/Kg	
Arsenic Soil (OES)	0	ICP-OES	12	mg/kg	
Barium (Leachate)	128	ICPMS	62	ug/Kg	
Barium Soil (OES)	0	ICP-OES	26	mg/kg	
Benzo(a)anthracene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Benzo(a)-pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Benzo(b)-fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Benzo(ghi)perylene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Benzo(k)-fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Beryllium (Leachate)	177	ICPMS	<0.2	ug/L	
Beryllium soil (OES)	224	ICP-OES	<10	mg/Kg	
Boron (Leachate)	177	ICPMS	<4.2	ug/Kg	
Boron soil (OES)	202	ICP-OES	10	mg/kg	
Cadmium (Leachate)	128	ICPMS	36	ug/Kg	
Cadmium Soil (OES)	224	ICP-OES	2.25	mg/Kg	
Chromium (Leachate)	128	ICPMS	9	ug/Kg	
Chromium Soil (OES)	224	ICP-OES	14	mg/kg	
Chrycene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Copper (Leachate)	128	ICPMS	36	ug/Kg	
Copper Soil (OES)	202	ICP-OES	<10	mg/Kg	
Dibenzo(a,h)anthracene (soil)	200	GC-MS 1	<0.5	mg/Kg	

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Donna Heslin - Laboratory Manager

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Customer	Colette Kelly Priority Geotechnical Ltd. 412 Owenacurra Business Park Middleton Cork	Lab Report Ref. No.	6785/009/16S
Customer PO	1395	Date of Receipt	19/06/2008
Customer Ref	TP213 0.5-0.6 (PC8056 Foynas)	Date Testing Commenced	19/06/2008
		Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	14/08/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS - Supplementary

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Fluorene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Indeno(1, 2, 3-cd)pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Lead (Leachate)	128	ICPMS	<0.38	ug/Kg	
Lead Soil (OES)	202	ICP-OES	15	mg/Kg	
Mercury (Leachate)	128	ICPMS	<0.2	ug/Kg	
Mercury Soil (OES)	0	ICP-OES	<2.5	mg/Kg	
Naphthalene (Soil)	200	GC-MS 1	<0.05	mg/Kg	
Nickel (Leachate)	128	ICPMS	65	ug/Kg	
Nickel Soil (OES)	0	ICP-OES	24	mg/kg	
Phenanthrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Selenium (Leachate)	128	ICPMS	<0.74	ug/Kg	
Selenium Soil (OES)	0	ICP-OES	<10	mg/kg	
Sulphate (Leachate)	190	IC	13.87	ug/Kg as SO4	
Sulphur (Leachate)	0	ICPMS	35	mg/Kg	
Vanadium (Leachate)	177	ICPMS	284	ug/L	
Vanadium soil (OES)	224	ICP-OES	15	mg/Kg	
Zinc (Leachate)	128	ICPMS	25	ug/Kg	
Zinc Soil (OES)	202	ICP-OES	58	mg/Kg	

Signed: Donna Heslin
Donna Heslin - Laboratory Manager

Date: 14/08/08

Acc.: Accredited Parameters by ISO 17025:2005

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Customer	Colette Kelly Priority Geotechnical Ltd. 412 Owenacurra Business Park Middleton	Lab Report Ref. No.	6765/009/175
	Cork	Date of Receipt	19/06/2008
Customer PO	1395	Date Testing Commenced	19/06/2008
Customer Ref	TP213 1.5-1.6 (PC8056 Foynes)	Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	14/08/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS - Supplementary

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
% Dry Matter	302	Drying @ 104 C	80.02	%	
Acenaphthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Acenaphthylene (Soil)	200	GC-MS 1	<0.05	mg/Kg	
Anthracene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Arsenic (Leachate)	128	ICPMS	72	ug/Kg	
Arsenic Soil (OES)	0	ICP-OES	<10	mg/kg	
Barium (Leachate)	128	ICPMS	103	ug/Kg	
Barium Soil (OES)	0	ICP-OES	33	mg/kg	
Benzo(a)anthracene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Benzo(a)-pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Benzo(b)-fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Benzo(ghi)perylene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Benzo(k)-fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Beryllium (Leachate)	177	ICPMS	<0.2	ug/L	
Beryllium soil (OES)	224	ICP-OES	<10	mg/Kg	
Boron (Leachate)	177	ICPMS	113	ug/Kg	
Boron soil (OES)	202	ICP-OES	10	mg/kg	
Cadmium (Leachate)	128	ICPMS	31	ug/Kg	
Cadmium Soil (OES)	224	ICP-OES	2.20	mg/Kg	
Chromium (Leachate)	128	ICPMS	4	ug/Kg	
Chromium Soil (OES)	224	ICP-OES	13	mg/kg	
Chrysene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Copper (Leachate)	128	ICPMS	41	ug/Kg	
Copper Soil (OES)	202	ICP-OES	<10	mg/Kg	
Dibenzo(a,h)anthracene (soil)	200	GC-MS 1	<0.5	mg/Kg	

Signed: Donna Heslin

Date: 14/08/08

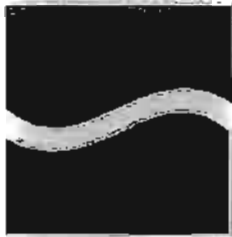
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Customer	Colette Kelly Priority Geotechnical Ltd. 412 Owenacurra Business Park Middleton Cork	Lab Report Ref. No.	6765/009/17S
Customer PO	1395	Date of Receipt	18/05/2008
Customer Ref	TP213 1.5-1.6 (PCB058 Foynes)	Date Testing Commenced	18/08/2008
		Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	14/08/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS - Supplementary

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Fluorene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Indeno(1, 2, 3-cd)pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Lead (Leachate)	128	ICPMS	<0.38	ug/Kg	
Lead Soil (OES)	202	ICP-OES	22	mg/Kg	
Mercury (Leachate)	128	ICPMS	22	ug/Kg	
Mercury Soil (OES)	0	ICP-OES	<2.5	mg/Kg	
Naphthalene (Soil)	200	GC-MS 1	<0.05	mg/Kg	
Nickel (Leachate)	128	ICPMS	66	ug/Kg	
Nickel Soil (OES)	0	ICP-OES	18	mg/kg	
Phenanthrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Selenium (Leachate)	128	ICPMS	<0.74	ug/Kg	
Selenium Soil (OES)	0	ICP-OES	<10	mg/kg	
Sulphate (Leachate)	190	IC	91.32	ug/Kg as SO4	
Sulphur (Leachate)	0	ICPMS	103	mg/Kg	
Vanadium (Leachate)	177	ICPMS	19	ug/L	
Vanadium soil (OES)	224	ICP-OES	18	mg/Kg	
Zinc (Leachate)	128	ICPMS	17	ug/Kg	
Zinc Soil (OES)	202	ICP-OES	71	mg/Kg	

Signed: Donna Heslin
Donna Heslin - Laboratory Manager

Date: 14/08/08

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Customer	Colette Kelly Priority Geotechnical Ltd. 412 Owenacorra Business Park Midleton Cork	Lab Report Ref. No	6766/000/185
Customer PO	1395	Date of Receipt	19/06/2008
Customer Ref	TP214 0.1-0.2 (PCB058 Foynas)	Date Testing Commenced	19/06/2008
		Received or Collected	Courier/Interlink
		Condition on Receipt	Acceptable
		Date of Report	14/08/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS - Supplementary

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
% Dry Matter	302	Drying @ 104 C	95.61	%	
Acenaphthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Acenaphthylene (Soil)	200	GC-MS 1	<0.05	mg/Kg	
Anthracene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Arsenic (Leachate)	128	ICPMS	<0.98	ug/Kg	
Arsenic Soil (OES)	0	ICP-OES	12	mg/kg	
Barium (Leachate)	128	ICPMS	380	ug/Kg	
Barium Soil (OES)	0	ICP-OES	13	mg/kg	
Benzo(a)anthracene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Benzo(a)pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Benzo(b)fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Benzo(ghi)perylene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Benzo(k)fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Beryllium (Leachate)	177	ICPMS	<0.2	ug/L	
Beryllium soil (OES)	224	ICP-OES	<10	mg/Kg	
Boron (Leachate)	177	ICPMS	209	ug/Kg	
Boron soil (OES)	202	ICP-OES	11	mg/kg	
Cadmium (Leachate)	128	ICPMS	37	ug/Kg	
Cadmium Soil (OES)	224	ICP-OES	2.62	mg/Kg	
Chromium (Leachate)	128	ICPMS	198	ug/Kg	
Chromium Soil (OES)	224	ICP-OES	<10	mg/kg	
Chrysene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Copper (Leachate)	128	ICPMS	22	ug/Kg	
Copper Soil (OES)	202	ICP-OES	14	mg/Kg	
Dibenzo(a,h)anthracene (soil)	200	GC-MS 1	<0.5	mg/Kg	

Signed: Donna Heslin

Date: 14/08/08

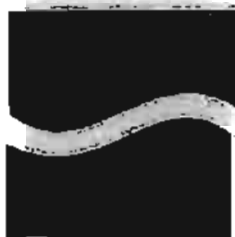
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Customer PO	1385	Date of Receipt	19/06/2008
Customer Ref	TP214 0.1-0.2 (PC8066 Foynea)	Date Testing Commenced	19/06/2008
		Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	14/08/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS - Supplementary

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Fluorene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Indeno(1, 2, 3-cd)pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Lead (Leachate)	128	ICPMS	<0.38	ug/Kg	
Lead Soil (OES)	202	ICP-OES	<10	mg/Kg	
Mercury (Leachate)	128	ICPMS	14	ug/Kg	
Mercury Soil (OES)	0	ICP-OES	<2.5	mg/Kg	
Naphthalene (Soil)	200	GC-MS 1	<0.05	mg/Kg	
Nickel (Leachate)	128	ICPMS	78	ug/Kg	
Nickel Soil (OES)	0	ICP-OES	25	mg/kg	
Phenanthrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Selenium (Leachate)	128	ICPMS	<0.74	ug/Kg	
Selenium Soil (OES)	0	ICP-OES	<10	mg/kg	
Semi VOC (Soil)	155	GC-MS 2	<1	mg/Kg	
Sulphate (Leachate)	190	IC	7.59	ug/Kg as SO4	
Sulphur (Leachate)	0	ICPMS	25	mg/Kg	
Vanadium (Leachate)	177	ICPMS	1474	ug/L	
Vanadium Soil (OES)	224	ICP-OES	17	mg/Kg	
VOC (Soil)	154	GC-MS 1	<1	ug/Kg	
Zinc (Leachate)	128	ICPMS	92	ug/Kg	
Zinc Soil (OES)	202	ICP-OES	38	mg/Kg	

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Signed: Donna Heslin
Donna Heslin - Laboratory Manager

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Customer	Colette Kelly Priority Geotechnical Ltd. 412 Owenacurra Business Park Middleton Cork	Lab Report Ref. No.	6765/009/198
Customer PO	1396	Date of Receipt	19/08/2008
Customer Ref	TP215 0.4-0.5 (PC8056 Foynes)	Date Testing Commenced	19/08/2008
		Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	14/08/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS - Supplementary

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
% Dry Matter	302	Drying @ 104 C	94.85	%	
Acenaphthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Acenaphthylene (Soil)	200	GC-MS 1	<0.05	mg/Kg	
Anthracene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Arsenic (Leachate)	128	ICPMS	124	ug/Kg	
Arsenic Soil (OES)	0	ICP-OES	<10	mg/kg	
Barium (Leachate)	128	ICPMS	1223	ug/Kg	
Barium Soil (OES)	0	ICP-OES	<10	mg/kg	
Benzo(a)anthracene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Benzo(a)-pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Benzo(b)-fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Benzo(ghi)perylene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Benzo(k)-fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Beryllium (Leachate)	177	ICPMS	<0.2	ug/L	
Beryllium soil (OES)	224	ICP-OES	<10	mg/Kg	
Boron (Leachate)	177	ICPMS	699	ug/Kg	
Boron soil (OES)	202	ICP-OES	10	mg/kg	
Cadmium (Leachate)	128	ICPMS	59	ug/Kg	
Cadmium Soil (OES)	224	ICP-OES	2.29	mg/Kg	
Chromium (Leachate)	128	ICPMS	586	ug/Kg	
Chromium Soil (OES)	224	ICP-OES	<10	mg/kg	
Chrysene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Copper (Leachate)	128	ICPMS	114	ug/Kg	
Copper Soil (OES)	202	ICP-OES	<10	mg/Kg	
Dibenzo(a,h)anthracene (soil)	200	GC-MS 1	<0.5	mg/Kg	

Signed: Donna Heslin

Date: 14/08/08

Donna Heslin - Laboratory Manager

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Customer	Colette Kelly Priority Geotechnical Ltd. 412 Owenacurra Business Park Midleton Cork	Lab Report Ref. No.	E758/008/185
Customer PO	1386	Date of Receipt	19/08/2008
Customer Ref	TP216 0.4-0.6 (PC8056 Foynes)	Date Testing Commenced	19/08/2008
		Received or Collected	Courier: Inerlink
		Condition on Receipt	Acceptable
		Date of Report	14/08/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS - Supplementary

TestParameter	SOP	Analytical Technique	Result	Units	Acc.
Fluoranthene (Soil)	208	GC-MS 1	<0.50	mg/Kg	
Fluorene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Indeno(1, 2, 3-cd)pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Lead (Leachate)	128	ICPMS	40	ug/Kg	
Lead Soil (OES)	202	ICP-OES	<12	mg/Kg	
Mercury (Leachate)	128	ICPMS	13	ug/Kg	
Mercury Soil (OES)	0	ICP-OES	<2.5	mg/Kg	
Naphthalene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Nickel (Leachate)	128	ICPMS	412	ug/Kg	
Nickel Soil (OES)	0	ICP-OES	18	mg/kg	
Phenanthrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Selenium (Leachate)	128	ICPMS	<0.74	ug/Kg	
Selenium Soil (OES)	0	ICP-OES	<10	mg/kg	
Sulphate (Leachate)	190	IC	4.73	ug/Kg as SO4	
Sulphur (Leachate)	0	ICPMS	28	mg/Kg	
Vanadium (Leachate)	177	ICPMS	567	ug/L	
Vanadium soil (OES)	224	ICP-OES	<10	mg/Kg	
Zinc (Leachate)	128	ICPMS	643	ug/Kg	
Zinc Soil (OES)	202	ICP-OES	38	mg/Kg	

Signed: Donna Heslin

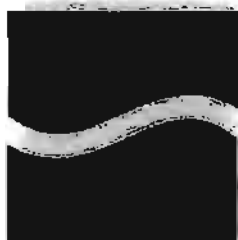
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Customer	Colette Kelly Priority Geotechnical Ltd. 412 Owenacurra Business Park Midleton Cork	Lab Report Ref. No.	6785/009/20S
Customer PO	1396	Date of Receipt	19/06/2008
Customer Ref	TP216 0.7-0.8 (PC8056 Foynes)	Date Testing Commenced	19/06/2008
		Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	14/08/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS - Supplementary

Test/Parameter	SOP	Analytical Technique	Result	Units	Acc.
% Dry Matter	302	Drying @ 104 C	93.35	%	
Aconaphthene (Soil)	200	GC-MS 1	<0.60	mg/Kg	
Aconaphthylene (Soil)	200	GC-MS 1	<0.05	mg/Kg	
Anthracene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Arsenic (Leachate)	128	ICPMS	92	ug/Kg	
Arsenic Soil (OES)	0	ICP-OES	<10	mg/kg	
Barium (Leachate)	128	ICPMS	577	ug/Kg	
Barium Soil (OES)	0	ICP-OES	11	mg/kg	
Benzo(a)anthracene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Benzo(a)-pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Benzo(b)-fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Benzo(ghi)perylene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Benzo(k)-fluoranthene (Soil)	200	GC-MS 1	<0.60	mg/Kg	
Beryllium (Leachate)	177	ICPMS	<0.2	ug/L	
Beryllium soil (OES)	224	ICP-OES	<10	mg/Kg	
Boron (Leachate)	177	ICPMS	165	ug/Xg	
Boron soil (OES)	202	ICP-OES	18	mg/kg	
Cadmium (Leachate)	128	ICPMS	37	ug/Kg	
Cadmium Soil (OES)	224	ICP-OES	2.51	mg/Kg	
Chromium (Leachate)	128	ICPMS	157	ug/Kg	
Chromium Soil (OES)	224	ICP-OES	<10	mg/kg	
Chrysene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Copper (Leachate)	128	ICPMS	34	ug/Kg	
Copper Soil (OES)	202	ICP-OES	<10	mg/Kg	
Dibenzo(a,h)anthracene (soil)	200	GC-MS 1	<0.6	mg/Kg	

Signed: Donna Heslin

Date: 14/08/08

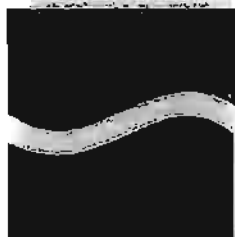
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Customer	Colette Kelly Priority Geotechnical Ltd. 412 Owenacurra Business Park Middleton Cork	Lab Report Ref. No.	8766/009/20S
Customer PO	1395	Date of Receipt	19/06/2008
Customer Ref	TP216 0.7-0.8 (PC8056 Foynes)	Date Testing Commenced	19/08/2008
		Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	14/08/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS - Supplementary

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Fluoranthene (Soil)	200	GC-MS 1	<0.60	mg/Kg	
Fluorene (Soil)	200	GC-MS 1	<0.60	mg/Kg	
Indeno(1, 2, 3-cd)pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Lead (Leachate)	128	ICPMS	19	ug/Kg	
Lead Soil (OES)	202	ICP-OES	<10	mg/Kg	
Mercury (Leachate)	128	ICPMS	<0.2	ug/Kg	
Mercury Soil (OES)	0	ICP-OES	<2.5	mg/Kg	
Naphthalene (Soil)	200	GC-MS 1	<0.05	mg/Kg	
Nickel (Leachate)	128	ICPMS	152	ug/Kg	
Nickel Soil (OES)	0	ICP-OES	16	mg/kg	
Phenanthrene (Soil)	200	GC-MS 1	<0.60	mg/Kg	
Pyrene (Soil)	200	GC-MS 1	<0.60	mg/Kg	
Selenium (Leachate)	128	ICPMS	189	ug/Kg	
Selenium Soil (OES)	0	ICP-OES	<10	mg/kg	
Semi VOC (Soil)	155	GC-MS 2	<1	mg/Kg	
Sulphate (Leachate)	190	IC	15.41	ug/Kg as SO4	
Sulphur (Leachate)	0	ICPMS	26	mg/Kg	
TPH Soil (C6-C38)	317	GC-FID	1.8	mg/Kg	
Vanadium (Leachate)	177	ICPMS	164	ug/L	
Vanadium soil (OES)	224	ICP-OES	<10	mg/Kg	
VOC (Soil)	154	GC-MS 1	<1	ug/Kg	
Zinc (Leachate)	128	ICPMS	311	ug/Kg	
Zinc Soil (OES)	202	ICP-OES	36	mg/Kg	

Signed: Donna Heslin

Date: 14/08/08

Donna Heslin - Laboratory Manager

Acc.: Accredited Parameters by ISO 17025:2005

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Customer	Colette Kelly Priority Geotechnical Ltd. 412 Owenacurra Business Park Midleton Cork	Lab Report Ref. No.	6786/009/21S
Customer PO	1395	Date of Receipt	19/06/2008
Customer Ref	TP217 0.5-0.6 (PC8066 Foynes)	Date Testing Commenced	19/06/2008
		Received or Collected	Courier: InterLink
		Condition on Receipt	Acceptable
		Date of Report	14/08/2008
		Sample Type	Water

CERTIFICATE OF ANALYSIS - Supplementary

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
% Dry Matter	302	Drying @ 104 C	94.31	%	
Acenaphthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Acenaphthylene (Soil)	200	GC-MS 1	<0.05	mg/Kg	
Anthracene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Arsenic (Leachate)	128	ICPMS	76	ug/Kg	
Arsenic Soil (OES)	0	ICP-OES	<10	mg/kg	
Asbestos Screening	0	Light Microscopy	N/D	N/A	
Barium (Leachate)	128	ICPMS	224	ug/Kg	
Barium Soil (OES)	0	ICP-OES	20	mg/kg	
Benzo(a)anthracene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Benzo(a)-pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Benzo(b)-fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Benzo(ghi)perylene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Benzo(k)-fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Beryllium (Leachate)	177	ICPMS	<0.2	ug/L	
Beryllium soil (OES)	224	ICP-OES	<10	mg/Kg	
Boron (Leachate)	177	ICPMS	49	ug/Kg	
Boron soil (OES)	202	ICP-OES	<10	mg/kg	
Cadmium (Leachate)	128	ICPMS	34	ug/Kg	
Cadmium Soil (OES)	224	ICP-OES	2.64	mg/Kg	
Chromium (Leachate)	128	ICPMS	48	ug/Kg	
Chromium Soil (OES)	224	ICP-OES	<10	mg/kg	
Chrysene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Copper (Leachate)	128	ICPMS	38	ug/Kg	
Copper Soil (OES)	202	ICP-OES	<10	mg/Kg	

Signed: Donna Haslin

Date: 14/08/08

Donna Haslin - Laboratory Manager

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Customer	Colette Kelly Priority Geotechnical Ltd, 412 Owenacurra Business Park Midleton	Lab Report Ref. No	6785/009/215
Customer PO	Cork 1395	Date of Receipt	15/06/2008
Customer Ref	TP217 0.6-0.6 (PC6055 Foynes)	Date Testing Commenced	15/06/2008
		Received or Collected	Courier/Interlink
		Condition on Receipt	Acceptable
		Date of Report	14/08/2008
		Sample Type	Water

CERTIFICATE OF ANALYSIS - Supplementary

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Dibenzo(a,h)anthracene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Fluorene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Indeno(1, 2, 3-cd)pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Lead (Leachate)	128	ICPMS	<0.38	ug/Kg	
Lead Soil (OES)	202	ICP-OES	12	mg/Kg	
Mercury (Leachate)	128	ICPMS	<0.2	ug/Kg	
Mercury Soil (OES)	0	ICP-OES	<1.5	mg/Kg	
Naphthalene (Soil)	200	GC-MS 1	<0.95	mg/Kg	
Nickel (Leachate)	128	ICPMS	66	ug/Kg	
Nickel Soil (OES)	0	ICP-OES	19	mg/kg	
Phenanthrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Selenium (Leachate)	128	ICPMS	<0.74	ug/Kg	
Selenium Soil (OES)	0	ICP-OES	<10	mg/kg	
Sulphate (Leachate)	190	IC	424.42	ug/Kg as SO4	
Sulphur (Leachate)	0	ICPMS	37	mg/Kg	
Vanadium (Leachate)	177	ICPMS	61	ug/L	
Vanadium soil (OES)	224	ICP-OES	<10	mg/Kg	
Zinc (Leachate)	128	ICPMS	114	ug/Kg	
Zinc Soil (OES)	202	ICP-OES	48	mg/Kg	

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Signed: Donna Heslin

Date: 14/08/08

Donna Heslin - Laboratory Manager

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Customer	Colette Kelly Priority Geotechnical Ltd. 412 Owenacurra Business Park Midleton Cork	Lab Report Ref. No.	6765/008/228
Customer PO	1396	Date of Receipt	19/06/2008
Customer Ref	TP218 0.5-0.6 (PC8056 Foynes)	Date Testing Commenced	19/06/2008
		Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	14/08/2008
		Sample Type	Water

CERTIFICATE OF ANALYSIS - Supplementary

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
% Dry Matter	302	Drying @ 104 C	82.62	%	
Acenaphthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Acenaphthylene (Soil)	200	GC-MS 1	<0.05	mg/Kg	
Anthracene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Arsenic (Leachate)	128	ICPMS	82	ug/Kg	
Arsenic Soil (OES)	0	ICP-OES	<10	mg/kg	
Asbestos Screening	0	Light Microscopy	N/D	N/A	
Barium (Leachate)	128	ICPMS	177	ug/Kg	
Barium Soil (OES)	0	ICP-OES	38	mg/kg	
Benzo(a)anthracene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Benzo(a)-pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Benzo(b)-fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Benzo(ghi)perylene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Benzo(k)-fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Beryllium (Leachate)	177	ICPMS	<0.2	ug/L	
Beryllium soil (OES)	224	ICP-OES	<10	mg/Kg	
Boron (Leachate)	177	ICPMS	157	ug/Kg	
Boron soil (OES)	202	ICP-OES	<10	mg/kg	
Cadmium (Leachate)	128	ICPMS	31	ug/Kg	
Cadmium Soil (OES)	224	ICP-OES	2.47	mg/Kg	
Chromium (Leachate)	128	ICPMS	25	ug/Kg	
Chromium Soil (OES)	224	ICP-OES	<10	mg/kg	
Chrysene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Copper (Leachate)	128	ICPMS	88	ug/Kg	
Copper Soil (OES)	202	ICP-OES	<10	mg/Kg	

Signed: Donna Heslin

Donna Heslin - Laboratory Manager

Date: 14/08/08

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Customer	Colette Kelly Priority Geotechnical Ltd. 412 Owenacurra Business Park Midleton Cork	Lab Report Ref. No.	6786/009/22S
Customer PO	1396	Date of Receipt	19/08/2008
Customer Ref	TP218 0.6-0.6 (PC8056 Foynes)	Date Testing Commenced	19/06/2008
		Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	14/08/2008
		Sample Type	Water

CERTIFICATE OF ANALYSIS - Supplementary

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Dibenzo(a,h)anthracene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Fluorene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Indeno(1, 2, 3-cd)pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Lead (Leachate)	128	ICPMS	32	ug/Kg	
Lead Soil (OES)	202	ICP-OES	29	mg/Kg	
Mercury (Leachate)	128	ICPMS	15	ug/Kg	
Mercury Soil (OES)	0	ICP-OES	<2.5	mg/Kg	
Naphthalene (Soil)	200	GC-MS 1	<0.05	mg/Kg	
Nickel (Leachate)	128	ICPMS	74	ug/Kg	
Nickel Soil (OES)	0	ICP-OES	19	mg/kg	
Phenanthrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Selenium (Leachate)	128	ICPMS	<0.74	ug/Kg	
Selenium Soil (OES)	0	ICP-OES	<10	mg/kg	
Sulphate (Leachate)	190	IC	22.06	ug/Kg as SO4	
Sulphur (Leachate)	0	ICPMS	23	mg/Kg	
TPH Soil (C6-C36)	317	GC-FID	2	mg/Kg	
Vanadium (Leachate)	177	ICPMS	36	ug/L	
Vanadium soil (OES)	224	ICP-OES	<10	mg/Kg	
Zinc (Leachate)	128	ICPMS	108	ug/Kg	
Zinc Soil (OES)	202	ICP-OES	82	mg/Kg	

Signed: Donna Heslin

Date: 14/08/08

Donna Heslin - Laboratory Manager

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Customer	Colette Kelly Priority Geotechnical Ltd. 412 Owenscurra Business Park Midleton Cork	Lab Report Ref. No.	6786/006/235
Customer PO	1395	Date of Receipt	19/08/2008
Customer Ref	TP218 0.7-0.8 (PC0066 Foynes)	Date Testing Commenced	19/08/2008
		Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	14/08/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS - Supplementary

Test Parameter	SOR	Analytical Technique	Result	Units	Acc.
% Dry Matter	302	Drying @ 104 C	93.94	%	
Aconaphthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Aconaphthylene (Soil)	200	GC-MS 1	<0.05	mg/Kg	
Anthracene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Arsenic (Leachate)	128	ICPMS	<0.98	ug/Kg	
Arsenic Soil (OES)	0	ICP-OES	<10	mg/kg	
Barium (Leachate)	128	ICPMS	234	ug/Kg	
Barium Soil (OES)	0	ICP-OES	28	mg/kg	
Benzo(a)anthracene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Benzo(a)pyrene (Soil)	200	GC-MS	<0.50	mg/Kg	
Benzo(b)-fluoranthene (Soil)	200	GC-MS	<0.50	mg/Kg	
Benzo(g,h)perylene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Benzo(k)-fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Beryllium (Leachate)	177	ICPMS	<0.2	ug/l	
Beryllium soil (OES)	224	ICP-OES	<10	mg/Kg	
Boron (Leachate)	177	ICPMS	30	ug/Kg	
Boron soil (OES)	202	ICP-OES	<10	mg/kg	
Cadmium (Leachate)	128	ICPMS	38	ug/Kg	
Cadmium Soil (OES)	224	ICP-OES	2.48	mg/Kg	
Chromium (Leachate)	128	ICPMS	49	ug/Kg	
Chromium Soil (OES)	224	ICP-OES	<10	mg/kg	
Chrysenes (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Copper (Leachate)	128	ICPMS	58	ug/Kg	
Copper Soil (OES)	302	ICP-OES	<10	mg/Kg	
Dibenzo(a,h)anthracene (soil)	200	GC-MS 1	<0.5	mg/Kg	

Signed: Donna Heslin

Donna Heslin - Laboratory Manager

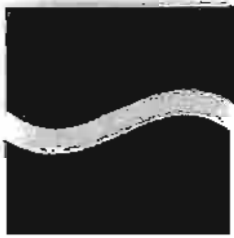
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Customer PO	1395	Date of Receipt	19/06/2008
Customer Ref	TP218 0.7-0.8 (PC8056 Foynes)	Date Testing Commenced	19/06/2008
		Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	14/08/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS - Supplementary

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Fluorene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Indeno(1, 2, 3-cd)pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Lead (Leachate)	128	ICPMS	<0.38	ug/Kg	
Lead Soil (OES)	202	ICP-OES	20	mg/Kg	
Mercury (Leachate)	128	ICPMS	<0.2	ug/Kg	
Mercury Soil (OES)	0	ICP-OES	<2.8	mg/Kg	
Naphthalene (Soil)	200	GC-MS 1	<0.05	mg/Kg	
Nickel (Leachate)	128	ICPMS	86	ug/Kg	
Nickel Soil (OES)	0	ICP-OES	21	mg/kg	
Phenanthrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Selenium (Leachate)	128	ICPMS	<0.74	ug/Kg	
Selenium Soil (OES)	0	ICP-OES	<10	mg/kg	
Sulphate (Leachate)	190	IC	10.16	ug/Kg as SO4	
Sulphur (Leachate)	0	ICPMS	26	mg/Kg	
TPH Soil (C6-C36)	317	GC-FID	5.8	mg/Kg	
Vanadium (Leachate)	177	ICPMS	36	ug/L	
Vanadium soil (OES)	224	ICP-OES	<10	mg/Kg	
Zinc (Leachate)	128	ICPMS	158	ug/Kg	
Zinc Soil (OES)	202	ICP-OES	68	mg/Kg	

Signed: Donna Heslin

Date: 14/08/08

Donna Heslin - Laboratory Manager

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Customer PO	1385	Date of Receipt	19/06/2008
Customer Ref	Stockpile (PC8068 Foynes)	Date Testing Commenced	19/06/2008
		Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	14/08/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS - Supplementary

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
% Dry Matter	302	Drying @ 104 C	94.01	%	
Acid Neutralisation capacity (pH4)	128	Titrimetry	<0.50	mol/Kg	
Acid Neutralisation Capacity (pH7)	128	Titrimetry	<0.50	mol/Kg	
Antimony (Leachate)	128	ICPMS	61	ug/Kg	
Arsenic (Leachate)	128	ICPMS	123	ug/Kg	
Arsenic Soil (OES)	0	ICP-OES	<10	mg/kg	
Barium (Leachate)	128	ICPMS	127	ug/Kg	
Barium Soil (OES)	0	ICP-OES	70	mg/kg	
Beryllium soil (OES)	224	ICP-OES	<10	mg/Kg	
Boron soil (OES)	202	ICP-OES	41	mg/kg	
BTEX In Solid	179	GC-MS	<1	mg/Kg	
Cadmium (Leachate)	128	ICPMS	30	ug/Kg	
Cadmium Soil (OES)	224	ICP-OES	2.23	mg/Kg	
Chloride (Leachate WAC)	190	IC	32.94	mg/Kg	
Chromium (Leachate)	128	ICPMS	<0.93	ug/Kg	
Chromium Soil (OES)	224	ICP-OES	<10	mg/kg	
Copper (Leachate)	128	ICPMS	38	ug/Kg	
Copper Soil (OES)	202	ICP-OES	<10	mg/Kg	
Dissolved Organic Carbon (Leachate)	316	TOC Analyser	78.9	mg/Kg	
Fluoride (Leachate WAC)	190	IC	2.04	mg/Kg	
Lead (Leachate)	128	ICPMS	<0.38	ug/Kg	
Lead Soil (OES)	202	ICP-OES	<10	mg/Kg	
Loss on Ignition	310	Ashing @ 550 C	21.38	%	
Mercury (Leachate)	128	ICPMS	<0.2	ug/Kg	
Mercury Soil (OES)	0	ICP-OES	<2.5	mg/Kg	

Signed : Donna Heslin

Date : 14/08/08

Donna Heslin - Laboratory Manager

Acc. : Accredited Parameters by ISO 17025:2005

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Water, Soil & Air Testing

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Customer	Colette Kelly Priority Geotechnical Ltd. 412 Owenacorra Business Park Mldleton Cork	Lab Report Ref. No.	6785/009/25S
Customer PO	1395	Date of Receipt	19/06/2008
Customer Ref	Stockpile (PC8056 Foynas)	Date Testing Commenced	18/06/2008
		Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	14/08/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS - Supplementary

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Mineral oil In Solid	158	GC-FID	<1	mg/Kg	
Molybdenum (Leachate)	128	ICPMS	9	ug/Kg	
Nickel (Leachate)	128	ICPMS	25	ug/Kg	
Nickel Soil (OES)	0	ICP-OES	<10	mg/kg	
PAH solid (Sum of 17)	200	GC-MS 1	20.588	mg/Kg	
PCBs In Solid	167	GC-MS 1	<1	mg/Kg	
pH (Solid)	110	Electrometry	7.8	pH Units	
Phenol Index (Leachate)	128	Colorimetry	0.07	ug/Kg	
Selenium (Leachate)	128	ICPMS	84	ug/Kg	
Selenium Soil (OES)	0	ICP-OES	<10	mg/kg	
Sulphate (Leachate WAC)	190	IC	475.33	mg/Kg	
TOC (Solid)	315	TOC Analyser	23.33	%	
Total Dissolved Solids (Leachate)	128	Evaporation/ Gravimetry	1060	mg/Kg	
Vanadium soil (OES)	224	ICP-OES	<10	mg/Kg	
Zinc (Leachate)	128	ICPMS	128	ug/Kg	
Zinc Soil (OES)	202	ICP-OES	40	mg/Kg	

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Donna Heslin - Laboratory Manager

Date : 14/08/08

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email: info@euroenv.ie

Customer	Colette Kelly Priority Geotechnical Ltd. 412 Owenacurra Business Park Midleton Cork	Lab Report Ref. No.	6765/011/01
Customer PO	1410	Date of Receipt	26/06/2008
Customer Ref	RC101 1.0-1.5 (PC8066)	Date Testing Commenced	26/06/2008
		Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	18/07/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
PCBs In Solid	167	GC-MS 1	<1	mg/Kg	
Phenanthrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Selenium (Leachate)	128	ICPMS	27	ug/Kg	
Sulphate (Leachate WAC)	190	IC	38.04	mg/Kg	
Sulphur (Leachate)	0	ICPMS	35	mg/Kg	
TPH C10-C36 (Soil)	188	GC-FID	1.7	mg/Kg	
Vanadium (Leachate)	177	ICPMS	4	ug/L	
Zinc (Leachate)	128	ICPMS	950	ug/Kg	

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Donna Heslin - Laboratory Manager

Date : 18/07/08

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Company Colatta Kelly
 Priority Geotechnical Ltd
 412 Owencurra Business Park
 Midleton
 Co. Cork

Batch Receipt Date 30/05/2008
 Received/Collected Received
 Condition Acceptable
 Report Date 16/07/2008

Job reference: PC8056

ParameterName	Units	TP202A	TP203	Inert Waste	Stable Non-Reactive	Hazardous Waste
		0.5-0.6 (PC8056 Foynes)	0.2-0.3 (PC8058 Foynes)			
% Dry Matter	%	87.78	82.92			
Acid Neutralisation capacity (pH4)	mol/Kg	<0.50	<0.50			
Acid Neutralisation Capacity (pH7)	mol/Kg	<0.50	<0.50			
Antimony (Leachate)	mg/Kg	<0.00075	<0.00075	0.06	0.7	5
Arsenic (Leachate)	mg/Kg	0.025	0.114	0.5	2	25
Barium (Leachate)	mg/Kg	0.104	0.204	20	100	300
BTEX In Solid	mg/Kg	<1	<1	5		
Cadmium (Leachate)	mg/Kg	<0.00009	<0.00009	0.04	1	5
Chloride (Leachate)	mg/Kg	12.18	171.42	800	15000	25000
Chromium (Leachate)	mg/Kg	0.013	0.078	0.5	10	70
Copper (Leachate)	mg/Kg	0.04	0.136	2	50	100
Dissolved Organic Carbon (Leachate)	mg/Kg	78.1	93.9	500	800	1000
Fluoride (Leachate)	mg/Kg	3.31	3.27	10	150	500
Lead (Leachate)	mg/Kg	<0.00038	0.012	0.5	10	50
Total Organic Carbon (TOC)	%	<1.0	<1.0	3	5	6
Mercury (Leachate)	mg/Kg	<0.0002	<0.0002	0.01	0.2	2
Mineral oil in Solid	mg/Kg	<1	<1	500		
Molybdenum (Leachate)	mg/Kg	0.027	0.086	0.5	10	30
Nickel (Leachate)	mg/Kg	0.022	0.147	0.4	10	40
PAH (Sol)	mg/Kg	<1.00	<1.00	100		
PCBs in Solid	mg/Kg	<1	<1	1		
Selenium (Leachate)	mg/Kg	0.012	0.037	0.1	0.5	7
Sulphate (Leachate)	mg/Kg	124.14	98.99	1000	20000	50000
Total Dissolved Solids (Leachate)	mg/Kg	1980	1990	4000	60000	100000
Zinc (Leachate)	mg/Kg	0.136	0.186	4	50	200
Phenol Index (Leachate)	mg/Kg	<0.00001	0.00009	1		
Loss on Ignition	%	1.87	4.01			10
pH (Solid)	pH Units	8.1	7.8		>6	

Please refer to the relevant waste licence conditions at the proposed disposal site.

Note 1: Either TOC or LOI must be used for hazardous wastes

Landfill Amendment Regulations 2005)

Note 3: If inert waste does not meet the SO4 /S 10 limit, alternative limit values of 1500 mg/L Cl and Co (initial eluate from the percolation test (pCEN/TS 14406:2003)) and 6000mg/Kg

Note 4: The values for TDS can be used instead of the values for Cl and SO4

Note 5: DOC at pH 7.5-8.0 and /S 10 can be determined on the eluate derived from a modified version of the pH dependence test, pCEN/TS 14429:2003, if the limit value at own pH (BS EN

Note 6: In the case of soils, a higher TOC limit value may be permitted by the Environment Agency at an inert waste landfill, provided the DOC value of 500mg/Kg is achieved at /S 10 /Kg, either at the soil's own pH or at a pH value between 7.5 and 8.0

Note 7: For determining the total of PAH, the following 17 compounds must be added to a sum:

Flouranthene	Naphthalene	Pyrene
Benzo(a)pyrene	Acenaphthylene	Chrysene
Benzo(b)flouranthene	Acenaphthene	Benzo(a)anthracene
Benzo(k)flouranthene	Fluorene (9H-Fluorene)	Dibenzo (a,h)anthracene
Benzo(g,h,i)perylene	Phenanthrene	Coronene
Indeno(1,2,3-c,d)pyrene	Anthracene	

Signed: Donna Healy

Date: 17/07/08



Customer: **Coastal Kelly**
 Company: **Priority Environmental Ltd**
 412 Chesham Business Park
 Woking
 Surrey
 GU24 0JH

Report Number: **1005010**
 Project/Location Name: **Coastal Kelly**
 Client: **Coastal Kelly**
 Report Date: **08/07/08**
 Job Reference: **1005010**

Parameter	Unit	Result	Limit	Result	Limit	Result	Limit
N-Dry Mass	%	41.49	46.49	49.32	51.7	51.43	
Arsenic (As) (mg/kg)	mg/kg	<0.00028	0.149	0.124	0.00048	<0.00048	0.149
Boron (B) (mg/kg)	mg/kg	0.113	0.141	0.113	0.141	0.113	0.141
Chromium (Cr) (mg/kg)	mg/kg	0.005	0.052	0.005	0.052	0.005	0.052
Chromium (Cr) (mg/kg)	mg/kg	0.04	0.04	0.005	0.04	0.005	0.04
Copper (Cu) (mg/kg)	mg/kg	0.00	0.10	0.00	0.10	0.00	0.10
Lead (Pb) (mg/kg)	mg/kg	<0.00028	0.00028	<0.00028	0.00028	<0.00028	0.00028
Mercury (Hg) (mg/kg)	mg/kg	<0.0002	0.047	0.000	0.047	<0.0002	0.047
Nickel (Ni) (mg/kg)	mg/kg	0.000	0.040	0.000	0.040	0.000	0.040
Selenium (Se) (mg/kg)	mg/kg	0.000	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074
Sulphate (SO4) (mg/kg)	mg/kg	28.71	28.77	28.44	28.77	28.44	28.77
Zinc (Zn) (mg/kg)	mg/kg	0.049	0.089	0.027	0.089	0.027	0.089
Antimony (Sb) (mg/kg)	mg/kg	<0.00	<0.00	<0.00	<0.00	<0.00	<0.00
Barium (Ba) (mg/kg)	mg/kg	<0.00	<0.00	<0.00	<0.00	<0.00	<0.00
Beryllium (Be) (mg/kg)	mg/kg	<0.00	<0.00	<0.00	<0.00	<0.00	<0.00
Bismuth (Bi) (mg/kg)	mg/kg	<0.00	<0.00	<0.00	<0.00	<0.00	<0.00
Cadmium (Cd) (mg/kg)	mg/kg	<0.00	<0.00	<0.00	<0.00	<0.00	<0.00
Chlorine (Cl) (mg/kg)	mg/kg	48.50	48.50	48.50	48.50	48.50	48.50
Chromium (Cr) (mg/kg)	mg/kg	<0.00	<0.00	<0.00	<0.00	<0.00	<0.00
Cobalt (Co) (mg/kg)	mg/kg	<0.00	<0.00	<0.00	<0.00	<0.00	<0.00
Copper (Cu) (mg/kg)	mg/kg	<0.00	<0.00	<0.00	<0.00	<0.00	<0.00
Fluoride (F) (mg/kg)	mg/kg	<0.00	<0.00	<0.00	<0.00	<0.00	<0.00
Iron (Fe) (mg/kg)	mg/kg	<0.00	<0.00	<0.00	<0.00	<0.00	<0.00
Manganese (Mn) (mg/kg)	mg/kg	<0.00	<0.00	<0.00	<0.00	<0.00	<0.00
Molybdenum (Mo) (mg/kg)	mg/kg	<0.00	<0.00	<0.00	<0.00	<0.00	<0.00
Nickel (Ni) (mg/kg)	mg/kg	<0.00	<0.00	<0.00	<0.00	<0.00	<0.00
Phosphorus (P) (mg/kg)	mg/kg	<0.00	<0.00	<0.00	<0.00	<0.00	<0.00
Potassium (K) (mg/kg)	mg/kg	<0.00	<0.00	<0.00	<0.00	<0.00	<0.00
Silver (Ag) (mg/kg)	mg/kg	<0.00	<0.00	<0.00	<0.00	<0.00	<0.00
Vanadium (V) (mg/kg)	mg/kg	<0.00	<0.00	<0.00	<0.00	<0.00	<0.00
pH (Soil)	pH (Soil)	5.2	5.2	5.2	5.2	5.2	5.2
TPH C10-C20 (Soil)	mg/kg	14	14	14	14	14	14
Urea (Soil) (mg/kg)	mg/kg	<0.00	<0.00	<0.00	<0.00	<0.00	<0.00
Ammonia (Soil) (mg/kg)	mg/kg	<0.00	<0.00	<0.00	<0.00	<0.00	<0.00
Soil VOC (Soil)	mg/kg	<0.00	<0.00	<0.00	<0.00	<0.00	<0.00

Please refer to the relevant weak points conditions of the proposed disposal site.

Note 1: Other VOC or UVI may be used for detection results.

Note 2: UK RAR guidelines are being followed upon final results.

UK 10 mg/kg detection limit values of 1000 mg/kg soil and 10 mg/kg water from the

Note 3: The values are 100 mg/kg for water content of the soil for 2 and 100 mg/kg

Note 4: DOC at pH 7.5 will give UVI 10 results which will be the same as the UVI 10 results from a modified method at the pH dependent level, i.e. DOC at pH 7.5 will give UVI 10 results at pH 7.5. The UVI 10 results are given.

Note 5: In the case of soil, a higher VOC level may be permitted by the Environment Agency at an appropriate level, provided the DOC value of 100 mg/kg is achieved at UVI 10 mg/kg, other than with soil with a pH value between 7.5 and 8.0.

Note 6: For sampling for soil or for the following 11 parameters must be added to a soil:

Fluoride	Ammonia	Mercury
Selenium	Chromium	Chlorine
Beryllium (Be)	Chromium (Cr)	Bismuth (Bi)
Bismuth (Bi)	Cadmium (Cd)	Cobalt (Co)
Chromium (Cr)	Copper (Cu)	Fluoride
Copper (Cu)	Iron (Fe)	Vanadium (V)
Fluoride	Nickel (Ni)	
Iron (Fe)	Phosphorus (P)	
Nickel (Ni)	Silver (Ag)	
Phosphorus (P)		
Silver (Ag)		

Signed: Donna Heslin
 Date: 03/07/08

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Customer	Colette Kelly Priority Geotechnical Ltd. 412 Owenacurra Business Park Midleton Cork	Lab Report Ref. No.	6765/011/01
Customer PO	1410	Date of Receipt	26/06/2008
Customer Ref	RC101 1.0-1.5 (PC8056)	Date Testing Commenced	26/06/2008
		Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	18/07/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
% Dry Matter	302	Drying @ 104 C	88.71	%	
Acenaphthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Acenaphthylene (Soil)	200	GC-MS 1	<0.05	mg/Kg	
Anthracene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Arsenic (Leachate)	128	ICPMS	22	ug/Kg	
Barium (Leachate)	128	ICPMS	1301	ug/Kg	
Benzo(a)anthracene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Benzo(a)-pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Benzo(b)-fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Benzo(ghi)perylene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Benzo(k)-fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Beryllium (Leachate)	177	ICPMS	<0.2	ug/L	
Boron (Leachate)	177	ICPMS	1387	ug/Kg	
Cadmium (Leachate)	128	ICPMS	<0.09	ug/Kg	
Chromium (Leachate)	128	ICPMS	9	ug/Kg	
Chrysene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Copper (Leachate)	128	ICPMS	74	ug/Kg	
Dibenzo(a,h)anthracene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Fluorene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Indeno(1, 2, 3-cd)pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Lead (Leachate)	128	ICPMS	<0.38	ug/Kg	
Mercury (Leachate)	128	ICPMS	1	ug/Kg	
Naphthalene (Soil)	200	GC-MS 1	<0.05	mg/Kg	
Nickel (Leachate)	128	ICPMS	25	ug/Kg	

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Date: 18/07/08

Donna Heslin - Laboratory Manager

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Customer	Collette Kelly Priority Geotechnical Ltd. 412 Owenacurra Business Park Midleton Cork	Lab Report Ref. No.	6785/011/02
Customer PO	1418	Date of Receipt	26/08/2008
Customer Ref	RC102 1.5-2.0 (PC8066)	Date Testing Commenced	26/08/2008
		Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	14/07/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
% Dry Matter	302	Drying @ 104 C	83.89	%	
Acanaphthene (Soil)	200	GC-MS 1	<0.60	mg/Kg	
Acanaphthylene (Soil)	200	GC-MS 1	<0.06	mg/Kg	
Anthracene (Soil)	200	GC-MS 1	<0.60	mg/Kg	
Arsenic (Leachate)	128	ICPMS	116	ug/Kg	
Asbestos Screening	0	Light Microscopy	N/D	N/A	
Berium (Leachate)	128	ICPMS	1134	ug/Kg	
Benzo(a)anthracene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Benzo(a)-pyrene (Soil)	200	GC-MS 1	<0.60	mg/Kg	
Benzo(b)-fluoranthene (Soil)	200	GC-MS 1	<0.60	mg/Kg	
Benzo(ghi)perylene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Benzo(k)-fluoranthene (Soil)	200	GC-MS 1	<0.60	mg/Kg	
Beryllium (Leachate)	177	ICPMS	<0.2	ug/L	
Baron (Leachate)	177	ICPMS	1300	ug/Kg	
Cadmium (Leachate)	128	ICPMS	<0.09	ug/Kg	
Chromium (Leachate)	128	ICPMS	11	ug/Kg	
Chrysene (Soil)	200	GC-MS 1	<0.60	mg/Kg	
Copper (Leachate)	128	ICPMS	144	ug/Kg	
Dibenzo(a,h)anthracene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Fluoranthene (Soil)	200	GC-MS 1	<0.60	mg/Kg	
Fluorene (Soil)	200	GC-MS 1	<0.60	mg/Kg	
Indeno(1,2,3-cd)pyrene (Soil)	200	GC-MS 1	<0.60	mg/Kg	
Lead (Leachate)	128	ICPMS	1	ug/Kg	
Mercury (Leachate)	128	ICPMS	1	ug/Kg	
Naphthalene (Soil)	200	GC-MS 1	<0.08	mg/Kg	

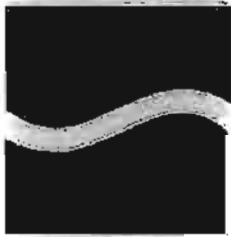
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Donna Heslin - Laboratory Manager

Date: 14/07/08

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Customer	Coletta Kelly Priority Geotechnical Ltd. 412 Owenacurra Business Park Midleton	Lab Report Ref. No.	6766/011/02
		Date of Receipt	26/06/2008
		Date Testing Commenced	26/06/2008
		Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
Customer PO	Cork 1410	Date of Report	14/07/2008
Customer Ref	RC102 1.6-2.0 (PC8056)	Sample Type	Soil

CERTIFICATE OF ANALYSIS

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Nickel (Leachate)	128	ICPMS	86	ug/Kg	
Phenanthrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Selenium (Leachate)	128	ICPMS	35	ug/Kg	
Sulphate (Leachate WAC)	190	IC	47.81	mg/Kg	
Sulphur (Leachate)	0	ICPMS	58	mg/Kg	
TPH C10-C38 (Soil)	189	GC-FID	9.8	mg/Kg	
Vanadium (Leachate)	177	ICPMS	11	ug/L	
Zinc (Leachate)	128	ICPMS	987	ug/Kg	

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Donna Heslin - Laboratory Manager

Date: 14/07/08

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Customer	Collette Kally Priority Geotechnical Ltd. 412 Dwenacurra Business Park Midleton Cork	Lab Report Ref. No.	6765/011/03
Customer PO	1410	Date of Receipt	26/06/2008
Customer Ref	RC102 2.5-3.0 (PCB058)	Date Testing Commenced	28/06/2008
		Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	14/07/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
% Dry Matter	302	Drying @ 104 C	86.31	%	
Acenaphthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Acenaphthylene (Soil)	200	GC-MS 1	<0.05	mg/Kg	
Anthracene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Arsenic (Leachate)	128	ICPMS	19	ug/Kg	
Barium (Leachate)	128	ICPMS	1249	ug/Kg	
Benzo(a)anthracene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Benzo(a)-pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Benzo(b)-fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Benzo(ghi)perylene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Benzo(k)-fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Beryllium (Leachate)	177	ICPMS	<0.2	ug/L	
Boron (Leachate)	177	ICPMS	1169	ug/Kg	
Cadmium (Leachate)	128	ICPMS	<0.09	ug/Kg	
Chromium (Leachate)	128	ICPMS	6	ug/Kg	
Chrysene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Copper (Leachate)	128	ICPMS	46	ug/Kg	
Dibenzo(a,h)anthracene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Fluorene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Indeno(1, 2, 3-cd)pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Lead (Leachate)	128	ICPMS	<0.38	ug/Kg	
Mercury (Leachate)	128	ICPMS	1	ug/Kg	
Naphthalene (Soil)	200	GC-MS 1	<0.05	mg/Kg	
Nickel (Leachate)	128	ICPMS	19	ug/Kg	

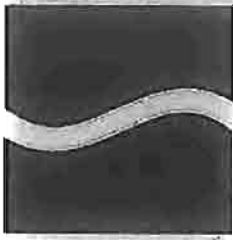
Signed : Donna Heslin

Donna Heslin - Laboratory Manager

Date : 14/07/08

Acc. : Accredited Parameters by ISO 17025:2005

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Customer	Coletta Kelly Priority Geotechnical Ltd. 412 Owenacurra Business Park Middleton Cork	Lab Report Ref. No.	8765/011/03
Customer PO	1410	Date of Receipt	26/06/2008
Customer Ref	RC102 2.5-3.0 (PG8058)	Date Testing Commenced	26/08/2008
		Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	14/07/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Phenanthrene (Soil)	200	GC-MS 1	<0.60	mg/Kg	
Pyrene (Soil)	200	GC-MS 1	<0.60	mg/Kg	
Selenium (Leachate)	128	ICPMS	24	ug/Kg	
Sulphate (Leachate WAC)	190	IC	74.02	mg/Kg	
Sulphur (Leachate)	0	ICPMS	51	mg/Kg	
Vanadium (Leachate)	177	ICPMS	<4	ug/L	
Zinc (Leachate)	128	ICPMS	688	ug/Kg	

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Donna Heslin - Laboratory Manager

Date: 14/07/08

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Customer	Colette Kelly Priority Geotechnical Ltd. 412 Owanacurra Business Park Middleton Cork	Lab Report Ref. No.	8765/009/01S
Customer PD	1395	Date of Receipt	19/06/2008
Customer Ref	BH103 0.6-0.6 (PC8056 Foynes)	Date Testing Commenced	19/06/2008
		Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	14/08/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS - Supplementary

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
% Dry Matter	302	Drying @ 104 C	90.88	%	
Acenaphthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Acenaphthylene (Soil)	200	GC-MS 1	<0.06	mg/Kg	
Anthracene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Arsenic (Leachate)	128	ICPMS	<0.98	ug/Kg	
Arsenic Soil (OES)	0	ICP-OES	11	mg/kg	
Asbestos Screening	0	Light Microscopy	N/D	N/A	
Barium (Leachate)	128	ICPMS	83	ug/Kg	
Barium Soil (OES)	0	ICP-OES	20	mg/kg	
Benzo(a)anthracene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Benzo(a)-pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Benzo(b)-fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Benzo(ghi)perylene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Benzo(k)-fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Beryllium (Leachate)	177	ICPMS	<0.2	ug/L	
Beryllium soil (OES)	224	ICP-OES	<10	mg/Kg	
Boron (Leachate)	177	ICPMS	32	ug/Kg	
Boron soil (OES)	202	ICP-OES	<10	mg/kg	
Cadmium (Leachate)	128	ICPMS	30	ug/Kg	
Cadmium Soil (OES)	224	ICP-OES	2.67	mg/Kg	
Chromium (Leachate)	128	ICPMS	16	ug/Kg	
Chromium Soil (OES)	224	ICP-OES	10	mg/kg	
Chrysene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Copper (Leachate)	128	ICPMS	<0.2	ug/Kg	
Copper Soil (OES)	202	ICP-OES	<10	mg/Kg	

Signed: Donna Heslin

Date: 14/08/08

Donna Heslin - Laboratory Manager

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Customer PO	1395	Date of Receipt	19/06/2008
Customer Ref	9H103 0.5-0.6 (PC8056 Foynes)	Date Testing Commenced	19/06/2008
		Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	14/08/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS - Supplementary

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Dibenz(a,h)anthracene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Fluorene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Indeno(1, 2, 3-cd)pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Lead (Leachate)	128	ICPMS	<0.38	ug/Kg	
Lead Soil (OES)	202	ICP-OES	17	mg/Kg	
Mercury (Leachate)	128	ICPMS	<0.2	ug/Kg	
Mercury Soil (OES)	0	ICP-OES	<2.5	mg/Kg	
Naphthalene (Soil)	200	GC-MS 1	<0.05	mg/Kg	
Nickel (Leachate)	128	ICPMS	30	ug/Kg	
Nickel Soil (OES)	0	ICP-OES	26	mg/kg	
Phenanthrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Selenium (Leachate)	128	ICPMS	<0.74	ug/Kg	
Selenium Soil (OES)	0	ICP-OES	<10	mg/kg	
Sulphate (Leachate)	180	IC	14.99	ug/Kg as SO4	
Sulphur (Leachate)	0	ICPMS	28	mg/Kg	
TPH Soil (C6-C36)	317	GC-FID	1	mg/Kg	
Vanadium (Leachate)	177	ICPMS	34	ug/L	
Vanadium soil (OES)	224	ICP-OES	12	mg/Kg	
Zinc (Leachate)	128	ICPMS	85	ug/Kg	
Zinc Soil (OES)	202	ICP-OES	59	mg/Kg	

Signed: Donna Heslin

Date: 14/08/08

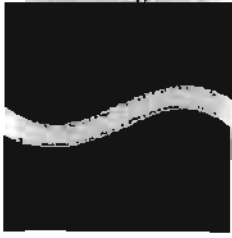
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Customer PO	1395	Date of Receipt	19/06/2008
Customer Ref	BH103 1.5-1.6 (PC8056 Foynes)	Date Testing Commenced	19/08/2008
		Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	14/08/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS - Supplementary

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
% Dry Matter	302	Drying @ 104 C	78.75	%	
Acanaphthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Acanaphthylene (Soil)	200	GC-MS 1	<0.05	mg/Kg	
Anthracene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Arsenic (Leachate)	128	ICPMS	89	ug/Kg	
Arsenic Soil (OES)	0	ICP-OES	11	mg/kg	
Barium (Leachate)	128	ICPMS	239	ug/Kg	
Barium Soil (OES)	0	ICP-OES	17	mg/kg	
Benzo(a)anthracene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Benzo(a)-pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Benzo(b)-fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Benzo(ghi)perylene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Benzo(k)-fluoranthene (Soil)	200	GC-MS 1	<0.60	mg/Kg	
Beryllium (Leachate)	177	ICPMS	<0.2	ug/L	
Beryllium soil (OES)	224	ICP-OES	<10	mg/Kg	
Boron (Leachate)	177	ICPMS	525	ug/Kg	
Boron soil (OES)	202	ICP-OES	57	mg/kg	
Cadmium (Leachate)	128	ICPMS	32	ug/Kg	
Cadmium Soil (OES)	224	ICP-OES	1.37	mg/Kg	
Chromium (Leachate)	128	ICPMS	107	ug/Kg	
Chromium Soil (OES)	224	ICP-OES	24	mg/kg	
Chrysene (Soil)	200	GC-MS 1	<0.60	mg/Kg	
Copper (Leachate)	128	ICPMS	44	ug/Kg	
Copper Soil (OES)	202	ICP-OES	<10	mg/Kg	
Dibenzo(a,h)anthracene (soil)	200	GC-MS 1	<0.5	mg/Kg	

Signed: Donna Heslin

Date: 14/08/08

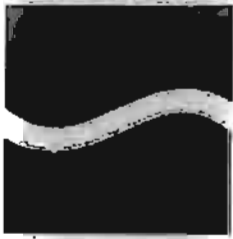
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		Condition on Receipt	Acceptable
		Date of Report	14/08/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS - Supplementary

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Fluorene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Indeno(1, 2, 3-cd)pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Lead (Leachate)	128	ICPMS	12	ug/Kg	
Lead Soil (OES)	202	ICP-OES	12	mg/Kg	
Mercury (Leachate)	128	ICPMS	<0.2	ug/Kg	
Mercury Soil (OES)	0	ICP-OES	<2.5	mg/Kg	
Naphthalene (Soil)	200	GC-MS 1	<0.05	mg/Kg	
Nickel (Leachate)	128	ICPMS	83	ug/Kg	
Nickel Soil (OES)	0	ICP-OES	18	mg/kg	
Phenanthrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Selenium (Leachate)	128	ICPMS	<0.74	ug/Kg	
Selenium Soil (OES)	0	ICP-OES	<10	mg/kg	
Sulphate (Leachate)	190	IC	48.89	ug/Kg as SO4	
Sulphur (Leachate)	0	ICPMS	42	mg/Kg	
Vanadium (Leachate)	177	ICPMS	136	ug/L	
Vanadium soil (OES)	224	ICP-OES	33	mg/Kg	
Zinc (Leachate)	128	ICPMS	99	ug/Kg	
Zinc Soil (OES)	202	ICP-OES	46	mg/Kg	

Signed: Donna Heslin

Date: 14/08/08

Donna Heslin - Laboratory Manager

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Customer PO	1395	Date of Receipt	19/06/2008
Customer Ref	BH104 0.5 (PC8058 Foynes)	Date Testing Commenced	19/06/2008
		Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	14/08/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS - Supplementary

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
% Dry Matter	302	Drying @ 104 C	87.9	%	
Acenaphthene (Soil)	200	GC-MS 1	<0.60	mg/Kg	
Acenaphthylene (Soil)	200	GC-MS 1	0.084	mg/Kg	
Anthracene (Soil)	200	GC-MS 1	<0.60	mg/Kg	
Arsenic (Leachate)	128	ICPMS	26	ug/Kg	
Arsenic Soil (OES)	0	ICP-OES	11	mg/kg	
Asbestos Screening	0	Light Microscope	N/D	N/A	
Barium (Leachate)	128	ICPMS	335	ug/Kg	
Barium Soil (OES)	0	ICP-OES	34	mg/kg	
Benzo(a)anthracene (soil)	200	GC-MS 1	3.62	mg/Kg	
Benzo(a)-pyrene (Soil)	200	GC-MS 1	7.971	mg/Kg	
Benzo(b)-fluoranthene (Soil)	200	GC-MS 1	8.471	mg/Kg	
Benzo(ghi)perylene (soil)	200	GC-MS 1	3.911	mg/Kg	
Benzo(k)-fluoranthene (Soil)	200	GC-MS 1	6.28	mg/Kg	
Beryllium (Leachate)	177	ICPMS	<0.2	ug/L	
Beryllium soil (OES)	224	ICP-OES	<10	mg/Kg	
Boron (Leachate)	177	ICPMS	144	ug/Kg	
Boron soil (OES)	202	ICP-OES	18	mg/kg	
Cadmium (Leachate)	128	ICPMS	36	ug/Kg	
Cadmium Soil (OES)	224	ICP-OES	1.73	mg/Kg	
Chromium (Leachate)	128	ICPMS	172	ug/Kg	
Chromium Soil (OES)	224	ICP-OES	16	mg/kg	
Chrysene (Soil)	200	GC-MS 1	2.371	mg/Kg	
Copper (Leachate)	128	ICPMS	64	ug/Kg	
Copper Soil (OES)	202	ICP-OES	41	mg/Kg	

Signed: Donna Heslin

Date: 14/08/08

Donna Heslin - Laboratory Manager

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Customer PO	1395	Date of Receipt	19/06/2008
Customer Ref	BH104 0.5 (PC8056 Foynes)	Date Testing Commenced	18/06/2008
		Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	14/08/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS - Supplementary

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Dibenzo(a,h)anthracene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Fluoranthene (Soil)	200	GC-MS 1	0.547	mg/Kg	
Fluorene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Indeno(1, 2, 3-cd)pyrene (Soil)	200	GC-MS 1	15.085	mg/Kg	
Lead (Leachate)	128	ICPMS	32	ug/Kg	
Lead Soil (OES)	202	ICP-OES	13	mg/Kg	
Mercury (Leachate)	128	ICPMS	<0.2	ug/Kg	
Mercury Soil (OES)	0	ICP-OES	<2.5	mg/Kg	
Naphthalene (Soil)	200	GC-MS 1	<0.05	mg/Kg	
Nickel (Leachate)	128	ICPMS	36	ug/Kg	
Nickel Soil (OES)	0	ICP-OES	18	mg/kg	
Phenanthrene (Soil)	200	GC-MS 1	<0.60	mg/Kg	
Pyrene (Soil)	200	GC-MS 1	0.751	mg/Kg	
Selenium (Leachate)	128	ICPMS	110	ug/Kg	
Selenium Soil (OES)	0	ICP-OES	<10	mg/kg	
Sulphate (Leachate)	190	IC	16.63	ug/Kg as SO4	
Sulphur (Leachate)	0	ICPMS	21	mg/Kg	
Vanadium (Leachate)	177	ICPMS	754	ug/L	
Vanadium soil (OES)	224	ICP-OES	48	mg/Kg	
Zinc (Leachate)	128	ICPMS	67	ug/Kg	
Zinc Soil (OES)	202	ICP-OES	66	mg/Kg	

Signed: Donna Heslin

Donna Heslin - Laboratory Manager

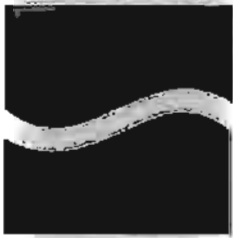
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Customer	Colette Kelly Priority Geotechnical Ltd. 412 Owenacurra Business Park Midleton Cork	Lab Report Ref. No.	6766/009/04S
Customer PO	1395	Date of Receipt	19/06/2008
Customer Ref	BH104 2.2 (PC8056 Foynea)	Date Testing Commenced	19/06/2008
		Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	14/08/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS - Supplementary

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
% Dry Matter	302	Drying @ 104 C	88.65	%	
Acenaphthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Acenaphthylene (Soil)	200	GC-MS 1	<0.05	mg/Kg	
Anthracene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Arsenic (Leachate)	128	ICPMS	131	ug/Kg	
Arsenic Soil (OES)	0	ICP-OES	12	mg/kg	
Barium (Leachate)	128	ICPMS	106	ug/Kg	
Barium Soil (OES)	0	ICP-OES	18	mg/kg	
Benzo(a)anthracene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Benzo(a)-pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Benzo(b)-fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Benzo(ghi)perylene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Benzo(k)-fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Beryllium (Leachate)	177	ICPMS	<0.2	ug/L	
Beryllium soil (OES)	224	ICP-OES	<10	mg/Kg	
Boron (Leachate)	177	ICPMS	<4.2	ug/Kg	
Boron soil (OES)	202	ICP-OES	44	mg/kg	
Cadmium (Leachate)	128	ICPMS	32	ug/Kg	
Cadmium Soil (OES)	224	ICP-OES	2.61	mg/Kg	
Chromium (Leachate)	128	ICPMS	38	ug/Kg	
Chromium Soil (OES)	224	ICP-OES	<10	mg/kg	
Chrysene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Copper (Leachate)	128	ICPMS	11	ug/Kg	
Copper Soil (OES)	202	ICP-OES	14	mg/Kg	
Dibenzo(a,h)anthracene (soil)	200	GC-MS 1	<0.5	mg/Kg	

Signed: Donna Heslin

Date: 14/08/08

Donna Heslin - Laboratory Manager

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Customer	Colette Kelly Priority Geotechnical Ltd. 412 Owanacurra Business Park Midleton Cork	Lab Report Ref. No.	6765/009/045
Customer PO	1385	Date of Receipt	19/06/2008
Customer Ref	BH104 2.2 (PC8056 Foynes)	Date Testing Commenced	19/06/2008
		Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	14/08/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS - Supplementary

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Fluorene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Indeno(1, 2, 3-cd)pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Lead (Leachate)	128	ICPMS	<0.38	ug/Kg	
Lead Soil (OES)	202	ICP-OES	12	mg/Kg	
Mercury (Leachate)	128	ICPMS	<0.2	ug/Kg	
Mercury Soil (OES)	0	ICP-OES	<2.5	mg/Kg	
Naphthalene (Soil)	200	GC-MS 1	<0.05	mg/Kg	
Nickel (Leachate)	128	ICPMS	38	ug/Kg	
Nickel Soil (OES)	0	ICP-OES	36	mg/kg	
Phenanthrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Selenium (Leachate)	128	ICPMS	<0.74	ug/Kg	
Selenium Soil (OES)	0	ICP-OES	<10	mg/kg	
Sulphate (Leachate)	190	IC	37.90	ug/Kg as SO4	
Sulphur (Leachate)	0	ICPMS	34	mg/Kg	
TPH Soil (C6-C36)	317	GC-FID	2.9	mg/Kg	
Vanadium (Leachate)	177	ICPMS	47	ug/L	
Vanadium soil (OES)	224	ICP-OES	11	mg/Kg	
Zinc (Leachate)	128	ICPMS	76	ug/Kg	
Zinc Soil (OES)	202	ICP-OES	108	mg/Kg	

Signed: Donna Heslin

Date: 14/08/08

Donna Heslin - Laboratory Manager

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Customer	Colette Kelly Priority Geotechnical Ltd. 412 Owenacurra Business Park Midleton Cork	Lab Report Ref. No.	6765/009/068
Customer PO	1395	Date of Receipt	19/06/2008
Customer Ref	BH104 2.5-3.0 (PC8056 Foynes)	Date Testing Commenced	19/06/2008
		Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	14/08/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS - Supplementary

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
% Dry Matter	302	Drying @ 104 C	76.58	%	
Acanaphthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Acanaphthylene (Soil)	200	GC-MS 1	<0.05	mg/Kg	
Anthracene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Arsenic (Leachate)	128	ICPMS	173	ug/Kg	
Arsenic Soil (OES)	0	ICP-OES	<10	mg/kg	
Barium (Leachate)	128	ICPMS	138	ug/Kg	
Barium Soil (OES)	0	ICP-OES	13	mg/kg	
Benzo(a)anthracene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Benzo(a)pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Benzo(b)fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Benzo(ghi)perylene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Benzo(k)fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Beryllium (Leachate)	177	ICPMS	<0.2	ug/L	
Beryllium soil (OES)	224	ICP-OES	<10	mg/Kg	
Boron (Leachate)	177	ICPMS	245	ug/Kg	
Boron soil (OES)	202	ICP-OES	18	mg/kg	
Cadmium (Leachate)	128	ICPMS	40	ug/Kg	
Cadmium Soil (OES)	224	ICP-OES	1.69	mg/Kg	
Chromium (Leachate)	128	ICPMS	121	ug/Kg	
Chromium Soil (OES)	224	ICP-OES	17	mg/kg	
Chrysene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Copper (Leachate)	128	ICPMS	16	ug/Kg	
Copper Soil (OES)	202	ICP-OES	<10	mg/Kg	
Dibenzo(a,h)anthracene (soil)	200	GC-MS 1	<0.5	mg/Kg	

Signed: Donna Heslin

Donna Heslin - Laboratory Manager

Date: 14/08/08

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Customer	Colette Kelly Priority Geotechnical Ltd. 412 Owenacurra Business Park Midleton	Lab Report Ref. No.	8765/009/055
	Cork	Date of Receipt	18/06/2008
Customer PO	1395	Date Testing Commenced	18/06/2008
Customer Ref	BH104 2.5-3.0 (PC8056 Foynes)	Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	14/08/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS - Supplementary

Test Parameter	SGP	Analytical Technique	Result	Units	Acc.
Fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Fluorene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Indeno(1, 2, 3-cd)pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Lead (Leachate)	128	ICPMS	<0.38	ug/Kg	
Lead Soil (OES)	202	ICP-OES	11	mg/Kg	
Mercury (Leachate)	128	ICPMS	<0.2	ug/Kg	
Mercury Soil (OES)	0	ICP-OES	<2.5	mg/Kg	
Naphthalene (Soil)	200	GC-MS 1	<0.05	mg/Kg	
Nickel (Leachate)	128	ICPMS	64	ug/Kg	
Nickel Soil (OES)	0	ICP-OES	18	mg/kg	
Phenanthrene (Soil)	200	GC-MS	<0.50	mg/Kg	
Pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Selenium (Leachate)	128	ICPMS	<0.74	ug/Kg	
Selenium Soil (OES)	0	ICP-OES	<10	mg/kg	
Sulphate (Leachate)	190	IC	37.70	ug/Kg as SO4	
Sulphur (Leachate)	0	ICPMS	69	mg/Kg	
Vanadium (Leachate)	177	ICPMS	48	ug/L	
Vanadium soil (OES)	224	ICP-OES	23	mg/Kg	
Zinc (Leachate)	128	ICPMS	683	ug/Kg	
Zinc Soil (OES)	202	ICP-OES	45	mg/Kg	

Signed: Donna Heslin

Date: 14/08/08

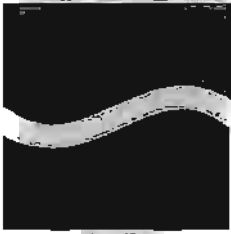
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Customer	Collette Kelly Priority Geotechnical Ltd. 412 Owanacurra Business Park Midleton Cork	Lab Report Ref. No.	6765/011/04
Customer PO	1410	Date of Receipt	26/06/2008
Customer Ref	RC105 1.0-1.5 (PCB056)	Date Testing Commenced	26/06/2008
		Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	15/07/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
% Dry Matter	302	Drying @ 104 C	93.07	%	
Acanaphthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Acanaphthylene (Soil)	200	GC-MS 1	<0.05	mg/Kg	
Anthracene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Arsenic (Leachate)	128	ICPMS	19	ug/Kg	
Barium (Leachate)	128	ICPMS	1724	ug/Kg	
Benzo(a)anthracene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Benzo(a)-pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Benzo(b)-fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Benzo(ghi)perylene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Benzo(k)-fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Beryllium (Leachate)	177	ICPMS	<0.2	ug/L	
Boron (Leachate)	177	ICPMS	1129	ug/Kg	
Cadmium (Leachate)	128	ICPMS	1	ug/Kg	
Chromium (Leachate)	128	ICPMS	15	ug/Kg	
Chrysene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Copper (Leachate)	128	ICPMS	30	ug/Kg	
Dibenzo(a,h)anthracene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Fluorene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Indeno(1, 2, 3-cd)pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Lead (Leachate)	128	ICPMS	4	ug/Kg	
Mercury (Leachate)	128	ICPMS	<0.2	ug/Kg	
Naphthalene (Soil)	200	GC-MS 1	0.062	mg/Kg	
Nickel (Leachate)	128	ICPMS	25	ug/Kg	

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Donna Heslin - Laboratory Manager

Date: 16/07/08

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<i>Customer PO</i>	1410	<i>Date of Receipt</i>	26/06/2008
<i>Customer Ref</i>	RC105 1.0-1.5 (PC8056)	<i>Date Testing Commenced</i>	28/06/2008
		<i>Received or Collected</i>	Courier: Interlink
		<i>Condition on Receipt</i>	Acceptable
		<i>Date of Report</i>	16/07/2008
		<i>Sample Type</i>	Soil

CERTIFICATE OF ANALYSIS

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Phenanthrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Selenium (Leachate)	128	ICPMS	11	ug/Kg	
Sulphate (Leachate WAC)	190	IC	11.97	mg/Kg	
Sulphur (Leachate)	0	ICPMS	29	mg/Kg	
Vanadium (Leachate)	177	ICPMS	14	ug/L	
Zinc (Leachate)	128	ICPMS	450	ug/Kg	

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Customer PO	1410	Date of Receipt	26/06/2008
Customer Ref	RC105 3.0-3.5 (PC8058)	Date Testing Commenced	26/08/2008
		Received or Collected	Courier: InterLink
		Condition on Receipt	Acceptable
		Date of Report	16/07/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
% Dry Matter	302	Drying @ 104 C	97.01	%	
Acenaphthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Acenaphthylene (Soil)	200	GC-MS 1	<0.05	mg/Kg	
Anthracene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Arsenic (Leachate)	128	ICPMS	11	ug/Kg	
Barium (Leachate)	128	ICPMS	1379	ug/Kg	
Benzo(a)anthracene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Benzo(a)pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Benzo(b)fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Benzo(ghi)perylene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Benzo(k)fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Beryllium (Leachate)	177	ICPMS	<0.2	ug/L	
Boron (Leachate)	177	ICPMS	1069	ug/Kg	
Cadmium (Leachate)	128	ICPMS	<0.09	ug/Kg	
Chromium (Leachate)	128	ICPMS	4	ug/Kg	
Chrysene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Copper (Leachate)	128	ICPMS	6	ug/Kg	
Dibenzo(a,h)anthracene (soil)	200	GC-MS 1	<0.5	mg/Kg	
Fluoranthene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Fluorene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Indeno(1, 2, 3-cd)pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Lead (Leachate)	128	ICPMS	<0.38	ug/Kg	
Mercury (Leachate)	128	ICPMS	<0.2	ug/Kg	
Naphthalene (Soil)	200	GC-MS 1	<0.05	mg/Kg	
Nickel (Leachate)	128	ICPMS	6	ug/Kg	

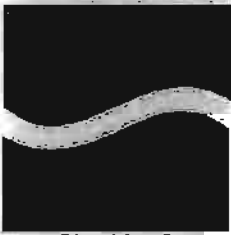
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Customer PO	1410	Date of Receipt	26/06/2008
Customer Ref	RC105 3.0-3.6 (PC8068)	Date Testing Commenced	28/06/2008
		Received or Collected	Courier: Interlink
		Condition on Receipt	Acceptable
		Date of Report	16/07/2008
		Sample Type	Soil

CERTIFICATE OF ANALYSIS

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Phenanthrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Pyrene (Soil)	200	GC-MS 1	<0.50	mg/Kg	
Selenium (Leachate)	128	ICPMS	6	ug/Kg	
Sulphate (Leachate WAC)	190	IC	24.77	mg/Kg	
Sulphur (Leachate)	0	ICPMS	38	mg/Kg	
Vanadium (Leachate)	177	ICPMS	4	ug/L	
Zinc (Leachate)	128	ICPMS	57	ug/Kg	

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Donna Heslin - Laboratory Manager

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Customer: Colette Kelly
 Company: Priority Geotechnical Ltd
 412 Owencum Business Park
 Middleton
 Co. Cork

Batch Receipt Date: 26/06/2008
 Received/Collected: Received
 Condition: Acceptable
 Report Date: 14/07/2008

Job reference: PC8058

Parameter Name	Units	RC101 PC8058	RC102 PC8058	RC102 PC8058	RC101 PC8058	RC102 PC8058	Filter Value	Initial (Non-Hazardous)	Final (Hazardous)
% Dry Matter	%	88.71	83.69	86.31	97.01	93.07			
Arsenic (Leachate)	mg/Kg	0.022	0.0115	0.019	0.011	0.019	0.5	2	25
Barium (Leachate)	mg/Kg	1.301	1.134	1.249	1.379	1.724	20	100	300
Cadmium (Leachate)	mg/Kg	<0.00009	<0.00009	<0.00009	<0.00009	0.001	0.04	1	5
Chromium (Leachate)	mg/Kg	0.009	0.011	0.008	0.004	0.015	0.5	10	70
Copper (Leachate)	mg/Kg	0.074	0.144	0.046	0.006	0.03	2	50	100
Lead (Leachate)	mg/Kg	<0.00038	0.001	<0.00038	<0.00038	0.004	0.5	10	50
Mercury (Leachate)	mg/Kg	0.001	0.001	0.001	<0.0002	<0.0002	0.01	0.2	2
Nickel (Leachate)	mg/Kg	0.025	0.098	0.019	0.006	0.025	0.4	10	40
Selenium (Leachate)	mg/Kg	0.027	0.036	0.024	0.005	0.011	0.1	0.5	7
Sulphate (Leachate WAC)	mg/Kg	38.04	47.61	74.02	24.77	11.97	1000	20000	50000
Zinc (Leachate)	mg/Kg	0.95	0.997	0.588	0.057	0.48	4	50	200
Acenaphthene (Soil)	mg/Kg	<0.50	<0.50	<0.50	<0.50	<0.50			
Acenaphthylene (Soil)	mg/Kg	<0.05	<0.05	<0.05	<0.05	<0.05			
Anthracene (Soil)	mg/Kg	<0.50	<0.50	<0.50	<0.50	<0.50			
Benzo(a)anthracene (Soil)	mg/Kg	<0.5	<0.5	<0.5	<0.5	<0.6			
Benzo(e)pyrene (Soil)	mg/Kg	<0.50	<0.50	<0.50	<0.50	<0.60			
Benzo(b)fluoranthene (Soil)	mg/Kg	<0.50	<0.50	<0.50	<0.50	<0.50			
Benzo(ghi)perylene (Soil)	mg/Kg	<0.5	<0.6	<0.5	<0.5	<0.5			
Benzo(k)fluoranthene (Soil)	mg/Kg	<0.50	<0.50	<0.60	<0.60	<0.50			
Beryllium (Leachate)	mg/Kg	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			
Boron (Leachate)	mg/Kg	1.387	1.39	1.169	1.088	1.129			
Chrysene (Soil)	mg/Kg	<0.50	<0.50	<0.50	<0.50	<0.50			
Dibenzo(a,h)anthracene (Soil)	mg/Kg	<0.5	<0.5	<0.5	<0.5	<0.5			
Fluoranthene (Soil)	mg/Kg	<0.50	<0.50	<0.50	<0.50	<0.50			
Fluorene (Soil)	mg/Kg	<0.50	<0.50	<0.50	<0.50	<0.50			
Indeno(1,2,3-cd)pyrene (Soil)	mg/Kg	<0.50	<0.50	<0.50	<0.50	<0.50			
Naphthalene (Soil)	mg/Kg	<0.05	<0.05	<0.05	<0.05	0.062			
PCBs in Solid	mg/Kg	<1							
Phenanthrene (Soil)	mg/Kg	<0.50	<0.50	<0.50	<0.50	<0.50			
Pyrene (Soil)	mg/Kg	<0.50	<0.50	<0.50	<0.50	<0.50			
Sulphur (Leachate)	mg/Kg	35	58	51	36	29	500	800	1000
TPH C10-C36 (Soil)	mg/Kg	1.7	9.6						
Vanadium (Leachate)	mg/Kg	0.004	0.011	<0.004	0.004				
Asbestos Screening	N/A		ND						

Please refer to the relevant waste licence conditions at the proposed disposal site.

Note 1: Either TOC or LOI must be used for hazardous wastes

Note 2: UK PAH limit values are being consulted upon (Draft Landfill Amendment Regulations 2005)

Note 3: If inert waste does not meet the SO4, U8, 10 limit values, alternative limit values of 1500 mg/L SO4 and Ca (initial sludge from the percolation test (perCENTS 1440S2003)) and 6000 mg/Kg SO4 at U8,10 (either from percolation test or batch test GC EN 12457-3), can be used to demonstrate compliance with the acceptance criteria for inert wastes

Note 4: The values for TOC can be used instead of the values for Cl and SO4

Note 5: DOC at pH 7.5-8.0 and U8,10 can be determined on the eluate derived from a modified version of the pH dependence test, perCENTS 1440S2003, if the limit value at own pH (BS EN 12457 eluate) is not met.

Note 6: In the case of soils, a higher TOC limit value may be permitted by the Environment Agency at an inert waste landfill, provided the DOC value of 500 mg/Kg is achieved at U8,10 UKG, either at the soil's own pH or at a pH value between 7.5 and 8.0

Note 7: For determining the total of PAH, the following 17 compounds must be added to a sum:

- | | | |
|------------------------|----------------|------------------------|
| Fluoranthene | Naphthalene | Pyrene |
| Benzo(e)pyrene | Acenaphthylene | Chrysene |
| Benzo(b)fluoranthene | Acenaphthene | Benzo(a)anthracene |
| Benzo(k)fluoranthene | Fluorene (9H) | Dibenzo(a,h)anthracene |
| Benzo(ghi)perylene | Fluorene | Coronene |
| Indeno(1,2,3-cd)pyrene | Phenanthrene | |
| | Anthracene | |

Signed: Donna Heslin
 Date: 17/7/08

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