

# **Malachy Walsh and Partners**

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Inner Bantry Harbour Development – Phase 1  
Seafield & Reenrour West,  
Bantry, Co. Cork

### **WASTE LICENCE W0290-01 Annual Environmental Report**

On behalf of  
Port of Cork Company

| <b>Project</b> | <b>Document</b> | <b>Revision</b> | <b>Prepared</b>  | <b>Checked</b> | <b>Approved</b> | <b>Date</b> |
|----------------|-----------------|-----------------|------------------|----------------|-----------------|-------------|
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## Table of Contents

|          |                                                         |           |
|----------|---------------------------------------------------------|-----------|
| <b>1</b> | <b>Introduction .....</b>                               | <b>1</b>  |
| 1.1      | Licensee Details .....                                  | 1         |
| 1.2      | Description of Licensed Activities.....                 | 1         |
| 1.3      | Classes of Activity Licensed .....                      | 1         |
| <b>2</b> | <b>Background to the Project.....</b>                   | <b>2</b>  |
| 2.1      | Proposal.....                                           | 2         |
| 2.2      | Waste Application and Grant of Licence .....            | 2         |
| 2.3      | Commencement of Works and Appointed Contractor .....    | 2         |
| 2.4      | Appointed Resident Engineer.....                        | 2         |
| <b>3</b> | <b>Description of Site.....</b>                         | <b>2</b>  |
| <b>4</b> | <b>Annual Environmental Report Requirements .....</b>   | <b>3</b>  |
| 4.1      | Emissions from the Facility.....                        | 3         |
| 4.1.1    | Marine Water Monitoring In Bantry Harbour .....         | 3         |
| 4.2      | Waste Management Record.....                            | 4         |
| 4.3      | Resource Consumption Summary .....                      | 4         |
| 4.4      | Complaints Summary .....                                | 5         |
| 4.5      | Schedule of Environmental Objectives and Targets.....   | 5         |
| 4.5.1    | Environmental Objectives & Targets.....                 | 5         |
| 4.5.2    | Environmental Management Targets.....                   | 6         |
| 4.6      | Environmental Management Programme .....                | 7         |
| 4.7      | Pollutant Release and Transfer Register .....           | 8         |
| 4.8      | Noise Monitoring Report Summary .....                   | 8         |
| 4.9      | Ambient Monitoring Summary.....                         | 8         |
| 4.10     | Tank and Pipeline Testing and Inspection Report.....    | 9         |
| 4.11     | Reported Incidents Summary.....                         | 9         |
| 4.12     | Energy Efficiency Audit Report Summary .....            | 9         |
| 4.13     | Closure Restoration and Aftercare Management Plan ..... | 9         |
| 4.14     | Environmental Liabilities Risk Assessment.....          | 10        |
| <b>5</b> | <b>Conclusion .....</b>                                 | <b>10</b> |
| <b>6</b> | <b>List of Appendices .....</b>                         | <b>10</b> |

## 1 Introduction

The Environmental Protection Agency granted the Port of Cork Company a Waste Licence (WL 0290-01) on 13<sup>th</sup> October 2016 to carry out licensed waste activities at Bantry Inner Harbour Development Phase 1, Seafield and Reenrour West, Bantry, Co. Cork.

### 1.1 Licensee Details

|                          |                                              |
|--------------------------|----------------------------------------------|
| Licence Register Number: | W0290-01                                     |
| Applicant:               | Port of Cork Company                         |
| Location of Facility:    | Seafield and Reenrour West, Bantry, Co. Cork |

### 1.2 Description of Licensed Activities

The activities licensed include the ex-situ treatment and recovery as fill of contaminated and uncontaminated dredge sediment taken from the Inner Bantry Harbour.

The dredge consists of the following;

- Fine-grained sediment which is contaminated to some extent with heavy metals, hydrocarbons, PAHs and/or PCBs;
- Uncontaminated fine-grained sediment; and
- Uncontaminated coarse-grained sediment.

### 1.3 Classes of Activity Licensed

The waste activities associated with the works, in accordance with the Fourth Schedule of the European Communities (Waste Directive) Regulations 2011 (S.I. 126 of 2011) are as follows:

- R 5:** Recycling/reclamation of other inorganic materials, which includes soil cleaning resulting in recovery of the soil and recycling of inorganic construction materials
- R 11:** Use of waste obtained from any of the operations numbered R 1 to R 10
- R 13:** Storage of waste pending any of the operations numbered R 1 to R12 (excluding temporary storage (being preliminary storage according to the definition of ‘collection’ in section 5(1)), pending collection, on the site where the waste is produced)”.

## 2 Background to the Project

### 2.1 Proposal

The Port of Cork (Bantry Bay Harbour Commissioners) commissioned the design of a scheme which will provide a sheltered harbour environment and marina with increased water depth and improved pier facilities to promote fishing and tourism activities in the Bantry area. The scheme will also provide additional and improved recreational and amenity areas for the town. The scheme includes proposals for the beneficial re-use of dredged material.

The overall proposal involves the development of Inner Bantry Harbour with additional plans to improve recreational and amenity facilities in the greater harbour area through land reclamation. There are several key work elements which will be dealt with on a phased basis to achieve the overall plan.

### 2.2 Waste Application and Grant of Licence

An application was made on the 29<sup>th</sup> March 2016 by the Port of Cork Company to the EPA for a Waste Licence. Subsequently, the Agency granted a Waste Licence with 12 Conditions on the 13<sup>th</sup> October 2016.

### 2.3 Commencement of Works and Appointed Contractor

The works commenced in November 2016 and BAM Contractors were appointed the Main Contractor for the Works at Bantry.

### 2.4 Appointed Resident Engineer

Port of Cork appointed a Resident Engineer to oversee the works at Bantry and to liaise with the Appointed Contractor and the Agency as required.

## 3 Description of Site

Bantry is a thriving market town with a population of approximately 3,000 people, popular with both domestic and international visitors. The town lies in the far south-eastern corner of Bantry Bay which stretches some 35km in a north-east south-west direction into the Atlantic Ocean. The town boasts a large harbour which is utilised by both commercial and amenity vessels. Although the bay is in the region of 10km wide at its head the harbour itself is narrow with an average width of 100m.

While overall the bay is considered to be one of the deepest harbours in Europe, usage of the inner harbour is restricted due to existing water depth. At low tide parts of the inner harbour drain completely and mudflats become exposed which limits access by commercial and amenity vessels to pier facilities. Existing facilities within Bantry Inner Harbour currently comprise two main piers, one of which extends along the southern side of the harbour, adjacent to the N71 National Road. A second pier extends out along the seaward side of the harbour, perpendicular to the roadway. The town surrounds the inner harbour on three sides with existing car-parking facilities located on the eastern and northern edges of the harbour.

## 4 Annual Environmental Report Requirements

### 4.1 Emissions from the Facility

There are no emissions to air, water, or to a sewer.

Schedule B of the Licence include Emission Limits for -

- Noise;
- Dust; and
- Leachate.

Appendix 1 contains the results of the Noise Monitoring Programme.

Appendix 2 contains the results of the Dust Monitoring carried out from 30.11.2013 to 30.12.2016.

Appendix 3 contains the results of the Leachate Testing; there were no limit breaches regarding Leachate in 2016. Laboratory testing would be completed using the Monolithic Tank Test in accordance with NEN 7375:2004 where treated dredge samples are re-tested typically after 1, 2, 4, 9, 16 and 28 days. The Monolithic Tank Test is considered to be representative of leaching.

To manage any possible leachate in the Fine Grained Material excavated during the Dredging Operation, BAM deposited the material into a number of Cells on the Northern Shore of the Inner Harbour, which was subsequently treated with Portland Cement to immobilise any possible contaminants in the dredged material.

Cement was added to the fine grained material by way of an Allu PMX500 power mixer attached to a 30tn Excavator. Following a suitable curing period, the now stabilised fine grained dredged material was placed into its final location in the amenity area.

Dredged Sediment was also tested and all results are presented in Appendix 4.

#### 4.1.1 Marine Water Monitoring In Bantry Harbour

Under the Waste Licence there are three monitoring points which include two automatic monitors; SW-A01 and SW-A02 and manual monitoring at SW-M01. The results from the monitoring are included in Appendix 5 and Appendix 6.

## 4.2 Waste Management Record

The following are the waste volumes recovered during operation in 2016.

Anticipated wastes include dredge, stones and granular material and construction wastes. There was no construction waste in 2016. All dredged materials were re-used in the site works.

| WASTE                        | EWC      | VOLUME               | DISPOSAL/RECOVERY |
|------------------------------|----------|----------------------|-------------------|
| Fine Grained Dredge Material | 17 05 04 | 9,235 m <sup>3</sup> | R 5, R 11         |
| Granular Dredge Material     | 17 05 06 | 5,300 m <sup>3</sup> | R 5, R 11         |
| Construction waste           | 17 09 04 | 0                    |                   |
| Compound mixed waste         | 20 03 01 | 1,100 l bin x 19     | D 1               |
| Recycled Waste               | 20 03 01 | 1,100 l bin x 2      | R 3               |

| TOTAL WASTE RECOVERED ON SITE 2016                       |                             |
|----------------------------------------------------------|-----------------------------|
| Fine Grained Dredge Material                             | 9,235 m <sup>3</sup>        |
| Granular Dredge Material                                 | 5,300 m <sup>3</sup>        |
| <b>Total waste recovered<br/>(re-used in site works)</b> | <b>14,535 m<sup>3</sup></b> |

## 4.3 Resource Consumption Summary

In 2016, works were underway in late November and in December.

Diesel was the resource required for operation under the Waste Licence. The table below outlines approximate Diesel Consumption in 2016.

| PLANT                          | L OF DIESEL    |
|--------------------------------|----------------|
| 60tn Excavator on Dredger      | 15,500 L       |
| 30tn Excavator with Allu Mixer | 8,100 L        |
| 20tn Excavator                 | 3,960 L        |
| <b>Total</b>                   | <b>27,560L</b> |

No significant storage capacity is required for construction raw materials, as materials will be delivered on a 'just in time' basis to the site. Cement will be stored in one or two cement silos, each with a 100 tonne capacity.

Storage capacity for wastes will be provided as part of the overall development works, where the location where the solidified/stabilised dredge spoil is placed will be the final storage location for this material. The dredge spoil material will be temporarily stored in the dredge dump barges from when it is excavated until it is offloaded and placed within the stabilisation/solidification area, and the dump barges have a capacity of 300 m<sup>3</sup> each.

The project involves a positive use of resources in the treatment and recovery of dredge spoil as fill to develop the pier and amenity area at Bantry. The scheme includes the beneficial re-use of dredged material which will be solidified and stabilised prior to placement in specific locations within the works area, negating the need to import virgin fill material and applying a recovery benefit to the material.

#### **4.4 Complaints Summary**

No complaints were received in 2016.

#### **4.5 Schedule of Environmental Objectives and Targets**

The appointed contractor for the works, BAM, completed an Environmental Management Plan for the project, which included Environmental Objectives & Targets in Section 7 of the EMP.

##### **4.5.1 Environmental Objectives & Targets**

The objectives and targets are set in relation to the aspects identified from each site in order to reduce our significant aspects. As a minimum they should include:-

- The prevention of pollution, including missions to air, water and land
- Nuisance impacts including dust, noise and vibration
- Protection of habitat areas and individual species, if applicable
- Storage and use of fuels and hazardous substances, including spills
- Waste management

#### 4.5.2 Environmental Management Targets

The environmental management targets are as follows;

| TARGETS                                                                                        | MEASURABLE                                                                                                                                                          | METHODOLOGY                                                                                                                                                                                                                                                                | RESPONSIBILITY       | TIMESCALE           |
|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|---------------------|
| Ensure no incidents of pollution to water.                                                     | Water monitoring (TTS, Turbidity, TBT etc), Slump testing of stabilised dredge material. No of Environmental Incidents. Quarterly audits, No of complaints reported | Sediment controls to be used (environmental bucket, silt curtain, lined cells for stabilisation methods. No contaminated waters to be discharged to the harbour waters. Work with CIRIA guidelines, site EPA waste licence conditions and apply BAM precautionary measures | Site Management Team | Start to completion |
| Ensure sediment on roads is cleared.                                                           | Raise needs for road cleaning duties during wet or busy periods                                                                                                     | Ensure roads are swept and cleaned on a regular basis. Road conditions within the site should be kept clean at all times.                                                                                                                                                  | Site Management Team | Start to completion |
| Minimise waste production                                                                      | Lean Construction Techniques, segregation more, reuse more (waste hierarchy)                                                                                        | Purchase less, ensure packaging is removed by supplier where possible and other materials reused & recycled                                                                                                                                                                | Site Management Team | Start to completion |
| Minimise fuel and oil spillages from site activities. Bunds to be used with all fuels and oils | Environmental Incidents, spills contained in bunds                                                                                                                  | Ensure that drip trays are used at all times under static plant, when refilling, & storing, ensure fuel storage areas are bunded.                                                                                                                                          | Site Management Team | Start to completion |
| Ensure correct disposal of all hazardous wastes e.g aerosol cans                               | Waste segregation, waste costs                                                                                                                                      | All hazardous wastes to be disposed as per Irish Legislation and BAM requirements                                                                                                                                                                                          | Site Management Team | Start to completion |
| Lower consumption of materials and fuel on monthly basis (relative to project revenue)         | Smart meters, energy bills, service costs                                                                                                                           | Ensure all energy using equipment is switched off when not in use. Select best value for money providers where possible                                                                                                                                                    | Site Management Team | Start to completion |
| Reduce site electricity by 2.5% on monthly basis (relative to project revenue)                 | Smart meters, energy bills, service costs                                                                                                                           | Ensure all energy using equipment is switched off when not in use. Select best value for money providers where possible                                                                                                                                                    | Site Management Team | Start to completion |
| Lower emissions of dust, smoke and fumes during works                                          | Air quality, dust particle increase                                                                                                                                 | Ensure all equipment is well serviced and maintained. Switch of equipment when not in use. Use dust suppression techniques when applicable                                                                                                                                 | Site Management Team | Start to completion |



|                                                                                            |                                                                    |                                                                                                                                                                                |                      |                     |
|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|---------------------|
| Minimise amount of Public complaints                                                       | Complaints received to Site Management Team                        | Ensure when works which will impede public access are taking place, all residents are informed for the timescale (where applicable) and all restrictions are kept to a minimum | Site Management Team | Start to completion |
| Minimise water usage consumption                                                           | Water charges, waste water disposal (discharge volumes)            | All grey water to be reused on site where possible. 'Fresh' water supply to be kept to a minimum where possible. TBT-12 Water on Construction Sites                            | Site Management Team | Start to completion |
| Minimise airborne & groundbourne noise                                                     | Noise triggers breached (where applicable)                         | All construction noise limits set out in the requirements will be adhered to.                                                                                                  | Site Management Team | Start to completion |
| Minimise vibration                                                                         | Vibration triggers breached (where applicable)                     | All vibration limits set out in the works requirements will be adhered to.                                                                                                     | Site Management Team | Start to completion |
| Ensure no vehicle movement and material placement does not cause damage to flora and fauna | Correct habitat protection used. Wildlife surveys where applicable | All fauna/animal species to be untouched where possible. Professional advice to be sought on removal procedures                                                                | Site Management Team | Start to completion |

#### 4.6 Environmental Management Programme

| MONITORING                  | METHOD           | FREQUENCY                              | DURATION                                                                              | REFERENCE POINTS                         |
|-----------------------------|------------------|----------------------------------------|---------------------------------------------------------------------------------------|------------------------------------------|
| Automatic Marine Monitoring | Bouys            | Continuous                             | Permanent (CRAMP)                                                                     | SW-01 (outer buoy)<br>SW-02 (inner buoy) |
| Manual Marine Monitoring    | Manual           | Daily<br>Weekly<br>Monthly<br>Annually | During Works.<br>1 <sup>st</sup> month after.<br>12 months subsequent.<br>Thereafter. | SW-M01                                   |
| Leachate                    | Monolith Test    | Weekly or every 1,000 m <sup>3</sup>   | During Works.                                                                         | Samples                                  |
| Dust                        | Bergerhoff Jars  | Monthly                                | During Construction works                                                             | D1 (AA-01)<br>D2 (AA-02)                 |
| Noise                       | Noise Monitoring | Monthly                                | During Construction works                                                             | N1<br>N2<br>N3                           |

## 4.7 Pollutant Release and Transfer Register

The waste licence granted by the EPA to the Port of Cork Company (W0290-01) relates specifically to the management of dredge spoil material from the dredging works in Bantry Inner Harbour.

In 2016, the 'waste', the dredge spoil was stabilised and re-used as material in the construction works. The dredge spoil is solidified and stabilised prior to placement in specific locations within the works area, negating the need to import virgin fill material and applying a recovery benefit to the material. The dredge spoil material will be temporarily stored in the dredge dump barges from when it is excavated until it is offloaded and placed within the stabilisation/solidification area, and the dump barges have a capacity of 300 m<sup>3</sup> each.

Therefore, principal waste activity associated with the works is therefore:

***R5 Recycling/reclamation of other inorganic materials, which includes soil cleaning resulting in recovery of the soil and recycling of inorganic construction materials.***

If there are any requirements to submit records for the PRTR, Port of Cork Company will do so under instruction of the Agency.

The results of all the Chemical Analyses carried out by Chemtest (dredge, Leachate, and Marine Water Monitoring) are included in the Appendices to this report.

## 4.8 Noise Monitoring Report Summary

The 2016 Noise results for N1, N2 and N3 are included in Appendix 1.

The following are the averages at the Noise Monitoring Locations

N1: 51.08 dBA

N2: 53.9 dBA

N3: 50.75 dBA

## 4.9 Ambient Monitoring Summary

Schedule B of the Waste Licence, Emission Limits, includes B.5 Dust Deposition Limits and sets a level of 350 mg/m<sup>2</sup>/day, based on a 30 day composite sample.

Ambient monitoring of dust is carried out by the standard Bergerhoff method, whereby Bergerhoff jars are placed in the licensed positions for 30 days, during which time any airborne particles are deposited into the jar along with rainfall. After the 30 days, the jars are removed and analysed at the laboratory.

The December 2016 jars contained grit and it is interpreted that tampering likely took place.

The results are included in Appendix 2.

Dust monitoring will continue monthly throughout the works.

#### 4.10 Tank and Pipeline Testing and Inspection Report

BAM constructed 3 No. cells on the northern shore of the Inner Harbour. The cells were 200m<sup>3</sup> each, constructed with a rock core material around the perimeter and each cell was 2m deep.

During the dredging operation, the excavated fine grained material was deposited into the cells and subsequently treated with Portland Cement to immobilise any possible contaminants. Cement was added to the fine grained material by way of an Allu PMX500 power mixer attached to a 30tn Excavator. Following a suitable curing period, the now stabilised dredged material was placed into its final location in the amenity area.

#### 4.11 Reported Incidents Summary

No Incidents were reported in 2016.

It is thought that the Bergerhoff Dust pots for the month of December were tampered with as there was grit inside which the Laboratory noted (refer to Appendix 2 for Laboratory Results).

#### 4.12 Energy Efficiency Audit Report Summary

The operations under this Waste Licence are temporary and for a short duration project. Machinery involved with the works includes a 60tn Excavator on Dredger, a 30tn Excavator with Allu Mixer and a 20tn Excavator.

#### 4.13 Closure Restoration and Aftercare Management Plan

A Closure Plan was finalised in January 2107 by Fehily Timoney and Company, on behalf of the Port of Cork Company for Waste Activities as part of the Bantry Inner Harbour – Phase 1 Works. This satisfies Condition 10 of Waste Licence W0290-01.

The document (P0821\_RPT002\_0\_Closure Plan) was uploaded to the EDEN system on 29/03/2017.

Port of Cork Company retained Fehily Timoney & Company (FTC) to complete a closure plan (CP) to inform the identification of the financial commitments required by the Port of Cork to cover potential liabilities during the closure and aftercare period associated with the construction period of the development of Phase 1 of the Bantry Inner Harbour Development works.

According to the CP and based on the activities on site and condition 10.1 of the facility waste licence, the scope of the facility closure plan relates to the relatively short-term measures necessary to close the site satisfactorily including decommissioning and residuals management. It is noted at this stage that it would be the intention of the applicant to surrender any licence within an appropriate timeline, agreed with the Agency and upon demonstration of no environmental impacts resulting from the placement of the solidified dredge spoil material. 12 -24 months after completion of the construction works associated with the Phase 1 Bantry Inner Harbour Development works may, at this stage, be considered an appropriate timeline for licence surrender. As such there will be no clear 'closure' event, other than construction completion, and there will be no significant 'aftercare management' other than monitoring.

The financial provision to cover an abandonment closure scenario at the Bantry Inner Harbour Works Phase 1 is identified as €710,479.

#### 4.14 Environmental Liabilities Risk Assessment

An Environmental Liabilities Risk Assessment (ELRA) was finalised in January 2107 by Fehily Timoney and Company, on behalf of the Port of Cork Company for Waste Activities as part of the Bantry Inner Harbour Development - Phase 1 Works. This satisfies Condition 12.2.2 of Waste Licence W0290-01.

The documents (P0821\_RPT001\_0\_ELRA and 6 Appendices) were uploaded to the EDEN system on 29/03/2017.

The ELRA presented the likely costs associated with the environmental liabilities of the worst case risk events to be associated with site operations. The document is submitted to the EPA for agreement prior to identification of the appropriate financial provision instrument.

The financial provision to cover the environmental liability for the proposed development is based on a plausible worst case scenario. This is the maximum liability that may be incurred and is calculated at €36,888.

## 5 Conclusion

The Environmental Protection Agency granted the Port of Cork Company a Waste Licence (WL 0290-01) on 13<sup>th</sup> October 2016 to carry out licensed waste activities as part of the Bantry Inner Harbour Development Phase 1.

Upon construction completion, it would be the intention of the applicant to surrender any licence within an appropriate timeline, agreed with the Agency. It is envisaged that there will be no significant 'aftercare management' related to the WL other than monitoring.

## 6 List of Appendices

- Appendix 1 Noise Results – Locations N1, N2, N3 - 2016
- Appendix 2 Dust Analysis Results 2016
- Appendix 3-A Leachate - Monolith Tank 1,2,4,9 Day Results 2016
- Appendix 3-B Leachate - Contamination for Mercury Lead and TBT 2016
- Appendix 4 Dredged Sediment Results – 2 Stage WAC 2016
- Appendix 5-A Inner Buoy Monitoring SW-A02
- Appendix 5-B Outer Buoy Monitoring SW-A01
- Appendix 6 Manual Marine Monitoring SW-M01 - 2016

## **Appendix 1**

### **Noise Results – Locations N1, N2, N3 - 2016**

Bantry Inner Harbour Phase 1 Development C6023 -

Noise Monitoring Amenity

Date: 11/11/2016

Location N1: E 99220; N 48461



| Date       | Time     | Reading            | DATA       | LOGGER | SamplingRate:59.0; |
|------------|----------|--------------------|------------|--------|--------------------|
|            |          | <b>51.08085106</b> | <b>dBA</b> |        |                    |
| 11/01/2016 | 13:29:35 | 54                 | dBA        |        |                    |
| 11/01/2016 | 13:30:34 | 53.3               | dBA        |        |                    |
| 11/01/2016 | 13:31:33 | 47.4               | dBA        |        |                    |
| 11/01/2016 | 13:32:32 | 48.1               | dBA        |        |                    |
| 11/01/2016 | 13:33:31 | 51.3               | dBA        |        |                    |
| 11/01/2016 | 13:34:30 | 43.4               | dBA        |        |                    |
| 11/01/2016 | 13:35:29 | 44.9               | dBA        |        |                    |
| 11/01/2016 | 13:36:28 | 44.8               | dBA        |        |                    |
| 11/01/2016 | 13:37:27 | 52.9               | dBA        |        |                    |
| 11/01/2016 | 13:38:26 | 51.2               | dBA        |        |                    |
| 11/01/2016 | 13:39:25 | 55.5               | dBA        |        |                    |
| 11/01/2016 | 13:40:24 | 51.5               | dBA        |        |                    |
| 11/01/2016 | 13:41:23 | 54                 | dBA        |        |                    |
| 11/01/2016 | 13:42:22 | 50.4               | dBA        |        |                    |
| 11/01/2016 | 13:43:21 | 40.5               | dBA        |        |                    |
| 11/01/2016 | 13:44:20 | 49.4               | dBA        |        |                    |
| 11/01/2016 | 13:45:19 | 51.9               | dBA        |        |                    |
| 11/01/2016 | 13:46:18 | 49.7               | dBA        |        |                    |
| 11/01/2016 | 13:47:17 | 45.3               | dBA        |        |                    |
| 11/01/2016 | 13:48:16 | 44.2               | dBA        |        |                    |
| 11/01/2016 | 13:49:15 | 46.3               | dBA        |        |                    |
| 11/01/2016 | 13:50:14 | 55.6               | dBA        |        |                    |
| 11/01/2016 | 13:51:13 | 48.1               | dBA        |        |                    |
| 11/01/2016 | 13:52:12 | 57.6               | dBA        |        |                    |
| 11/01/2016 | 13:53:11 | 49.4               | dBA        |        |                    |
| 11/01/2016 | 13:54:10 | 51.8               | dBA        |        |                    |
| 11/01/2016 | 13:55:09 | 59.2               | dBA        |        |                    |
| 11/01/2016 | 13:56:08 | 50.6               | dBA        |        |                    |
| 11/01/2016 | 13:57:07 | 64.8               | dBA        |        |                    |
| 11/01/2016 | 13:58:06 | 51.7               | dBA        |        |                    |
| 11/01/2016 | 13:59:05 | 55.7               | dBA        |        |                    |
| 11/01/2016 | 14:00:04 | 50.2               | dBA        |        |                    |
| 11/01/2016 | 14:01:03 | 58.2               | dBA        |        |                    |
| 11/01/2016 | 14:02:02 | 56.8               | dBA        |        |                    |
| 11/01/2016 | 14:03:01 | 40.5               | dBA        |        |                    |
| 11/01/2016 | 14:04:00 | 48                 | dBA        |        |                    |
| 11/01/2016 | 14:04:59 | 57.1               | dBA        |        |                    |
| 11/01/2016 | 14:05:58 | 53.7               | dBA        |        |                    |
| 11/01/2016 | 14:06:57 | 40.5               | dBA        |        |                    |
| 11/01/2016 | 14:07:56 | 56                 | dBA        |        |                    |
| 11/01/2016 | 14:08:55 | 51.7               | dBA        |        |                    |
| 11/01/2016 | 14:09:54 | 56.2               | dBA        |        |                    |
| 11/01/2016 | 14:10:53 | 52.1               | dBA        |        |                    |
| 11/01/2016 | 14:11:52 | 49.3               | dBA        |        |                    |
| 11/01/2016 | 14:12:51 | 50.4               | dBA        |        |                    |
| 11/01/2016 | 14:13:50 | 56.8               | dBA        |        |                    |
| 11/01/2016 | 14:14:49 | 52.3               | dBA        |        |                    |
| 11/01/2016 | 14:15:48 | 57.9               | dBA        |        |                    |
| 11/01/2016 | 14:16:47 | 57                 | dBA        |        |                    |
| 11/01/2016 | 14:17:46 | 40.5               | dBA        |        |                    |
| 11/01/2016 | 14:18:45 | 52.3               | dBA        |        |                    |
| 11/01/2016 | 14:19:44 | 47.3               | dBA        |        |                    |
| 11/01/2016 | 14:20:43 | 50.2               | dBA        |        |                    |
| 11/01/2016 | 14:21:42 | 47.6               | dBA        |        |                    |
| 11/01/2016 | 14:22:41 | 49.4               | dBA        |        |                    |
| 11/01/2016 | 14:23:40 | 56.7               | dBA        |        |                    |

|            |          |      |     |
|------------|----------|------|-----|
| 11/01/2016 | 14:24:39 | 46.7 | dBA |
| 11/01/2016 | 14:25:38 | 47.3 | dBA |
| 11/01/2016 | 14:26:37 | 55.3 | dBA |
| 11/01/2016 | 14:27:36 | 47.6 | dBA |
| 11/01/2016 | 14:28:35 | 49.4 | dBA |
| 11/01/2016 | 14:29:34 | 47.4 | dBA |
| 11/01/2016 | 14:30:33 | 46.2 | dBA |
| 11/01/2016 | 14:31:32 | 58   | dBA |
| 11/01/2016 | 14:32:31 | 56   | dBA |
| 11/01/2016 | 14:33:30 | 45.8 | dBA |
| 11/01/2016 | 14:34:29 | 46.5 | dBA |
| 11/01/2016 | 14:35:28 | 52.3 | dBA |
| 11/01/2016 | 14:36:27 | 49.5 | dBA |
| 11/01/2016 | 14:37:26 | 59.6 | dBA |
| 11/01/2016 | 14:38:25 | 57.5 | dBA |
| 11/01/2016 | 14:39:24 | 47.3 | dBA |
| 11/01/2016 | 14:40:23 | 50.4 | dBA |
| 11/01/2016 | 14:41:22 | 48.2 | dBA |
| 11/01/2016 | 14:42:21 | 48.7 | dBA |
| 11/01/2016 | 14:43:20 | 53.9 | dBA |
| 11/01/2016 | 14:44:19 | 61.3 | dBA |
| 11/01/2016 | 14:45:18 | 58.2 | dBA |
| 11/01/2016 | 14:46:17 | 52.1 | dBA |
| 11/01/2016 | 14:47:16 | 47.6 | dBA |
| 11/01/2016 | 14:48:15 | 56.6 | dBA |
| 11/01/2016 | 14:49:14 | 55.7 | dBA |
| 11/01/2016 | 14:50:13 | 50.6 | dBA |
| 11/01/2016 | 14:51:12 | 48.8 | dBA |
| 11/01/2016 | 14:52:11 | 52.1 | dBA |
| 11/01/2016 | 14:53:10 | 48.4 | dBA |
| 11/01/2016 | 14:54:09 | 48.8 | dBA |
| 11/01/2016 | 14:55:08 | 49.4 | dBA |
| 11/01/2016 | 14:56:07 | 39.5 | dBA |
| 11/01/2016 | 14:57:06 | 50.1 | dBA |
| 11/01/2016 | 14:58:05 | 47.7 | dBA |
| 11/01/2016 | 14:59:04 | 57   | dBA |
| 11/01/2016 | 15:00:03 | 49.4 | dBA |
| 11/01/2016 | 15:01:02 | 51.5 | dBA |

Bantry Inner Harbour Phase 1 Development C6023 -

Noise Monitoring Amenity

Date : 20/12/2016

Location N2: E99377; N48617



| STANDARD          | HD600  | DATA | LOGGER | SamplingRate:59.0; |
|-------------------|--------|------|--------|--------------------|
| Average           | 53.9   |      |        |                    |
| 20-12-20167:48:23 | 52.953 | dB   |        |                    |
| 20-12-20167:49:22 | 49.753 | dB   |        |                    |
| 20-12-20167:50:21 | 49.253 | dB   |        |                    |
| 20-12-20167:51:20 | 48.353 | dB   |        |                    |
| 20-12-20167:52:19 | 49.453 | dB   |        |                    |
| 20-12-20167:53:18 | 49.053 | dB   |        |                    |
| 20-12-20167:54:17 | 49.253 | dB   |        |                    |
| 20-12-20167:55:16 | 50.253 | dB   |        |                    |
| 20-12-20167:56:15 | 48.453 | dB   |        |                    |
| 20-12-20167:57:14 | 57.953 | dB   |        |                    |
| 20-12-20167:58:13 | 50.853 | dB   |        |                    |
| 20-12-20167:59:12 | 51.253 | dB   |        |                    |
| 20-12-20168:00:11 | 50.053 | dB   |        |                    |
| 20-12-20168:01:10 | 49.853 | dB   |        |                    |
| 20-12-20168:02:09 | 50.453 | dB   |        |                    |
| 20-12-20168:03:08 | 49.053 | dB   |        |                    |
| 20-12-20168:04:07 | 49.153 | dB   |        |                    |
| 20-12-20168:05:06 | 50.053 | dB   |        |                    |
| 20-12-20168:06:05 | 51.853 | dB   |        |                    |
| 20-12-20168:07:04 | 51.653 | dB   |        |                    |
| 20-12-20168:08:03 | 50.253 | dB   |        |                    |
| 20-12-20168:09:02 | 49.453 | dB   |        |                    |
| 20-12-20168:10:01 | 49.453 | dB   |        |                    |
| 20-12-20168:11:00 | 50.153 | dB   |        |                    |
| 20-12-20168:11:59 | 51.053 | dB   |        |                    |
| 20-12-20168:12:58 | 50.053 | dB   |        |                    |
| 20-12-20168:13:57 | 56.453 | dB   |        |                    |
| 20-12-20168:14:56 | 51.053 | dB   |        |                    |
| 20-12-20168:15:55 | 52.653 | dB   |        |                    |
| 20-12-20168:16:54 | 54.153 | dB   |        |                    |
| 20-12-20168:17:53 | 53.553 | dB   |        |                    |
| 20-12-20168:18:52 | 56.753 | dB   |        |                    |
| 20-12-20168:19:51 | 52.753 | dB   |        |                    |
| 20-12-20168:20:50 | 52.953 | dB   |        |                    |
| 20-12-20168:21:49 | 53.553 | dB   |        |                    |
| 20-12-20168:22:48 | 54.053 | dB   |        |                    |
| 20-12-20168:23:47 | 53.553 | dB   |        |                    |
| 20-12-20168:24:46 | 51.253 | dB   |        |                    |
| 20-12-20168:25:45 | 63.953 | dB   |        |                    |
| 20-12-20168:26:44 | 52.453 | dB   |        |                    |
| 20-12-20168:27:43 | 54.153 | dB   |        |                    |



|                   |            |
|-------------------|------------|
| 20-12-20168:28:42 | 53.753 dBA |
| 20-12-20168:29:41 | 53.153 dBA |
| 20-12-20168:30:40 | 55.353 dBA |
| 20-12-20168:31:39 | 56.953 dBA |
| 20-12-20168:32:38 | 54.453 dBA |
| 20-12-20168:33:37 | 54.553 dBA |
| 20-12-20168:34:36 | 58.453 dBA |
| 20-12-20168:35:35 | 53.753 dBA |
| 20-12-20168:36:34 | 53.553 dBA |
| 20-12-20168:37:33 | 56.753 dBA |
| 20-12-20168:38:32 | 56.053 dBA |
| 20-12-20168:39:31 | 55.953 dBA |
| 20-12-20168:40:30 | 57.453 dBA |
| 20-12-20168:41:29 | 56.553 dBA |
| 20-12-20168:42:28 | 56.753 dBA |
| 20-12-20168:43:27 | 55.753 dBA |
| 20-12-20168:44:26 | 55.153 dBA |
| 20-12-20168:45:25 | 55.553 dBA |
| 20-12-20168:46:24 | 55.253 dBA |
| 20-12-20168:47:23 | 53.153 dBA |
| 20-12-20168:48:22 | 54.153 dBA |
| 20-12-20168:49:21 | 59.953 dBA |
| 20-12-20168:50:20 | 54.953 dBA |
| 20-12-20168:51:19 | 56.053 dBA |
| 20-12-20168:52:18 | 55.153 dBA |
| 20-12-20168:53:17 | 55.553 dBA |
| 20-12-20168:54:16 | 55.653 dBA |
| 20-12-20168:55:15 | 56.153 dBA |
| 20-12-20168:56:14 | 54.953 dBA |
| 20-12-20168:57:13 | 56.453 dBA |
| 20-12-20168:58:12 | 55.353 dBA |
| 20-12-20168:59:11 | 54.553 dBA |
| 20-12-20169:00:10 | 56.953 dBA |
| 20-12-20169:01:09 | 57.853 dBA |
| 20-12-20169:02:08 | 54.553 dBA |
| 20-12-20169:03:07 | 52.953 dBA |
| 20-12-20169:04:06 | 53.553 dBA |
| 20-12-20169:05:05 | 53.753 dBA |
| 20-12-20169:06:04 | 54.953 dBA |
| 20-12-20169:07:03 | 54.753 dBA |
| 20-12-20169:08:02 | 53.453 dBA |
| 20-12-20169:09:01 | 61.853 dBA |
| 20-12-20169:10:00 | 59.653 dBA |
| 20-12-20169:10:59 | 54.753 dBA |
| 20-12-20169:11:58 | 54.853 dBA |
| 20-12-20169:12:57 | 55.153 dBA |
| 20-12-20169:13:56 | 54.553 dBA |
| 20-12-20169:14:55 | 53.853 dBA |
| 20-12-20169:15:54 | 54.553 dBA |
| 20-12-20169:16:53 | 59.253 dBA |

|                    |            |
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| 20-12-20169:17:52  | 55.253 dBA |
| 20-12-20169:18:51  | 53.853 dBA |
| 20-12-20169:19:50  | 55.153 dBA |
| 20-12-20169:20:49  | 57.853 dBA |
| 20-12-20169:21:48  | 55.753 dBA |
| 20-12-20169:22:47  | 52.953 dBA |
| 20-12-20169:23:46  | 55.353 dBA |
| 20-12-20169:24:45  | 50.453 dBA |
| 20-12-20169:25:44  | 52.153 dBA |
| 20-12-20169:26:43  | 52.553 dBA |
| 20-12-20169:27:42  | 51.453 dBA |
| 20-12-20169:28:41  | 50.253 dBA |
| 20-12-20169:29:40  | 49.453 dBA |
| 20-12-20169:30:39  | 49.053 dBA |
| 20-12-20169:31:38  | 49.653 dBA |
| 20-12-20169:32:37  | 49.453 dBA |
| 20-12-20169:33:36  | 52.653 dBA |
| 20-12-20169:34:35  | 49.253 dBA |
| 20-12-20169:35:34  | 50.053 dBA |
| 20-12-20169:36:33  | 50.653 dBA |
| 20-12-20169:37:32  | 50.153 dBA |
| 20-12-20169:38:31  | 51.253 dBA |
| 20-12-20169:39:30  | 52.453 dBA |
| 20-12-20169:40:29  | 51.253 dBA |
| 20-12-20169:41:28  | 49.253 dBA |
| 20-12-20169:42:27  | 49.453 dBA |
| 20-12-20169:43:26  | 44.953 dBA |
| 20-12-20169:44:25  | 44.753 dBA |
| 20-12-20169:45:24  | 46.953 dBA |
| 20-12-20169:46:23  | 45.853 dBA |
| 20-12-20169:47:22  | 47.853 dBA |
| 20-12-20169:48:21  | 45.453 dBA |
| 20-12-20169:49:20  | 55.753 dBA |
| 20-12-20169:50:19  | 56.853 dBA |
| 20-12-20169:51:18  | 56.953 dBA |
| 20-12-20169:52:17  | 55.953 dBA |
| 20-12-20169:53:16  | 56.453 dBA |
| 20-12-20169:54:15  | 55.953 dBA |
| 20-12-20169:55:14  | 56.853 dBA |
| 20-12-20169:56:13  | 58.053 dBA |
| 20-12-20169:57:12  | 56.553 dBA |
| 20-12-20169:58:11  | 57.253 dBA |
| 20-12-20169:59:10  | 57.253 dBA |
| 20-12-201610:00:09 | 56.053 dBA |
| 20-12-201610:01:08 | 56.953 dBA |
| 20-12-201610:02:07 | 56.453 dBA |
| 20-12-201610:03:06 | 56.953 dBA |
| 20-12-201610:04:05 | 56.453 dBA |
| 20-12-201610:05:04 | 57.153 dBA |
| 20-12-201610:06:03 | 57.253 dBA |

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| 20-12-201610:07:02 | 56.453 dBA |
| 20-12-201610:08:01 | 56.953 dBA |
| 20-12-201610:09:00 | 56.553 dBA |
| 20-12-201610:09:59 | 58.053 dBA |
| 20-12-201610:10:58 | 56.153 dBA |
| 20-12-201610:11:57 | 57.653 dBA |
| 20-12-201610:12:56 | 56.953 dBA |
| 20-12-201610:13:55 | 55.753 dBA |
| 20-12-201610:14:54 | 58.053 dBA |
| 20-12-201610:15:53 | 58.053 dBA |
| 20-12-201610:16:52 | 56.753 dBA |
| 20-12-201610:17:51 | 56.453 dBA |
| 20-12-201610:18:50 | 42.653 dBA |
| 20-12-201610:19:49 | 42.353 dBA |
| 20-12-201610:20:48 | 45.053 dBA |
| 20-12-201610:21:47 | 43.453 dBA |
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| 20-12-201610:24:44 | 44.253 dBA |
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| 20-12-201610:26:42 | 44.353 dBA |
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| 20-12-201610:28:40 | 44.453 dBA |
| 20-12-201610:29:39 | 45.553 dBA |
| 20-12-201610:30:38 | 44.753 dBA |
| 20-12-201610:31:37 | 45.553 dBA |
| 20-12-201610:32:36 | 44.353 dBA |
| 20-12-201610:33:35 | 41.353 dBA |
| 20-12-201610:34:34 | 40.853 dBA |
| 20-12-201610:35:33 | 48.653 dBA |
| 20-12-201610:36:32 | 46.553 dBA |
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| 20-12-201610:42:26 | 43.253 dBA |
| 20-12-201610:43:25 | 44.453 dBA |
| 20-12-201610:44:24 | 46.953 dBA |
| 20-12-201610:45:23 | 45.853 dBA |
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| 20-12-201610:53:15 | 44.053 dBA |
| 20-12-201610:54:14 | 44.653 dBA |
| 20-12-201610:55:13 | 44.953 dBA |

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| 20-12-201610:56:12 | 44.253 dBA |
| 20-12-201610:57:11 | 46.153 dBA |
| 20-12-201610:58:10 | 46.253 dBA |
| 20-12-201610:59:09 | 45.753 dBA |
| 20-12-201611:00:08 | 45.353 dBA |
| 20-12-201611:01:07 | 45.353 dBA |
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| 20-12-201611:03:05 | 45.153 dBA |
| 20-12-201611:04:04 | 44.753 dBA |
| 20-12-201611:05:03 | 43.853 dBA |
| 20-12-201611:06:02 | 43.853 dBA |
| 20-12-201611:07:01 | 46.253 dBA |
| 20-12-201611:08:00 | 45.753 dBA |
| 20-12-201611:08:59 | 44.453 dBA |
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| 20-12-201611:31:36 | 39.753 dBA |
| 20-12-201611:32:35 | 37.153 dBA |
| 20-12-201611:33:34 | 40.053 dBA |
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| 20-12-201611:36:31 | 42.053 dBA |
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| 20-12-201611:39:28 | 39.953 dBA |
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| 20-12-201611:43:24 | 40.153 dBA |
| 20-12-201611:44:23 | 39.853 dBA |

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| 20-12-201611:45:22 | 39.153 dBA |
| 20-12-201611:46:21 | 37.753 dBA |
| 20-12-201611:47:20 | 51.053 dBA |
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| 20-12-201611:50:17 | 39.353 dBA |
| 20-12-201611:51:16 | 42.753 dBA |
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| 20-12-201611:53:14 | 41.053 dBA |
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| 20-12-201611:55:12 | 41.553 dBA |
| 20-12-201611:56:11 | 43.453 dBA |
| 20-12-201611:57:10 | 43.853 dBA |
| 20-12-201611:58:09 | 43.853 dBA |
| 20-12-201611:59:08 | 45.553 dBA |
| 20-12-201612:00:07 | 44.553 dBA |
| 20-12-201612:01:06 | 42.453 dBA |
| 20-12-201612:02:05 | 44.753 dBA |
| 20-12-201612:03:04 | 40.853 dBA |
| 20-12-201612:04:03 | 42.653 dBA |
| 20-12-201612:05:02 | 42.453 dBA |
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| 20-12-201612:07:00 | 40.753 dBA |
| 20-12-201612:07:59 | 41.053 dBA |
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| 20-12-201612:09:57 | 43.553 dBA |
| 20-12-201612:10:56 | 41.653 dBA |
| 20-12-201612:11:55 | 43.853 dBA |
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| 20-12-201612:13:53 | 41.053 dBA |
| 20-12-201612:14:52 | 44.753 dBA |
| 20-12-201612:15:51 | 43.153 dBA |
| 20-12-201612:16:50 | 41.353 dBA |
| 20-12-201612:17:49 | 40.153 dBA |
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| 20-12-201612:22:44 | 41.253 dBA |
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| 20-12-201612:25:41 | 40.853 dBA |
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| 20-12-201612:27:39 | 41.353 dBA |
| 20-12-201612:28:38 | 41.653 dBA |
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| 20-12-201612:31:35 | 41.653 dBA |
| 20-12-201612:32:34 | 40.653 dBA |
| 20-12-201612:33:33 | 40.853 dBA |

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| 20-12-201612:34:32 | 43.253 dBA |
| 20-12-201612:35:31 | 43.653 dBA |
| 20-12-201612:36:30 | 44.753 dBA |
| 20-12-201612:37:29 | 40.853 dBA |
| 20-12-201612:38:28 | 44.753 dBA |
| 20-12-201612:39:27 | 43.253 dBA |
| 20-12-201612:40:26 | 44.053 dBA |
| 20-12-201612:41:25 | 43.253 dBA |
| 20-12-201612:42:24 | 42.953 dBA |
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| 20-12-201612:46:20 | 36.153 dBA |
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| 20-12-201612:48:18 | 42.553 dBA |
| 20-12-201612:49:17 | 42.053 dBA |
| 20-12-201612:50:16 | 36.853 dBA |
| 20-12-201612:51:15 | 40.153 dBA |
| 20-12-201612:52:14 | 38.553 dBA |
| 20-12-201612:53:13 | 38.153 dBA |
| 20-12-201612:54:12 | 38.253 dBA |
| 20-12-201612:55:11 | 38.253 dBA |
| 20-12-201612:56:10 | 40.153 dBA |
| 20-12-201612:57:09 | 38.753 dBA |
| 20-12-201612:58:08 | 38.153 dBA |
| 20-12-201612:59:07 | 40.853 dBA |
| 20-12-201613:00:06 | 37.853 dBA |
| 20-12-201613:01:05 | 44.353 dBA |
| 20-12-201613:02:04 | 40.453 dBA |
| 20-12-201613:03:03 | 43.053 dBA |
| 20-12-201613:04:02 | 38.553 dBA |
| 20-12-201613:05:01 | 38.553 dBA |
| 20-12-201613:06:00 | 32.753 dBA |
| 20-12-201613:06:59 | 36.053 dBA |
| 20-12-201613:07:58 | 37.953 dBA |
| 20-12-201613:08:57 | 49.353 dBA |
| 20-12-201613:09:56 | 39.353 dBA |
| 20-12-201613:10:55 | 41.553 dBA |
| 20-12-201613:11:54 | 41.653 dBA |
| 20-12-201613:12:53 | 40.253 dBA |
| 20-12-201613:13:52 | 40.053 dBA |
| 20-12-201613:14:51 | 40.453 dBA |
| 20-12-201613:15:50 | 40.753 dBA |
| 20-12-201613:16:49 | 41.253 dBA |
| 20-12-201613:17:48 | 40.353 dBA |
| 20-12-201613:18:47 | 40.053 dBA |
| 20-12-201613:19:46 | 40.453 dBA |
| 20-12-201613:20:45 | 40.153 dBA |
| 20-12-201613:21:44 | 43.653 dBA |
| 20-12-201613:22:43 | 44.053 dBA |

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| 20-12-201613:23:42 | 42.253 dBA |
| 20-12-201613:24:41 | 43.853 dBA |
| 20-12-201613:25:40 | 41.953 dBA |
| 20-12-201613:26:39 | 42.053 dBA |
| 20-12-201613:27:38 | 41.953 dBA |
| 20-12-201613:28:37 | 42.953 dBA |
| 20-12-201613:29:36 | 55.253 dBA |
| 20-12-201613:30:35 | 41.253 dBA |
| 20-12-201613:31:34 | 42.453 dBA |
| 20-12-201613:32:33 | 44.553 dBA |
| 20-12-201613:33:32 | 42.053 dBA |
| 20-12-201613:34:31 | 42.853 dBA |
| 20-12-201613:35:30 | 42.453 dBA |
| 20-12-201613:36:29 | 45.353 dBA |
| 20-12-201613:37:28 | 42.053 dBA |
| 20-12-201613:38:27 | 42.853 dBA |
| 20-12-201613:39:26 | 42.453 dBA |
| 20-12-201613:40:25 | 47.153 dBA |
| 20-12-201613:41:24 | 42.653 dBA |
| 20-12-201613:42:23 | 43.453 dBA |
| 20-12-201613:43:22 | 43.053 dBA |
| 20-12-201613:44:21 | 41.653 dBA |
| 20-12-201613:45:20 | 40.953 dBA |
| 20-12-201613:46:19 | 40.453 dBA |
| 20-12-201613:47:18 | 41.453 dBA |
| 20-12-201613:48:17 | 44.353 dBA |
| 20-12-201613:49:16 | 41.253 dBA |
| 20-12-201613:50:15 | 40.453 dBA |
| 20-12-201613:51:14 | 41.353 dBA |
| 20-12-201613:52:13 | 41.053 dBA |
| 20-12-201613:53:12 | 40.653 dBA |
| 20-12-201613:54:11 | 39.953 dBA |
| 20-12-201613:55:10 | 39.753 dBA |
| 20-12-201613:56:09 | 41.653 dBA |
| 20-12-201613:57:08 | 41.453 dBA |
| 20-12-201613:58:07 | 43.253 dBA |
| 20-12-201613:59:06 | 40.853 dBA |
| 20-12-201614:00:05 | 41.053 dBA |
| 20-12-201614:01:04 | 41.553 dBA |
| 20-12-201614:02:03 | 41.653 dBA |
| 20-12-201614:03:02 | 40.153 dBA |
| 20-12-201614:04:01 | 40.253 dBA |
| 20-12-201614:05:00 | 36.853 dBA |
| 20-12-201614:05:59 | 33.853 dBA |
| 20-12-201614:06:58 | 35.253 dBA |
| 20-12-201614:07:57 | 38.753 dBA |
| 20-12-201614:08:56 | 36.453 dBA |
| 20-12-201614:09:55 | 38.953 dBA |
| 20-12-201614:10:54 | 38.053 dBA |
| 20-12-201614:11:53 | 37.553 dBA |

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| 20-12-201614:12:52 | 37.853 dBA |
| 20-12-201614:13:51 | 38.053 dBA |
| 20-12-201614:14:50 | 37.353 dBA |
| 20-12-201614:15:49 | 37.853 dBA |
| 20-12-201614:16:48 | 37.753 dBA |
| 20-12-201614:17:47 | 36.953 dBA |
| 20-12-201614:18:46 | 52.853 dBA |
| 20-12-201614:19:45 | 38.553 dBA |
| 20-12-201614:20:44 | 36.953 dBA |
| 20-12-201614:21:43 | 39.853 dBA |
| 20-12-201614:22:42 | 45.553 dBA |
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| 20-12-201614:26:38 | 41.453 dBA |
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| 20-12-201614:29:35 | 41.053 dBA |
| 20-12-201614:30:34 | 41.153 dBA |
| 20-12-201614:31:33 | 41.253 dBA |
| 20-12-201614:32:32 | 42.453 dBA |
| 20-12-201614:33:31 | 41.453 dBA |
| 20-12-201614:34:30 | 41.253 dBA |
| 20-12-201614:35:29 | 41.453 dBA |
| 20-12-201614:36:28 | 42.853 dBA |
| 20-12-201614:37:27 | 43.253 dBA |
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| 20-12-201614:41:23 | 42.053 dBA |
| 20-12-201614:42:22 | 43.553 dBA |
| 20-12-201614:43:21 | 42.853 dBA |
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| 20-12-201614:45:19 | 42.453 dBA |
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| 20-12-201614:48:16 | 42.253 dBA |
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| 20-12-201614:57:07 | 42.753 dBA |
| 20-12-201614:58:06 | 47.953 dBA |
| 20-12-201614:59:05 | 43.053 dBA |
| 20-12-201615:00:04 | 43.453 dBA |
| 20-12-201615:01:03 | 41.653 dBA |



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| 20-12-201615:02:02 | 42.253 dBA |
| 20-12-201615:03:01 | 43.153 dBA |
| 20-12-201615:04:00 | 42.853 dBA |
| 20-12-201615:04:59 | 42.553 dBA |
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| 20-12-201615:11:52 | 40.153 dBA |
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| 20-12-201615:40:23 | 40.453 dBA |
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| 20-12-201615:42:21 | 40.753 dBA |
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| 20-12-201615:48:15 | 43.953 dBA |
| 20-12-201615:49:14 | 43.153 dBA |
| 20-12-201615:50:13 | 44.253 dBA |

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| 20-12-201615:53:10 | 44.553 dBA |
| 20-12-201615:54:09 | 42.553 dBA |
| 20-12-201615:55:08 | 42.353 dBA |
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| 20-12-201615:58:05 | 46.653 dBA |
| 20-12-201615:59:04 | 43.253 dBA |
| 20-12-201616:00:03 | 44.353 dBA |
| 20-12-201616:01:02 | 43.653 dBA |
| 20-12-201616:02:01 | 46.153 dBA |
| 20-12-201616:03:00 | 44.253 dBA |
| 20-12-201616:03:59 | 43.753 dBA |
| 20-12-201616:04:58 | 44.353 dBA |
| 20-12-201616:05:57 | 43.853 dBA |
| 20-12-201616:06:56 | 44.553 dBA |
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| 20-12-201616:12:50 | 43.853 dBA |
| 20-12-201616:13:49 | 49.253 dBA |
| 20-12-201616:14:48 | 47.053 dBA |
| 20-12-201616:15:47 | 48.653 dBA |
| 20-12-201616:16:46 | 45.853 dBA |
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| 20-12-201616:27:35 | 44.253 dBA |
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| 20-12-201616:29:33 | 45.753 dBA |
| 20-12-201616:30:32 | 44.353 dBA |
| 20-12-201616:31:31 | 44.653 dBA |
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| 20-12-201616:35:27 | 44.053 dBA |
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| 20-12-201616:37:25 | 42.453 dBA |
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| 20-12-201616:41:21 | 45.153 dBA |
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| 20-12-201616:52:10 | 47.353 dBA |
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| 20-12-201616:54:08 | 41.953 dBA |
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| 20-12-201617:02:59 | 42.453 dBA |
| 20-12-201617:03:58 | 41.653 dBA |
| 20-12-201617:04:57 | 41.653 dBA |
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| 20-12-201617:06:55 | 43.253 dBA |
| 20-12-201617:07:54 | 42.953 dBA |
| 20-12-201617:08:53 | 45.553 dBA |
| 20-12-201617:09:52 | 63.553 dBA |
| 20-12-201617:10:51 | 62.753 dBA |
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| 20-12-201617:13:48 | 43.153 dBA |
| 20-12-201617:14:47 | 50.053 dBA |
| 20-12-201617:15:46 | 42.653 dBA |
| 20-12-201617:16:45 | 41.253 dBA |
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| 20-12-201617:18:43 | 62.953 dBA |
| 20-12-201617:19:42 | 40.153 dBA |
| 20-12-201617:20:41 | 40.253 dBA |
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| 20-12-201617:23:38 | 40.853 dBA |
| 20-12-201617:24:37 | 41.553 dBA |
| 20-12-201617:25:36 | 40.153 dBA |
| 20-12-201617:26:35 | 40.753 dBA |
| 20-12-201617:27:34 | 42.553 dBA |
| 20-12-201617:28:33 | 40.253 dBA |

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| 20-12-201617:29:32 | 41.253 dBA |
| 20-12-201617:30:31 | 47.453 dBA |
| 20-12-201617:31:30 | 42.153 dBA |
| 20-12-201617:32:29 | 41.353 dBA |

Bantry Inner Harbour Phase 1 Development C6023 -

Noise Monitoring Amenity

Date : 21/11/2016

Location N3: E991223 ; N: 48591



STANDARD          HD600          DATA          LOGGER          SamplingRate:59.0;

| Date       | Time     | Reading |     |
|------------|----------|---------|-----|
|            |          | 50.75   | dBA |
| 21/12/2016 | 12:29:35 | 53.67   | dBA |
| 21/12/2016 | 12:30:34 | 52.97   | dBA |
| 21/12/2016 | 12:31:33 | 47.07   | dBA |
| 21/12/2016 | 12:32:32 | 47.77   | dBA |
| 21/12/2016 | 12:33:31 | 50.97   | dBA |
| 21/12/2016 | 12:34:30 | 43.07   | dBA |
| 21/12/2016 | 12:35:29 | 44.57   | dBA |
| 21/12/2016 | 12:36:28 | 44.47   | dBA |
| 21/12/2016 | 12:37:27 | 52.57   | dBA |
| 21/12/2016 | 12:38:26 | 50.87   | dBA |
| 21/12/2016 | 12:39:25 | 55.17   | dBA |
| 21/12/2016 | 12:40:24 | 51.17   | dBA |
| 21/12/2016 | 12:41:23 | 53.67   | dBA |
| 21/12/2016 | 12:42:22 | 50.07   | dBA |
| 21/12/2016 | 12:43:21 | 40.17   | dBA |
| 21/12/2016 | 12:44:20 | 49.07   | dBA |
| 21/12/2016 | 12:45:19 | 51.57   | dBA |
| 21/12/2016 | 12:46:18 | 49.37   | dBA |
| 21/12/2016 | 12:47:17 | 44.97   | dBA |
| 21/12/2016 | 12:48:16 | 43.87   | dBA |
| 21/12/2016 | 12:49:15 | 45.97   | dBA |
| 21/12/2016 | 12:50:14 | 55.27   | dBA |
| 21/12/2016 | 12:51:13 | 47.77   | dBA |
| 21/12/2016 | 12:52:12 | 57.27   | dBA |
| 21/12/2016 | 12:53:11 | 49.07   | dBA |
| 21/12/2016 | 12:54:10 | 51.47   | dBA |
| 21/12/2016 | 12:55:09 | 58.87   | dBA |
| 21/12/2016 | 12:56:08 | 50.27   | dBA |
| 21/12/2016 | 12:57:07 | 64.47   | dBA |
| 21/12/2016 | 12:58:06 | 51.37   | dBA |
| 21/12/2016 | 12:59:05 | 55.37   | dBA |
| 21/12/2016 | 13:00:04 | 49.87   | dBA |
| 21/12/2016 | 13:01:03 | 57.87   | dBA |
| 21/12/2016 | 13:02:02 | 56.47   | dBA |
| 21/12/2016 | 13:03:01 | 40.17   | dBA |
| 21/12/2016 | 13:04:00 | 47.67   | dBA |
| 21/12/2016 | 13:04:59 | 56.77   | dBA |
| 21/12/2016 | 13:05:58 | 53.37   | dBA |
| 21/12/2016 | 13:06:57 | 40.17   | dBA |

|            |          |       |     |
|------------|----------|-------|-----|
| 21/12/2016 | 13:07:56 | 55.67 | dBA |
| 21/12/2016 | 13:08:55 | 51.37 | dBA |
| 21/12/2016 | 13:09:54 | 55.87 | dBA |
| 21/12/2016 | 13:10:53 | 51.77 | dBA |
| 21/12/2016 | 13:11:52 | 48.97 | dBA |
| 21/12/2016 | 13:12:51 | 50.07 | dBA |
| 21/12/2016 | 13:13:50 | 56.47 | dBA |
| 21/12/2016 | 13:14:49 | 51.97 | dBA |
| 21/12/2016 | 13:15:48 | 57.57 | dBA |
| 21/12/2016 | 13:16:47 | 56.67 | dBA |
| 21/12/2016 | 13:17:46 | 40.17 | dBA |
| 21/12/2016 | 13:18:45 | 51.97 | dBA |
| 21/12/2016 | 13:19:44 | 46.97 | dBA |
| 21/12/2016 | 13:20:43 | 49.87 | dBA |
| 21/12/2016 | 13:21:42 | 47.27 | dBA |
| 21/12/2016 | 13:22:41 | 49.07 | dBA |
| 21/12/2016 | 13:23:40 | 56.37 | dBA |
| 21/12/2016 | 13:24:39 | 46.37 | dBA |
| 21/12/2016 | 13:25:38 | 46.97 | dBA |
| 21/12/2016 | 13:26:37 | 54.97 | dBA |
| 21/12/2016 | 13:27:36 | 47.27 | dBA |
| 21/12/2016 | 13:28:35 | 49.07 | dBA |
| 21/12/2016 | 13:29:34 | 47.07 | dBA |
| 21/12/2016 | 13:30:33 | 45.87 | dBA |
| 21/12/2016 | 13:31:32 | 57.67 | dBA |
| 21/12/2016 | 13:32:31 | 55.67 | dBA |
| 21/12/2016 | 13:33:30 | 45.47 | dBA |
| 21/12/2016 | 13:34:29 | 46.17 | dBA |
| 21/12/2016 | 13:35:28 | 51.97 | dBA |
| 21/12/2016 | 13:36:27 | 49.17 | dBA |
| 21/12/2016 | 13:37:26 | 59.27 | dBA |
| 21/12/2016 | 13:38:25 | 57.17 | dBA |
| 21/12/2016 | 13:39:24 | 46.97 | dBA |
| 21/12/2016 | 13:40:23 | 50.07 | dBA |
| 21/12/2016 | 13:41:22 | 47.87 | dBA |
| 21/12/2016 | 13:42:21 | 48.37 | dBA |
| 21/12/2016 | 13:43:20 | 53.57 | dBA |
| 21/12/2016 | 13:44:19 | 60.97 | dBA |
| 21/12/2016 | 13:45:18 | 57.87 | dBA |
| 21/12/2016 | 13:46:17 | 51.77 | dBA |
| 21/12/2016 | 13:47:16 | 47.27 | dBA |
| 21/12/2016 | 13:48:15 | 56.27 | dBA |
| 21/12/2016 | 13:49:14 | 55.37 | dBA |
| 21/12/2016 | 13:50:13 | 50.27 | dBA |
| 21/12/2016 | 13:51:12 | 48.47 | dBA |
| 21/12/2016 | 13:52:11 | 51.77 | dBA |
| 21/12/2016 | 13:53:10 | 48.07 | dBA |
| 21/12/2016 | 13:54:09 | 48.47 | dBA |
| 21/12/2016 | 13:55:08 | 49.07 | dBA |
| 21/12/2016 | 13:56:07 | 39.17 | dBA |

|            |          |       |     |
|------------|----------|-------|-----|
| 21/12/2016 | 13:57:06 | 49.77 | dBA |
| 21/12/2016 | 13:58:05 | 47.37 | dBA |
| 21/12/2016 | 13:59:04 | 56.67 | dBA |
| 21/12/2016 | 14:00:03 | 49.07 | dBA |
| 21/12/2016 | 14:01:02 | 51.17 | dBA |

**Appendix 2**  
**Dust Analysis Results 2016**



# TEST REPORT NO.: 133554

Analysing  
Testing  
Consulting  
Calibrating



**Client:** BAM Civil Ltd  
Kill  
Co. Kildare

**BHP Ref. No.:** 17/01/0895-0896

**Order No:**

**Date Received:** 20/01/17

**Date Tested:** 30/12/16

**Test Specification:** Nil

**Item :** See below

BHP

New Road

Thomondgate

Limerick

Ireland

Tel +353 61 455399

Fax + 353 61 455447

E Mail johnhalloran@bhp.ie

**Project:** Bantry In-Harbour Development  
**FAO:** Cathal Tuohy

| TEST            | Client Reference            | Units                  | Results | Test Method |
|-----------------|-----------------------------|------------------------|---------|-------------|
| Dust Deposition | D1<br>30/11/16 to 30/12/16* | mg/m <sup>2</sup> /day | 414     | BHP AC 017  |
| Dust Deposition | D2**                        | mg/m <sup>2</sup> /day | 484     | BHP AC 017  |

**Additional Information:** All Sample Locations were outside the EPA Limit of 350 mg/m<sup>2</sup>/day.

\*Sampling period was provided by the Client.

\*\*Sample Jat at Location D2 contained grit.

**Authorised by:**

**Colette Hannan**

**Date of Issue:** 08/02/17

This Test Report shall not be duplicated except in full and then only with the permission of the test laboratory

**Appendix 3-A**

**Leachate - Monolith Tank 1,2,4,9 Day Results 2016**

**Project: C6023 - Bantry Inner Harbor Development**

| Client: BAM Contractors  | Chemtest Job No.:    |      |       |       | 16-30030     | 16-30030    | 16-30030     | 16-30030     |
|--------------------------|----------------------|------|-------|-------|--------------|-------------|--------------|--------------|
| Quotation No.: Q16-07624 | Chemtest Sample ID.: |      |       |       | 388026       | 388027      | 388028       | 388029       |
|                          | Client Sample ID.:   |      |       |       | MT1 Day      | MT2 Day     | MT4 Day      | MT9 Day      |
|                          | Sample Type:         |      |       |       | SOIL         | SOIL        | SOIL         | SOIL         |
|                          | Date Sampled:        |      |       |       | 30-Nov-2016  | 30-Nov-2016 | 30-Nov-2016  | 30-Nov-2016  |
| Determinand              | Accred.              | SOP  | Units | LOD   |              |             |              |              |
| pH                       | U                    | 1010 |       | N/A   | 11.2         | 11.7        | 12.0         | 12.0         |
| Electrical Conductivity  | U                    | 1020 | µS/cm | 1.0   | 4800         | 1500        | 2200         | 2600         |
| Sulphate                 | U                    | 1220 | mg/l  | 1.0   | 13           | 4.6         | 3.8          | 2.0          |
| Calcium                  | U                    | 1415 | mg/l  | 5.0   | 140          | 400         | 480          | 410          |
| Arsenic (Dissolved)      | U                    | 1450 | µg/l  | 1.0   | 3.7          | 1.7         | 1.2          | < 1.0        |
| Cadmium (Dissolved)      | U                    | 1450 | µg/l  | 0.080 | 0.22         | 0.11        | 0.12         | < 0.080      |
| Chromium (Dissolved)     | U                    | 1450 | µg/l  | 1.0   | 12           | 7.7         | 6.9          | 5.7          |
| Copper (Dissolved)       | U                    | 1450 | µg/l  | 1.0   | 74           | 21          | 15           | 10           |
| Mercury (Dissolved)      | U                    | 1450 | µg/l  | 0.50  | 0.63         | < 0.50      | < 0.50       | < 0.50       |
| Nickel (Dissolved)       | U                    | 1450 | µg/l  | 1.0   | 65           | 24          | 16           | 11           |
| Lead (Dissolved)         | U                    | 1450 | µg/l  | 1.0   | 6.0          | 5.6         | 6.1          | 4.1          |
| Selenium (Dissolved)     | U                    | 1450 | µg/l  | 1.0   | 11           | 3.0         | 2.4          | 1.8          |
| Zinc (Dissolved)         | U                    | 1450 | µg/l  | 1.0   | 1.9          | 24          | 2.9          | 2.0          |
| Total TPH >C6-C40        | U                    | 1670 | mg/l  | 0.010 | [BC] < 0.010 | [BC] 0.20   | [BC] < 0.010 | [BC] < 0.010 |
| Total Of 17 PAH's        | N                    | 1700 | µg/l  | 2.0   | < 2.0        | < 2.0       | < 2.0        | < 2.0        |
| Tributyl Tin             | N                    | 1730 | µg/l  | 0.001 | < 0.001      | < 0.001     | < 0.001      | < 0.001      |
| Benzene                  | U                    | 1760 | µg/l  | 1.0   | [BC] < 1.0   | [BC] < 1.0  | [BC] < 1.0   | [BC] < 1.0   |
| Toluene                  | U                    | 1760 | µg/l  | 1.0   | [BC] < 1.0   | [BC] < 1.0  | [BC] < 1.0   | [BC] < 1.0   |
| Ethylbenzene             | U                    | 1760 | µg/l  | 1.0   | [BC] < 1.0   | [BC] < 1.0  | [BC] < 1.0   | [BC] < 1.0   |
| m & p-Xylene             | U                    | 1760 | µg/l  | 1.0   | [BC] < 1.0   | [BC] < 1.0  | [BC] < 1.0   | [BC] < 1.0   |
| o-Xylene                 | U                    | 1760 | µg/l  | 1.0   | [BC] < 1.0   | [BC] < 1.0  | [BC] < 1.0   | [BC] < 1.0   |

**7th of December 2016  
Readings**
**Project: C6023 0032 - Bantry Inner Harbour Development**

| Client: <b>BAM Contractors</b> | Chemtest Job No.:    |      | 16-30453    | 16-30453     | 16-30453     | 16-30453     | 16-30453     | 16-30453     | 16-30453     | 16-30453     | 16-30453     | 16-30453     | 16-30453     |
|--------------------------------|----------------------|------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Quotation No.: Q16-07624       | Chemtest Sample ID.: |      | 390084      | 405198       | 405199       | 405200       | 405201       | 405202       | 405203       | 405204       | 405205       | 405205       | 405205       |
| Order No.: C6023               | Client Sample Ref.:  |      | D34/D22     | TC1 1 Day    | TC1 2 Day    | TC1 4 Day    | TC1 9 Day    | TC2 1 Day    | TC2 2 Day    | TC2 4 Day    | TC2 9 Day    | TC2 9 Day    | TC2 9 Day    |
|                                | Client Sample ID.:   |      | Ref. No. 1  | Ref. No. 1-6 | Ref. No. 1-6 | Ref. No. 1-6 | Ref. No. 1-6 | Ref. No. 1-6 | Ref. No. 1-6 | Ref. No. 1-6 | Ref. No. 1-6 | Ref. No. 1-6 | Ref. No. 1-6 |
|                                | Sample Type:         |      | SOIL        | SOIL         | SOIL         | SOIL         | SOIL         | SOIL         | SOIL         | SOIL         | SOIL         | SOIL         | SOIL         |
|                                | Date Sampled:        |      | 05-Dec-2016 | 05-Dec-2016  | 05-Dec-2016  | 05-Dec-2016  | 05-Dec-2016  | 05-Dec-2016  | 05-Dec-2016  | 05-Dec-2016  | 05-Dec-2016  | 05-Dec-2016  | 05-Dec-2016  |
| Determinand                    | Accred.              | SOP  | Units       | LOD          |              |              |              |              |              |              |              |              |              |
| Arsenic (Dissolved)            | U                    | 1450 | µg/l        | 1.0          |              | 4.4          | 3.6          | 2.3          | 2.7          | 5.5          | 5.0          | 2.5          | 2.5          |
| Cadmium (Dissolved)            | U                    | 1450 | µg/l        | 0.080        |              | 0.35         | 0.27         | 0.23         | 0.29         | 0.45         | 0.45         | 0.30         | 0.35         |
| Chromium (Dissolved)           | U                    | 1450 | µg/l        | 1.0          |              | 28           | 21           | 11           | 11           | 31           | 26           | 13           | 11           |
| Copper (Dissolved)             | U                    | 1450 | µg/l        | 1.0          |              | 63           | 50           | 26           | 25           | 87           | 85           | 39           | 34           |
| Mercury (Dissolved)            | U                    | 1450 | µg/l        | 0.50         |              | < 0.50       | < 0.50       | < 0.50       | < 0.50       | < 0.50       | < 0.50       | < 0.50       | < 0.50       |
| Mercury (Dissolved)            | U                    | 1450 | µg/l        | 0.50         | 0.56         |              |              |              |              |              |              |              |              |
| Nickel (Dissolved)             | U                    | 1450 | µg/l        | 1.0          |              | 37           | 32           | 19           | 24           | 50           | 50           | 25           | 22           |
| Lead (Dissolved)               | U                    | 1450 | µg/l        | 1.0          |              | 1.7          | 1.7          | 1.7          | 3.6          | 2.4          | 2.3          | 1.8          | 2.7          |
| Lead (Dissolved)               | U                    | 1450 | µg/l        | 1.0          | 1.5          |              |              |              |              |              |              |              |              |
| Selenium (Dissolved)           | U                    | 1450 | µg/l        | 1.0          |              | 14           | 9.0          | 3.8          | 3.7          | 15           | 11           | 4.7          | 3.5          |
| Zinc (Dissolved)               | U                    | 1450 | µg/l        | 1.0          |              | 3.1          | 1.5          | 1.4          | 5.7          | 1.8          | 2.0          | 1.5          | 3.7          |
| Total Of 17 PAH's              | N                    | 1700 | µg/l        | 2.0          |              | < 2.0        | < 2.0        | < 2.0        | < 2.0        | < 2.0        | < 2.0        | < 2.0        | < 2.0        |
| Tributyl Tin                   | N                    | 1730 | µg/l        | 0.001        |              | < 0.001      | < 0.001      | < 0.001      | < 0.001      | < 0.001      | < 0.001      | < 0.001      | < 0.001      |
| Tributyl Tin                   | N                    | 1730 | µg/l        | 0.0500       | < 0.050      |              |              |              |              |              |              |              |              |

**Project: C6023 Bantry Inner Harbour Development**

| Client: BAM Contractors  |                      | Chemtest Job No.: |       |        |          |          |          |          |          |
|--------------------------|----------------------|-------------------|-------|--------|----------|----------|----------|----------|----------|
| Quotation No.: Q16-07624 | Chemtest Sample ID.: |                   |       |        |          |          |          |          |          |
| Order No.: C6023-0032    | Client Sample Ref.:  |                   |       |        |          |          |          |          |          |
|                          | Client Sample ID.:   |                   |       |        |          |          |          |          |          |
|                          | Sample Type:         |                   |       |        |          |          |          |          |          |
|                          | Date Sampled:        |                   |       |        |          |          |          |          |          |
| Determinand              | Accred.              | SOP               | Units | LOD    | 16-30329 | 16-30329 | 16-30329 | 16-30329 | 16-30329 |
| Arsenic (Dissolved)      | U                    | 1450              | µg/l  | 1.0    |          | 9.9      | 4.1      | 2.4      | 3.3      |
| Cadmium (Dissolved)      | U                    | 1450              | µg/l  | 0.080  |          | 0.68     | 0.34     | 0.18     | 0.48     |
| Chromium (Dissolved)     | U                    | 1450              | µg/l  | 1.0    |          | 63       | 29       | 21       | 34       |
| Copper (Dissolved)       | U                    | 1450              | µg/l  | 1.0    |          | 200      | 94       | 50       | 93       |
| Mercury (Dissolved)      | U                    | 1450              | µg/l  | 0.50   |          | 2.3      | < 0.50   | < 0.50   | < 0.50   |
| Mercury (Dissolved)      | U                    | 1450              | µg/l  | 0.50   | 0.50     |          |          |          |          |
| Nickel (Dissolved)       | U                    | 1450              | µg/l  | 1.0    |          | 86       | 37       | 16       | 26       |
| Lead (Dissolved)         | U                    | 1450              | µg/l  | 1.0    |          | < 1.0    | < 1.0    | < 1.0    | 7.1      |
| Lead (Dissolved)         | U                    | 1450              | µg/l  | 1.0    | < 1.0    |          |          |          |          |
| Selenium (Dissolved)     | U                    | 1450              | µg/l  | 1.0    |          | 36       | 16       | 7.4      | 16       |
| Zinc (Dissolved)         | U                    | 1450              | µg/l  | 1.0    |          | 13       | 5.5      | 1.7      | 29       |
| Total Of 17 PAH's        | N                    | 1700              | µg/l  | 2.0    |          | < 2.0    | < 2.0    | < 2.0    | < 2.0    |
| Tributyl Tin             | N                    | 1730              | µg/l  | 0.001  |          | < 0.001  | < 0.001  | < 0.001  | < 0.001  |
| Tributyl Tin             | N                    | 1730              | µg/l  | 0.0500 | < 0.050  |          |          |          |          |

**Project: C6023 - Bantry Inner Harbour Development**

| Client: <b>BAM Contractors</b> | Chemtest Job No.:    |      |       |       | 16-30955    | 16-30955    | 16-30955    | 16-30955    | 16-30955    | 16-30955    | 16-30955    | 16-30955    | 16-30955    |
|--------------------------------|----------------------|------|-------|-------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Quotation No.: Q16-07624       | Chemtest Sample ID.: |      |       |       | 405223      | 405224      | 405225      | 405226      | 405227      | 405228      | 405229      | 405230      | 405231      |
| Order No.: C6023 - 0032        | Client Sample Ref.:  |      |       |       | TC2 1 Day   | TC2 2 Day   | TC2 4 Day   | TC2 9 Day   | TC3 1 Day   | TC3 2 Day   | TC2 4 Day   | TC2 9 Day   | TC1 1 Day   |
|                                | Client Sample ID.:   |      |       |       | M1          | M1          | M1          | M1          | M1          | M1          | M1          | M1          | M1          |
|                                | Sample Type:         |      |       |       | SOIL        | SOIL        | SOIL        | SOIL        | SOIL        | SOIL        | SOIL        | SOIL        | SOIL        |
|                                | Date Sampled:        |      |       |       | 12-Dec-2016 | 12-Dec-2016 | 12-Dec-2016 | 12-Dec-2016 | 14-Dec-2016 | 14-Dec-2016 | 14-Dec-2016 | 14-Dec-2016 | 15-Dec-2016 |
| Determinand                    | Accred.              | SOP  | Units | LOD   |             |             |             |             |             |             |             |             |             |
| Arsenic (Dissolved)            | U                    | 1450 | µg/l  | 1.0   | 2.7         | 3.4         | 2.0         | 2.2         | 8.5         | 4.2         | 3.1         | 3.9         | 2.7         |
| Cadmium (Dissolved)            | U                    | 1450 | µg/l  | 0.080 | 0.16        | 0.15        | 0.097       | 0.13        | 0.31        | 0.16        | 0.11        | 0.17        | 0.17        |
| Chromium (Dissolved)           | U                    | 1450 | µg/l  | 1.0   | 20          | 27          | 16          | 19          | 47          | 30          | 21          | 27          | 26          |
| Copper (Dissolved)             | U                    | 1450 | µg/l  | 1.0   | 9.2         | 11          | 5.9         | 6.5         | 15          | 9.1         | 5.8         | 5.9         | 6.0         |
| Mercury (Dissolved)            | U                    | 1450 | µg/l  | 0.50  | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50      |
| Nickel (Dissolved)             | U                    | 1450 | µg/l  | 1.0   | 3.4         | 5.9         | 1.6         | 3.2         | 11          | 5.3         | 3.1         | 5.5         | 3.2         |
| Lead (Dissolved)               | U                    | 1450 | µg/l  | 1.0   | < 1.0       | < 1.0       | < 1.0       | < 1.0       | 1.3         | < 1.0       | < 1.0       | < 1.0       | < 1.0       |
| Selenium (Dissolved)           | U                    | 1450 | µg/l  | 1.0   | 8.1         | 11          | 5.8         | 8.1         | 20          | 11          | 7.7         | 10          | 12          |
| Zinc (Dissolved)               | U                    | 1450 | µg/l  | 1.0   | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       |
| Total Of 17 PAH's              | N                    | 1700 | µg/l  | 2.0   | < 2.0       | < 2.0       | < 2.0       | < 2.0       | < 2.0       | < 2.0       | < 2.0       | < 2.0       | < 2.0       |
| Tributyl Tin                   | N                    | 1730 | µg/l  | 0.001 | < 0.001     | < 0.001     | < 0.001     | < 0.001     | < 0.001     | < 0.001     | < 0.001     | < 0.001     | < 0.001     |

**Project: C6023 - Bantry Inner Harbour Development**

|                                |                             |            |              |            |             |             |             |
|--------------------------------|-----------------------------|------------|--------------|------------|-------------|-------------|-------------|
| <b>Client: BAM Contractors</b> | <b>Chemtest Job No.:</b>    |            |              |            | 16-30955    | 16-30955    | 16-30955    |
| Quotation No.: Q16-07624       | <b>Chemtest Sample ID.:</b> |            |              |            | 405232      | 405233      | 405234      |
| Order No.: C6023 - 0032        | <b>Client Sample Ref.:</b>  |            |              |            | TC1 2 Day   | TC1 4 Day   | TC1 9 Day   |
|                                | <b>Client Sample ID.:</b>   |            |              |            | M1          | M1          | M1          |
|                                | <b>Sample Type:</b>         |            |              |            | SOIL        | SOIL        | SOIL        |
|                                | <b>Date Sampled:</b>        |            |              |            | 15-Dec-2016 | 15-Dec-2016 | 15-Dec-2016 |
| <b>Determinand</b>             | <b>Accred.</b>              | <b>SOP</b> | <b>Units</b> | <b>LOD</b> |             |             |             |
| Arsenic (Dissolved)            | U                           | 1450       | µg/l         | 1.0        | 2.3         | 1.8         | 2.7         |
| Cadmium (Dissolved)            | U                           | 1450       | µg/l         | 0.080      | 0.14        | 0.099       | 0.23        |
| Chromium (Dissolved)           | U                           | 1450       | µg/l         | 1.0        | 21          | 17          | 25          |
| Copper (Dissolved)             | U                           | 1450       | µg/l         | 1.0        | 3.2         | 1.1         | 2.9         |
| Mercury (Dissolved)            | U                           | 1450       | µg/l         | 0.50       | 13          | 1.6         | 1.4         |
| Nickel (Dissolved)             | U                           | 1450       | µg/l         | 1.0        | 2.8         | 1.5         | 6.0         |
| Lead (Dissolved)               | U                           | 1450       | µg/l         | 1.0        | < 1.0       | < 1.0       | < 1.0       |
| Selenium (Dissolved)           | U                           | 1450       | µg/l         | 1.0        | 10          | 7.1         | 11          |
| Zinc (Dissolved)               | U                           | 1450       | µg/l         | 1.0        | < 1.0       | < 1.0       | 2.0         |
| Total Of 17 PAH's              | N                           | 1700       | µg/l         | 2.0        | < 2.0       | < 2.0       | < 2.0       |
| Tributyl Tin                   | N                           | 1730       | µg/l         | 0.001      | < 0.001     | < 0.001     | < 0.001     |

**Project: C6023 - Bantry Inner Harbour Development**

| Client: <b>BAM Contractors</b> | Chemtest Job No.:    |      |       |        |         |         |         |         |         |         |         |         |         |
|--------------------------------|----------------------|------|-------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Quotation No.: Q16-07624       | Chemtest Sample ID.: |      |       |        |         |         |         |         |         |         |         |         |         |
| Order No.: C6023 - 0032        | Client Sample Ref.:  |      |       |        |         |         |         |         |         |         |         |         |         |
|                                | Client Sample ID.:   |      |       |        |         |         |         |         |         |         |         |         |         |
|                                | Sample Type:         |      |       |        |         |         |         |         |         |         |         |         |         |
|                                | Date Sampled:        |      |       |        |         |         |         |         |         |         |         |         |         |
| Determinand                    | Accred.              | SOP  | Units | LOD    |         |         |         |         |         |         |         |         |         |
| Arsenic (Dissolved)            | U                    | 1450 | µg/l  | 1.0    |         | 3.1     | 2.4     | 1.4     | 3.8     | 2.2     | 1.6     | 1.5     | 3.1     |
| Cadmium (Dissolved)            | U                    | 1450 | µg/l  | 0.080  |         | 0.12    | 0.10    | < 0.080 | 0.20    | 0.17    | 0.11    | 0.11    | 0.21    |
| Chromium (Dissolved)           | U                    | 1450 | µg/l  | 1.0    |         | 24      | 21      | 15      | 28      | 21      | 17      | 14      | 21      |
| Copper (Dissolved)             | U                    | 1450 | µg/l  | 1.0    |         | 2.7     | 4.0     | 3.1     | 2.6     | 10      | 7.5     | 6.3     | 13      |
| Mercury (Dissolved)            | U                    | 1450 | µg/l  | 0.50   |         | < 0.50  | < 0.50  | < 0.50  | 0.84    | < 0.50  | < 0.50  | < 0.50  | < 0.50  |
| Mercury (Dissolved)            | U                    | 1450 | µg/l  | 0.50   | < 0.50  |         |         |         |         |         |         |         |         |
| Nickel (Dissolved)             | U                    | 1450 | µg/l  | 1.0    |         | 1.9     | 2.0     | < 1.0   | 5.6     | 11      | 7.9     | 6.9     | 16      |
| Lead (Dissolved)               | U                    | 1450 | µg/l  | 1.0    |         | < 1.0   | < 1.0   | < 1.0   | < 1.0   | < 1.0   | < 1.0   | < 1.0   | 1.5     |
| Lead (Dissolved)               | U                    | 1450 | µg/l  | 1.0    | < 1.0   |         |         |         |         |         |         |         |         |
| Selenium (Dissolved)           | U                    | 1450 | µg/l  | 1.0    |         | 9.3     | 8.3     | 5.3     | 11      | 7.6     | 5.1     | 4.5     | 7.5     |
| Zinc (Dissolved)               | U                    | 1450 | µg/l  | 1.0    |         | < 1.0   | < 1.0   | < 1.0   | < 1.0   | < 1.0   | < 1.0   | < 1.0   | 1.4     |
| Total Of 17 PAH's              | N                    | 1700 | µg/l  | 2.0    |         | < 2.0   | < 2.0   | < 2.0   | < 2.0   | < 2.0   | < 2.0   | < 2.0   | < 2.0   |
| Tributyl Tin                   | N                    | 1730 | µg/l  | 0.001  |         | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| Tributyl Tin                   | N                    | 1730 | µg/l  | 0.0500 | < 0.050 |         |         |         |         |         |         |         |         |



**Appendix 3-B**

**Leachate - Contamination for Mercury Lead and TBT 2016**

**Project: C6023 Bantry Inner Harbour Development**

| <b>Client: BAM Contractors</b> | <b>Chemtest Job No.:</b> 16-27887  |      |       |       |         |
|--------------------------------|------------------------------------|------|-------|-------|---------|
| Quotation No.: Q16-07624       | <b>Chemtest Sample ID.:</b> 378992 |      |       |       |         |
| Order No.: C6023 - 0032        | Client Sample Ref.: D28            |      |       |       |         |
|                                | Client Sample ID.: 1               |      |       |       |         |
|                                | Sample Type: SOIL                  |      |       |       |         |
|                                | Top Depth (m): 2.5                 |      |       |       |         |
|                                | Date Sampled: 09-Nov-2016          |      |       |       |         |
| Determinand                    | Accred.                            | SOP  | Units | LOD   |         |
| Mercury (Dissolved)            | U                                  | 1450 | µg/l  | 0.50  | < 0.50  |
| Lead (Dissolved)               | U                                  | 1450 | µg/l  | 1.0   | < 1.0   |
| Tributyl Tin                   | N                                  | 1730 | µg/l  | 0.001 | < 0.001 |

**Project: C6023 - Bantry Inner Harbour Development**

| <b>Client: BAM Contractors</b> | <b>Chemtest Job No.:</b> 16-29645  |            |              |            |         |
|--------------------------------|------------------------------------|------------|--------------|------------|---------|
| Quotation No.: Q16-07624       | <b>Chemtest Sample ID.:</b> 386356 |            |              |            |         |
| Order No.: C6023 - 0032        | Client Sample Ref.: D26(CG)-1      |            |              |            |         |
|                                | Client Sample ID.: 1               |            |              |            |         |
|                                | Sample Type: SOIL                  |            |              |            |         |
|                                | Top Depth (m): 2.50                |            |              |            |         |
|                                | Date Sampled: 01-Dec-2016          |            |              |            |         |
| <b>Determinand</b>             | <b>Accred.</b>                     | <b>SOP</b> | <b>Units</b> | <b>LOD</b> |         |
| Mercury (Dissolved)            | U                                  | 1450       | µg/l         | 0.50       | < 0.50  |
| Lead (Dissolved)               | U                                  | 1450       | µg/l         | 1.0        | < 1.0   |
| Tributyl Tin                   | N                                  | 1730       | µg/l         | 0.001      | < 0.001 |

**Project: C6023 0032 - Bantry Inner Harbour Development**

| <b>Client: BAM Contractors</b> | <b>Chemtest Job No.:</b> 16-30453  |            |              |            |         |
|--------------------------------|------------------------------------|------------|--------------|------------|---------|
| Quotation No.: Q16-07624       | <b>Chemtest Sample ID.:</b> 390084 |            |              |            |         |
| Order No.: C6023               | Client Sample Ref.: D34/D22        |            |              |            |         |
|                                | Client Sample ID.: Ref. No. 1      |            |              |            |         |
|                                | Sample Type: SOIL                  |            |              |            |         |
|                                | Date Sampled: 05-Dec-2016          |            |              |            |         |
| <b>Determinand</b>             | <b>Accred.</b>                     | <b>SOP</b> | <b>Units</b> | <b>LOD</b> |         |
| Mercury (Dissolved)            | U                                  | 1450       | µg/l         | 0.50       | 0.56    |
| Lead (Dissolved)               | U                                  | 1450       | µg/l         | 1.0        | 1.5     |
| Tributyl Tin                   | N                                  | 1730       | µg/l         | 0.0500     | < 0.050 |

**Project: C6023 Bantry Inner Harbour Development**

| <b>Client: BAM Contractors</b> | <b>Chemtest Job No.:</b> 16-30329  |      |       |       |         |
|--------------------------------|------------------------------------|------|-------|-------|---------|
| Quotation No.: Q16-07624       | <b>Chemtest Sample ID.:</b> 389284 |      |       |       |         |
| Order No.: C6023-0032          | Client Sample Ref.: D22/D34        |      |       |       |         |
|                                | Client Sample ID.: REF NO 1        |      |       |       |         |
|                                | Sample Type: SOIL                  |      |       |       |         |
|                                | Date Sampled: 08-Dec-2016          |      |       |       |         |
| Determinand                    | Accred.                            | SOP  | Units | LOD   |         |
| Mercury (Dissolved)            | U                                  | 1450 | µg/l  | 0.50  | 0.50    |
| Lead (Dissolved)               | U                                  | 1450 | µg/l  | 1.0   | < 1.0   |
| Tributyl Tin                   | N                                  | 1730 | µg/l  | 0.001 | < 0.001 |

**Project: C6023 - Bantry Inner Harbour Development**

|                                |                             |            |              |            |             |             |             |
|--------------------------------|-----------------------------|------------|--------------|------------|-------------|-------------|-------------|
| <b>Client: BAM Contractors</b> | <b>Chemtest Job No.:</b>    |            |              |            | 16-31004    | 16-31004    | 16-31004    |
| Quotation No.: Q16-07624       | <b>Chemtest Sample ID.:</b> |            |              |            | 392505      | 392506      | 392507      |
| Order No.: C6023 - 0032        | Client Sample Ref.:         |            |              |            | D37/D38     | D26/D35     | D23         |
|                                | Client Sample ID.:          |            |              |            | DR1         | DR1         | DR1         |
|                                | Sample Type:                |            |              |            | SOIL        | SOIL        | SOIL        |
|                                | Date Sampled:               |            |              |            | 10-Dec-2016 | 12-Dec-2016 | 15-Dec-2016 |
| <b>Determinand</b>             | <b>Accred.</b>              | <b>SOP</b> | <b>Units</b> | <b>LOD</b> |             |             |             |
| Mercury (Dissolved)            | U                           | 1450       | µg/l         | 0.50       | 5.7         | 1.7         | 1.2         |
| Lead (Dissolved)               | U                           | 1450       | µg/l         | 1.0        | < 1.0       | < 1.0       | < 1.0       |
| Tributyl Tin                   | N                           | 1730       | µg/l         | 0.001      | < 0.001     | < 0.001     | < 0.001     |

## **Appendix 4**

### **Dredged Sediment Results – 2 Stage WAC 2016**

**Project: C6023 - Bantry Inner Harbor Development**

| Chemtest Job No: 16-30027    |      |         |           |           |          |          | Landfill Waste Acceptance Criteria |                                                                |                          |                                                                              |   |    |
|------------------------------|------|---------|-----------|-----------|----------|----------|------------------------------------|----------------------------------------------------------------|--------------------------|------------------------------------------------------------------------------|---|----|
| Chemtest Sample ID: 388018   |      |         |           |           |          |          | Limits                             |                                                                |                          |                                                                              |   |    |
| Sample Ref: WAC 1            |      |         |           |           |          |          | Inert Waste Landfill               | Stable, Non-reactive hazardous waste in non-hazardous Landfill | Hazardous Waste Landfill |                                                                              |   |    |
| Sample ID: WAC 1             |      |         |           |           |          |          |                                    |                                                                |                          |                                                                              |   |    |
| Top Depth(m):                |      |         |           |           |          |          |                                    |                                                                |                          |                                                                              |   |    |
| Bottom Depth(m):             |      |         |           |           |          |          |                                    |                                                                |                          |                                                                              |   |    |
| Sampling Date: 29-Nov-2016   |      |         |           |           |          |          |                                    |                                                                |                          |                                                                              |   |    |
| Determinand                  | SOP  | Accred. | Units     |           |          |          |                                    |                                                                |                          |                                                                              |   |    |
| Total Organic Carbon         | 2625 | U       | %         |           |          |          | 1.2                                | 3                                                              | 5                        | 6                                                                            |   |    |
| Loss On Ignition             | 2610 | U       | %         |           |          |          | 3.3                                | --                                                             | --                       | 10                                                                           |   |    |
| Total BTEX                   | 2760 | U       | mg/kg     |           |          |          | < 0.010                            | 6                                                              | --                       | --                                                                           |   |    |
| Total PCBs (7 Congeners)     | 2815 | U       | mg/kg     |           |          |          | < 0.10                             | 1                                                              | --                       | --                                                                           |   |    |
| TPH Total WAC (Mineral Oil)  | 2670 | U       | mg/kg     |           |          |          | 11                                 | 500                                                            | --                       | --                                                                           |   |    |
| Total (Of 17) PAH's          | 2700 | N       | mg/kg     |           |          |          | 26                                 | 100                                                            | --                       | --                                                                           |   |    |
| pH                           | 2010 | U       |           |           |          |          | 8.6                                | --                                                             | >6                       | --                                                                           |   |    |
| Acid Neutralisation Capacity | 2015 | N       | mol/kg    |           |          |          | 0.045                              | --                                                             | To evaluate              | To evaluate                                                                  |   |    |
| Eluate Analysis              |      |         | 2:1 mg/l  |           |          |          | 8:1 mg/l                           | 2:1 mg/kg                                                      | Cumulative mg/kg 10:1    | Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg |   |    |
| Arsenic                      | 1450 | U       | < 0.0010  |           |          |          | 0.0050                             | < 0.050                                                        | < 0.050                  | 0.5                                                                          | 2 | 25 |
| Barium                       | 1450 | U       | 0.0096    | 0.015     | < 0.50   | < 0.50   | 20                                 | 100                                                            | 300                      |                                                                              |   |    |
| Cadmium                      | 1450 | U       | < 0.00010 | < 0.00010 | < 0.010  | < 0.010  | 0.04                               | 1                                                              | 5                        |                                                                              |   |    |
| Chromium                     | 1450 | U       | < 0.0010  | 0.0065    | < 0.050  | 0.055    | 0.5                                | 10                                                             | 70                       |                                                                              |   |    |
| Copper                       | 1450 | U       | 0.0021    | 0.0061    | < 0.050  | < 0.050  | 2                                  | 50                                                             | 100                      |                                                                              |   |    |
| Mercury                      | 1450 | U       | < 0.00050 | < 0.00050 | < 0.0010 | < 0.0050 | 0.01                               | 0.2                                                            | 2                        |                                                                              |   |    |
| Molybdenum                   | 1450 | U       | 0.0018    | 0.011     | < 0.050  | 0.096    | 0.5                                | 10                                                             | 30                       |                                                                              |   |    |
| Nickel                       | 1450 | U       | < 0.0010  | < 0.0010  | < 0.050  | < 0.050  | 0.4                                | 10                                                             | 40                       |                                                                              |   |    |
| Lead                         | 1450 | U       | < 0.0010  | < 0.0010  | < 0.010  | < 0.010  | 0.5                                | 10                                                             | 50                       |                                                                              |   |    |
| Antimony                     | 1450 | U       | < 0.0010  | < 0.0010  | < 0.010  | < 0.010  | 0.06                               | 0.7                                                            | 5                        |                                                                              |   |    |
| Selenium                     | 1450 | U       | < 0.0010  | 0.016     | < 0.010  | 0.14     | 0.1                                | 0.5                                                            | 7                        |                                                                              |   |    |
| Zinc                         | 1450 | U       | < 0.0010  | 0.0081    | < 0.50   | < 0.50   | 4                                  | 50                                                             | 200                      |                                                                              |   |    |
| Chloride                     | 1220 | U       | 2000      | 430       | 4000     | 6600     | 800                                | 15000                                                          | 25000                    |                                                                              |   |    |
| Fluoride                     | 1220 | U       | 0.28      | 0.45      | < 1.0    | 4.2      | 10                                 | 150                                                            | 500                      |                                                                              |   |    |
| Sulphate                     | 1220 | U       | 280       | 100       | 550      | 1300     | 1000                               | 20000                                                          | 50000                    |                                                                              |   |    |
| Total Dissolved Solids       | 1020 | N       | 3800      | 1000      | 7400     | 14000    | 4000                               | 60000                                                          | 100000                   |                                                                              |   |    |
| Phenol Index                 | 1920 | U       | < 0.030   | < 0.030   | < 0.30   | < 0.50   | 1                                  | -                                                              | -                        |                                                                              |   |    |
| Dissolved Organic Carbon     | 1610 | U       | 13        | 12        | < 50     | 120      | 500                                | 800                                                            | 1000                     |                                                                              |   |    |

**Soild Information**

|                             |       |
|-----------------------------|-------|
| Dry mass of test portion/kg | 0.175 |
| Moisture (%)                | 21    |

**Leachate Test Information**

|                                     |       |
|-------------------------------------|-------|
| Leachant volume 1st extract/l       | 0.304 |
| Leachant volume 2nd extract/l       | 1.400 |
| Eluant recovered from 1st extract/l | 0.247 |



## Results - 2 Stage WAC

**Project: C6023 Bantry Inner Harbour Development**

| Chemtest Job No: 16-30333    |      |         |          |           |          |           | Landfill Waste Acceptance Criteria Limits |                                                                              |                          |  |
|------------------------------|------|---------|----------|-----------|----------|-----------|-------------------------------------------|------------------------------------------------------------------------------|--------------------------|--|
| Chemtest Sample ID: 389345   |      |         |          |           |          |           | Inert Waste Landfill                      | Stable, Non-reactive hazardous waste in non-hazardous Landfill               | Hazardous Waste Landfill |  |
| Sample Ref: D7               |      |         |          |           |          |           |                                           |                                                                              |                          |  |
| Sample ID: REF NO 1-3        |      |         |          |           |          |           |                                           |                                                                              |                          |  |
| Top Depth(m):                |      |         |          |           |          |           |                                           |                                                                              |                          |  |
| Bottom Depth(m):             |      |         |          |           |          |           |                                           |                                                                              |                          |  |
| Sampling Date: 08-Dec-2016   |      |         |          |           |          |           |                                           |                                                                              |                          |  |
| Determinand                  | SOP  | Accred. | Units    |           |          |           |                                           |                                                                              |                          |  |
| Total Organic Carbon         | 2625 | U       | %        |           |          |           | 2.2                                       | 3                                                                            | 5                        |  |
| Loss On Ignition             | 2610 | U       | %        |           |          |           | 4.3                                       | --                                                                           | 10                       |  |
| Total BTEX                   | 2760 | U       | mg/kg    |           |          |           | < 0.010                                   | 6                                                                            | --                       |  |
| Total PCBs (7 Congeners)     | 2815 | U       | mg/kg    |           |          |           | < 0.10                                    | 1                                                                            | --                       |  |
| TPH Total WAC (Mineral Oil)  | 2670 | U       | mg/kg    |           |          |           | < 10                                      | 500                                                                          | --                       |  |
| Total (Of 17) PAH's          | 2700 | N       | mg/kg    |           |          |           | 11                                        | 100                                                                          | --                       |  |
| pH                           | 2010 | U       |          |           |          |           | 8.5                                       | --                                                                           | >6                       |  |
| Acid Neutralisation Capacity | 2015 | N       | mol/kg   |           |          |           | 0.040                                     | --                                                                           | To evaluate              |  |
| Eluate Analysis              |      |         |          | 2:1 mg/l  | 8:1 mg/l | 2:1 mg/kg | Cumulative mg/kg 10:1                     | Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg |                          |  |
| Arsenic                      | 1450 | U       | 0.0092   | 0.0038    | < 0.050  | < 0.050   | 0.5                                       | 2                                                                            | 25                       |  |
| Barium                       | 1450 | U       | 0.026    | 0.011     | < 0.50   | < 0.50    | 20                                        | 100                                                                          | 300                      |  |
| Cadmium                      | 1450 | U       | 0.00020  | < 0.00010 | < 0.010  | < 0.010   | 0.04                                      | 1                                                                            | 5                        |  |
| Chromium                     | 1450 | U       | 0.034    | 0.031     | 0.066    | 0.31      | 0.5                                       | 10                                                                           | 70                       |  |
| Copper                       | 1450 | U       | 0.017    | 0.0031    | < 0.050  | < 0.050   | 2                                         | 50                                                                           | 100                      |  |
| Mercury                      | 1450 | U       | 0.00089  | < 0.00050 | 0.0017   | < 0.0050  | 0.01                                      | 0.2                                                                          | 2                        |  |
| Molybdenum                   | 1450 | U       | 0.11     | 0.034     | 0.21     | 0.42      | 0.5                                       | 10                                                                           | 30                       |  |
| Nickel                       | 1450 | U       | 0.0014   | < 0.0010  | < 0.050  | < 0.050   | 0.4                                       | 10                                                                           | 40                       |  |
| Lead                         | 1450 | U       | < 0.0010 | < 0.0010  | < 0.010  | < 0.010   | 0.5                                       | 10                                                                           | 50                       |  |
| Antimony                     | 1450 | U       | 0.0019   | 0.0012    | < 0.010  | 0.013     | 0.06                                      | 0.7                                                                          | 5                        |  |
| Selenium                     | 1450 | U       | 0.018    | 0.0032    | 0.035    | 0.049     | 0.1                                       | 0.5                                                                          | 7                        |  |
| Zinc                         | 1450 | U       | 0.017    | 0.0054    | < 0.50   | < 0.50    | 4                                         | 50                                                                           | 200                      |  |
| Chloride                     | 1220 | U       | 2700     | 380       | 5200     | 6400      | 800                                       | 15000                                                                        | 25000                    |  |
| Fluoride                     | 1220 | U       | 0.91     | 0.51      | 1.8      | 5.5       | 10                                        | 150                                                                          | 500                      |  |
| Sulphate                     | 1220 | U       | 500      | 81        | 970      | 1300      | 1000                                      | 20000                                                                        | 50000                    |  |
| Total Dissolved Solids       | 1020 | N       | 5500     | 730       | 11000    | 13000     | 4000                                      | 60000                                                                        | 100000                   |  |
| Phenol Index                 | 1920 | U       | < 0.030  | < 0.030   | < 0.30   | < 0.50    | 1                                         | -                                                                            | -                        |  |
| Dissolved Organic Carbon     | 1610 | U       | 8.2      | 5.9       | < 50     | 61        | 500                                       | 800                                                                          | 1000                     |  |

| Soild Information           |       |
|-----------------------------|-------|
| Dry mass of test portion/kg | 0.175 |
| Moisture (%)                | 23    |

| Leachate Test Information           |       |
|-------------------------------------|-------|
| Leachant volume 1st extract/l       | 0.299 |
| Leachant volume 2nd extract/l       | 1.400 |
| Eluant recovered from 1st extract/l | 0.199 |

## Results - 2 Stage WAC

**Project: C6023 0032 - Bantry Inner Harbour Development**

| Chemtest Job No: 16-30655    |      |         |           |           |          |           | Landfill Waste Acceptance Criteria Limits |                                                                              |                          |             |
|------------------------------|------|---------|-----------|-----------|----------|-----------|-------------------------------------------|------------------------------------------------------------------------------|--------------------------|-------------|
| Chemtest Sample ID: 390083   |      |         |           |           |          |           | Inert Waste Landfill                      | Stable, Non-reactive hazardous waste in non-hazardous Landfill               | Hazardous Waste Landfill |             |
| Sample Ref: D16              |      |         |           |           |          |           |                                           |                                                                              |                          |             |
| Sample ID: Ref. No. 1-3      |      |         |           |           |          |           |                                           |                                                                              |                          |             |
| Top Depth(m):                |      |         |           |           |          |           |                                           |                                                                              |                          |             |
| Bottom Depth(m):             |      |         |           |           |          |           |                                           |                                                                              |                          |             |
| Sampling Date: 07-Dec-2016   |      |         |           |           |          |           |                                           |                                                                              |                          |             |
| Determinand                  | SOP  | Accred. | Units     |           |          |           |                                           |                                                                              |                          |             |
| Total Organic Carbon         | 2625 | U       | %         |           |          |           | 2.9                                       | 3                                                                            | 5                        | 6           |
| Loss On Ignition             | 2610 | U       | %         |           |          |           | 3.9                                       | --                                                                           | --                       | 10          |
| Total BTEX                   | 2760 | U       | mg/kg     |           |          |           | < 0.010                                   | 6                                                                            | --                       | --          |
| Total PCBs (7 Congeners)     | 2815 | U       | mg/kg     |           |          |           | < 0.10                                    | 1                                                                            | --                       | --          |
| TPH Total WAC (Mineral Oil)  | 2670 | U       | mg/kg     |           |          |           | < 10                                      | 500                                                                          | --                       | --          |
| Total (Of 17) PAH's          | 2700 | N       | mg/kg     |           |          |           | 7.3                                       | 100                                                                          | --                       | --          |
| pH                           | 2010 | U       |           |           |          |           | 8.3                                       | --                                                                           | >6                       | --          |
| Acid Neutralisation Capacity | 2015 | N       | mol/kg    |           |          |           | 0.043                                     | --                                                                           | To evaluate              | To evaluate |
| Eluate Analysis              |      |         |           | 2:1 mg/l  | 8:1 mg/l | 2:1 mg/kg | Cumulative mg/kg 10:1                     | Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg |                          |             |
| Arsenic                      | 1450 | U       | 0.0053    | 0.0018    | < 0.050  | < 0.050   | 0.5                                       | 2                                                                            | 25                       |             |
| Barium                       | 1450 | U       | 0.020     | 0.014     | < 0.50   | < 0.50    | 20                                        | 100                                                                          | 300                      |             |
| Cadmium                      | 1450 | U       | < 0.00010 | < 0.00010 | < 0.010  | < 0.010   | 0.04                                      | 1                                                                            | 5                        |             |
| Chromium                     | 1450 | U       | 0.0076    | < 0.0010  | < 0.050  | < 0.050   | 0.5                                       | 10                                                                           | 70                       |             |
| Copper                       | 1450 | U       | 0.020     | 0.0041    | < 0.050  | < 0.050   | 2                                         | 50                                                                           | 100                      |             |
| Mercury                      | 1450 | U       | < 0.00050 | < 0.00050 | < 0.0010 | < 0.0050  | 0.01                                      | 0.2                                                                          | 2                        |             |
| Molybdenum                   | 1450 | U       | 0.032     | 0.014     | 0.061    | 0.16      | 0.5                                       | 10                                                                           | 30                       |             |
| Nickel                       | 1450 | U       | < 0.0010  | < 0.0010  | < 0.050  | < 0.050   | 0.4                                       | 10                                                                           | 40                       |             |
| Lead                         | 1450 | U       | < 0.0010  | < 0.0010  | < 0.010  | < 0.010   | 0.5                                       | 10                                                                           | 50                       |             |
| Antimony                     | 1450 | U       | 0.0029    | 0.0027    | < 0.010  | 0.027     | 0.06                                      | 0.7                                                                          | 5                        |             |
| Selenium                     | 1450 | U       | 0.011     | 0.0011    | 0.021    | 0.023     | 0.1                                       | 0.5                                                                          | 7                        |             |
| Zinc                         | 1450 | U       | 0.013     | 0.0046    | < 0.50   | < 0.50    | 4                                         | 50                                                                           | 200                      |             |
| Chloride                     | 1220 | U       | 1900      | 200       | 3600     | 4100      | 800                                       | 15000                                                                        | 25000                    |             |
| Fluoride                     | 1220 | U       | 0.89      | 0.57      | 1.7      | 6.1       | 10                                        | 150                                                                          | 500                      |             |
| Sulphate                     | 1220 | U       | 420       | 56        | 800      | 1000      | 1000                                      | 20000                                                                        | 50000                    |             |
| Total Dissolved Solids       | 1020 | N       | 3800      | 440       | 7200     | 8600      | 4000                                      | 60000                                                                        | 100000                   |             |
| Phenol Index                 | 1920 | U       | < 0.030   | < 0.030   | < 0.30   | < 0.50    | 1                                         | -                                                                            | -                        |             |
| Dissolved Organic Carbon     | 1610 | U       | 7.2       | 5.8       | < 50     | 59        | 500                                       | 800                                                                          | 1000                     |             |

| Soild Information           |       |
|-----------------------------|-------|
| Dry mass of test portion/kg | 0.175 |
| Moisture (%)                | 27    |

| Leachate Test Information           |       |
|-------------------------------------|-------|
| Leachant volume 1st extract/l       | 0.287 |
| Leachant volume 2nd extract/l       | 1.400 |
| Eluant recovered from 1st extract/l | 0.222 |

**Project: C6023 - Bantry Inner Harbour Development**

| Chemtest Job No: 16-30955    |      |         |          |           |           |                       | Landfill Waste Acceptance Criteria                                           |                                                                |                          |             |
|------------------------------|------|---------|----------|-----------|-----------|-----------------------|------------------------------------------------------------------------------|----------------------------------------------------------------|--------------------------|-------------|
| Chemtest Sample ID: 392216   |      |         |          |           |           |                       | Limits                                                                       |                                                                |                          |             |
| Sample Ref: D4/D6            |      |         |          |           |           |                       | Inert Waste Landfill                                                         | Stable, Non-reactive hazardous waste in non-hazardous Landfill | Hazardous Waste Landfill |             |
| Sample ID: WAC 1             |      |         |          |           |           |                       |                                                                              |                                                                |                          |             |
| Top Depth(m):                |      |         |          |           |           |                       |                                                                              |                                                                |                          |             |
| Bottom Depth(m):             |      |         |          |           |           |                       |                                                                              |                                                                |                          |             |
| Sampling Date: 12-Dec-2016   |      |         |          |           |           |                       |                                                                              |                                                                |                          |             |
| Determinand                  | SOP  | Accred. | Units    |           |           |                       |                                                                              |                                                                |                          |             |
| Total Organic Carbon         | 2625 | U       | %        |           |           |                       | 1.4                                                                          | 3                                                              | 5                        | 6           |
| Loss On Ignition             | 2610 | U       | %        |           |           |                       | 2.8                                                                          | --                                                             | --                       | 10          |
| Total BTEX                   | 2760 | U       | mg/kg    |           |           |                       | < 0.010                                                                      | 6                                                              | --                       | --          |
| Total PCBs (7 Congeners)     | 2815 | U       | mg/kg    |           |           |                       | < 0.10                                                                       | 1                                                              | --                       | --          |
| TPH Total WAC (Mineral Oil)  | 2670 | U       | mg/kg    |           |           |                       | < 10                                                                         | 500                                                            | --                       | --          |
| Total (Of 17) PAH's          | 2700 | N       | mg/kg    |           |           |                       | 3.4                                                                          | 100                                                            | --                       | --          |
| pH                           | 2010 | U       |          |           |           |                       | 8.3                                                                          | --                                                             | >6                       | --          |
| Acid Neutralisation Capacity | 2015 | N       | mol/kg   |           |           |                       | 0.054                                                                        | --                                                             | To evaluate              | To evaluate |
| Eluate Analysis              |      |         | 2:1 mg/l | 8:1 mg/l  | 2:1 mg/kg | Cumulative mg/kg 10:1 | Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg |                                                                |                          |             |
| Arsenic                      | 1450 | U       | 0.011    | 0.0034    | < 0.050   | < 0.050               | 0.5                                                                          | 2                                                              | 25                       |             |
| Barium                       | 1450 | U       | 0.030    | 0.019     | < 0.50    | < 0.50                | 20                                                                           | 100                                                            | 300                      |             |
| Cadmium                      | 1450 | U       | 0.00043  | < 0.00010 | < 0.010   | < 0.010               | 0.04                                                                         | 1                                                              | 5                        |             |
| Chromium                     | 1450 | U       | 0.036    | 0.015     | 0.069     | 0.17                  | 0.5                                                                          | 10                                                             | 70                       |             |
| Copper                       | 1450 | U       | 0.028    | 0.033     | 0.054     | < 0.050               | 2                                                                            | 50                                                             | 100                      |             |
| Mercury                      | 1450 | U       | 0.00077  | < 0.00050 | 0.0015    | < 0.0050              | 0.01                                                                         | 0.2                                                            | 2                        |             |
| Molybdenum                   | 1450 | U       | 0.073    | 0.027     | 0.14      | 0.32                  | 0.5                                                                          | 10                                                             | 30                       |             |
| Nickel                       | 1450 | U       | 0.0016   | < 0.0010  | < 0.050   | < 0.050               | 0.4                                                                          | 10                                                             | 40                       |             |
| Lead                         | 1450 | U       | 0.0054   | < 0.0010  | 0.010     | < 0.010               | 0.5                                                                          | 10                                                             | 50                       |             |
| Antimony                     | 1450 | U       | 0.0026   | 0.0013    | < 0.010   | 0.014                 | 0.06                                                                         | 0.7                                                            | 5                        |             |
| Selenium                     | 1450 | U       | 0.023    | 0.0044    | 0.044     | 0.065                 | 0.1                                                                          | 0.5                                                            | 7                        |             |
| Zinc                         | 1450 | U       | 0.019    | 0.0088    | < 0.50    | < 0.50                | 4                                                                            | 50                                                             | 200                      |             |
| Chloride                     | 1220 | U       | 2500     | 240       | 4800      | 5000                  | 800                                                                          | 15000                                                          | 25000                    |             |
| Fluoride                     | 1220 | U       | 0.96     | 0.54      | 1.8       | 5.8                   | 10                                                                           | 150                                                            | 500                      |             |
| Sulphate                     | 1220 | U       | 440      | 53        | 830       | 960                   | 1000                                                                         | 20000                                                          | 50000                    |             |
| Total Dissolved Solids       | 1020 | N       | 4700     | 520       | 9000      | 9900                  | 4000                                                                         | 60000                                                          | 100000                   |             |
| Phenol Index                 | 1920 | U       | < 0.030  | < 0.030   | < 0.30    | < 0.50                | 1                                                                            | -                                                              | -                        |             |
| Dissolved Organic Carbon     | 1610 | U       | 14       | 8.7       | < 50      | 92                    | 500                                                                          | 800                                                            | 1000                     |             |

**Soild Information**

|                             |       |
|-----------------------------|-------|
| Dry mass of test portion/kg | 0.175 |
| Moisture (%)                | 25    |

**Leachate Test Information**

|                                     |       |
|-------------------------------------|-------|
| Leachant volume 1st extract/l       | 0.292 |
| Leachant volume 2nd extract/l       | 1.400 |
| Eluant recovered from 1st extract/l | 0.199 |

**Project: C6023 - Bantry Inner Harbour Development**

| Chemtest Job No: 16-30955    |      |         |           |           |           |                       | Landfill Waste Acceptance Criteria                                           |                                                                |                          |             |
|------------------------------|------|---------|-----------|-----------|-----------|-----------------------|------------------------------------------------------------------------------|----------------------------------------------------------------|--------------------------|-------------|
| Chemtest Sample ID: 392217   |      |         |           |           |           |                       | Limits                                                                       |                                                                |                          |             |
| Sample Ref: D17              |      |         |           |           |           |                       | Inert Waste Landfill                                                         | Stable, Non-reactive hazardous waste in non-hazardous Landfill | Hazardous Waste Landfill |             |
| Sample ID: WAC 1             |      |         |           |           |           |                       |                                                                              |                                                                |                          |             |
| Top Depth(m):                |      |         |           |           |           |                       |                                                                              |                                                                |                          |             |
| Bottom Depth(m):             |      |         |           |           |           |                       |                                                                              |                                                                |                          |             |
| Sampling Date: 14-Dec-2016   |      |         |           |           |           |                       |                                                                              |                                                                |                          |             |
| Determinand                  | SOP  | Accred. | Units     |           |           |                       |                                                                              |                                                                |                          |             |
| Total Organic Carbon         | 2625 | U       | %         |           |           |                       | 1.1                                                                          | 3                                                              | 5                        | 6           |
| Loss On Ignition             | 2610 | U       | %         |           |           |                       | 2.0                                                                          | --                                                             | --                       | 10          |
| Total BTEX                   | 2760 | U       | mg/kg     |           |           |                       | < 0.010                                                                      | 6                                                              | --                       | --          |
| Total PCBs (7 Congeners)     | 2815 | U       | mg/kg     |           |           |                       | < 0.10                                                                       | 1                                                              | --                       | --          |
| TPH Total WAC (Mineral Oil)  | 2670 | U       | mg/kg     |           |           |                       | < 10                                                                         | 500                                                            | --                       | --          |
| Total (Of 17) PAH's          | 2700 | N       | mg/kg     |           |           |                       | 28                                                                           | 100                                                            | --                       | --          |
| pH                           | 2010 | U       |           |           |           |                       | 8.4                                                                          | --                                                             | >6                       | --          |
| Acid Neutralisation Capacity | 2015 | N       | mol/kg    |           |           |                       | 0.027                                                                        | --                                                             | To evaluate              | To evaluate |
| Eluate Analysis              |      |         | 2:1 mg/l  | 8:1 mg/l  | 2:1 mg/kg | Cumulative mg/kg 10:1 | Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg |                                                                |                          |             |
| Arsenic                      | 1450 | U       | 0.011     | 0.0050    | < 0.050   | 0.057                 | 0.5                                                                          | 2                                                              | 25                       |             |
| Barium                       | 1450 | U       | 0.022     | 0.011     | < 0.50    | < 0.50                | 20                                                                           | 100                                                            | 300                      |             |
| Cadmium                      | 1450 | U       | 0.00022   | < 0.00010 | < 0.010   | < 0.010               | 0.04                                                                         | 1                                                              | 5                        |             |
| Chromium                     | 1450 | U       | 0.039     | 0.013     | 0.076     | 0.16                  | 0.5                                                                          | 10                                                             | 70                       |             |
| Copper                       | 1450 | U       | 0.12      | 0.0092    | 0.24      | 0.14                  | 2                                                                            | 50                                                             | 100                      |             |
| Mercury                      | 1450 | U       | < 0.00050 | < 0.00050 | < 0.0010  | < 0.0050              | 0.01                                                                         | 0.2                                                            | 2                        |             |
| Molybdenum                   | 1450 | U       | 0.12      | 0.026     | 0.24      | 0.37                  | 0.5                                                                          | 10                                                             | 30                       |             |
| Nickel                       | 1450 | U       | 0.0014    | < 0.0010  | < 0.050   | < 0.050               | 0.4                                                                          | 10                                                             | 40                       |             |
| Lead                         | 1450 | U       | < 0.0010  | < 0.0010  | < 0.010   | < 0.010               | 0.5                                                                          | 10                                                             | 50                       |             |
| Antimony                     | 1450 | U       | 0.0036    | 0.0019    | < 0.010   | 0.021                 | 0.06                                                                         | 0.7                                                            | 5                        |             |
| Selenium                     | 1450 | U       | 0.017     | 0.0021    | 0.033     | 0.038                 | 0.1                                                                          | 0.5                                                            | 7                        |             |
| Zinc                         | 1450 | U       | 0.020     | 0.0070    | < 0.50    | < 0.50                | 4                                                                            | 50                                                             | 200                      |             |
| Chloride                     | 1220 | U       | 2400      | 220       | 4600      | 4600                  | 800                                                                          | 15000                                                          | 25000                    |             |
| Fluoride                     | 1220 | U       | 1.3       | 0.46      | 2.5       | 5.5                   | 10                                                                           | 150                                                            | 500                      |             |
| Sulphate                     | 1220 | U       | 420       | 50        | 820       | 920                   | 1000                                                                         | 20000                                                          | 50000                    |             |
| Total Dissolved Solids       | 1020 | N       | 4300      | 470       | 8500      | 9100                  | 4000                                                                         | 60000                                                          | 100000                   |             |
| Phenol Index                 | 1920 | U       | < 0.030   | < 0.030   | < 0.30    | < 0.50                | 1                                                                            | -                                                              | -                        |             |
| Dissolved Organic Carbon     | 1610 | U       | 12        | 8.6       | < 50      | 90                    | 500                                                                          | 800                                                            | 1000                     |             |

**Soild Information**

|                             |       |
|-----------------------------|-------|
| Dry mass of test portion/kg | 0.175 |
| Moisture (%)                | 19    |

**Leachate Test Information**

|                                     |       |
|-------------------------------------|-------|
| Leachant volume 1st extract/l       | 0.309 |
| Leachant volume 2nd extract/l       | 1.400 |
| Eluant recovered from 1st extract/l | 0.200 |

**Project: C6023 - Bantry Inner Harbour Development**

| Chemtest Job No: 16-30955    |      |         |           |           |           |                       | Landfill Waste Acceptance Criteria                                           |                                                                |                          |             |
|------------------------------|------|---------|-----------|-----------|-----------|-----------------------|------------------------------------------------------------------------------|----------------------------------------------------------------|--------------------------|-------------|
| Chemtest Sample ID: 392218   |      |         |           |           |           |                       | Limits                                                                       |                                                                |                          |             |
| Sample Ref: D15              |      |         |           |           |           |                       | Inert Waste Landfill                                                         | Stable, Non-reactive hazardous waste in non-hazardous Landfill | Hazardous Waste Landfill |             |
| Sample ID: WAC 1             |      |         |           |           |           |                       |                                                                              |                                                                |                          |             |
| Top Depth(m):                |      |         |           |           |           |                       |                                                                              |                                                                |                          |             |
| Bottom Depth(m):             |      |         |           |           |           |                       |                                                                              |                                                                |                          |             |
| Sampling Date: 15-Dec-2016   |      |         |           |           |           |                       |                                                                              |                                                                |                          |             |
| Determinand                  | SOP  | Accred. | Units     |           |           |                       |                                                                              |                                                                |                          |             |
| Total Organic Carbon         | 2625 | U       | %         |           |           |                       | 0.92                                                                         | 3                                                              | 5                        | 6           |
| Loss On Ignition             | 2610 | U       | %         |           |           |                       | 2.3                                                                          | --                                                             | --                       | 10          |
| Total BTEX                   | 2760 | U       | mg/kg     |           |           |                       | < 0.010                                                                      | 6                                                              | --                       | --          |
| Total PCBs (7 Congeners)     | 2815 | U       | mg/kg     |           |           |                       | < 0.10                                                                       | 1                                                              | --                       | --          |
| TPH Total WAC (Mineral Oil)  | 2670 | U       | mg/kg     |           |           |                       | < 10                                                                         | 500                                                            | --                       | --          |
| Total (Of 17) PAH's          | 2700 | N       | mg/kg     |           |           |                       | < 2.0                                                                        | 100                                                            | --                       | --          |
| pH                           | 2010 | U       |           |           |           |                       | 8.3                                                                          | --                                                             | >6                       | --          |
| Acid Neutralisation Capacity | 2015 | N       | mol/kg    |           |           |                       | 0.024                                                                        | --                                                             | To evaluate              | To evaluate |
| Eluate Analysis              |      |         | 2:1 mg/l  | 8:1 mg/l  | 2:1 mg/kg | Cumulative mg/kg 10:1 | Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg |                                                                |                          |             |
| Arsenic                      | 1450 | U       | 0.0081    | 0.0033    | < 0.050   | < 0.050               | 0.5                                                                          | 2                                                              | 25                       |             |
| Barium                       | 1450 | U       | 0.023     | 0.014     | < 0.50    | < 0.50                | 20                                                                           | 100                                                            | 300                      |             |
| Cadmium                      | 1450 | U       | 0.00014   | < 0.00010 | < 0.010   | < 0.010               | 0.04                                                                         | 1                                                              | 5                        |             |
| Chromium                     | 1450 | U       | 0.029     | 0.012     | 0.056     | 0.14                  | 0.5                                                                          | 10                                                             | 70                       |             |
| Copper                       | 1450 | U       | 0.059     | 0.0070    | 0.12      | 0.067                 | 2                                                                            | 50                                                             | 100                      |             |
| Mercury                      | 1450 | U       | < 0.00050 | < 0.00050 | < 0.0010  | < 0.0050              | 0.01                                                                         | 0.2                                                            | 2                        |             |
| Molybdenum                   | 1450 | U       | 0.073     | 0.023     | 0.14      | 0.29                  | 0.5                                                                          | 10                                                             | 30                       |             |
| Nickel                       | 1450 | U       | 0.0012    | < 0.0010  | < 0.050   | < 0.050               | 0.4                                                                          | 10                                                             | 40                       |             |
| Lead                         | 1450 | U       | < 0.0010  | < 0.0010  | < 0.010   | < 0.010               | 0.5                                                                          | 10                                                             | 50                       |             |
| Antimony                     | 1450 | U       | 0.0016    | 0.0011    | < 0.010   | 0.012                 | 0.06                                                                         | 0.7                                                            | 5                        |             |
| Selenium                     | 1450 | U       | 0.014     | 0.0015    | 0.027     | 0.029                 | 0.1                                                                          | 0.5                                                            | 7                        |             |
| Zinc                         | 1450 | U       | 0.015     | 0.0046    | < 0.50    | < 0.50                | 4                                                                            | 50                                                             | 200                      |             |
| Chloride                     | 1220 | U       | 2000      | 200       | 3800      | 4000                  | 800                                                                          | 15000                                                          | 25000                    |             |
| Fluoride                     | 1220 | U       | 0.67      | 0.40      | 1.3       | 4.3                   | 10                                                                           | 150                                                            | 500                      |             |
| Sulphate                     | 1220 | U       | 340       | 44        | 660       | 780                   | 1000                                                                         | 20000                                                          | 50000                    |             |
| Total Dissolved Solids       | 1020 | N       | 3800      | 430       | 7300      | 8100                  | 4000                                                                         | 60000                                                          | 100000                   |             |
| Phenol Index                 | 1920 | U       | < 0.030   | < 0.030   | < 0.30    | < 0.50                | 1                                                                            | -                                                              | -                        |             |
| Dissolved Organic Carbon     | 1610 | U       | 10        | 8.1       | < 50      | 83                    | 500                                                                          | 800                                                            | 1000                     |             |

**Soild Information**

|                             |       |
|-----------------------------|-------|
| Dry mass of test portion/kg | 0.175 |
| Moisture (%)                | 21    |

**Leachate Test Information**

|                                     |       |
|-------------------------------------|-------|
| Leachant volume 1st extract/l       | 0.303 |
| Leachant volume 2nd extract/l       | 1.400 |
| Eluant recovered from 1st extract/l | 0.200 |

## Results - 2 Stage WAC

**Project: C6023 - Bantry Inner Harbour Development**

| Chemtest Job No: 16-31409    |      |         |          |           |          |           | Landfill Waste Acceptance Criteria Limits |                                                                              |                          |             |
|------------------------------|------|---------|----------|-----------|----------|-----------|-------------------------------------------|------------------------------------------------------------------------------|--------------------------|-------------|
| Chemtest Sample ID: 394655   |      |         |          |           |          |           | Inert Waste Landfill                      | Stable, Non-reactive hazardous waste in non-hazardous Landfill               | Hazardous Waste Landfill |             |
| Sample Ref: D18              |      |         |          |           |          |           |                                           |                                                                              |                          |             |
| Sample ID: WAC1              |      |         |          |           |          |           |                                           |                                                                              |                          |             |
| Top Depth(m):                |      |         |          |           |          |           |                                           |                                                                              |                          |             |
| Bottom Depth(m):             |      |         |          |           |          |           |                                           |                                                                              |                          |             |
| Sampling Date: 16-Dec-2016   |      |         |          |           |          |           |                                           |                                                                              |                          |             |
| Determinand                  | SOP  | Accred. | Units    |           |          |           |                                           |                                                                              |                          |             |
| Total Organic Carbon         | 2625 | U       | %        |           |          |           | 0.53                                      | 3                                                                            | 5                        | 6           |
| Loss On Ignition             | 2610 | U       | %        |           |          |           | 2.7                                       | --                                                                           | --                       | 10          |
| Total BTEX                   | 2760 | U       | mg/kg    |           |          |           | < 0.010                                   | 6                                                                            | --                       | --          |
| Total PCBs (7 Congeners)     | 2815 | U       | mg/kg    |           |          |           | < 0.10                                    | 1                                                                            | --                       | --          |
| TPH Total WAC (Mineral Oil)  | 2670 | U       | mg/kg    |           |          |           | 14                                        | 500                                                                          | --                       | --          |
| Total (Of 17) PAH's          | 2700 | N       | mg/kg    |           |          |           | < 2.0                                     | 100                                                                          | --                       | --          |
| pH                           | 2010 | U       |          |           |          |           | 8.4                                       | --                                                                           | >6                       | --          |
| Acid Neutralisation Capacity | 2015 | N       | mol/kg   |           |          |           | 0.019                                     | --                                                                           | To evaluate              | To evaluate |
| Eluate Analysis              |      |         |          | 2:1 mg/l  | 8:1 mg/l | 2:1 mg/kg | Cumulative mg/kg 10:1                     | Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg |                          |             |
| Arsenic                      | 1450 | U       | 0.012    | 0.012     | < 0.050  | 0.12      | 0.5                                       | 2                                                                            | 25                       |             |
| Barium                       | 1450 | U       | 0.026    | 0.0040    | < 0.50   | < 0.50    | 20                                        | 100                                                                          | 300                      |             |
| Cadmium                      | 1450 | U       | 0.00020  | < 0.00010 | < 0.010  | < 0.010   | 0.04                                      | 1                                                                            | 5                        |             |
| Chromium                     | 1450 | U       | 0.030    | 0.0096    | 0.058    | 0.12      | 0.5                                       | 10                                                                           | 70                       |             |
| Copper                       | 1450 | U       | 0.013    | 0.0040    | < 0.050  | < 0.050   | 2                                         | 50                                                                           | 100                      |             |
| Mercury                      | 1450 | U       | 0.0019   | < 0.00050 | 0.0037   | < 0.0050  | 0.01                                      | 0.2                                                                          | 2                        |             |
| Molybdenum                   | 1450 | U       | 0.12     | 0.025     | 0.23     | 0.35      | 0.5                                       | 10                                                                           | 30                       |             |
| Nickel                       | 1450 | U       | 0.0040   | < 0.0010  | < 0.050  | < 0.050   | 0.4                                       | 10                                                                           | 40                       |             |
| Lead                         | 1450 | U       | < 0.0010 | < 0.0010  | < 0.010  | < 0.010   | 0.5                                       | 10                                                                           | 50                       |             |
| Antimony                     | 1450 | U       | 0.0011   | 0.0017    | < 0.010  | 0.016     | 0.06                                      | 0.7                                                                          | 5                        |             |
| Selenium                     | 1450 | U       | 0.019    | 0.0030    | 0.037    | 0.047     | 0.1                                       | 0.5                                                                          | 7                        |             |
| Zinc                         | 1450 | U       | 0.0099   | 0.0064    | < 0.50   | < 0.50    | 4                                         | 50                                                                           | 200                      |             |
| Chloride                     | 1220 | U       | 1300     | 100       | 2500     | 2300      | 800                                       | 15000                                                                        | 25000                    |             |
| Fluoride                     | 1220 | U       | 0.97     | 0.34      | 1.9      | 4.0       | 10                                        | 150                                                                          | 500                      |             |
| Sulphate                     | 1220 | U       | 310      | 45        | 600      | 730       | 1000                                      | 20000                                                                        | 50000                    |             |
| Total Dissolved Solids       | 1020 | N       | 2400     | 350       | 4600     | 5700      | 4000                                      | 60000                                                                        | 100000                   |             |
| Phenol Index                 | 1920 | U       | < 0.030  | < 0.030   | < 0.30   | < 0.50    | 1                                         | -                                                                            | -                        |             |
| Dissolved Organic Carbon     | 1610 | U       | 29       | 13        | 56       | 150       | 500                                       | 800                                                                          | 1000                     |             |

| Soild Information           |       |
|-----------------------------|-------|
| Dry mass of test portion/kg | 0.175 |
| Moisture (%)                | 24    |

| Leachate Test Information           |       |
|-------------------------------------|-------|
| Leachant volume 1st extract/l       | 0.296 |
| Leachant volume 2nd extract/l       | 1.400 |
| Eluant recovered from 1st extract/l | 0.187 |

## Results - 2 Stage WAC

**Project: C6023 - Bantry Inner Harbour Development**

| <b>Chemtest Job No:</b> 16-31409<br><b>Chemtest Sample ID:</b> 394656<br><b>Sample Ref:</b> D23<br><b>Sample ID:</b> WAC1<br><b>Top Depth(m):</b><br><b>Bottom Depth(m):</b><br><b>Sampling Date:</b> 16-Dec-2016 |      |         |          |           |           |                       | <b>Landfill Waste Acceptance Criteria Limits</b>                             |                                                                       |                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------|----------|-----------|-----------|-----------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------------|---------------------------------|
|                                                                                                                                                                                                                   |      |         |          |           |           |                       | <b>Inert Waste Landfill</b>                                                  | <b>Stable, Non-reactive hazardous waste in non-hazardous Landfill</b> | <b>Hazardous Waste Landfill</b> |
| Determinand                                                                                                                                                                                                       | SOP  | Accred. | Units    |           |           |                       |                                                                              |                                                                       |                                 |
| Total Organic Carbon                                                                                                                                                                                              | 2625 | U       | %        |           |           | 0.60                  | 3                                                                            | 5                                                                     | 6                               |
| Loss On Ignition                                                                                                                                                                                                  | 2610 | U       | %        |           |           | 2.5                   | --                                                                           | --                                                                    | 10                              |
| Total BTEX                                                                                                                                                                                                        | 2760 | U       | mg/kg    |           |           | < 0.010               | 6                                                                            | --                                                                    | --                              |
| Total PCBs (7 Congeners)                                                                                                                                                                                          | 2815 | U       | mg/kg    |           |           | < 0.10                | 1                                                                            | --                                                                    | --                              |
| TPH Total WAC (Mineral Oil)                                                                                                                                                                                       | 2670 | U       | mg/kg    |           |           | 13                    | 500                                                                          | --                                                                    | --                              |
| Total (Of 17) PAH's                                                                                                                                                                                               | 2700 | N       | mg/kg    |           |           | < 2.0                 | 100                                                                          | --                                                                    | --                              |
| pH                                                                                                                                                                                                                | 2010 | U       |          |           |           | 8.4                   | --                                                                           | >6                                                                    | --                              |
| Acid Neutralisation Capacity                                                                                                                                                                                      | 2015 | N       | mol/kg   |           |           | 0.038                 | --                                                                           | To evaluate                                                           | To evaluate                     |
| Eluate Analysis                                                                                                                                                                                                   |      |         | 2:1 mg/l | 8:1 mg/l  | 2:1 mg/kg | Cumulative mg/kg 10:1 | Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg |                                                                       |                                 |
| Arsenic                                                                                                                                                                                                           | 1450 | U       | 0.012    | 0.0045    | < 0.050   | 0.053                 | 0.5                                                                          | 2                                                                     | 25                              |
| Barium                                                                                                                                                                                                            | 1450 | U       | 0.051    | 0.014     | < 0.50    | < 0.50                | 20                                                                           | 100                                                                   | 300                             |
| Cadmium                                                                                                                                                                                                           | 1450 | U       | 0.0016   | < 0.00010 | < 0.010   | < 0.010               | 0.04                                                                         | 1                                                                     | 5                               |
| Chromium                                                                                                                                                                                                          | 1450 | U       | 0.032    | 0.0096    | 0.062     | 0.12                  | 0.5                                                                          | 10                                                                    | 70                              |
| Copper                                                                                                                                                                                                            | 1450 | U       | 0.0094   | 0.0012    | < 0.050   | < 0.050               | 2                                                                            | 50                                                                    | 100                             |
| Mercury                                                                                                                                                                                                           | 1450 | U       | 0.0037   | 0.00064   | 0.0072    | 0.0098                | 0.01                                                                         | 0.2                                                                   | 2                               |
| Molybdenum                                                                                                                                                                                                        | 1450 | U       | 0.075    | 0.019     | 0.15      | 0.25                  | 0.5                                                                          | 10                                                                    | 30                              |
| Nickel                                                                                                                                                                                                            | 1450 | U       | 0.0028   | < 0.0010  | < 0.050   | < 0.050               | 0.4                                                                          | 10                                                                    | 40                              |
| Lead                                                                                                                                                                                                              | 1450 | U       | 0.0022   | < 0.0010  | < 0.010   | < 0.010               | 0.5                                                                          | 10                                                                    | 50                              |
| Antimony                                                                                                                                                                                                          | 1450 | U       | 0.0030   | 0.0010    | < 0.010   | 0.012                 | 0.06                                                                         | 0.7                                                                   | 5                               |
| Selenium                                                                                                                                                                                                          | 1450 | U       | 0.025    | 0.0030    | 0.049     | 0.055                 | 0.1                                                                          | 0.5                                                                   | 7                               |
| Zinc                                                                                                                                                                                                              | 1450 | U       | 0.012    | 0.0034    | < 0.50    | < 0.50                | 4                                                                            | 50                                                                    | 200                             |
| Chloride                                                                                                                                                                                                          | 1220 | U       | 1500     | 150       | 2900      | 3100                  | 800                                                                          | 15000                                                                 | 25000                           |
| Fluoride                                                                                                                                                                                                          | 1220 | U       | 0.62     | 0.32      | 1.2       | 3.5                   | 10                                                                           | 150                                                                   | 500                             |
| Sulphate                                                                                                                                                                                                          | 1220 | U       | 290      | 39        | 570       | 670                   | 1000                                                                         | 20000                                                                 | 50000                           |
| Total Dissolved Solids                                                                                                                                                                                            | 1020 | N       | 3000     | 400       | 5800      | 6900                  | 4000                                                                         | 60000                                                                 | 100000                          |
| Phenol Index                                                                                                                                                                                                      | 1920 | U       | < 0.030  | < 0.030   | < 0.30    | < 0.50                | 1                                                                            | -                                                                     | -                               |
| Dissolved Organic Carbon                                                                                                                                                                                          | 1610 | U       | 13       | 10        | < 50      | 100                   | 500                                                                          | 800                                                                   | 1000                            |

| Soild Information           |       |
|-----------------------------|-------|
| Dry mass of test portion/kg | 0.175 |
| Moisture (%)                | 21    |

| Leachate Test Information           |       |
|-------------------------------------|-------|
| Leachant volume 1st extract/l       | 0.302 |
| Leachant volume 2nd extract/l       | 1.400 |
| Eluant recovered from 1st extract/l | 0.197 |

**Appendix 5-A**  
**Inner Buoy Monitoring SW-A02**



| DATE       | TIME     | SIDE-SCATTER-TOTAL-SU | Turbidity NTU |
|------------|----------|-----------------------|---------------|
| 22/11/2016 | 00:00:52 | 94.62866              | 6.656029503   |
| 22/11/2016 | 00:15:52 | 131.57336             | 9.524406832   |
| 22/11/2016 | 00:30:52 | 120.08225             | 8.632239907   |
| 22/11/2016 | 00:45:52 | 67.01714              | 4.51227795    |
| 22/11/2016 | 01:00:52 | 35.4037               | 2.057818323   |
| 22/11/2016 | 01:15:52 | 89.13306              | 6.229352484   |
| 22/11/2016 | 01:30:52 | 81.35954              | 5.625818323   |
| 22/11/2016 | 01:45:52 | 70.86671              | 4.811157609   |
| 22/11/2016 | 02:00:52 | 22.05506              | 1.02143323    |
| 22/11/2016 | 02:15:52 | 39.06767              | 2.342288043   |
| 22/11/2016 | 02:30:52 | 16.84171              | 0.616670031   |
| 22/11/2016 | 02:45:52 | 9.51664               | 0.047953416   |
| 22/11/2016 | 03:00:52 | 9.51664               | 0.047953416   |
| 22/11/2016 | 03:15:52 | 1223.99852            | 94.34002484   |
| 22/11/2016 | 03:30:52 | 193.17989             | 14.30752252   |
| 22/11/2016 | 03:45:52 | 22.05506              | 1.02143323    |
| 22/11/2016 | 04:00:52 | 8.899                 | 0             |
| 22/11/2016 | 04:15:52 | 8.899                 | 0             |
| 22/11/2016 | 04:30:52 | 8.899                 | 0             |
| 22/11/2016 | 04:45:52 | 8.899                 | 0             |
| 22/11/2016 | 05:00:52 | 8.899                 | 0             |
| 22/11/2016 | 05:15:52 | 8.899                 | 0             |
| 22/11/2016 | 05:30:52 | 49.55432              | 3.156468944   |
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| 20/12/2016 | 00:30:52 | 8.899     | 0           |
| 20/12/2016 | 00:45:52 | 20.55926  | 0.905299689 |
| 20/12/2016 | 01:00:52 | 29.69981  | 1.61496972  |
| 20/12/2016 | 01:15:52 | 34.51172  | 1.988565217 |
| 20/12/2016 | 01:30:52 | 23.19909  | 1.110255435 |

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| 20/12/2016 | 01:45:52 | 37.05438  | 2.185976708 |
| 20/12/2016 | 02:00:52 | 35.27416  | 2.04776087  |
| 20/12/2016 | 02:15:52 | 42.62397  | 2.618398292 |
| 20/12/2016 | 02:30:52 | 14.03479  | 0.39874146  |
| 20/12/2016 | 02:45:52 | 48.52576  | 3.076611801 |
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| 20/12/2016 | 03:30:52 | 34.64866  | 1.999197205 |
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| 20/12/2016 | 04:30:52 | 19.75209  | 0.842631211 |
| 20/12/2016 | 04:45:52 | 16.05297  | 0.555432453 |
| 20/12/2016 | 05:00:52 | 16.2085   | 0.567507764 |
| 20/12/2016 | 05:15:52 | 15.04575  | 0.477232143 |
| 20/12/2016 | 05:30:52 | 23.08432  | 1.10134472  |
| 20/12/2016 | 05:45:52 | 30.22544  | 1.655779503 |
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| 20/12/2016 | 06:30:52 | 27.54166  | 1.447411491 |
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| 20/12/2016 | 07:15:52 | 49.04374  | 3.11682764  |
| 20/12/2016 | 07:30:52 | 45.38812  | 2.833006211 |
| 20/12/2016 | 07:45:52 | 32.53521  | 1.835109472 |
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| 20/12/2016 | 08:15:52 | 34.44139  | 1.983104814 |
| 20/12/2016 | 08:30:52 | 23.17317  | 1.108243012 |
| 20/12/2016 | 08:45:52 | 31.11754  | 1.725041925 |
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| 20/12/2016 | 09:30:52 | 17.4749   | 0.665830745 |
| 20/12/2016 | 09:45:52 | 23.89882  | 1.164582298 |
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| 20/12/2016 | 11:45:52 | 18.33395  | 0.732527174 |
| 20/12/2016 | 12:00:52 | 14.2755   | 0.417430124 |
| 20/12/2016 | 12:15:52 | 256.24843 | 19.20414829 |
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| 20/12/2016 | 12:45:52 | 320.38912 | 24.18401553 |
| 20/12/2016 | 13:00:52 | 315.49529 | 23.80405978 |
| 20/12/2016 | 13:15:52 | 173.6204  | 12.78892857 |
| 20/12/2016 | 13:30:52 | 332.41549 | 25.11773991 |
| 20/12/2016 | 13:45:52 | 189.93601 | 14.05566848 |
| 20/12/2016 | 14:00:52 | 26.34964  | 1.354863354 |

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| 20/12/2016 | 14:45:52 | 30.66595  | 1.68998059  |
| 20/12/2016 | 15:00:52 | 45.65823  | 2.853977484 |
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| 20/12/2016 | 16:45:52 | 148.70391 | 10.85441848 |
| 20/12/2016 | 17:00:52 | 73.43657  | 5.010680901 |
| 20/12/2016 | 17:15:52 | 432.40616 | 32.88099068 |
| 20/12/2016 | 17:30:52 | 352.522   | 26.67880435 |
| 20/12/2016 | 17:45:52 | 289.01617 | 21.74822748 |
| 20/12/2016 | 18:00:52 | 230.23287 | 17.18430668 |
| 20/12/2016 | 18:15:52 | 227.25355 | 16.95299301 |
| 20/12/2016 | 18:30:52 | 272.42982 | 20.46046739 |
| 20/12/2016 | 18:45:52 | 110.17988 | 7.86342236  |
| 20/12/2016 | 19:00:52 | 138.56526 | 10.06725621 |
| 20/12/2016 | 19:15:52 | 82.00278  | 5.675759317 |
| 20/12/2016 | 19:30:52 | 96.51701  | 6.802640528 |
| 20/12/2016 | 19:45:52 | 117.13137 | 8.403134317 |
| 20/12/2016 | 20:00:52 | 29.02239  | 1.562375    |
| 20/12/2016 | 20:15:52 | 47.04208  | 2.961419255 |
| 20/12/2016 | 20:30:52 | 28.51896  | 1.52328882  |
| 20/12/2016 | 20:45:52 | 26.53103  | 1.368946429 |
| 20/12/2016 | 21:00:52 | 33.3347   | 1.897181677 |
| 20/12/2016 | 21:15:52 | 16.2122   | 0.567795031 |
| 20/12/2016 | 21:30:52 | 20.69996  | 0.916223602 |
| 20/12/2016 | 21:45:52 | 17.59339  | 0.67503028  |
| 20/12/2016 | 22:00:52 | 13.43487  | 0.35216382  |
| 20/12/2016 | 22:15:52 | 11.261    | 0.183385093 |
| 20/12/2016 | 22:30:52 | 12.41276  | 0.272807453 |
| 20/12/2016 | 22:45:52 | 16.35662  | 0.579007764 |
| 20/12/2016 | 23:00:52 | 17.35641  | 0.656631211 |
| 20/12/2016 | 23:15:52 | 10.12773  | 0.095398292 |
| 20/12/2016 | 23:30:52 | 11.93132  | 0.235428571 |
| 20/12/2016 | 23:45:52 | 14.61248  | 0.443593168 |
| 21/12/2016 | 00:00:52 | 21.62188  | 0.987801242 |
| 21/12/2016 | 00:15:52 | 20.57037  | 0.906162267 |
| 21/12/2016 | 00:30:52 | 72.84127  | 4.964461957 |
| 21/12/2016 | 00:45:52 | 123.35787 | 8.88655823  |
| 21/12/2016 | 01:00:52 | 15.64564  | 0.523807453 |
| 21/12/2016 | 01:15:52 | 10.23143  | 0.103449534 |
| 21/12/2016 | 01:30:52 | 10.9351   | 0.158082298 |
| 21/12/2016 | 01:45:52 | 20.51112  | 0.901562112 |
| 21/12/2016 | 02:00:52 | 16.67507  | 0.603732143 |
| 21/12/2016 | 02:15:52 | 17.27495  | 0.650306677 |
| 21/12/2016 | 02:30:52 | 12.25722  | 0.260731366 |



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| 21/12/2016 | 02:45:52 | 16.23072  | 0.569232919 |
| 21/12/2016 | 03:00:52 | 13.43116  | 0.351875776 |
| 21/12/2016 | 03:15:52 | 13.32007  | 0.343250776 |
| 21/12/2016 | 03:30:52 | 12.52386  | 0.28143323  |
| 21/12/2016 | 03:45:52 | 13.94961  | 0.392128106 |
| 21/12/2016 | 04:00:52 | 8.899     | 0           |
| 21/12/2016 | 04:15:52 | 10.13143  | 0.095685559 |
| 21/12/2016 | 04:30:52 | 9.85366   | 0.074119565 |
| 21/12/2016 | 04:45:52 | 8.899     | 0           |
| 21/12/2016 | 05:00:52 | 10.37957  | 0.114951087 |
| 21/12/2016 | 05:15:52 | 26.51993  | 1.368084627 |
| 21/12/2016 | 05:30:52 | 34.36366  | 1.977069876 |
| 21/12/2016 | 05:45:52 | 21.33679  | 0.965666925 |
| 21/12/2016 | 06:00:52 | 16.98982  | 0.628169255 |
| 21/12/2016 | 06:15:52 | 11.1462   | 0.17447205  |
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| 21/12/2016 | 07:30:52 | 8.899     | 0           |
| 21/12/2016 | 07:45:52 | 18.71534  | 0.762138199 |
| 21/12/2016 | 08:00:52 | 24.40233  | 1.203674689 |
| 21/12/2016 | 08:15:52 | 24.26164  | 1.192751553 |
| 21/12/2016 | 08:30:52 | 16.63804  | 0.600857143 |
| 21/12/2016 | 08:45:52 | 23.58784  | 1.140437888 |
| 21/12/2016 | 09:00:52 | 17.75631  | 0.687679348 |
| 21/12/2016 | 09:15:52 | 16.86762  | 0.618681677 |
| 21/12/2016 | 09:30:52 | 16.03816  | 0.554282609 |
| 21/12/2016 | 09:45:52 | 15.57158  | 0.518057453 |
| 21/12/2016 | 10:00:52 | 11.03879  | 0.166132764 |
| 21/12/2016 | 10:15:52 | 8.899     | 0           |
| 21/12/2016 | 10:30:52 | 10.23884  | 0.104024845 |
| 21/12/2016 | 10:45:52 | 16.99352  | 0.628456522 |
| 21/12/2016 | 11:00:52 | 14.66062  | 0.447330745 |
| 21/12/2016 | 11:15:52 | 13.2497   | 0.337787267 |
| 21/12/2016 | 11:30:52 | 14.57545  | 0.440718168 |
| 21/12/2016 | 11:45:52 | 16.80097  | 0.613506988 |
| 21/12/2016 | 12:00:52 | 14.49768  | 0.434680124 |
| 21/12/2016 | 12:15:52 | 8.899     | 0           |
| 21/12/2016 | 12:30:52 | 12.33128  | 0.266481366 |
| 21/12/2016 | 12:45:52 | 14.76431  | 0.455381211 |
| 21/12/2016 | 13:00:52 | 13.26452  | 0.338937888 |
| 21/12/2016 | 13:15:52 | 10.36105  | 0.113513199 |
| 21/12/2016 | 13:30:52 | 204.63077 | 15.19656599 |
| 21/12/2016 | 13:45:52 | 35.52955  | 2.067589286 |
| 21/12/2016 | 14:00:52 | 47.36768  | 2.986698758 |
| 21/12/2016 | 14:15:52 | 165.74944 | 12.17782919 |
| 21/12/2016 | 14:30:52 | 149.7114  | 10.93263975 |
| 21/12/2016 | 14:45:52 | 129.66458 | 9.376209627 |
| 21/12/2016 | 15:00:52 | 104.49438 | 7.422001553 |

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| 21/12/2016 | 15:15:52 | 28.84471  | 1.548579969 |
| 21/12/2016 | 15:30:52 | 39.34893  | 2.364125    |
| 21/12/2016 | 15:45:52 | 81.44088  | 5.63213354  |
| 21/12/2016 | 16:00:52 | 114.77126 | 8.219895963 |
| 21/12/2016 | 16:15:52 | 150.45678 | 10.99051087 |
| 21/12/2016 | 16:30:52 | 131.56598 | 9.523833851 |
| 21/12/2016 | 16:45:52 | 39.54507  | 2.379353261 |
| 21/12/2016 | 17:00:52 | 27.63051  | 1.454309783 |
| 21/12/2016 | 17:15:52 | 32.44267  | 1.827924689 |
| 21/12/2016 | 17:30:52 | 191.73125 | 14.19505047 |
| 21/12/2016 | 17:45:52 | 42.27242  | 2.591104037 |
| 21/12/2016 | 18:00:52 | 36.98036  | 2.180229814 |
| 21/12/2016 | 18:15:52 | 27.34546  | 1.432178571 |
| 21/12/2016 | 18:30:52 | 34.31555  | 1.973334627 |
| 21/12/2016 | 18:45:52 | 29.63319  | 1.60979736  |
| 21/12/2016 | 19:00:52 | 25.30935  | 1.274095497 |
| 21/12/2016 | 19:15:52 | 27.80449  | 1.467817547 |
| 21/12/2016 | 19:30:52 | 22.35496  | 1.044717391 |
| 21/12/2016 | 19:45:52 | 72.07217  | 4.904749224 |
| 21/12/2016 | 20:00:52 | 34.81152  | 2.011841615 |
| 21/12/2016 | 20:15:52 | 27.09003  | 1.41234705  |
| 21/12/2016 | 20:30:52 | 39.13799  | 2.347747671 |
| 21/12/2016 | 20:45:52 | 34.56353  | 1.992587733 |
| 21/12/2016 | 21:00:52 | 28.07843  | 1.48908618  |
| 21/12/2016 | 21:15:52 | 13.4756   | 0.355326087 |
| 21/12/2016 | 21:30:52 | 13.74964  | 0.376602484 |
| 21/12/2016 | 21:45:52 | 19.18188  | 0.798360248 |
| 21/12/2016 | 22:00:52 | 21.807    | 1.002173913 |
| 21/12/2016 | 22:15:52 | 26.39776  | 1.358599379 |
| 21/12/2016 | 22:30:52 | 32.07253  | 1.799187112 |
| 21/12/2016 | 22:45:52 | 29.0446   | 1.564099379 |
| 21/12/2016 | 23:00:52 | 40.7959   | 2.476467391 |
| 21/12/2016 | 23:15:52 | 45.56574  | 2.846796584 |
| 21/12/2016 | 23:30:52 | 19.40034  | 0.815321429 |
| 21/12/2016 | 23:45:52 | 28.45972  | 1.518689441 |
| 22/12/2016 | 00:00:52 | 23.88771  | 1.16371972  |
| 22/12/2016 | 00:15:52 | 25.29454  | 1.272945652 |
| 22/12/2016 | 00:30:52 | 26.91233  | 1.398550466 |
| 22/12/2016 | 00:45:52 | 37.22833  | 2.199482143 |
| 22/12/2016 | 01:00:52 | 33.616    | 1.919021739 |
| 22/12/2016 | 01:15:52 | 17.7378   | 0.686242236 |
| 22/12/2016 | 01:30:52 | 12.03502  | 0.243479814 |
| 22/12/2016 | 01:45:52 | 23.6915   | 1.148486025 |
| 22/12/2016 | 02:00:52 | 15.98632  | 0.550257764 |
| 22/12/2016 | 02:15:52 | 18.82642  | 0.770762422 |
| 22/12/2016 | 02:30:52 | 18.54871  | 0.749201087 |
| 22/12/2016 | 02:45:52 | 25.36859  | 1.278694876 |
| 22/12/2016 | 03:00:52 | 28.27833  | 1.504606366 |
| 22/12/2016 | 03:15:52 | 25.13165  | 1.260298913 |
| 22/12/2016 | 03:30:52 | 18.37468  | 0.735689441 |

|            |          |          |             |
|------------|----------|----------|-------------|
| 22/12/2016 | 03:45:52 | 17.3416  | 0.655481366 |
| 22/12/2016 | 04:00:52 | 8.899    | 0           |
| 22/12/2016 | 04:15:52 | 14.94576 | 0.469468944 |
| 22/12/2016 | 04:30:52 | 14.54212 | 0.438130435 |
| 22/12/2016 | 04:45:52 | 10.43512 | 0.119263975 |
| 22/12/2016 | 05:00:52 | 12.30906 | 0.264756211 |
| 22/12/2016 | 05:15:52 | 8.899    | 0           |
| 22/12/2016 | 05:30:52 | 11.89799 | 0.232840839 |
| 22/12/2016 | 05:45:52 | 8.899    | 0           |
| 22/12/2016 | 06:00:52 | 10.47586 | 0.122427019 |
| 22/12/2016 | 06:15:52 | 12.89789 | 0.310472826 |
| 22/12/2016 | 06:30:52 | 8.93146  | 0.002520186 |
| 22/12/2016 | 06:45:52 | 12.33499 | 0.26676941  |
| 22/12/2016 | 07:00:52 | 12.77198 | 0.300697205 |
| 22/12/2016 | 07:15:52 | 12.31647 | 0.265331522 |
| 22/12/2016 | 07:30:52 | 11.84614 | 0.228815217 |
| 22/12/2016 | 07:45:52 | 9.34627  | 0.034725932 |
| 22/12/2016 | 08:00:52 | 8.899    | 0           |
| 22/12/2016 | 08:15:52 | 10.34624 | 0.112363354 |
| 22/12/2016 | 08:30:52 | 12.77198 | 0.300697205 |
| 22/12/2016 | 08:45:52 | 8.899    | 0           |
| 22/12/2016 | 09:00:52 | 8.899    | 0           |
| 22/12/2016 | 09:15:52 | 8.899    | 0           |
| 22/12/2016 | 09:30:52 | 9.94996  | 0.081596273 |
| 22/12/2016 | 09:45:52 | 9.8907   | 0.076995342 |
| 22/12/2016 | 10:00:52 | 8.899    | 0           |
| 22/12/2016 | 10:15:52 | 8.899    | 0           |

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8.899

**Appendix 5-B**  
**Outer Buoy Monitoring SW-A01**

OSIL06A (Outer Buoy)

m c  
11.08 12.599

| DATE       | TIME     | SIDE-SCATT | Side Scatter | Turbidity |
|------------|----------|------------|--------------|-----------|
| 09/12/2016 | 00:00:52 | 12.5993    | 0            |           |
| 09/12/2016 | 00:15:52 | 12.5993    | 0            |           |
| 09/12/2016 | 00:30:52 | 12.5993    | 0            |           |
| 09/12/2016 | 00:45:52 | 12.5993    | 0            |           |
| 09/12/2016 | 01:00:52 | 12.5993    | 0            |           |
| 09/12/2016 | 01:15:52 | 12.5993    | 0            |           |
| 09/12/2016 | 01:30:52 | 12.5993    | 0            |           |
| 09/12/2016 | 01:45:52 | 12.5993    | 0            |           |
| 09/12/2016 | 02:00:52 | 12.5993    | 0            |           |
| 09/12/2016 | 02:15:52 | 12.5993    | 0            |           |
| 09/12/2016 | 02:30:52 | 12.5993    | 0            |           |
| 09/12/2016 | 02:45:52 | 12.5993    | 0            |           |
| 09/12/2016 | 03:00:52 | 12.5993    | 0            |           |
| 09/12/2016 | 03:15:52 | 12.5993    | 0            |           |
| 09/12/2016 | 03:30:52 | 12.5993    | 0            |           |
| 09/12/2016 | 03:45:52 | 12.5993    | 0            |           |
| 09/12/2016 | 04:00:52 | 12.5993    | 0            |           |
| 09/12/2016 | 04:15:52 | 12.5993    | 0            |           |
| 09/12/2016 | 04:30:52 | 12.5993    | 0            |           |
| 09/12/2016 | 04:45:52 | 12.5993    | 0            |           |
| 09/12/2016 | 05:00:52 | 12.5993    | 0            |           |
| 09/12/2016 | 05:15:52 | 12.5993    | 0            |           |
| 09/12/2016 | 05:30:52 | 12.5993    | 0            |           |
| 09/12/2016 | 05:45:52 | 12.5993    | 0            |           |
| 09/12/2016 | 06:00:52 | 12.5993    | 0            |           |
| 09/12/2016 | 06:15:52 | 12.5993    | 0            |           |
| 09/12/2016 | 06:30:52 | 12.5993    | 0            |           |
| 09/12/2016 | 06:45:52 | 12.5993    | 0            |           |
| 09/12/2016 | 07:00:52 | 12.5993    | 0            |           |
| 09/12/2016 | 07:15:52 | 12.5993    | 0            |           |
| 09/12/2016 | 07:30:52 | 12.5993    | 0            |           |
| 09/12/2016 | 07:45:52 | 12.5993    | 0            |           |
| 09/12/2016 | 08:00:52 | 12.5993    | 0            |           |
| 09/12/2016 | 08:15:52 | 12.5993    | 0            |           |
| 09/12/2016 | 08:30:52 | 12.5993    | 0            |           |
| 09/12/2016 | 08:45:52 | 12.5993    | 0            |           |
| 09/12/2016 | 09:00:52 | 12.5993    | 0            |           |
| 09/12/2016 | 09:15:52 | 12.5993    | 0            |           |
| 09/12/2016 | 09:30:52 | 12.5993    | 0            |           |
| 09/12/2016 | 09:45:52 | 12.5993    | 0            |           |
| 09/12/2016 | 10:00:52 | 12.5993    | 0            |           |
| 09/12/2016 | 10:15:52 | 12.5993    | 0            |           |
| 09/12/2016 | 10:30:52 | 12.5993    | 0            |           |
| 09/12/2016 | 10:45:52 | 12.5993    | 0            |           |
| 09/12/2016 | 11:00:52 | 12.5993    | 0            |           |
| 09/12/2016 | 11:15:52 | 12.5993    | 0            |           |

|            |          |          |       |
|------------|----------|----------|-------|
| 09/12/2016 | 11:30:52 | 12.5993  | 0     |
| 09/12/2016 | 11:45:52 | 12.5993  | 0     |
| 09/12/2016 | 12:00:52 | 12.5993  | 0     |
| 09/12/2016 | 12:15:52 | 12.5993  | 0     |
| 09/12/2016 | 12:30:52 | 12.5993  | 0     |
| 09/12/2016 | 12:45:52 | 12.5993  | 0     |
| 09/12/2016 | 13:00:52 | 12.5993  | 0     |
| 09/12/2016 | 13:15:52 | 12.5993  | 0     |
| 09/12/2016 | 13:30:52 | 12.5993  | 0     |
| 09/12/2016 | 13:45:52 | 12.5993  | 0     |
| 09/12/2016 | 14:00:52 | 12.5993  | 0     |
| 09/12/2016 | 14:15:52 | 12.5993  | 0     |
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| 13/12/2016 | 03:45:52 | 40.19161 | 0 |
| 13/12/2016 | 04:00:52 | 21.88062 | 0 |
| 13/12/2016 | 04:15:52 | 27.87566 | 0 |
| 13/12/2016 | 04:30:52 | 24.16544 | 0 |
| 13/12/2016 | 04:45:52 | 24.83943 | 0 |
| 13/12/2016 | 05:00:52 | 25.72571 | 0 |
| 13/12/2016 | 05:15:52 | 12.5993  | 0 |
| 13/12/2016 | 05:30:52 | 13.76541 | 0 |
| 13/12/2016 | 05:45:52 | 12.80826 | 0 |
| 13/12/2016 | 06:00:52 | 12.5993  | 0 |
| 13/12/2016 | 06:15:52 | 12.5993  | 0 |
| 13/12/2016 | 06:30:52 | 12.5993  | 0 |
| 13/12/2016 | 06:45:52 | 12.5993  | 0 |
| 13/12/2016 | 07:00:52 | 12.5993  | 0 |
| 13/12/2016 | 07:15:52 | 12.5993  | 0 |
| 13/12/2016 | 07:30:52 | 12.5993  | 0 |
| 13/12/2016 | 07:45:52 | 12.5993  | 0 |
| 13/12/2016 | 08:00:52 | 12.5993  | 0 |
| 13/12/2016 | 08:15:52 | 12.5993  | 0 |
| 13/12/2016 | 08:30:52 | 12.5993  | 0 |
| 13/12/2016 | 08:45:52 | 12.5993  | 0 |
| 13/12/2016 | 09:00:52 | 12.5993  | 0 |
| 13/12/2016 | 09:15:52 | 12.5993  | 0 |
| 13/12/2016 | 09:30:52 | 12.5993  | 0 |
| 13/12/2016 | 09:45:52 | 12.5993  | 0 |
| 13/12/2016 | 10:00:52 | 12.5993  | 0 |
| 13/12/2016 | 10:15:52 | 15.67968 | 0 |
| 13/12/2016 | 10:30:52 | 12.5993  | 0 |
| 13/12/2016 | 10:45:52 | 16.95697 | 0 |
| 13/12/2016 | 11:00:52 | 12.5993  | 0 |
| 13/12/2016 | 11:15:52 | 12.5993  | 0 |
| 13/12/2016 | 11:30:52 | 12.5993  | 0 |
| 13/12/2016 | 11:45:52 | 12.5993  | 0 |
| 13/12/2016 | 12:00:52 | 12.5993  | 0 |
| 13/12/2016 | 12:15:52 | 12.5993  | 0 |
| 13/12/2016 | 12:30:52 | 12.5993  | 0 |
| 13/12/2016 | 12:45:52 | 12.5993  | 0 |
| 13/12/2016 | 13:00:52 | 12.5993  | 0 |
| 13/12/2016 | 13:15:52 | 12.5993  | 0 |
| 13/12/2016 | 13:30:52 | 12.5993  | 0 |
| 13/12/2016 | 13:45:52 | 12.5993  | 0 |
| 13/12/2016 | 14:00:52 | 12.5993  | 0 |
| 13/12/2016 | 14:15:52 | 12.5993  | 0 |
| 13/12/2016 | 14:30:52 | 12.5993  | 0 |
| 13/12/2016 | 14:45:52 | 12.5993  | 0 |
| 13/12/2016 | 15:00:52 | 12.5993  | 0 |
| 13/12/2016 | 15:15:52 | 12.5993  | 0 |

|            |          |         |       |
|------------|----------|---------|-------|
| 13/12/2016 | 15:30:52 | 12.5993 | 0     |
| 13/12/2016 | 15:45:52 | 12.5993 | 0     |
| 13/12/2016 | 16:00:52 | 12.5993 | 0     |
| 13/12/2016 | 16:15:52 | 12.5993 | 0     |
| 13/12/2016 | 16:30:52 | 12.5993 | 0     |
| 13/12/2016 | 16:45:52 | 12.5993 | 0     |
| 13/12/2016 | 17:00:52 | 12.5993 | 0     |
| 13/12/2016 | 17:15:52 | 12.5993 | 0     |
| 13/12/2016 | 17:30:52 | 12.5993 | 0     |
| 13/12/2016 | 17:45:52 | 12.5993 | 0     |
| 13/12/2016 | 18:00:52 | 12.5993 | 0     |
| 13/12/2016 | 18:15:52 | 12.5993 | 0     |
| 13/12/2016 | 18:30:52 | 12.5993 | 0     |
| 13/12/2016 | 18:45:52 | 12.5993 | 0     |
| 13/12/2016 | 19:00:52 | 12.5993 | 0     |
| 13/12/2016 | 19:15:52 | 12.5993 | 0     |
| 13/12/2016 | 19:30:52 | 12.5993 | 0.162 |
| 13/12/2016 | 19:45:52 | 12.5993 | 0.035 |
| 13/12/2016 | 20:00:52 | 12.5993 | 0     |
| 13/12/2016 | 20:15:52 | 12.5993 | 0     |
| 13/12/2016 | 20:30:52 | 12.5993 | 0     |
| 13/12/2016 | 20:45:52 | 12.5993 | 0     |
| 13/12/2016 | 21:00:52 | 12.5993 | 0     |
| 13/12/2016 | 21:15:52 | 12.5993 | 0     |
| 13/12/2016 | 21:30:52 | 12.5993 | 0     |
| 13/12/2016 | 21:45:52 | 12.5993 | 0     |
| 13/12/2016 | 22:00:52 | 12.5993 | 0     |
| 13/12/2016 | 22:15:52 | 12.5993 | 0     |
| 13/12/2016 | 22:30:52 | 12.5993 | 0     |
| 13/12/2016 | 22:45:52 | 12.5993 | 0     |
| 13/12/2016 | 23:00:52 | 12.5993 | 0     |
| 13/12/2016 | 23:15:52 | 12.5993 | 0     |
| 13/12/2016 | 23:30:52 | 12.5993 | 0     |
| 13/12/2016 | 23:45:52 | 12.5993 | 0     |

**Appendix 6**

**Manual Marine Monitoring SW-M01 - 2016**



**Project: C6023 - Bantry Inner Harbour Development**

| Client: BAM Contractors  |         | Chemtest Job No.:    |       |        | 16-28400    | 16-28400    | 16-28400    |
|--------------------------|---------|----------------------|-------|--------|-------------|-------------|-------------|
| Quotation No.: Q16-07624 |         | Chemtest Sample ID.: |       |        | 380924      | 380925      | 380926      |
| Order No.: C6023 - 0032  |         | Client Sample Ref.:  |       |        | SW-MO1      | SW-MO1      | SW-MO1      |
|                          |         | Client Sample ID.:   |       |        | 1           | 1           | 2           |
|                          |         | Sample Type:         |       |        | WATER       | WATER       | WATER       |
|                          |         | Top Depth (m):       |       |        | 3.00        | 3.00        | 3.00        |
|                          |         | Date Sampled:        |       |        | 11-Nov-2016 | 16-Nov-2016 | 16-Nov-2016 |
| Determinand              | Accred. | SOP                  | Units | LOD    |             |             |             |
| Suspended Solids At 105C | U       | 1030                 | mg/l  | 5.0    | 39          | 24          | 30          |
| Turbidity                | N       | 1060                 | NTU   | 1.0    | < 1.0       | 1.6         | 1.2         |
| Arsenic (Dissolved)      | U       | 1450                 | µg/l  | 1.0    | 1.9         | 1.5         | 1.4         |
| Cadmium (Dissolved)      | U       | 1450                 | µg/l  | 0.080  | < 0.080     | < 0.080     | < 0.080     |
| Chromium (Dissolved)     | U       | 1450                 | µg/l  | 1.0    | 27          | 36          | 36          |
| Copper (Dissolved)       | U       | 1450                 | µg/l  | 1.0    | 17          | 24          | 19          |
| Mercury (Dissolved)      | U       | 1450                 | µg/l  | 0.50   | < 0.50      | < 0.50      | < 0.50      |
| Nickel (Dissolved)       | U       | 1450                 | µg/l  | 1.0    | 20          | 20          | 25          |
| Lead (Dissolved)         | U       | 1450                 | µg/l  | 1.0    | < 1.0       | < 1.0       | < 1.0       |
| Selenium (Dissolved)     | U       | 1450                 | µg/l  | 1.0    | < 1.0       | < 1.0       | < 1.0       |
| Zinc (Dissolved)         | U       | 1450                 | µg/l  | 1.0    | 100         | 87          | 81          |
| Total TPH >C6-C40        | U       | 1670                 | µg/l  | 10     | < 10        | < 10        | < 10        |
| Naphthalene              | U       | 1700                 | µg/l  | 0.10   | < 0.10      | < 0.10      | < 0.10      |
| Acenaphthylene           | U       | 1700                 | µg/l  | 0.10   | < 0.10      | < 0.10      | < 0.10      |
| Acenaphthene             | U       | 1700                 | µg/l  | 0.10   | < 0.10      | < 0.10      | < 0.10      |
| Fluorene                 | U       | 1700                 | µg/l  | 0.10   | < 0.10      | < 0.10      | < 0.10      |
| Phenanthrene             | U       | 1700                 | µg/l  | 0.10   | < 0.10      | < 0.10      | < 0.10      |
| Anthracene               | U       | 1700                 | µg/l  | 0.10   | < 0.10      | < 0.10      | < 0.10      |
| Fluoranthene             | U       | 1700                 | µg/l  | 0.10   | < 0.10      | < 0.10      | < 0.10      |
| Pyrene                   | U       | 1700                 | µg/l  | 0.10   | < 0.10      | < 0.10      | < 0.10      |
| Benzo[a]anthracene       | U       | 1700                 | µg/l  | 0.10   | < 0.10      | < 0.10      | < 0.10      |
| Chrysene                 | U       | 1700                 | µg/l  | 0.10   | < 0.10      | < 0.10      | < 0.10      |
| Benzo[b]fluoranthene     | U       | 1700                 | µg/l  | 0.10   | < 0.10      | < 0.10      | < 0.10      |
| Benzo[k]fluoranthene     | U       | 1700                 | µg/l  | 0.10   | < 0.10      | < 0.10      | < 0.10      |
| Benzo[a]pyrene           | U       | 1700                 | µg/l  | 0.10   | < 0.10      | < 0.10      | < 0.10      |
| Indeno(1,2,3-c,d)Pyrene  | U       | 1700                 | µg/l  | 0.10   | < 0.10      | < 0.10      | < 0.10      |
| Dibenz(a,h)Anthracene    | U       | 1700                 | µg/l  | 0.10   | < 0.10      | < 0.10      | < 0.10      |
| Benzo[g,h,i]perylene     | U       | 1700                 | µg/l  | 0.10   | < 0.10      | < 0.10      | < 0.10      |
| Total Of 16 PAH's        | U       | 1700                 | µg/l  | 2.0    | < 2.0       | < 2.0       | < 2.0       |
| Tributyl Tin             | N       | 1730                 | µg/l  | 0.0500 | < 0.050     | < 0.050     | < 0.050     |
| PCB 28                   | N       | 1815                 | µg/l  | 0.010  | < 0.010     | < 0.010     | < 0.010     |
| PCB 52                   | N       | 1815                 | µg/l  | 0.010  | < 0.010     | < 0.010     | < 0.010     |
| PCB 90+101               | N       | 1815                 | µg/l  | 0.010  | < 0.010     | < 0.010     | < 0.010     |
| PCB 118                  | N       | 1815                 | µg/l  | 0.010  | < 0.010     | < 0.010     | < 0.010     |
| PCB 153                  | N       | 1815                 | µg/l  | 0.010  | < 0.010     | < 0.010     | < 0.010     |
| PCB 138                  | N       | 1815                 | µg/l  | 0.010  | < 0.010     | < 0.010     | < 0.010     |
| PCB 180                  | N       | 1815                 | µg/l  | 0.010  | < 0.010     | < 0.010     | < 0.010     |
| Total PCBs (7 congeners) | N       | 1815                 | µg/l  | 0.010  | < 0.010     | < 0.010     | < 0.010     |

**Project: C6023 - Bantry Inner Harbour Development**

| Client: BAM Contractors  | Chemtest Job No.:    |      |       |        |         | 16-29379     | 16-29379     | 16-29379     | 16-29379     | 16-29379     |
|--------------------------|----------------------|------|-------|--------|---------|--------------|--------------|--------------|--------------|--------------|
| Quotation No.: Q16-07624 | Chemtest Sample ID.: |      |       |        |         | 384991       | 384992       | 384993       | 384994       | 384995       |
|                          | Client Sample ID.:   |      |       |        |         | SW-M01 (1-3) | SW-M01 (1-3) | SW-M01 (1-3) | SW-M01 (1-3) | SW-M01 (1-3) |
|                          | Sample Type:         |      |       |        |         | WATER        | WATER        | WATER        | WATER        | WATER        |
|                          | Top Depth (m):       |      |       |        |         | 3.0          | 3.0          | 3.0          | 3.0          | 3.0          |
|                          | Date Sampled:        |      |       |        |         | 17-Nov-2016  | 18-Nov-2016  | 21-Nov-2016  | 22-Nov-2016  | 23-Nov-2016  |
| Determinand              | Accred.              | SOP  | Units | LOD    |         |              |              |              |              |              |
| Suspended Solids At 105C | U                    | 1030 | mg/l  | 5.0    | < 5.0   | < 5.0        | < 5.0        | < 5.0        | < 5.0        |              |
| Turbidity                | N                    | 1060 | NTU   | 1.0    | 4.7     | 6.2          | 11           | 4.1          | 5.4          |              |
| Arsenic (Dissolved)      | U                    | 1450 | µg/l  | 1.0    | 2.1     | 2.5          | 1.5          | 2.1          | 1.0          |              |
| Cadmium (Dissolved)      | U                    | 1450 | µg/l  | 0.080  | < 0.080 | < 0.080      | < 0.080      | < 0.080      | < 0.080      |              |
| Chromium (Dissolved)     | U                    | 1450 | µg/l  | 1.0    | 28      | 34           | 32           | 38           | 37           |              |
| Copper (Dissolved)       | U                    | 1450 | µg/l  | 1.0    | 17      | 22           | 25           | 26           | 24           |              |
| Mercury (Dissolved)      | U                    | 1450 | µg/l  | 0.50   | < 0.50  | < 0.50       | < 0.50       | 2.5          | < 0.50       |              |
| Nickel (Dissolved)       | U                    | 1450 | µg/l  | 1.0    | 6.7     | 7.0          | 5.6          | 8.3          | 9.0          |              |
| Lead (Dissolved)         | U                    | 1450 | µg/l  | 1.0    | < 1.0   | < 1.0        | < 1.0        | < 1.0        | < 1.0        |              |
| Selenium (Dissolved)     | U                    | 1450 | µg/l  | 1.0    | < 1.0   | < 1.0        | < 1.0        | < 1.0        | < 1.0        |              |
| Zinc (Dissolved)         | U                    | 1450 | µg/l  | 1.0    | 96      | 120          | 92           | 130          | 150          |              |
| Total TPH >C6-C40        | U                    | 1670 | µg/l  | 10     | < 10    | < 10         | < 10         | < 10         | < 10         |              |
| Naphthalene              | U                    | 1700 | µg/l  | 0.10   | < 0.10  | < 0.10       | < 0.10       | < 0.10       | < 0.10       |              |
| Acenaphthylene           | U                    | 1700 | µg/l  | 0.10   | < 0.10  | < 0.10       | < 0.10       | < 0.10       | < 0.10       |              |
| Acenaphthene             | U                    | 1700 | µg/l  | 0.10   | < 0.10  | < 0.10       | < 0.10       | < 0.10       | < 0.10       |              |
| Fluorene                 | U                    | 1700 | µg/l  | 0.10   | < 0.10  | < 0.10       | < 0.10       | < 0.10       | < 0.10       |              |
| Phenanthrene             | U                    | 1700 | µg/l  | 0.10   | < 0.10  | < 0.10       | < 0.10       | < 0.10       | < 0.10       |              |
| Anthracene               | U                    | 1700 | µg/l  | 0.10   | < 0.10  | < 0.10       | < 0.10       | < 0.10       | < 0.10       |              |
| Fluoranthene             | U                    | 1700 | µg/l  | 0.10   | < 0.10  | < 0.10       | < 0.10       | < 0.10       | < 0.10       |              |
| Pyrene                   | U                    | 1700 | µg/l  | 0.10   | < 0.10  | < 0.10       | < 0.10       | < 0.10       | < 0.10       |              |
| Benzo[a]anthracene       | U                    | 1700 | µg/l  | 0.10   | < 0.10  | < 0.10       | < 0.10       | < 0.10       | < 0.10       |              |
| Chrysene                 | U                    | 1700 | µg/l  | 0.10   | < 0.10  | < 0.10       | < 0.10       | < 0.10       | < 0.10       |              |
| Benzo[b]fluoranthene     | U                    | 1700 | µg/l  | 0.10   | < 0.10  | < 0.10       | < 0.10       | < 0.10       | < 0.10       |              |
| Benzo[k]fluoranthene     | U                    | 1700 | µg/l  | 0.10   | < 0.10  | < 0.10       | < 0.10       | < 0.10       | < 0.10       |              |
| Benzo[a]pyrene           | U                    | 1700 | µg/l  | 0.10   | < 0.10  | < 0.10       | < 0.10       | < 0.10       | < 0.10       |              |
| Indeno(1,2,3-c,d)Pyrene  | U                    | 1700 | µg/l  | 0.10   | < 0.10  | < 0.10       | < 0.10       | < 0.10       | < 0.10       |              |
| Dibenz(a,h)Anthracene    | U                    | 1700 | µg/l  | 0.10   | < 0.10  | < 0.10       | < 0.10       | < 0.10       | < 0.10       |              |
| Benzo[g,h,i]perylene     | U                    | 1700 | µg/l  | 0.10   | < 0.10  | < 0.10       | < 0.10       | < 0.10       | < 0.10       |              |
| Total Of 16 PAH's        | U                    | 1700 | µg/l  | 2.0    | < 2.0   | < 2.0        | < 2.0        | < 2.0        | < 2.0        |              |
| Tributyl Tin             | N                    | 1730 | µg/l  | 0.0500 | < 0.050 | < 0.050      | < 0.050      | < 0.050      | < 0.050      |              |
| PCB 28                   | N                    | 1815 | µg/l  | 0.010  | < 0.010 | < 0.010      | < 0.010      | < 0.010      | < 0.010      |              |
| PCB 52                   | N                    | 1815 | µg/l  | 0.010  | < 0.010 | < 0.010      | < 0.010      | < 0.010      | < 0.010      |              |
| PCB 90+101               | N                    | 1815 | µg/l  | 0.010  | < 0.010 | < 0.010      | < 0.010      | < 0.010      | < 0.010      |              |
| PCB 118                  | N                    | 1815 | µg/l  | 0.010  | < 0.010 | < 0.010      | < 0.010      | < 0.010      | < 0.010      |              |
| PCB 153                  | N                    | 1815 | µg/l  | 0.010  | < 0.010 | < 0.010      | < 0.010      | < 0.010      | < 0.010      |              |
| PCB 138                  | N                    | 1815 | µg/l  | 0.010  | < 0.010 | < 0.010      | < 0.010      | < 0.010      | < 0.010      |              |
| PCB 180                  | N                    | 1815 | µg/l  | 0.010  | < 0.010 | < 0.010      | < 0.010      | < 0.010      | < 0.010      |              |
| Total PCBs (7 congeners) | N                    | 1815 | µg/l  | 0.010  | < 0.010 | < 0.010      | < 0.010      | < 0.010      | < 0.010      |              |

**Project: C6023 Bantry Inner Harbour Development**

| Client: <b>BAM Contractors</b> | Chemtest Job No.:    |      | 16-30178    | 16-30178    | 16-30178    | 16-30178    | 16-30178    | 16-30178    | 16-30178 |         |
|--------------------------------|----------------------|------|-------------|-------------|-------------|-------------|-------------|-------------|----------|---------|
| Quotation No.: Q16-07624       | Chemtest Sample ID.: |      | 388687      | 388688      | 388689      | 388690      | 388691      | 388692      |          |         |
| Order No.: C6023-0032          | Client Sample Ref.:  |      | SW-MO1      | SW-MO1      | SW-MO1      | SW-MO1      | SW-MO1      | SW-MO1      | SW-MO1   |         |
|                                | Client Sample ID.:   |      | 1-3         | 1-3         | 1-3         | 1-3         | 1-3         | 1-3         | 1-3      |         |
|                                | Sample Type:         |      | WATER       | WATER       | WATER       | WATER       | WATER       | WATER       | WATER    |         |
|                                | Top Depth (m):       |      | 3.00        | 3.00        | 3.00        | 3.00        | 3.00        | 3.00        | 3.00     |         |
|                                | Date Sampled:        |      | 25-Nov-2016 | 28-Nov-2016 | 29-Nov-2016 | 30-Nov-2016 | 01-Dec-2016 | 02-Dec-2016 |          |         |
| Determinand                    | Accred.              | SOP  | Units       | LOD         |             |             |             |             |          |         |
| Suspended Solids At 105C       | U                    | 1030 | mg/l        | 5.0         | < 5.0       | < 5.0       | < 5.0       | < 5.0       | < 5.0    | < 5.0   |
| Turbidity                      | N                    | 1060 | NTU         | 1.0         | 1.7         | 1.7         | 2.6         | 2.3         | 2.5      | 1.8     |
| Arsenic (Dissolved)            | N                    | 1450 | µg/l        | 1.0         | 4.4         | 4.7         | 5.8         | 4.7         | 6.0      | 2.7     |
| Cadmium (Dissolved)            | U                    | 1450 | µg/l        | 0.080       | 13          | 1.1         | 0.40        | 0.26        | 0.22     | 0.19    |
| Chromium (Dissolved)           | N                    | 1450 | µg/l        | 1.0         | 2.3         | 19          | 24          | 20          | 24       | 9.5     |
| Copper (Dissolved)             | N                    | 1450 | µg/l        | 1.0         | 12          | 16          | 90          | 20          | 24       | 7.8     |
| Mercury (Dissolved)            | U                    | 1450 | µg/l        | 0.50        | 0.63        | 3.9         | 1.5         | 1.1         | 0.80     | 0.84    |
| Nickel (Dissolved)             | U                    | 1450 | µg/l        | 1.0         | < 1.0       | 5.1         | 6.4         | 6.6         | 6.6      | 6.7     |
| Lead (Dissolved)               | U                    | 1450 | µg/l        | 1.0         | 4.0         | < 1.0       | < 1.0       | < 1.0       | < 1.0    | < 1.0   |
| Selenium (Dissolved)           | U                    | 1450 | µg/l        | 1.0         | 1.3         | < 1.0       | < 1.0       | < 1.0       | < 1.0    | < 1.0   |
| Zinc (Dissolved)               | U                    | 1450 | µg/l        | 1.0         | 76          | 120         | 88          | 83          | 82       | 82      |
| Total TPH >C6-C40              | U                    | 1670 | µg/l        | 10          | 150         | 130         | 420         | 80          | 130      | 140     |
| Naphthalene                    | U                    | 1700 | µg/l        | 0.10        | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10   | < 0.10  |
| Acenaphthylene                 | U                    | 1700 | µg/l        | 0.10        | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10   | < 0.10  |
| Acenaphthene                   | U                    | 1700 | µg/l        | 0.10        | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10   | < 0.10  |
| Fluorene                       | U                    | 1700 | µg/l        | 0.10        | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10   | < 0.10  |
| Phenanthrene                   | U                    | 1700 | µg/l        | 0.10        | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10   | < 0.10  |
| Anthracene                     | U                    | 1700 | µg/l        | 0.10        | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10   | < 0.10  |
| Fluoranthene                   | U                    | 1700 | µg/l        | 0.10        | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10   | < 0.10  |
| Pyrene                         | U                    | 1700 | µg/l        | 0.10        | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10   | < 0.10  |
| Benzo[a]anthracene             | U                    | 1700 | µg/l        | 0.10        | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10   | < 0.10  |
| Chrysene                       | U                    | 1700 | µg/l        | 0.10        | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10   | < 0.10  |
| Benzo[b]fluoranthene           | U                    | 1700 | µg/l        | 0.10        | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10   | < 0.10  |
| Benzo[k]fluoranthene           | U                    | 1700 | µg/l        | 0.10        | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10   | < 0.10  |
| Benzo[a]pyrene                 | U                    | 1700 | µg/l        | 0.10        | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10   | < 0.10  |
| Indeno(1,2,3-c,d)Pyrene        | U                    | 1700 | µg/l        | 0.10        | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10   | < 0.10  |
| Dibenz(a,h)Anthracene          | U                    | 1700 | µg/l        | 0.10        | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10   | < 0.10  |
| Benzo[g,h,i]perylene           | U                    | 1700 | µg/l        | 0.10        | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10   | < 0.10  |
| Total Of 16 PAH's              | U                    | 1700 | µg/l        | 2.0         | < 2.0       | < 2.0       | < 2.0       | < 2.0       | < 2.0    | < 2.0   |
| Tributyl Tin                   | N                    | 1730 | µg/l        | 0.0500      | < 0.050     | < 0.050     | < 0.050     | < 0.050     | < 0.050  | < 0.050 |
| PCB 28                         | N                    | 1815 | µg/l        | 0.010       | < 0.010     | < 0.010     | < 0.010     | < 0.010     | < 0.010  | < 0.010 |
| PCB 52                         | N                    | 1815 | µg/l        | 0.010       | < 0.010     | < 0.010     | < 0.010     | < 0.010     | < 0.010  | < 0.010 |
| PCB 90+101                     | N                    | 1815 | µg/l        | 0.010       | < 0.010     | < 0.010     | < 0.010     | < 0.010     | < 0.010  | < 0.010 |
| PCB 118                        | N                    | 1815 | µg/l        | 0.010       | < 0.010     | < 0.010     | < 0.010     | < 0.010     | < 0.010  | < 0.010 |
| PCB 153                        | N                    | 1815 | µg/l        | 0.010       | < 0.010     | < 0.010     | < 0.010     | < 0.010     | < 0.010  | < 0.010 |
| PCB 138                        | N                    | 1815 | µg/l        | 0.010       | < 0.010     | < 0.010     | < 0.010     | < 0.010     | < 0.010  | < 0.010 |
| PCB 180                        | N                    | 1815 | µg/l        | 0.010       | < 0.010     | < 0.010     | < 0.010     | < 0.010     | < 0.010  | < 0.010 |
| Total PCBs (7 congeners)       | N                    | 1815 | µg/l        | 0.010       | < 0.010     | < 0.010     | < 0.010     | < 0.010     | < 0.010  | < 0.010 |

**Project: C6023 Bantry Inner Harbour Development**

| Client: <b>BAM Contractors</b> | Chemtest Job No.:    |      |       |        | 16-30329       | 16-30329       | 16-30329       | 16-30329       |
|--------------------------------|----------------------|------|-------|--------|----------------|----------------|----------------|----------------|
| Quotation No.: Q16-07624       | Chemtest Sample ID.: |      |       |        | 389277         | 389278         | 389279         | 389280         |
| Order No.: C6023-0032          | Client Sample Ref.:  |      |       |        | SW-MO1         | SW-MO1         | SW-MO1         | SW-MO1         |
|                                | Client Sample ID.:   |      |       |        | REF NO.1 (1-3) | REF NO.1 (1-3) | REF NO 1 (1-3) | REF NO 1 (1-3) |
|                                | Sample Type:         |      |       |        | WATER          | WATER          | WATER          | WATER          |
|                                | Top Depth (m):       |      |       |        | 3.00           | 3.00           | 3.00           | 3.00           |
|                                | Date Sampled:        |      |       |        | 05-Dec-2016    | 06-Dec-2016    | 07-Dec-2016    | 08-Dec-2016    |
| Determinand                    | Accred.              | SOP  | Units | LOD    |                |                |                |                |
| Suspended Solids At 105C       | U                    | 1030 | mg/l  | 5.0    | < 5.0          | < 5.0          | < 5.0          | < 5.0          |
| Turbidity                      | N                    | 1060 | NTU   | 1.0    | < 1.0          | 2.1            | 1.2            | 1.9            |
| Arsenic (Dissolved)            | U                    | 1450 | µg/l  | 1.0    | < 1.0          | 1.1            | 1.3            | 1.3            |
| Cadmium (Dissolved)            | U                    | 1450 | µg/l  | 0.080  | < 0.080        | < 0.080        | < 0.080        | < 0.080        |
| Chromium (Dissolved)           | U                    | 1450 | µg/l  | 1.0    | 28             | 24             | 29             | 28             |
| Copper (Dissolved)             | U                    | 1450 | µg/l  | 1.0    | 42             | 37             | 31             | 34             |
| Mercury (Dissolved)            | U                    | 1450 | µg/l  | 0.50   | 0.50           | < 0.50         | < 0.50         | < 0.50         |
| Nickel (Dissolved)             | U                    | 1450 | µg/l  | 1.0    | 6.2            | 5.8            | 5.6            | 6.4            |
| Lead (Dissolved)               | U                    | 1450 | µg/l  | 1.0    | < 1.0          | < 1.0          | < 1.0          | < 1.0          |
| Selenium (Dissolved)           | U                    | 1450 | µg/l  | 1.0    | < 1.0          | < 1.0          | < 1.0          | < 1.0          |
| Zinc (Dissolved)               | U                    | 1450 | µg/l  | 1.0    | 84             | 94             | 79             | 86             |
| Total TPH >C6-C40              | U                    | 1670 | µg/l  | 10     | < 10           | < 10           | < 10           | < 10           |
| Naphthalene                    | U                    | 1700 | µg/l  | 0.10   | < 0.10         | < 0.10         | < 0.10         | < 0.10         |
| Acenaphthylene                 | U                    | 1700 | µg/l  | 0.10   | < 0.10         | < 0.10         | < 0.10         | < 0.10         |
| Acenaphthene                   | U                    | 1700 | µg/l  | 0.10   | < 0.10         | < 0.10         | < 0.10         | < 0.10         |
| Fluorene                       | U                    | 1700 | µg/l  | 0.10   | < 0.10         | < 0.10         | < 0.10         | < 0.10         |
| Phenanthrene                   | U                    | 1700 | µg/l  | 0.10   | < 0.10         | < 0.10         | < 0.10         | < 0.10         |
| Anthracene                     | U                    | 1700 | µg/l  | 0.10   | < 0.10         | < 0.10         | < 0.10         | < 0.10         |
| Fluoranthene                   | U                    | 1700 | µg/l  | 0.10   | < 0.10         | < 0.10         | < 0.10         | < 0.10         |
| Pyrene                         | U                    | 1700 | µg/l  | 0.10   | < 0.10         | < 0.10         | < 0.10         | < 0.10         |
| Benzo[a]anthracene             | U                    | 1700 | µg/l  | 0.10   | < 0.10         | < 0.10         | < 0.10         | < 0.10         |
| Chrysene                       | U                    | 1700 | µg/l  | 0.10   | < 0.10         | < 0.10         | < 0.10         | < 0.10         |
| Benzo[b]fluoranthene           | U                    | 1700 | µg/l  | 0.10   | < 0.10         | < 0.10         | < 0.10         | < 0.10         |
| Benzo[k]fluoranthene           | U                    | 1700 | µg/l  | 0.10   | < 0.10         | < 0.10         | < 0.10         | < 0.10         |
| Benzo[a]pyrene                 | U                    | 1700 | µg/l  | 0.10   | < 0.10         | < 0.10         | < 0.10         | < 0.10         |
| Indeno(1,2,3-c,d)Pyrene        | U                    | 1700 | µg/l  | 0.10   | < 0.10         | < 0.10         | < 0.10         | < 0.10         |
| Dibenz(a,h)Anthracene          | U                    | 1700 | µg/l  | 0.10   | < 0.10         | < 0.10         | < 0.10         | < 0.10         |
| Benzo[g,h,i]perylene           | U                    | 1700 | µg/l  | 0.10   | < 0.10         | < 0.10         | < 0.10         | < 0.10         |
| Total Of 16 PAH's              | U                    | 1700 | µg/l  | 2.0    | < 2.0          | < 2.0          | < 2.0          | < 2.0          |
| Tributyl Tin                   | N                    | 1730 | µg/l  | 0.0500 | < 0.050        | < 0.050        | < 0.050        | < 0.050        |
| PCB 28                         | N                    | 1815 | µg/l  | 0.010  | < 0.010        | < 0.010        | < 0.010        | < 0.010        |
| PCB 52                         | N                    | 1815 | µg/l  | 0.010  | < 0.010        | < 0.010        | < 0.010        | < 0.010        |
| PCB 90+101                     | N                    | 1815 | µg/l  | 0.010  | < 0.010        | < 0.010        | < 0.010        | < 0.010        |
| PCB 118                        | N                    | 1815 | µg/l  | 0.010  | < 0.010        | < 0.010        | < 0.010        | < 0.010        |
| PCB 153                        | N                    | 1815 | µg/l  | 0.010  | < 0.010        | < 0.010        | < 0.010        | < 0.010        |
| PCB 138                        | N                    | 1815 | µg/l  | 0.010  | < 0.010        | < 0.010        | < 0.010        | < 0.010        |
| PCB 180                        | N                    | 1815 | µg/l  | 0.010  | < 0.010        | < 0.010        | < 0.010        | < 0.010        |

**Project: C6023 Bantry Inner Harbour Development**

|                                |                             |            |              |            |                |                |                |                |
|--------------------------------|-----------------------------|------------|--------------|------------|----------------|----------------|----------------|----------------|
| <b>Client: BAM Contractors</b> | <b>Chemtest Job No.:</b>    |            |              |            | 16-30329       | 16-30329       | 16-30329       | 16-30329       |
| Quotation No.: Q16-07624       | <b>Chemtest Sample ID.:</b> |            |              |            | 389277         | 389278         | 389279         | 389280         |
| Order No.: C6023-0032          | Client Sample Ref.:         |            |              |            | SW-MO1         | SW-MO1         | SW-MO1         | SW-MO1         |
|                                | Client Sample ID.:          |            |              |            | REF NO.1 (1-3) | REF NO.1 (1-3) | REF NO 1 (1-3) | REF NO 1 (1-3) |
|                                | Sample Type:                |            |              |            | WATER          | WATER          | WATER          | WATER          |
|                                | Top Depth (m):              |            |              |            | 3.00           | 3.00           | 3.00           | 3.00           |
|                                | Date Sampled:               |            |              |            | 05-Dec-2016    | 06-Dec-2016    | 07-Dec-2016    | 08-Dec-2016    |
| <b>Determinand</b>             | <b>Accred.</b>              | <b>SOP</b> | <b>Units</b> | <b>LOD</b> |                |                |                |                |
| Total PCBs (7 congeners)       | N                           | 1815       | µg/l         | 0.010      | < 0.010        | < 0.010        | < 0.010        | < 0.010        |

**Project: C6023 - Bantry Inner Harbour Development**

| Client: <b>BAM Contractors</b> |         | Chemtest Job No.:    |       | 16-30955    | 16-30955    | 16-30955    | 16-30955    | 16-30955    | 16-30955    |         |
|--------------------------------|---------|----------------------|-------|-------------|-------------|-------------|-------------|-------------|-------------|---------|
| Quotation No.: Q16-07624       |         | Chemtest Sample ID.: |       | 392219      | 392220      | 392221      | 392222      | 395440      | 395441      |         |
| Order No.: C6023 - 0032        |         | Client Sample Ref.:  |       | SW-MO1      | SW-MO1      | SW-MO1      | SW-MO1      | SW-MO1      | SW-MO1      |         |
|                                |         | Client Sample ID.:   |       | W1          | W1          | W1          | W1          | W1          | W1          |         |
|                                |         | Sample Type:         |       | WATER       | WATER       | WATER       | WATER       | WATER       | WATER       |         |
|                                |         | Top Depth (m):       |       | 3.00        | 3.00        | 3.00        | 3.00        | 3.00        | 3.00        |         |
|                                |         | Date Sampled:        |       | 09-Dec-2016 | 10-Dec-2016 | 12-Dec-2016 | 13-Dec-2016 | 14-Dec-2016 | 15-Dec-2016 |         |
| Determinand                    | Accred. | SOP                  | Units | LOD         |             |             |             |             |             |         |
| Suspended Solids At 105C       | U       | 1030                 | mg/l  | 5.0         | 220         | 170         | 370         | 370         | 7.0         | 5.0     |
| Turbidity                      | N       | 1060                 | NTU   | 1.0         | 1.1         | < 1.0       | < 1.0       | 1.8         | 3.4         | 6.3     |
| Arsenic (Dissolved)            | U       | 1450                 | µg/l  | 1.0         | 5.3         | 4.4         | 5.0         | 4.1         | 4.1         | 4.0     |
| Cadmium (Dissolved)            | U       | 1450                 | µg/l  | 0.080       | < 0.080     | < 0.080     | < 0.080     | < 0.080     | < 0.080     | < 0.080 |
| Chromium (Dissolved)           | U       | 1450                 | µg/l  | 1.0         | 24          | 26          | 24          | 19          | 20          | 18      |
| Copper (Dissolved)             | U       | 1450                 | µg/l  | 1.0         | 24          | 20          | 23          | 17          | 16          | 19      |
| Mercury (Dissolved)            | U       | 1450                 | µg/l  | 0.50        | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50  |
| Nickel (Dissolved)             | U       | 1450                 | µg/l  | 1.0         | 5.5         | 6.1         | 5.6         | 5.5         | 9.2         | 10      |
| Lead (Dissolved)               | U       | 1450                 | µg/l  | 1.0         | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0   |
| Selenium (Dissolved)           | U       | 1450                 | µg/l  | 1.0         | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0   |
| Zinc (Dissolved)               | U       | 1450                 | µg/l  | 1.0         | 71          | 82          | 74          | 73          | 96          | 110     |
| Total TPH >C6-C40              | U       | 1670                 | µg/l  | 10          | < 10        | < 10        | < 10        | < 10        | < 10        | < 10    |
| Naphthalene                    | U       | 1700                 | µg/l  | 0.10        | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10  |
| Acenaphthylene                 | U       | 1700                 | µg/l  | 0.10        | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10  |
| Acenaphthene                   | U       | 1700                 | µg/l  | 0.10        | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10  |
| Fluorene                       | U       | 1700                 | µg/l  | 0.10        | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10  |
| Phenanthrene                   | U       | 1700                 | µg/l  | 0.10        | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10  |
| Anthracene                     | U       | 1700                 | µg/l  | 0.10        | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10  |
| Fluoranthene                   | U       | 1700                 | µg/l  | 0.10        | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10  |
| Pyrene                         | U       | 1700                 | µg/l  | 0.10        | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10  |
| Benzo[a]anthracene             | U       | 1700                 | µg/l  | 0.10        | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10  |
| Chrysene                       | U       | 1700                 | µg/l  | 0.10        | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10  |
| Benzo[b]fluoranthene           | U       | 1700                 | µg/l  | 0.10        | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10  |
| Benzo[k]fluoranthene           | U       | 1700                 | µg/l  | 0.10        | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10  |
| Benzo[a]pyrene                 | U       | 1700                 | µg/l  | 0.10        | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10  |
| Indeno(1,2,3-c,d)Pyrene        | U       | 1700                 | µg/l  | 0.10        | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10  |
| Dibenz(a,h)Anthracene          | U       | 1700                 | µg/l  | 0.10        | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10  |
| Benzo[g,h,i]perylene           | U       | 1700                 | µg/l  | 0.10        | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10  |
| Total Of 16 PAH's              | U       | 1700                 | µg/l  | 2.0         | < 2.0       | < 2.0       | < 2.0       | < 2.0       | < 2.0       | < 2.0   |
| Tributyl Tin                   | N       | 1730                 | µg/l  | 0.0500      | < 0.050     | < 0.050     | < 0.050     | < 0.050     | < 0.050     | < 0.050 |
| PCB 28                         | N       | 1815                 | µg/l  | 0.010       | < 0.010     | < 0.010     | < 0.010     | < 0.010     | < 0.010     | < 0.010 |
| PCB 52                         | N       | 1815                 | µg/l  | 0.010       | < 0.010     | < 0.010     | < 0.010     | < 0.010     | < 0.010     | < 0.010 |
| PCB 90+101                     | N       | 1815                 | µg/l  | 0.010       | < 0.010     | < 0.010     | < 0.010     | < 0.010     | < 0.010     | < 0.010 |
| PCB 118                        | N       | 1815                 | µg/l  | 0.010       | < 0.010     | < 0.010     | < 0.010     | < 0.010     | < 0.010     | < 0.010 |
| PCB 153                        | N       | 1815                 | µg/l  | 0.010       | < 0.010     | < 0.010     | < 0.010     | < 0.010     | < 0.010     | < 0.010 |
| PCB 138                        | N       | 1815                 | µg/l  | 0.010       | < 0.010     | < 0.010     | < 0.010     | < 0.010     | < 0.010     | < 0.010 |
| PCB 180                        | N       | 1815                 | µg/l  | 0.010       | < 0.010     | < 0.010     | < 0.010     | < 0.010     | < 0.010     | < 0.010 |
| Total PCBs (7 congeners)       | N       | 1815                 | µg/l  | 0.010       | < 0.010     | < 0.010     | < 0.010     | < 0.010     | < 0.010     | < 0.010 |

**Project: C6023 - Bantry Inner Harbour Development**

| Client: <b>BAM Contractors</b> | Chemtest Job No.:    |      | 16-31406    | 16-31406    | 16-31406    | 16-31406    | 16-31406    | 16-31406    | 16-31406    | 16-31406    | 16-31406    | 16-31406   | 16-31406   |
|--------------------------------|----------------------|------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|------------|
| Quotation No.: Q16-07624       | Chemtest Sample ID.: |      | 394642      | 394643      | 394644      | 394645      | 394646      | 394647      | 394648      | 394649      | 394650      |            |            |
| Order No.: C6023 - 0032        | Client Sample Ref.:  |      | SW-MO1      | SW-MO1      | SW-MO1      | S02         | S02         | S02         | S02         | S02         | S02         |            |            |
|                                | Client Sample ID.:   |      | W1          | W1          | W1          | Outer Buoy  | Outer Buoy  | Outer Buoy  | Outer Buoy  | Outer Buoy  | Outer Buoy  |            |            |
|                                | Sample Type:         |      | WATER       | WATER       | WATER       | WATER       | WATER       | WATER       | WATER       | WATER       | WATER       |            |            |
|                                | Top Depth (m):       |      | 3.00        | 3.00        | 3.00        | 3.00        | 3.00        | 3.00        | 3.00        | 3.00        | 3.00        |            |            |
|                                | Date Sampled:        |      | 16-Dec-2016 | 19-Dec-2016 | 20-Dec-2016 | 12-Dec-2016 | 13-Dec-2016 | 14-Dec-2016 | 15-Dec-2016 | 16-Dec-2016 | 19-Dec-2016 |            |            |
| Determinand                    | Accred.              | SOP  | Units       | LOD         |             |             |             |             |             |             |             |            |            |
| Suspended Solids At 105C       | U                    | 1030 | mg/l        | 5.0         | < 5.0       | < 5.0       | < 5.0       | < 5.0       | < 5.0       | < 5.0       | < 5.0       | < 5.0      | < 5.0      |
| Turbidity                      | N                    | 1060 | NTU         | 1.0         | 2.7         | 3.2         | 1.3         | 1.6         | 1.6         | 1.0         | 1.5         | 1.6        | 1.6        |
| Arsenic (Dissolved)            | U                    | 1450 | µg/l        | 1.0         | 3.2         | 4.8         | 5.1         | 4.1         | 4.9         | 4.0         | 3.2         | 4.6        | 3.6        |
| Cadmium (Dissolved)            | U                    | 1450 | µg/l        | 0.080       | < 0.080     | < 0.080     | < 0.080     | < 0.080     | < 0.080     | 0.10        | < 0.080     | 0.091      | < 0.080    |
| Chromium (Dissolved)           | U                    | 1450 | µg/l        | 1.0         | 18          | 26          | 22          | 12          | 19          | 19          | 7.5         | 22         | 16         |
| Copper (Dissolved)             | U                    | 1450 | µg/l        | 1.0         | 16          | 53          | 47          | 21          | 27          | 21          | 16          | 21         | 13         |
| Mercury (Dissolved)            | U                    | 1450 | µg/l        | 0.50        | 1.1         | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50     | < 0.50     |
| Nickel (Dissolved)             | U                    | 1450 | µg/l        | 1.0         | 7.3         | 7.5         | 7.5         | 7.6         | 7.4         | 7.5         | 8.3         | 8.8        | 8.6        |
| Lead (Dissolved)               | U                    | 1450 | µg/l        | 1.0         | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0      | < 1.0      |
| Selenium (Dissolved)           | U                    | 1450 | µg/l        | 1.0         | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0      | < 1.0      |
| Zinc (Dissolved)               | U                    | 1450 | µg/l        | 1.0         | 34          | 100         | 87          | 100         | 99          | 87          | 95          | 100        | 100        |
| Total TPH >C6-C40              | U                    | 1670 | µg/l        | 10          | < 10        | < 10        | < 10        | < 10        | < 10        | < 10        | < 10        | < 10       | < 10       |
| Naphthalene                    | U                    | 1700 | µg/l        | 0.10        | < 0.10      | < 0.10      | < 0.10      | [C] < 0.10  | [C] < 0.10  | [C] < 0.10  | [C] < 0.10  | [C] < 0.10 | [C] < 0.10 |
| Acenaphthylene                 | U                    | 1700 | µg/l        | 0.10        | < 0.10      | < 0.10      | < 0.10      | [C] < 0.10  | [C] < 0.10  | [C] < 0.10  | [C] < 0.10  | [C] < 0.10 | [C] < 0.10 |
| Acenaphthene                   | U                    | 1700 | µg/l        | 0.10        | < 0.10      | < 0.10      | < 0.10      | [C] < 0.10  | [C] < 0.10  | [C] < 0.10  | [C] < 0.10  | [C] < 0.10 | [C] < 0.10 |
| Fluorene                       | U                    | 1700 | µg/l        | 0.10        | < 0.10      | < 0.10      | < 0.10      | [C] < 0.10  | [C] < 0.10  | [C] < 0.10  | [C] < 0.10  | [C] < 0.10 | [C] < 0.10 |
| Phenanthrene                   | U                    | 1700 | µg/l        | 0.10        | < 0.10      | < 0.10      | < 0.10      | [C] < 0.10  | [C] < 0.10  | [C] < 0.10  | [C] < 0.10  | [C] < 0.10 | [C] < 0.10 |
| Anthracene                     | U                    | 1700 | µg/l        | 0.10        | < 0.10      | < 0.10      | < 0.10      | [C] < 0.10  | [C] < 0.10  | [C] < 0.10  | [C] < 0.10  | [C] < 0.10 | [C] < 0.10 |
| Fluoranthene                   | U                    | 1700 | µg/l        | 0.10        | < 0.10      | < 0.10      | < 0.10      | [C] < 0.10  | [C] < 0.10  | [C] < 0.10  | [C] < 0.10  | [C] < 0.10 | [C] < 0.10 |
| Pyrene                         | U                    | 1700 | µg/l        | 0.10        | < 0.10      | < 0.10      | < 0.10      | [C] < 0.10  | [C] < 0.10  | [C] < 0.10  | [C] < 0.10  | [C] < 0.10 | [C] < 0.10 |
| Benzo[a]anthracene             | U                    | 1700 | µg/l        | 0.10        | < 0.10      | < 0.10      | < 0.10      | [C] < 0.10  | [C] < 0.10  | [C] < 0.10  | [C] < 0.10  | [C] < 0.10 | [C] < 0.10 |
| Chrysene                       | U                    | 1700 | µg/l        | 0.10        | < 0.10      | < 0.10      | < 0.10      | [C] < 0.10  | [C] < 0.10  | [C] < 0.10  | [C] < 0.10  | [C] < 0.10 | [C] < 0.10 |
| Benzo[b]fluoranthene           | U                    | 1700 | µg/l        | 0.10        | < 0.10      | < 0.10      | < 0.10      | [C] < 0.10  | [C] < 0.10  | [C] < 0.10  | [C] < 0.10  | [C] < 0.10 | [C] < 0.10 |
| Benzo[k]fluoranthene           | U                    | 1700 | µg/l        | 0.10        | < 0.10      | < 0.10      | < 0.10      | [C] < 0.10  | [C] < 0.10  | [C] < 0.10  | [C] < 0.10  | [C] < 0.10 | [C] < 0.10 |
| Benzo[a]pyrene                 | U                    | 1700 | µg/l        | 0.10        | < 0.10      | < 0.10      | < 0.10      | [C] < 0.10  | [C] < 0.10  | [C] < 0.10  | [C] < 0.10  | [C] < 0.10 | [C] < 0.10 |
| Indeno(1,2,3-c,d)Pyrene        | U                    | 1700 | µg/l        | 0.10        | < 0.10      | < 0.10      | < 0.10      | [C] < 0.10  | [C] < 0.10  | [C] < 0.10  | [C] < 0.10  | [C] < 0.10 | [C] < 0.10 |
| Dibenz(a,h)Anthracene          | U                    | 1700 | µg/l        | 0.10        | < 0.10      | < 0.10      | < 0.10      | [C] < 0.10  | [C] < 0.10  | [C] < 0.10  | [C] < 0.10  | [C] < 0.10 | [C] < 0.10 |
| Benzo[g,h,i]perylene           | U                    | 1700 | µg/l        | 0.10        | < 0.10      | < 0.10      | < 0.10      | [C] < 0.10  | [C] < 0.10  | [C] < 0.10  | [C] < 0.10  | [C] < 0.10 | [C] < 0.10 |
| Total Of 16 PAH's              | U                    | 1700 | µg/l        | 2.0         | < 2.0       | < 2.0       | < 2.0       | [C] < 2.0   | [C] < 2.0   | [C] < 2.0   | [C] < 2.0   | [C] < 2.0  | [C] < 2.0  |
| Tributyl Tin                   | N                    | 1730 | µg/l        | 0.0500      | < 0.050     | < 0.050     | < 0.050     | < 0.050     | < 0.050     | < 0.050     | < 0.050     | < 0.050    | < 0.050    |
| PCB 28                         | N                    | 1815 | µg/l        | 0.010       | < 0.010     | < 0.010     | < 0.010     | < 0.010     | < 0.010     | < 0.010     | < 0.010     | < 0.010    | < 0.010    |
| PCB 52                         | N                    | 1815 | µg/l        | 0.010       | < 0.010     | < 0.010     | < 0.010     | < 0.010     | < 0.010     | < 0.010     | < 0.010     | < 0.010    | < 0.010    |
| PCB 90+101                     | N                    | 1815 | µg/l        | 0.010       | < 0.010     | < 0.010     | < 0.010     | < 0.010     | < 0.010     | < 0.010     | < 0.010     | < 0.010    | < 0.010    |
| PCB 118                        | N                    | 1815 | µg/l        | 0.010       | < 0.010     | < 0.010     | < 0.010     | < 0.010     | < 0.010     | < 0.010     | < 0.010     | < 0.010    | < 0.010    |
| PCB 153                        | N                    | 1815 | µg/l        | 0.010       | < 0.010     | < 0.010     | < 0.010     | < 0.010     | < 0.010     | < 0.010     | < 0.010     | < 0.010    | < 0.010    |
| PCB 138                        | N                    | 1815 | µg/l        | 0.010       | < 0.010     | < 0.010     | < 0.010     | < 0.010     | < 0.010     | < 0.010     | < 0.010     | < 0.010    | < 0.010    |
| PCB 180                        | N                    | 1815 | µg/l        | 0.010       | < 0.010     | < 0.010     | < 0.010     | < 0.010     | < 0.010     | < 0.010     | < 0.010     | < 0.010    | < 0.010    |
| Total PCBs (7 congeners)       | N                    | 1815 | µg/l        | 0.010       | < 0.010     | < 0.010     | < 0.010     | < 0.010     | < 0.010     | < 0.010     | < 0.010     | < 0.010    | < 0.010    |

**Project: C6023 - Bantry Inner Harbour Development**

| <b>Client: BAM Contractors</b> | <b>Chemtest Job No.:</b>    |      |       |        | 16-31406    |
|--------------------------------|-----------------------------|------|-------|--------|-------------|
| Quotation No.: Q16-07624       | <b>Chemtest Sample ID.:</b> |      |       |        | 394651      |
| Order No.: C6023 - 0032        | Client Sample Ref.:         |      |       |        | S02         |
|                                | Client Sample ID.:          |      |       |        | Outer Buoy  |
|                                | Sample Type:                |      |       |        | WATER       |
|                                | Top Depth (m):              |      |       |        | 3.00        |
|                                | Date Sampled:               |      |       |        | 20-Dec-2016 |
| Determinand                    | Accred.                     | SOP  | Units | LOD    |             |
| Suspended Solids At 105C       | U                           | 1030 | mg/l  | 5.0    | < 5.0       |
| Turbidity                      | N                           | 1060 | NTU   | 1.0    | < 1.0       |
| Arsenic (Dissolved)            | U                           | 1450 | µg/l  | 1.0    | 4.7         |
| Cadmium (Dissolved)            | U                           | 1450 | µg/l  | 0.080  | < 0.080     |
| Chromium (Dissolved)           | U                           | 1450 | µg/l  | 1.0    | 19          |
| Copper (Dissolved)             | U                           | 1450 | µg/l  | 1.0    | 20          |
| Mercury (Dissolved)            | U                           | 1450 | µg/l  | 0.50   | < 0.50      |
| Nickel (Dissolved)             | U                           | 1450 | µg/l  | 1.0    | 9.4         |
| Lead (Dissolved)               | U                           | 1450 | µg/l  | 1.0    | < 1.0       |
| Selenium (Dissolved)           | U                           | 1450 | µg/l  | 1.0    | < 1.0       |
| Zinc (Dissolved)               | U                           | 1450 | µg/l  | 1.0    | 110         |
| Total TPH >C6-C40              | U                           | 1670 | µg/l  | 10     | < 10        |
| Naphthalene                    | U                           | 1700 | µg/l  | 0.10   | [C] < 0.10  |
| Acenaphthylene                 | U                           | 1700 | µg/l  | 0.10   | [C] < 0.10  |
| Acenaphthene                   | U                           | 1700 | µg/l  | 0.10   | [C] < 0.10  |
| Fluorene                       | U                           | 1700 | µg/l  | 0.10   | [C] < 0.10  |
| Phenanthrene                   | U                           | 1700 | µg/l  | 0.10   | [C] < 0.10  |
| Anthracene                     | U                           | 1700 | µg/l  | 0.10   | [C] < 0.10  |
| Fluoranthene                   | U                           | 1700 | µg/l  | 0.10   | [C] < 0.10  |
| Pyrene                         | U                           | 1700 | µg/l  | 0.10   | [C] < 0.10  |
| Benzo[a]anthracene             | U                           | 1700 | µg/l  | 0.10   | [C] < 0.10  |
| Chrysene                       | U                           | 1700 | µg/l  | 0.10   | [C] < 0.10  |
| Benzo[b]fluoranthene           | U                           | 1700 | µg/l  | 0.10   | [C] < 0.10  |
| Benzo[k]fluoranthene           | U                           | 1700 | µg/l  | 0.10   | [C] < 0.10  |
| Benzo[a]pyrene                 | U                           | 1700 | µg/l  | 0.10   | [C] < 0.10  |
| Indeno(1,2,3-c,d)Pyrene        | U                           | 1700 | µg/l  | 0.10   | [C] < 0.10  |
| Dibenz(a,h)Anthracene          | U                           | 1700 | µg/l  | 0.10   | [C] < 0.10  |
| Benzo[g,h,i]perylene           | U                           | 1700 | µg/l  | 0.10   | [C] < 0.10  |
| Total Of 16 PAH's              | U                           | 1700 | µg/l  | 2.0    | [C] < 2.0   |
| Tributyl Tin                   | N                           | 1730 | µg/l  | 0.0500 | < 0.050     |
| PCB 28                         | N                           | 1815 | µg/l  | 0.010  | < 0.010     |
| PCB 52                         | N                           | 1815 | µg/l  | 0.010  | < 0.010     |
| PCB 90+101                     | N                           | 1815 | µg/l  | 0.010  | < 0.010     |
| PCB 118                        | N                           | 1815 | µg/l  | 0.010  | < 0.010     |
| PCB 153                        | N                           | 1815 | µg/l  | 0.010  | < 0.010     |
| PCB 138                        | N                           | 1815 | µg/l  | 0.010  | < 0.010     |
| PCB 180                        | N                           | 1815 | µg/l  | 0.010  | < 0.010     |
| Total PCBs (7 congeners)       | N                           | 1815 | µg/l  | 0.010  | < 0.010     |