

## A. Statement of Compliance - Licence Details

**ALL Licence holders must check that the Licence details in Section A are correct.**

If there are changes to any of these details, **you must advise Environment Protection Authority (EPA) and apply as soon as possible for a variation to your Licence or for a Licence transfer.**

Licence variation and transfer application forms are available on the EPA website at: <http://www.epa.nsw.gov.au/licensing-and-regulation/licensing> or from regional offices of the EPA, or by contacting by telephone 02 9995 5700.

If you are applying to vary or transfer your Licence, you must still complete and submit this Annual Return.

### A1. Licence holder

**Licence number** : 5862  
**Licence holder** : WOLLONGONG CITY COUNCIL  
**Trading name (if applicable)** :  
**ABN** : 63 139 525 939  
**ACN** :  
**Reporting period** : From: 29-5-2019 To: 28-5-2020

### A2. Premises to which Licence Applies (if applicable)

**Common name (if any)** : WHYTES GULLY WASTE DISPOSAL FACILITY  
**Premises** : REDDALLS ROAD KEMBLA GRANGE 2526 NSW

### A3. Activities to which Licence Applies

Waste disposal (application to land)

### A4. Other Activities (if applicable)

### A5. Fee-Based Activity Classifications

**Note** that the fee based activity classification is used to calculate the administrative fee.

| Fee-based activity                    | Activity scale | Unit of measure |
|---------------------------------------|----------------|-----------------|
| Waste disposal by application to land | > 0.00         | capacity        |

### A6. Assessable Pollutants (if applicable)

**Note** that the identification of assessable pollutants is used to calculate the **load-based fee**. The following assessable pollutants are identified for the fee-based activity classifications in the licence:

## B. Monitoring and Complaints Summary

### B1. Number of Pollution Complaints

| Pollution Complaint Category   | Complaints |
|--|------------|
| Air  | 20         |
| Water  | 0          |
| Noise  | 0          |
| Waste  | 0          |
| Other  | 0          |
| <b>Total complaints recorded by the licensee during the reporting period</b> | <b>20</b>  |

### B2. Concentration Monitoring Summary

For each concentration monitoring point identified in your licence, details are displayed below. If concentration monitoring is not required by your licence, **no data** will appear below. If data was provided from an uploaded file, the file name will be displayed below instead of any data. **Note** that this does not exclude the need to conduct appropriate concentration monitoring of assessable pollutants as required by load-based licensing (if applicable).

#### Discharge & Monitoring Point 1

Stormwater monitoring and discharge point, Outlet at Reddalls Road - Monitoring point labelled 1 on Figure 13 titled "Proposed Surface Water Monitoring Locations" dated 26 March 2012 (Whytes Gully New Landfill Cell EA - Volume IV). E297777 N6183972

| Pollutant                         | Unit of measure             | No. of samples required | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------------------------------|-----------------------------|-------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Alkalinity (as calcium carbonate) | milligrams per litre        |                         |                                       |                     |                |                      |
| Ammonia                           | milligrams per litre        |                         |                                       |                     |                |                      |
| Calcium                           | milligrams per litre        |                         |                                       |                     |                |                      |
| Chloride                          | milligrams per litre        |                         |                                       |                     |                |                      |
| Conductivity                      | microsiemens per centimetre |                         |                                       |                     |                |                      |
| Dissolved Oxygen                  | milligrams per litre        |                         |                                       |                     |                |                      |

|                        |                      |  |  |  |  |  |
|------------------------|----------------------|--|--|--|--|--|
| Filterable iron        | milligrams per litre |  |  |  |  |  |
| Fluoride               | milligrams per litre |  |  |  |  |  |
| Magnesium              | milligrams per litre |  |  |  |  |  |
| Nitrate                | milligrams per litre |  |  |  |  |  |
| pH                     | pH                   |  |  |  |  |  |
| Potassium              | milligrams per litre |  |  |  |  |  |
| Sodium                 | milligrams per litre |  |  |  |  |  |
| Sulfate                | milligrams per litre |  |  |  |  |  |
| Temperature            | degrees Celsius      |  |  |  |  |  |
| Total organic carbon   | milligrams per litre |  |  |  |  |  |
| Total Phenolics        | milligrams per litre |  |  |  |  |  |
| Total suspended solids | milligrams per litre |  |  |  |  |  |

### Monitoring Point 3

Surface gas monitoring, Areas where intermediate or final cover has been placed.

| Pollutant | Unit of measure   | No. of samples required | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------|-------------------|-------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Methane   | percent by volume |                         |                                       |                     |                |                      |

### Monitoring Point 4

Gas accumulation monitoring, Inside all buildings within 250 metres of deposited waste.

| Pollutant | Unit of measure   | No. of samples required | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------|-------------------|-------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Methane   | percent by volume |                         |                                       |                     |                |                      |

### Monitoring Point 5

Groundwater quality monitoring , Monitoring point labelled GABH02 on Figure 15 titled "Current Site Investigation Locations" dated 6 March 2012 (Whytes Gully New Landfill Cell EA - Volume IV). E297754.9 N6184377

| Pollutant                         | Unit of measure             | No. of samples required | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------------------------------|-----------------------------|-------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Alkalinity (as calcium carbonate) | milligrams per litre        |                         |                                       |                     |                |                      |
| Aluminium                         | milligrams per litre        |                         |                                       |                     |                |                      |
| Arsenic                           | milligrams per litre        |                         |                                       |                     |                |                      |
| Barium                            | milligrams per litre        |                         |                                       |                     |                |                      |
| Benzene                           | milligrams per litre        |                         |                                       |                     |                |                      |
| Cadmium                           | milligrams per litre        |                         |                                       |                     |                |                      |
| Calcium                           | milligrams per litre        |                         |                                       |                     |                |                      |
| Chloride                          | milligrams per litre        |                         |                                       |                     |                |                      |
| Chromium (hexavalent)             | milligrams per litre        |                         |                                       |                     |                |                      |
| Chromium (total)                  | milligrams per litre        |                         |                                       |                     |                |                      |
| Cobalt                            | milligrams per litre        |                         |                                       |                     |                |                      |
| Conductivity                      | microsiemens per centimetre |                         |                                       |                     |                |                      |
| Copper                            | milligrams per litre        |                         |                                       |                     |                |                      |
| Ethyl benzene                     | micrograms per litre        |                         |                                       |                     |                |                      |
| Fluoride                          | milligrams per litre        |                         |                                       |                     |                |                      |
| Lead                              | milligrams per litre        |                         |                                       |                     |                |                      |
| Magnesium                         | milligrams per litre        |                         |                                       |                     |                |                      |
| Manganese                         | micrograms per litre        |                         |                                       |                     |                |                      |
| Mercury                           | milligrams per litre        |                         |                                       |                     |                |                      |
| Nitrate                           | milligrams per litre        |                         |                                       |                     |                |                      |
| Nitrite                           | milligrams per litre        |                         |                                       |                     |                |                      |

|                                  |                         |  |  |  |  |  |
|----------------------------------|-------------------------|--|--|--|--|--|
| Nitrogen (ammonia)               | milligrams per litre    |  |  |  |  |  |
| Organochlorine pesticides        | milligrams per litre    |  |  |  |  |  |
| Organophosphate pesticides       | milligrams per litre    |  |  |  |  |  |
| pH                               | pH                      |  |  |  |  |  |
| Polycyclic aromatic hydrocarbons | milligrams per litre    |  |  |  |  |  |
| Potassium                        | milligrams per litre    |  |  |  |  |  |
| Sodium                           | milligrams per litre    |  |  |  |  |  |
| Standing Water Level             | metres                  |  |  |  |  |  |
| Sulfate                          | milligrams per litre    |  |  |  |  |  |
| Toluene                          | milligrams per litre    |  |  |  |  |  |
| Total dissolved solids           | milligrams per litre    |  |  |  |  |  |
| Total organic carbon             | milligrams per litre    |  |  |  |  |  |
| Total petroleum hydrocarbons     | milligrams per litre    |  |  |  |  |  |
| Total Phenolics                  | milligrams per litre    |  |  |  |  |  |
| Xylene                           | milligrams per litre    |  |  |  |  |  |
| Zinc                             | milligrams per kilogram |  |  |  |  |  |

### Monitoring Point 9

Groundwater quality monitoring, Monitoring point labelled GMW102 on Figure 15 titled "Current Site Investigation Locations" dated 6 March 2012 (Whytes Gully New Landfill Cell EA - Volume IV). E297952.6 N6184807

| Pollutant                         | Unit of measure      | No. of samples required | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------------------------------|----------------------|-------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Alkalinity (as calcium carbonate) | milligrams per litre |                         |                                       |                     |                |                      |
| Aluminium                         | milligrams per litre |                         |                                       |                     |                |                      |
| Arsenic                           | milligrams per litre |                         |                                       |                     |                |                      |
| Barium                            | milligrams per litre |                         |                                       |                     |                |                      |

|                                  |                             |  |  |  |  |  |
|----------------------------------|-----------------------------|--|--|--|--|--|
| Benzene                          | milligrams per litre        |  |  |  |  |  |
| Cadmium                          | milligrams per litre        |  |  |  |  |  |
| Calcium                          | milligrams per litre        |  |  |  |  |  |
| Chloride                         | milligrams per litre        |  |  |  |  |  |
| Chromium (hexavalent)            | milligrams per litre        |  |  |  |  |  |
| Chromium (total)                 | milligrams per litre        |  |  |  |  |  |
| Cobalt                           | milligrams per litre        |  |  |  |  |  |
| Conductivity                     | microsiemens per centimetre |  |  |  |  |  |
| Copper                           | milligrams per litre        |  |  |  |  |  |
| Ethyl benzene                    | micrograms per litre        |  |  |  |  |  |
| Fluoride                         | milligrams per litre        |  |  |  |  |  |
| Lead                             | milligrams per litre        |  |  |  |  |  |
| Magnesium                        | milligrams per litre        |  |  |  |  |  |
| Manganese                        | micrograms per litre        |  |  |  |  |  |
| Mercury                          | milligrams per litre        |  |  |  |  |  |
| Nitrate                          | milligrams per litre        |  |  |  |  |  |
| Nitrite                          | milligrams per litre        |  |  |  |  |  |
| Nitrogen (ammonia)               | milligrams per litre        |  |  |  |  |  |
| Organochlorine pesticides        | milligrams per litre        |  |  |  |  |  |
| Organophosphate pesticides       | milligrams per litre        |  |  |  |  |  |
| pH                               | pH                          |  |  |  |  |  |
| Polycyclic aromatic hydrocarbons | milligrams per litre        |  |  |  |  |  |
| Potassium                        | milligrams per litre        |  |  |  |  |  |
| Sodium                           | milligrams per litre        |  |  |  |  |  |
| Standing Water Level             | metres                      |  |  |  |  |  |

|                              |                         |  |  |  |  |  |
|------------------------------|-------------------------|--|--|--|--|--|
| Sulfate                      | milligrams per litre    |  |  |  |  |  |
| Toluene                      | milligrams per litre    |  |  |  |  |  |
| Total dissolved solids       | milligrams per litre    |  |  |  |  |  |
| Total organic carbon         | milligrams per litre    |  |  |  |  |  |
| Total petroleum hydrocarbons | milligrams per litre    |  |  |  |  |  |
| Total Phenolics              | milligrams per litre    |  |  |  |  |  |
| Xylene                       | milligrams per litre    |  |  |  |  |  |
| Zinc                         | milligrams per kilogram |  |  |  |  |  |

### Monitoring Point 10

Groundwater quality monitoring, Monitoring point labelled GMW103 on Figure 15 titled "Current Site Investigation Locations" dated 6 March 2012 (Whytes Gully New Landfill Cell EA - Volume IV). E298470.2 N6184603

| Pollutant                         | Unit of measure      | No. of samples required | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------------------------------|----------------------|-------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Alkalinity (as calcium carbonate) | milligrams per litre |                         |                                       |                     |                |                      |
| Aluminium                         | milligrams per litre |                         |                                       |                     |                |                      |
| Arsenic                           | milligrams per litre |                         |                                       |                     |                |                      |
| Barium                            | milligrams per litre |                         |                                       |                     |                |                      |
| Benzene                           | milligrams per litre |                         |                                       |                     |                |                      |
| Cadmium                           | milligrams per litre |                         |                                       |                     |                |                      |
| Calcium                           | milligrams per litre |                         |                                       |                     |                |                      |
| Chloride                          | milligrams per litre |                         |                                       |                     |                |                      |
| Chromium (hexavalent)             | milligrams per litre |                         |                                       |                     |                |                      |
| Chromium (total)                  | milligrams per litre |                         |                                       |                     |                |                      |
| Cobalt                            | milligrams per litre |                         |                                       |                     |                |                      |

|                                  |                             |  |  |  |  |  |
|----------------------------------|-----------------------------|--|--|--|--|--|
| Conductivity                     | microsiemens per centimetre |  |  |  |  |  |
| Copper                           | milligrams per litre        |  |  |  |  |  |
| Ethyl benzene                    | micrograms per litre        |  |  |  |  |  |
| Fluoride                         | milligrams per litre        |  |  |  |  |  |
| Lead                             | milligrams per litre        |  |  |  |  |  |
| Magnesium                        | milligrams per litre        |  |  |  |  |  |
| Manganese                        | micrograms per litre        |  |  |  |  |  |
| Mercury                          | milligrams per litre        |  |  |  |  |  |
| Nitrate                          | milligrams per litre        |  |  |  |  |  |
| Nitrite                          | milligrams per litre        |  |  |  |  |  |
| Nitrogen (ammonia)               | milligrams per litre        |  |  |  |  |  |
| Organochlorine pesticides        | milligrams per litre        |  |  |  |  |  |
| Organophosphate pesticides       | milligrams per litre        |  |  |  |  |  |
| pH                               | pH                          |  |  |  |  |  |
| Polycyclic aromatic hydrocarbons | milligrams per litre        |  |  |  |  |  |
| Potassium                        | milligrams per litre        |  |  |  |  |  |
| Sodium                           | milligrams per litre        |  |  |  |  |  |
| Standing Water Level             | metres                      |  |  |  |  |  |
| Sulfate                          | milligrams per litre        |  |  |  |  |  |
| Toluene                          | milligrams per litre        |  |  |  |  |  |
| Total dissolved solids           | milligrams per litre        |  |  |  |  |  |
| Total organic carbon             | milligrams per litre        |  |  |  |  |  |
| Total petroleum hydrocarbons     | milligrams per litre        |  |  |  |  |  |
| Total Phenolics                  | milligrams per litre        |  |  |  |  |  |
| Xylene                           | milligrams per litre        |  |  |  |  |  |



|      |                         |  |  |  |  |  |
|------|-------------------------|--|--|--|--|--|
| Zinc | milligrams per kilogram |  |  |  |  |  |
|------|-------------------------|--|--|--|--|--|

### Monitoring Point 11

Groundwater quality monitoring, Monitoring point labelled GMW104 on Figure 15 titled "Current Site Investigation Locations" dated 6 March 2012 (Whytes Gully New Landfill Cell EA - Volume IV). E297597.9 N6184508

| Pollutant                         | Unit of measure             | No. of samples required | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------------------------------|-----------------------------|-------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Alkalinity (as calcium carbonate) | milligrams per litre        |                         |                                       |                     |                |                      |
| Aluminium                         | milligrams per litre        |                         |                                       |                     |                |                      |
| Arsenic                           | milligrams per litre        |                         |                                       |                     |                |                      |
| Barium                            | milligrams per litre        |                         |                                       |                     |                |                      |
| Benzene                           | milligrams per litre        |                         |                                       |                     |                |                      |
| Cadmium                           | milligrams per litre        |                         |                                       |                     |                |                      |
| Calcium                           | milligrams per litre        |                         |                                       |                     |                |                      |
| Chloride                          | milligrams per litre        |                         |                                       |                     |                |                      |
| Chromium (hexavalent)             | milligrams per litre        |                         |                                       |                     |                |                      |
| Chromium (total)                  | milligrams per litre        |                         |                                       |                     |                |                      |
| Cobalt                            | milligrams per litre        |                         |                                       |                     |                |                      |
| Conductivity                      | microsiemens per centimetre |                         |                                       |                     |                |                      |
| Copper                            | milligrams per litre        |                         |                                       |                     |                |                      |
| Ethyl benzene                     | micrograms per litre        |                         |                                       |                     |                |                      |
| Fluoride                          | milligrams per litre        |                         |                                       |                     |                |                      |
| Lead                              | milligrams per litre        |                         |                                       |                     |                |                      |
| Magnesium                         | milligrams per litre        |                         |                                       |                     |                |                      |
| Manganese                         | micrograms per litre        |                         |                                       |                     |                |                      |

|                                  |                         |  |  |  |  |  |
|----------------------------------|-------------------------|--|--|--|--|--|
| Mercury                          | milligrams per litre    |  |  |  |  |  |
| Nitrate                          | milligrams per litre    |  |  |  |  |  |
| Nitrite                          | milligrams per litre    |  |  |  |  |  |
| Nitrogen (ammonia)               | milligrams per litre    |  |  |  |  |  |
| Organochlorine pesticides        | milligrams per litre    |  |  |  |  |  |
| Organophosphate pesticides       | milligrams per litre    |  |  |  |  |  |
| pH                               | pH                      |  |  |  |  |  |
| Polycyclic aromatic hydrocarbons | milligrams per litre    |  |  |  |  |  |
| Potassium                        | milligrams per litre    |  |  |  |  |  |
| Sodium                           | milligrams per litre    |  |  |  |  |  |
| Standing Water Level             | metres                  |  |  |  |  |  |
| Sulfate                          | milligrams per litre    |  |  |  |  |  |
| Toluene                          | milligrams per litre    |  |  |  |  |  |
| Total dissolved solids           | milligrams per litre    |  |  |  |  |  |
| Total organic carbon             | milligrams per litre    |  |  |  |  |  |
| Total petroleum hydrocarbons     | milligrams per litre    |  |  |  |  |  |
| Total Phenolics                  | milligrams per litre    |  |  |  |  |  |
| Xylene                           | milligrams per litre    |  |  |  |  |  |
| Zinc                             | milligrams per kilogram |  |  |  |  |  |

## Monitoring Point 12

Groundwater quality monitoring, Monitoring point labelled GMW105 on Figure 15 titled "Current Site Investigation Locations" dated 6 March 2012 (Whytes Gully New Landfill Cell EA - Volume IV). E298433.3 N6184397

| Pollutant                         | Unit of measure      | No. of samples required | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------------------------------|----------------------|-------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Alkalinity (as calcium carbonate) | milligrams per litre |                         |                                       |                     |                |                      |

|                                  |                             |  |  |  |  |  |
|----------------------------------|-----------------------------|--|--|--|--|--|
| Aluminium                        | milligrams per litre        |  |  |  |  |  |
| Arsenic                          | milligrams per litre        |  |  |  |  |  |
| Barium                           | milligrams per litre        |  |  |  |  |  |
| Benzene                          | milligrams per litre        |  |  |  |  |  |
| Cadmium                          | milligrams per litre        |  |  |  |  |  |
| Calcium                          | milligrams per litre        |  |  |  |  |  |
| Chloride                         | milligrams per litre        |  |  |  |  |  |
| Chromium (hexavalent)            | milligrams per litre        |  |  |  |  |  |
| Chromium (total)                 | milligrams per litre        |  |  |  |  |  |
| Cobalt                           | milligrams per litre        |  |  |  |  |  |
| Conductivity                     | microsiemens per centimetre |  |  |  |  |  |
| Copper                           | milligrams per litre        |  |  |  |  |  |
| Ethyl benzene                    | micrograms per litre        |  |  |  |  |  |
| Fluoride                         | milligrams per litre        |  |  |  |  |  |
| Lead                             | milligrams per litre        |  |  |  |  |  |
| Magnesium                        | milligrams per litre        |  |  |  |  |  |
| Manganese                        | micrograms per litre        |  |  |  |  |  |
| Mercury                          | milligrams per litre        |  |  |  |  |  |
| Nitrate                          | milligrams per litre        |  |  |  |  |  |
| Nitrite                          | milligrams per litre        |  |  |  |  |  |
| Nitrogen (ammonia)               | milligrams per litre        |  |  |  |  |  |
| Organochlorine pesticides        | milligrams per litre        |  |  |  |  |  |
| Organophosphate pesticides       | milligrams per litre        |  |  |  |  |  |
| pH                               | pH                          |  |  |  |  |  |
| Polycyclic aromatic hydrocarbons | milligrams per litre        |  |  |  |  |  |

|                              |                         |  |  |  |  |  |
|------------------------------|-------------------------|--|--|--|--|--|
| Potassium                    | milligrams per litre    |  |  |  |  |  |
| Sodium                       | milligrams per litre    |  |  |  |  |  |
| Standing Water Level         | metres                  |  |  |  |  |  |
| Sulfate                      | milligrams per litre    |  |  |  |  |  |
| Toluene                      | milligrams per litre    |  |  |  |  |  |
| Total dissolved solids       | milligrams per litre    |  |  |  |  |  |
| Total organic carbon         | milligrams per litre    |  |  |  |  |  |
| Total petroleum hydrocarbons | milligrams per litre    |  |  |  |  |  |
| Total Phenolics              | milligrams per litre    |  |  |  |  |  |
| Xylene                       | milligrams per litre    |  |  |  |  |  |
| Zinc                         | milligrams per kilogram |  |  |  |  |  |

### Monitoring Point 13

Groundwater quality monitoring, Monitoring point labelled GMW106 on Figure 15 titled "Current Site Investigation Locations" dated 6 March 2012 (Whytes Gully New Landfill Cell EA - Volume IV). E298356.8 N6184294

| Pollutant                         | Unit of measure      | No. of samples required | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------------------------------|----------------------|-------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Alkalinity (as calcium carbonate) | milligrams per litre |                         |                                       |                     |                |                      |
| Aluminium                         | milligrams per litre |                         |                                       |                     |                |                      |
| Arsenic                           | milligrams per litre |                         |                                       |                     |                |                      |
| Barium                            | milligrams per litre |                         |                                       |                     |                |                      |
| Benzene                           | milligrams per litre |                         |                                       |                     |                |                      |
| Cadmium                           | milligrams per litre |                         |                                       |                     |                |                      |
| Calcium                           | milligrams per litre |                         |                                       |                     |                |                      |
| Chloride                          | milligrams per litre |                         |                                       |                     |                |                      |

|                                  |                             |  |  |  |  |  |
|----------------------------------|-----------------------------|--|--|--|--|--|
| Chromium (hexavalent)            | milligrams per litre        |  |  |  |  |  |
| Chromium (total)                 | milligrams per litre        |  |  |  |  |  |
| Cobalt                           | milligrams per litre        |  |  |  |  |  |
| Conductivity                     | microsiemens per centimetre |  |  |  |  |  |
| Copper                           | milligrams per litre        |  |  |  |  |  |
| Ethyl benzene                    | micrograms per litre        |  |  |  |  |  |
| Fluoride                         | milligrams per litre        |  |  |  |  |  |
| Lead                             | milligrams per litre        |  |  |  |  |  |
| Magnesium                        | milligrams per litre        |  |  |  |  |  |
| Manganese                        | micrograms per litre        |  |  |  |  |  |
| Mercury                          | milligrams per litre        |  |  |  |  |  |
| Nitrate                          | milligrams per litre        |  |  |  |  |  |
| Nitrite                          | milligrams per litre        |  |  |  |  |  |
| Nitrogen (ammonia)               | milligrams per litre        |  |  |  |  |  |
| Organochlorine pesticides        | milligrams per litre        |  |  |  |  |  |
| Organophosphate pesticides       | milligrams per litre        |  |  |  |  |  |
| pH                               | pH                          |  |  |  |  |  |
| Polycyclic aromatic hydrocarbons | milligrams per litre        |  |  |  |  |  |
| Potassium                        | milligrams per litre        |  |  |  |  |  |
| Sodium                           | milligrams per litre        |  |  |  |  |  |
| Standing Water Level             | metres                      |  |  |  |  |  |
| Sulfate                          | milligrams per litre        |  |  |  |  |  |
| Toluene                          | milligrams per litre        |  |  |  |  |  |
| Total dissolved solids           | milligrams per litre        |  |  |  |  |  |
| Total organic carbon             | milligrams per litre        |  |  |  |  |  |

|                              |                         |  |  |  |  |  |
|------------------------------|-------------------------|--|--|--|--|--|
| Total petroleum hydrocarbons | milligrams per litre    |  |  |  |  |  |
| Total Phenolics              | milligrams per litre    |  |  |  |  |  |
| Xylene                       | milligrams per litre    |  |  |  |  |  |
| Zinc                         | milligrams per kilogram |  |  |  |  |  |

### Monitoring Point 14

Groundwater quality monitoring, Monitoring point labelled GMW108S on Figure 15 titled "Current Site Investigation Locations" dated 6 March 2012 (Whytes Gully New Landfill Cell EA - Volume IV). E297870.2 N6184262

| Pollutant                         | Unit of measure             | No. of samples required | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------------------------------|-----------------------------|-------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Alkalinity (as calcium carbonate) | milligrams per litre        |                         |                                       |                     |                |                      |
| Aluminium                         | milligrams per litre        |                         |                                       |                     |                |                      |
| Arsenic                           | milligrams per litre        |                         |                                       |                     |                |                      |
| Barium                            | milligrams per litre        |                         |                                       |                     |                |                      |
| Benzene                           | milligrams per litre        |                         |                                       |                     |                |                      |
| Cadmium                           | milligrams per litre        |                         |                                       |                     |                |                      |
| Calcium                           | milligrams per litre        |                         |                                       |                     |                |                      |
| Chloride                          | milligrams per litre        |                         |                                       |                     |                |                      |
| Chromium (hexavalent)             | milligrams per litre        |                         |                                       |                     |                |                      |
| Chromium (total)                  | milligrams per litre        |                         |                                       |                     |                |                      |
| Cobalt                            | milligrams per litre        |                         |                                       |                     |                |                      |
| Conductivity                      | microsiemens per centimetre |                         |                                       |                     |                |                      |
| Copper                            | milligrams per litre        |                         |                                       |                     |                |                      |
| Ethyl benzene                     | micrograms per litre        |                         |                                       |                     |                |                      |
| Fluoride                          | milligrams per litre        |                         |                                       |                     |                |                      |

|                                  |                         |  |  |  |  |  |
|----------------------------------|-------------------------|--|--|--|--|--|
| Lead                             | milligrams per litre    |  |  |  |  |  |
| Magnesium                        | milligrams per litre    |  |  |  |  |  |
| Manganese                        | micrograms per litre    |  |  |  |  |  |
| Mercury                          | milligrams per litre    |  |  |  |  |  |
| Nitrate                          | milligrams per litre    |  |  |  |  |  |
| Nitrite                          | milligrams per litre    |  |  |  |  |  |
| Nitrogen (ammonia)               | milligrams per litre    |  |  |  |  |  |
| Organochlorine pesticides        | milligrams per litre    |  |  |  |  |  |
| Organophosphate pesticides       | milligrams per litre    |  |  |  |  |  |
| pH                               | pH                      |  |  |  |  |  |
| Polycyclic aromatic hydrocarbons | milligrams per litre    |  |  |  |  |  |
| Potassium                        | milligrams per litre    |  |  |  |  |  |
| Sodium                           | milligrams per litre    |  |  |  |  |  |
| Standing Water Level             | metres                  |  |  |  |  |  |
| Sulfate                          | milligrams per litre    |  |  |  |  |  |
| Toluene                          | milligrams per litre    |  |  |  |  |  |
| Total dissolved solids           | milligrams per litre    |  |  |  |  |  |
| Total organic carbon             | milligrams per litre    |  |  |  |  |  |
| Total petroleum hydrocarbons     | milligrams per litre    |  |  |  |  |  |
| Total Phenolics                  | milligrams per litre    |  |  |  |  |  |
| Xylene                           | milligrams per litre    |  |  |  |  |  |
| Zinc                             | milligrams per kilogram |  |  |  |  |  |

### Monitoring Point 15

Groundwater quality monitoring, Monitoring point labelled GMW108D on Figure 15 titled "Current Site Investigation Locations" dated 6 March 2012 (Whytes Gully New Landfill Cell EA - Volume IV). E297871.4 N6184262

| Pollutant                         | Unit of measure             | No. of samples required | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------------------------------|-----------------------------|-------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Alkalinity (as calcium carbonate) | milligrams per litre        |                         |                                       |                     |                |                      |
| Aluminium                         | milligrams per litre        |                         |                                       |                     |                |                      |
| Arsenic                           | milligrams per litre        |                         |                                       |                     |                |                      |
| Barium                            | milligrams per litre        |                         |                                       |                     |                |                      |
| Benzene                           | milligrams per litre        |                         |                                       |                     |                |                      |
| Cadmium                           | milligrams per litre        |                         |                                       |                     |                |                      |
| Calcium                           | milligrams per litre        |                         |                                       |                     |                |                      |
| Chloride                          | milligrams per litre        |                         |                                       |                     |                |                      |
| Chromium (hexavalent)             | milligrams per litre        |                         |                                       |                     |                |                      |
| Chromium (total)                  | milligrams per litre        |                         |                                       |                     |                |                      |
| Cobalt                            | milligrams per litre        |                         |                                       |                     |                |                      |
| Conductivity                      | microsiemens per centimetre |                         |                                       |                     |                |                      |
| Copper                            | milligrams per litre        |                         |                                       |                     |                |                      |
| Ethyl benzene                     | micrograms per litre        |                         |                                       |                     |                |                      |
| Fluoride                          | milligrams per litre        |                         |                                       |                     |                |                      |
| Lead                              | milligrams per litre        |                         |                                       |                     |                |                      |
| Magnesium                         | milligrams per litre        |                         |                                       |                     |                |                      |
| Manganese                         | micrograms per litre        |                         |                                       |                     |                |                      |
| Mercury                           | milligrams per litre        |                         |                                       |                     |                |                      |
| Nitrate                           | milligrams per litre        |                         |                                       |                     |                |                      |
| Nitrite                           | milligrams per litre        |                         |                                       |                     |                |                      |
| Nitrogen (ammonia)                | milligrams per litre        |                         |                                       |                     |                |                      |



|                                  |                         |  |  |  |  |  |
|----------------------------------|-------------------------|--|--|--|--|--|
| Organochlorine pesticides        | milligrams per litre    |  |  |  |  |  |
| Organophosphate pesticides       | milligrams per litre    |  |  |  |  |  |
| pH                               | pH                      |  |  |  |  |  |
| Polycyclic aromatic hydrocarbons | milligrams per litre    |  |  |  |  |  |
| Potassium                        | milligrams per litre    |  |  |  |  |  |
| Sodium                           | milligrams per litre    |  |  |  |  |  |
| Standing Water Level             | metres                  |  |  |  |  |  |
| Sulfate                          | milligrams per litre    |  |  |  |  |  |
| Toluene                          | milligrams per litre    |  |  |  |  |  |
| Total dissolved solids           | milligrams per litre    |  |  |  |  |  |
| Total organic carbon             | milligrams per litre    |  |  |  |  |  |
| Total petroleum hydrocarbons     | milligrams per litre    |  |  |  |  |  |
| Total Phenolics                  | milligrams per litre    |  |  |  |  |  |
| Xylene                           | milligrams per litre    |  |  |  |  |  |
| Zinc                             | milligrams per kilogram |  |  |  |  |  |

## Monitoring Point 16

Groundwater quality monitoring, Monitoring point labelled GMW109S on Figure 15 titled "Current Site Investigation Locations" dated 6 March 2012 (Whytes Gully New Landfill Cell EA - Volume IV). E297605.7 N6184068

| Pollutant                         | Unit of measure      | No. of samples required | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------------------------------|----------------------|-------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Alkalinity (as calcium carbonate) | milligrams per litre |                         |                                       |                     |                |                      |
| Aluminium                         | milligrams per litre |                         |                                       |                     |                |                      |
| Arsenic                           | milligrams per litre |                         |                                       |                     |                |                      |
| Barium                            | milligrams per litre |                         |                                       |                     |                |                      |
| Benzene                           | milligrams per litre |                         |                                       |                     |                |                      |

|                                  |                             |  |  |  |  |  |
|----------------------------------|-----------------------------|--|--|--|--|--|
| Cadmium                          | milligrams per litre        |  |  |  |  |  |
| Calcium                          | milligrams per litre        |  |  |  |  |  |
| Chloride                         | milligrams per litre        |  |  |  |  |  |
| Chromium (hexavalent)            | milligrams per litre        |  |  |  |  |  |
| Chromium (total)                 | milligrams per litre        |  |  |  |  |  |
| Cobalt                           | milligrams per litre        |  |  |  |  |  |
| Conductivity                     | microsiemens per centimetre |  |  |  |  |  |
| Copper                           | milligrams per litre        |  |  |  |  |  |
| Ethyl benzene                    | micrograms per litre        |  |  |  |  |  |
| Fluoride                         | milligrams per litre        |  |  |  |  |  |
| Lead                             | milligrams per litre        |  |  |  |  |  |
| Magnesium                        | milligrams per litre        |  |  |  |  |  |
| Manganese                        | micrograms per litre        |  |  |  |  |  |
| Mercury                          | milligrams per litre        |  |  |  |  |  |
| Nitrate                          | milligrams per litre        |  |  |  |  |  |
| Nitrite                          | milligrams per litre        |  |  |  |  |  |
| Nitrogen (ammonia)               | milligrams per litre        |  |  |  |  |  |
| Organochlorine pesticides        | milligrams per litre        |  |  |  |  |  |
| Organophosphate pesticides       | milligrams per litre        |  |  |  |  |  |
| pH                               | pH                          |  |  |  |  |  |
| Polycyclic aromatic hydrocarbons | milligrams per litre        |  |  |  |  |  |
| Potassium                        | milligrams per litre        |  |  |  |  |  |
| Sodium                           | milligrams per litre        |  |  |  |  |  |
| Standing Water Level             | metres                      |  |  |  |  |  |
| Sulfate                          | milligrams per litre        |  |  |  |  |  |

|                              |                         |  |  |  |  |  |
|------------------------------|-------------------------|--|--|--|--|--|
| Toluene                      | milligrams per litre    |  |  |  |  |  |
| Total dissolved solids       | milligrams per litre    |  |  |  |  |  |
| Total organic carbon         | milligrams per litre    |  |  |  |  |  |
| Total petroleum hydrocarbons | milligrams per litre    |  |  |  |  |  |
| Total Phenolics              | milligrams per litre    |  |  |  |  |  |
| Xylene                       | milligrams per litre    |  |  |  |  |  |
| Zinc                         | milligrams per kilogram |  |  |  |  |  |

### Monitoring Point 17

Groundwater quality monitoring, Monitoring point labelled GMW110 on Figure 15 titled "Current Site Investigation Locations" dated 6 March 2012 (Whytes Gully New Landfill Cell EA - Volume IV). E297572.6 N6184266

| Pollutant                         | Unit of measure             | No. of samples required | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------------------------------|-----------------------------|-------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Alkalinity (as calcium carbonate) | milligrams per litre        |                         |                                       |                     |                |                      |
| Aluminium                         | milligrams per litre        |                         |                                       |                     |                |                      |
| Arsenic                           | milligrams per litre        |                         |                                       |                     |                |                      |
| Barium                            | milligrams per litre        |                         |                                       |                     |                |                      |
| Benzene                           | milligrams per litre        |                         |                                       |                     |                |                      |
| Cadmium                           | milligrams per litre        |                         |                                       |                     |                |                      |
| Calcium                           | milligrams per litre        |                         |                                       |                     |                |                      |
| Chloride                          | milligrams per litre        |                         |                                       |                     |                |                      |
| Chromium (hexavalent)             | milligrams per litre        |                         |                                       |                     |                |                      |
| Chromium (total)                  | milligrams per litre        |                         |                                       |                     |                |                      |
| Cobalt                            | milligrams per litre        |                         |                                       |                     |                |                      |
| Conductivity                      | microsiemens per centimetre |                         |                                       |                     |                |                      |

|                                  |                         |  |  |  |  |  |
|----------------------------------|-------------------------|--|--|--|--|--|
| Copper                           | milligrams per litre    |  |  |  |  |  |
| Ethyl benzene                    | micrograms per litre    |  |  |  |  |  |
| Fluoride                         | milligrams per litre    |  |  |  |  |  |
| Lead                             | milligrams per litre    |  |  |  |  |  |
| Magnesium                        | milligrams per litre    |  |  |  |  |  |
| Manganese                        | micrograms per litre    |  |  |  |  |  |
| Mercury                          | milligrams per litre    |  |  |  |  |  |
| Nitrate                          | milligrams per litre    |  |  |  |  |  |
| Nitrite                          | milligrams per litre    |  |  |  |  |  |
| Nitrogen (ammonia)               | milligrams per litre    |  |  |  |  |  |
| Organochlorine pesticides        | milligrams per litre    |  |  |  |  |  |
| Organophosphate pesticides       | milligrams per litre    |  |  |  |  |  |
| pH                               | pH                      |  |  |  |  |  |
| Polycyclic aromatic hydrocarbons | milligrams per litre    |  |  |  |  |  |
| Potassium                        | milligrams per litre    |  |  |  |  |  |
| Sodium                           | milligrams per litre    |  |  |  |  |  |
| Standing Water Level             | metres                  |  |  |  |  |  |
| Sulfate                          | milligrams per litre    |  |  |  |  |  |
| Toluene                          | milligrams per litre    |  |  |  |  |  |
| Total dissolved solids           | milligrams per litre    |  |  |  |  |  |
| Total organic carbon             | milligrams per litre    |  |  |  |  |  |
| Total petroleum hydrocarbons     | milligrams per litre    |  |  |  |  |  |
| Total Phenolics                  | milligrams per litre    |  |  |  |  |  |
| Xylene                           | milligrams per litre    |  |  |  |  |  |
| Zinc                             | milligrams per kilogram |  |  |  |  |  |

## Monitoring Point 18

Groundwater quality monitoring, Monitoring point labelled GMW111 on Figure 15 titled "Current Site Investigation Locations" dated 6 March 2012 (Whytes Gully New Landfill Cell EA - Volume IV). E297588.6 N6184385

| Pollutant                         | Unit of measure             | No. of samples required | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------------------------------|-----------------------------|-------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Alkalinity (as calcium carbonate) | milligrams per litre        |                         |                                       |                     |                |                      |
| Aluminium                         | milligrams per litre        |                         |                                       |                     |                |                      |
| Arsenic                           | milligrams per litre        |                         |                                       |                     |                |                      |
| Barium                            | milligrams per litre        |                         |                                       |                     |                |                      |
| Benzene                           | milligrams per litre        |                         |                                       |                     |                |                      |
| Cadmium                           | milligrams per litre        |                         |                                       |                     |                |                      |
| Calcium                           | milligrams per litre        |                         |                                       |                     |                |                      |
| Chloride                          | milligrams per litre        |                         |                                       |                     |                |                      |
| Chromium (hexavalent)             | milligrams per litre        |                         |                                       |                     |                |                      |
| Chromium (total)                  | milligrams per litre        |                         |                                       |                     |                |                      |
| Cobalt                            | milligrams per litre        |                         |                                       |                     |                |                      |
| Conductivity                      | microsiemens per centimetre |                         |                                       |                     |                |                      |
| Copper                            | milligrams per litre        |                         |                                       |                     |                |                      |
| Ethyl benzene                     | micrograms per litre        |                         |                                       |                     |                |                      |
| Fluoride                          | milligrams per litre        |                         |                                       |                     |                |                      |
| Lead                              | milligrams per litre        |                         |                                       |                     |                |                      |
| Magnesium                         | milligrams per litre        |                         |                                       |                     |                |                      |
| Manganese                         | micrograms per litre        |                         |                                       |                     |                |                      |
| Mercury                           | milligrams per litre        |                         |                                       |                     |                |                      |

|                                  |                         |  |  |  |  |  |
|----------------------------------|-------------------------|--|--|--|--|--|
| Nitrate                          | milligrams per litre    |  |  |  |  |  |
| Nitrite                          | milligrams per litre    |  |  |  |  |  |
| Nitrogen (ammonia)               | milligrams per litre    |  |  |  |  |  |
| Organochlorine pesticides        | milligrams per litre    |  |  |  |  |  |
| Organophosphate pesticides       | milligrams per litre    |  |  |  |  |  |
| pH                               | pH                      |  |  |  |  |  |
| Polycyclic aromatic hydrocarbons | milligrams per litre    |  |  |  |  |  |
| Potassium                        | milligrams per litre    |  |  |  |  |  |
| Sodium                           | milligrams per litre    |  |  |  |  |  |
| Standing Water Level             | metres                  |  |  |  |  |  |
| Sulfate                          | milligrams per litre    |  |  |  |  |  |
| Toluene                          | milligrams per litre    |  |  |  |  |  |
| Total dissolved solids           | milligrams per litre    |  |  |  |  |  |
| Total organic carbon             | milligrams per litre    |  |  |  |  |  |
| Total petroleum hydrocarbons     | milligrams per litre    |  |  |  |  |  |
| Total Phenolics                  | milligrams per litre    |  |  |  |  |  |
| Xylene                           | milligrams per litre    |  |  |  |  |  |
| Zinc                             | milligrams per kilogram |  |  |  |  |  |

## Monitoring Point 19

Groundwater quality monitoring, Monitoring point labelled GMW109D on Figure 15 titled "Current Site Investigation Locations" dated 6 March 2012 (Whytes Gully New Landfill Cell EA - Volume IV). E297604.9 N6184068

| Pollutant                         | Unit of measure      | No. of samples required | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------------------------------|----------------------|-------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Alkalinity (as calcium carbonate) | milligrams per litre |                         |                                       |                     |                |                      |
| Aluminium                         | milligrams per litre |                         |                                       |                     |                |                      |

|                                  |                             |  |  |  |  |  |
|----------------------------------|-----------------------------|--|--|--|--|--|
| Arsenic                          | milligrams per litre        |  |  |  |  |  |
| Barium                           | milligrams per litre        |  |  |  |  |  |
| Benzene                          | milligrams per litre        |  |  |  |  |  |
| Cadmium                          | milligrams per litre        |  |  |  |  |  |
| Calcium                          | milligrams per litre        |  |  |  |  |  |
| Chloride                         | milligrams per litre        |  |  |  |  |  |
| Chromium (hexavalent)            | milligrams per litre        |  |  |  |  |  |
| Chromium (total)                 | milligrams per litre        |  |  |  |  |  |
| Cobalt                           | milligrams per litre        |  |  |  |  |  |
| Conductivity                     | microsiemens per centimetre |  |  |  |  |  |
| Copper                           | milligrams per litre        |  |  |  |  |  |
| Ethyl benzene                    | micrograms per litre        |  |  |  |  |  |
| Fluoride                         | milligrams per litre        |  |  |  |  |  |
| Lead                             | milligrams per litre        |  |  |  |  |  |
| Magnesium                        | milligrams per litre        |  |  |  |  |  |
| Manganese                        | micrograms per litre        |  |  |  |  |  |
| Mercury                          | milligrams per litre        |  |  |  |  |  |
| Nitrate                          | milligrams per litre        |  |  |  |  |  |
| Nitrite                          | milligrams per litre        |  |  |  |  |  |
| Nitrogen (ammonia)               | milligrams per litre        |  |  |  |  |  |
| Organochlorine pesticides        | milligrams per litre        |  |  |  |  |  |
| Organophosphate pesticides       | milligrams per litre        |  |  |  |  |  |
| pH                               | pH                          |  |  |  |  |  |
| Polycyclic aromatic hydrocarbons | milligrams per litre        |  |  |  |  |  |
| Potassium                        | milligrams per litre        |  |  |  |  |  |

|                              |                         |  |  |  |  |  |
|------------------------------|-------------------------|--|--|--|--|--|
| Sodium                       | milligrams per litre    |  |  |  |  |  |
| Standing Water Level         | metres                  |  |  |  |  |  |
| Sulfate                      | milligrams per litre    |  |  |  |  |  |
| Toluene                      | milligrams per litre    |  |  |  |  |  |
| Total dissolved solids       | milligrams per litre    |  |  |  |  |  |
| Total organic carbon         | milligrams per litre    |  |  |  |  |  |
| Total petroleum hydrocarbons | milligrams per litre    |  |  |  |  |  |
| Total Phenolics              | milligrams per litre    |  |  |  |  |  |
| Xylene                       | milligrams per litre    |  |  |  |  |  |
| Zinc                         | milligrams per kilogram |  |  |  |  |  |

### Monitoring Point 20

Groundwater quality monitoring, Monitoring point labelled BH6 on Figure 15 titled "Current Site Investigation Locations" dated 6 March 2012 (Whytes Gully New Landfill Cell EA - Volume IV). E297807.4 N6184052

| Pollutant                         | Unit of measure      | No. of samples required | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------------------------------|----------------------|-------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Alkalinity (as calcium carbonate) | milligrams per litre |                         |                                       |                     |                |                      |
| Aluminium                         | milligrams per litre |                         |                                       |                     |                |                      |
| Arsenic                           | milligrams per litre |                         |                                       |                     |                |                      |
| Barium                            | milligrams per litre |                         |                                       |                     |                |                      |
| Benzene                           | milligrams per litre |                         |                                       |                     |                |                      |
| Cadmium                           | milligrams per litre |                         |                                       |                     |                |                      |
| Calcium                           | milligrams per litre |                         |                                       |                     |                |                      |
| Chloride                          | milligrams per litre |                         |                                       |                     |                |                      |
| Chromium (hexavalent)             | milligrams per litre |                         |                                       |                     |                |                      |



|                                  |                             |  |  |  |  |  |
|----------------------------------|-----------------------------|--|--|--|--|--|
| Chromium (total)                 | milligrams per litre        |  |  |  |  |  |
| Cobalt                           | milligrams per litre        |  |  |  |  |  |
| Conductivity                     | microsiemens per centimetre |  |  |  |  |  |
| Copper                           | milligrams per litre        |  |  |  |  |  |
| Ethyl benzene                    | micrograms per litre        |  |  |  |  |  |
| Fluoride                         | milligrams per litre        |  |  |  |  |  |
| Lead                             | milligrams per litre        |  |  |  |  |  |
| Magnesium                        | milligrams per litre        |  |  |  |  |  |
| Manganese                        | micrograms per litre        |  |  |  |  |  |
| Mercury                          | milligrams per litre        |  |  |  |  |  |
| Nitrate                          | milligrams per litre        |  |  |  |  |  |
| Nitrite                          | milligrams per litre        |  |  |  |  |  |
| Nitrogen (ammonia)               | milligrams per litre        |  |  |  |  |  |
| Organochlorine pesticides        | milligrams per litre        |  |  |  |  |  |
| Organophosphate pesticides       | milligrams per litre        |  |  |  |  |  |
| pH                               | pH                          |  |  |  |  |  |
| Polycyclic aromatic hydrocarbons | milligrams per litre        |  |  |  |  |  |
| Potassium                        | milligrams per litre        |  |  |  |  |  |
| Sodium                           | milligrams per litre        |  |  |  |  |  |
| Standing Water Level             | metres                      |  |  |  |  |  |
| Sulfate                          | milligrams per litre        |  |  |  |  |  |
| Toluene                          | milligrams per litre        |  |  |  |  |  |
| Total dissolved solids           | milligrams per litre        |  |  |  |  |  |
| Total organic carbon             | milligrams per litre        |  |  |  |  |  |
| Total petroleum hydrocarbons     | milligrams per litre        |  |  |  |  |  |

|                 |                         |  |  |  |  |  |
|-----------------|-------------------------|--|--|--|--|--|
| Total Phenolics | milligrams per litre    |  |  |  |  |  |
| Xylene          | milligrams per litre    |  |  |  |  |  |
| Zinc            | milligrams per kilogram |  |  |  |  |  |

### Monitoring Point 21

Subsurface gas monitoring, Monitoring point labelled LFG MW1 on Figure 14 titled "Proposed Landfill Gas Monitoring Locations" dated 6 March 2012 (Whytes Gully New Landfill Cell EA - Volume IV). E298084 N6184278

| Pollutant | Unit of measure   | No. of samples required | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------|-------------------|-------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Methane   | percent by volume |                         |                                       |                     |                |                      |

### Monitoring Point 22

Subsurface gas monitoring, Monitoring point labelled LFG MW2 on Figure 14 titled "Proposed Landfill Gas Monitoring Locations" dated 6 March 2012 (Whytes Gully New Landfill Cell EA - Volume IV). E298202 N6184228

| Pollutant | Unit of measure   | No. of samples required | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------|-------------------|-------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Methane   | percent by volume |                         |                                       |                     |                |                      |

### Monitoring Point 23

Subsurface gas monitoring, Monitoring point labelled LFG MW3 on Figure 14 titled "Proposed Landfill Gas Monitoring Locations" dated 6 March 2012 (Whytes Gully New Landfill Cell EA - Volume IV). E298297 N6184244

| Pollutant | Unit of measure   | No. of samples required | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------|-------------------|-------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Methane   | percent by volume |                         |                                       |                     |                |                      |

### Monitoring Point 24

Subsurface gas monitoring, Monitoring point labelled LFG MW4 on Figure 14 titled "Proposed Landfill Gas Monitoring Locations" dated 6 March 2012 (Whytes Gully New Landfill Cell EA - Volume IV). E298376 N6184303

| Pollutant | Unit of measure   | No. of samples required | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------|-------------------|-------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Methane   | percent by volume |                         |                                       |                     |                |                      |

### Monitoring Point 25

Subsurface gas monitoring, Monitoring point labelled LFG MW5 on Figure 14 titled "Proposed Landfill Gas Monitoring Locations" dated 6 March 2012 (Whytes Gully New Landfill Cell EA - Volume IV). E298438 N6184381

| Pollutant | Unit of measure   | No. of samples required | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------|-------------------|-------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Methane   | percent by volume |                         |                                       |                     |                |                      |

### Monitoring Point 26

Subsurface gas monitoring, Monitoring point labelled LFG MW6 on Figure 14 titled "Proposed Landfill Gas Monitoring Locations" dated 6 March 2012 (Whytes Gully New Landfill Cell EA - Volume IV). E298376 N6184303

| Pollutant | Unit of measure   | No. of samples required | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------|-------------------|-------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Methane   | percent by volume |                         |                                       |                     |                |                      |

### Monitoring Point 27

Subsurface gas monitoring, Monitoring point labelled LFG MW7 on Figure 14 titled "Proposed Landfill Gas Monitoring Locations" dated 6 March 2012 (Whytes Gully New Landfill Cell EA - Volume IV). E298470 N6184553

| Pollutant | Unit of measure   | No. of samples required | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------|-------------------|-------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Methane   | percent by volume |                         |                                       |                     |                |                      |

### Monitoring Point 28

Subsurface gas monitoring, Monitoring point labelled LFG MW8 on Figure 14 titled "Proposed Landfill Gas Monitoring Locations" dated 6 March 2012 (Whytes Gully New Landfill Cell EA - Volume IV). E298376 N6184303

| Pollutant | Unit of measure   | No. of samples required | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------|-------------------|-------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Methane   | percent by volume |                         |                                       |                     |                |                      |

### Monitoring Point 29

Subsurface gas monitoring, Monitoring point labelled LFG MW9 on Figure 14 titled "Proposed Landfill Gas Monitoring Locations" dated 6 March 2012 (Whytes Gully New Landfill Cell EA - Volume IV). E298465 N6184645

| Pollutant | Unit of measure   | No. of samples required | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------|-------------------|-------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Methane   | percent by volume |                         |                                       |                     |                |                      |

### Monitoring Point 30

Subsurface gas monitoring, Monitoring point labelled LFG MW10 on Figure 14 titled "Proposed Landfill Gas Monitoring Locations" dated 6 March 2012 (Whytes Gully New Landfill Cell EA - Volume IV). E298448 N6184684

| Pollutant | Unit of measure   | No. of samples required | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------|-------------------|-------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Methane   | percent by volume |                         |                                       |                     |                |                      |

### Monitoring Point 31

Subsurface gas monitoring, Monitoring point labelled LFG MW11 on Figure 14 titled "Proposed Landfill Gas Monitoring Locations" dated 6 March 2012 (Whytes Gully New Landfill Cell EA - Volume IV). E298400 N6184695

| Pollutant | Unit of measure   | No. of samples required | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------|-------------------|-------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Methane   | percent by volume |                         |                                       |                     |                |                      |

### Monitoring Point 32

Subsurface gas monitoring, Monitoring point labelled LFG MW12 on Figure 14 titled "Proposed Landfill Gas Monitoring Locations" dated 6 March 2012 (Whytes Gully New Landfill Cell EA - Volume IV). E298351 N6184701

| Pollutant | Unit of measure   | No. of samples required | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------|-------------------|-------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Methane   | percent by volume |                         |                                       |                     |                |                      |

### Monitoring Point 33

Stormwater monitoring point, Downstream monitoring point labelled 4 on Figure 13 titled "Proposed Surface Water Monitoring Locations" dated 26 March 2012 (Whytes Gully New Landfill Cell EA - Volume IV). E297767 N6183396

| Pollutant                         | Unit of measure             | No. of samples required | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------------------------------|-----------------------------|-------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Alkalinity (as calcium carbonate) | milligrams per litre        |                         |                                       |                     |                |                      |
| Ammonia                           | milligrams per litre        |                         |                                       |                     |                |                      |
| Calcium                           | milligrams per litre        |                         |                                       |                     |                |                      |
| Chloride                          | milligrams per litre        |                         |                                       |                     |                |                      |
| Conductivity                      | microsiemens per centimetre |                         |                                       |                     |                |                      |
| Dissolved Oxygen                  | milligrams per litre        |                         |                                       |                     |                |                      |
| Filterable iron                   | milligrams per litre        |                         |                                       |                     |                |                      |
| Fluoride                          | milligrams per litre        |                         |                                       |                     |                |                      |
| Magnesium                         | milligrams per litre        |                         |                                       |                     |                |                      |

|                        |                      |  |  |  |  |  |
|------------------------|----------------------|--|--|--|--|--|
| Nitrate                | milligrams per litre |  |  |  |  |  |
| pH                     | pH                   |  |  |  |  |  |
| Potassium              | milligrams per litre |  |  |  |  |  |
| Sodium                 | milligrams per litre |  |  |  |  |  |
| Sulfate                | milligrams per litre |  |  |  |  |  |
| Temperature            | degrees Celsius      |  |  |  |  |  |
| Total organic carbon   | milligrams per litre |  |  |  |  |  |
| Total Phenolics        | milligrams per litre |  |  |  |  |  |
| Total suspended solids | milligrams per litre |  |  |  |  |  |

### Monitoring Point 34

Stormwater monitoring point, Upstream monitoring point labelled 6 on Figure 13 titled "Proposed Surface Water Monitoring Locations" dated 26 March 2012 (Whytes Gully New Landfill Cell EA - Volume IV). E297495 N6184504

| Pollutant                         | Unit of measure             | No. of samples required | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------------------------------|-----------------------------|-------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Alkalinity (as calcium carbonate) | milligrams per litre        |                         |                                       |                     |                |                      |
| Ammonia                           | milligrams per litre        |                         |                                       |                     |                |                      |
| Calcium                           | milligrams per litre        |                         |                                       |                     |                |                      |
| Chloride                          | milligrams per litre        |                         |                                       |                     |                |                      |
| Conductivity                      | microsiemens per centimetre |                         |                                       |                     |                |                      |
| Dissolved Oxygen                  | milligrams per litre        |                         |                                       |                     |                |                      |
| Filterable iron                   | milligrams per litre        |                         |                                       |                     |                |                      |
| Fluoride                          | milligrams per litre        |                         |                                       |                     |                |                      |
| Magnesium                         | milligrams per litre        |                         |                                       |                     |                |                      |
| Nitrate                           | milligrams per litre        |                         |                                       |                     |                |                      |
| pH                                | pH                          |                         |                                       |                     |                |                      |

|                        |                      |  |  |  |  |  |
|------------------------|----------------------|--|--|--|--|--|
| Potassium              | milligrams per litre |  |  |  |  |  |
| Sodium                 | milligrams per litre |  |  |  |  |  |
| Sulfate                | milligrams per litre |  |  |  |  |  |
| Temperature            | degrees Celsius      |  |  |  |  |  |
| Total organic carbon   | milligrams per litre |  |  |  |  |  |
| Total Phenolics        | milligrams per litre |  |  |  |  |  |
| Total suspended solids | milligrams per litre |  |  |  |  |  |

**Name of the uploaded file containing point data ▼**

Annual Return Whytes Gully EPL 5862 2019-2020.pdf

### B3. Volume or Mass Monitoring Summary

For each volume or mass monitoring point identified in your licence, details are displayed below. If volume or mass monitoring is not required by your licence, **no data** will appear below.

If data was provided from an uploaded file, the file name will be displayed below instead of any data.

**Note** that this does not exclude the need to conduct appropriate volume or mass monitoring of assessable pollutants are required by load-based licensing (if applicable).

## C. Statement of Compliance - Licence Conditions

### C1. Compliance with Licence Conditions

|   |    |
|---|----|
| Were all conditions of the licence complied with (including monitoring and reporting requirements)? | No |
|---|----|

### C2. Details of Non-Compliance with Licence

|  |
|--|
| <b>Licence condition number not complied with ▼</b>                    |
| Stormwater monitoring and discharge Point 1 (EPL 5862.1)               |
| <b>Summary of particulars of the non-compliance ▼</b>                  |
| TSS exceeded license condition   |
| <b>Further details on particulars of non-compliance, if required ▼</b> |
|  |
| <b>Number of times occurred ▼</b>                                      |
| 14   |

|  |
|--|
| <b>Date(s) when the non-compliance occurred, if applicable ▼</b>                                   |
| Various dates from 9/2/2020 to 10/5/2020   |
| <b>Cause of non-compliance ▼</b>   |
| Heavy rainfall event   |
| <b>Action taken or that will be taken to mitigate any adverse effects of the non-compliance ▼</b>  |
| Stormwater held on site until water quality is suitable for discharge.                             |
| <b>Action taken or that will be taken to prevent a recurrence of the non-compliance ▼</b>          |
| Controlled discharge to provide freeboard for next rainfall event once water quality was suitable. |
| <b>Uploaded Document Name ▼</b>  |
|  |
| <b>Uploaded Document Description ▼</b>   |
|  |

|   |
|---|
| <b>Licence condition number not complied with ▼</b>   |
| Stormwater MP1  |
| <b>Summary of particulars of the non-compliance ▼</b>   |
| pH below 6.5  |
| <b>Further details on particulars of non-compliance, if required ▼</b>                            |
|   |
| <b>Number of times occurred ▼</b>   |
| 1   |
| <b>Date(s) when the non-compliance occurred, if applicable ▼</b>                                  |
| 8th March 2020  |
| <b>Cause of non-compliance ▼</b>  |
| Anomaly in data suspected.  |
| <b>Action taken or that will be taken to mitigate any adverse effects of the non-compliance ▼</b> |
| Follow up testing undertaken was within pH limits for the rest of the reporting period.           |
| <b>Action taken or that will be taken to prevent a recurrence of the non-compliance ▼</b>         |
| Previous test showed it was within limit.   |
| <b>Uploaded Document Name ▼</b>   |
|   |
| <b>Uploaded Document Description ▼</b>  |
|   |



## D. Statement of Compliance - Load Based Fee Calculation

If you are not required to monitor assessable pollutants by your licence, **no data** will appear below.

If assessable pollutants have been identified on your licence, the following worksheets for each assessable pollutant will determine your load based fee for the licence fee period to which this Annual Return relates.

**Loads of assessable pollutants must be calculated using any of the methods provided in EPA's Load Calculation Protocol for the relevant activity.** A Load Calculation Protocol would have been already sent to you with your licence. If you require additional copies, you can download the Protocol from the EPA's website or you can contact us on telephone 02 9995 5700.

You are required to keep all records used to calculate licence fees for four years after the licence fee was paid or became payable, whichever is the later date.

## E. Statement of Compliance - Requirement to Prepare PIRMP

|  |                   |
|--|-------------------|
| <b>Have you prepared a Pollution Incident Response Management Plan (PIRMP) as required under section 153A of the Protection of the Environment Operations (POEO) Act 1997?</b> | <b>Yes</b>        |
| Is the PIRMP available at the premises?  | <b>Yes</b>        |
| Is the PIRMP available in a prominent position on a publicly accessible website?   | <b>Yes</b>        |
| Address of the web page where the PIRMP can be accessed ▼  |                   |
| <a href="https://wollongong.nsw.gov.au/your-council/plans-and-reports/waste-site-reports">https://wollongong.nsw.gov.au/your-council/plans-and-reports/waste-site-reports</a>  |                   |
| Has the PIRMP been tested?   | <b>Yes</b>        |
| The PIRMP was last tested on   | <b>6-3-2020</b>   |
| Has the PIRMP been updated?  | <b>Yes</b>        |
| The PIRMP was last updated on  | <b>4-3-2020</b>   |
| Number of times the PIRMP was activated in this reporting period?  | <b>1</b>          |
| The PIRMP was activated on   | <b>09/02/2020</b> |

## F. Statement of Compliance - Requirement to Publish Pollution Monitoring Data

|  |            |
|--|------------|
| <b>Are there any conditions attached to your licence that require pollution monitoring to be undertaken as required under section 66(6) of the Protection of the Environment Operations (POEO) Act 1997?</b> | <b>Yes</b> |
| Do you operate a website?  | <b>Yes</b> |
| Is the pollution monitoring data published on your website in accordance with the EPA's written requirements for publishing pollution monitoring data?   | <b>Yes</b> |
| Address of the web page where the pollution monitoring data can be accessed ▼  |            |
| <a href="https://wollongong.nsw.gov.au/your-council/plans-and-reports/waste-site-reports">https://wollongong.nsw.gov.au/your-council/plans-and-reports/waste-site-reports</a>                                |            |

## G. Statement of Compliance - Environment Management System and Practices

|   |     |
|---|-----|
| Do you have an ISO 14001 certified Environmental Management System (EMS) OR any other system that EPA considers is equivalent to the accountability, procedures, documentation and record keeping requirements of an ISO 14001 certified EMS? | No  |
| Have you conducted an assessment of your activities and operations to identify the aspects that have a potential to cause environmental impacts and implemented operational controls to address these aspects?                                | Yes |
| Have you established and implemented an operational maintenance program, including preventative maintenance?  | Yes |
| Do you keep records of regular inspections and maintenance of plant and equipment?  | Yes |
| Do you conduct regular (at least yearly) environmental audits at the premises that are conducted by a competent and independent person?   | Yes |
| Have you undertaken an independent environmental audit covering documented environmental practices, procedures and systems in place during the annual return period?  | No  |
| Have you established and implemented an environmental improvement or management plan?   | Yes |
| Do you train staff in environmental issues that may arise from your activities and operations at the premises and keep records of this?   | Yes |


## H. Signature and Certification

This Annual Return may only be signed by person(s) with legal authority to sign it as set out in following categories: an Individual, a Company, a Public authority or a Local council.

It is an offence under section 66 of the Protection of the Environment Operations Act 1997 to supply any information in this form that is false or misleading in a material respect, or to certify a statement that is false or misleading in a material respect. There is a maximum penalty of \$250,000 for a corporation and \$120,000 for an individual.

I/We

- declare that the information in the Monitoring and Complaints Summary in Section B of this Annual Return application is correct and not false or misleading in a material respect, and
- certify that the information in the Statement and Compliance in sections A, C, D, E, F, G and H and any other pages attached to Section C is correct and not false or misleading in a material respect.

|           |   |
|-----------|---|
| Signature |  |
| Name      | Kerry Hunt  |

|   |                          |
|---|--------------------------|
| Position  | General Manager (Acting) |
| Date  | 30 / 09 / 2020           |
| <p><b>Declaration</b></p> <p>I declare that the information in the Monitoring and Complaints Summary in section B of this Annual Return is correct and not false or misleading in a material respect, and</p> <p>I certify that the information in the Statement of Compliance in section A,C,D,E,F and G and any pages attached to Section C is correct and not false or misleading in a material respect.</p> |                          |

For each monitoring point identified in your licence complete all the details for each pollutants listed in the tables provided below

| <b>Discharge &amp; Monitoring Point 1</b>   |                             |  |  |                            |                       |                             |
|---|-----------------------------|--|--|----------------------------|-----------------------|-----------------------------|
| Stormwater monitoring and discharge point, Outlet at Reddalls Road - Monitoring point labelled 1 on Figure 13 titled 'Proposed Surface Water Monitoring Locations' dated 26 March 2012 (Whytes Gully New Landfill Cell EA - Volume IV) E297777 N6183972 |                             |  |  |                            |                       |                             |
| <b>Pollutant</b>  | <b>Unit of Measure</b>      | <b>No of samples required by licence</b> | <b>No. of samples collected and analysed</b> | <b>Lowest sample value</b> | <b>Mean of sample</b> | <b>Highest sample value</b> |
| Alkalinity (as calcium carbonate)   | milligrams per litre        | 1  | 64   | 120                        | 236.32                | 377                         |
| Ammonia   | milligrams per litre        | 1  | 64   | 0.07                       | 2.43                  | 54.7                        |
| Calcium   | milligrams per litre        | 1  | 64   | 28                         | 58.7                  | 95                          |
| Chloride  | milligrams per litre        | 1  | 64   | 28                         | 126.52                | 390                         |
| Conductivity  | microsiemens per centimeter | 1  | 64   | 367                        | 877.38                | 2540                        |
| Dissolved Oxygen  | milligrams per litre        | 1  | 64   | 0.68                       | 5.2                   | 10.1                        |
| Filterable Iron   | milligrams per litre        | 1  | 64   | 0.05                       | 0.64                  | 6.18                        |
| Fluoride  | milligrams per litre        | 1  | 64   | 0.2                        | 0.36                  | 0.4                         |
| Magnesium   | milligrams per litre        | 1  | 64   | 12                         | 25.68                 | 45                          |
| Nitrate   | milligrams per litre        | 1  | 64   | 0.01                       | 0.21                  | 0.81                        |
| pH  | pH                          | 1  | 64   | 6.3                        | 7.15                  | 7.8                         |
| Potassium   | milligrams per litre        | 1  | 64   | 3                          | 10.56                 | 135                         |
| Sodium  | milligrams per litre        | 1  | 64   | 36                         | 81.59                 | 167                         |
| Sulfate   | milligrams per litre        | 1  | 64   | 1                          | 48.3                  | 178                         |
| Temperature   | milligrams per litre        | 1  | 64   | 13.1                       | 19.81                 | 25.7                        |
| Total Organic Carbon  | milligrams per litre        | 1  | 64   | 4                          | 16.03                 | 34                          |
| Total Phenolics   | milligrams per litre        | 1  | 64   | 0.05                       | 0.05                  | 0.05                        |
| Total suspended solids  | milligrams per litre        | 1  | 64   | 7                          | 35.97                 | 118                         |

| <b>Monitoring Point 10</b>  |                             |  |  |                            |                       |                             |
|---|-----------------------------|--|--|----------------------------|-----------------------|-----------------------------|
| Groundwater quality monitoring, Monitoring point labelled GMW103 on Figure 15 titled "Current Site Investigation Locations" dated 6 March |                             |  |  |                            |                       |                             |
| <b>Pollutant</b>  | <b>Unit of Measure</b>      | <b>No of samples required by licence</b> | <b>No. of samples collected and analysed</b> | <b>Lowest sample value</b> | <b>Mean of sample</b> | <b>Highest sample value</b> |
| Alkalinity (as calcium carbonate)   | milligrams per litre        | 4  | 4  | 416                        | 538.75                | 736                         |
| Aluminium   | milligrams per litre        | 1  | 1  | 8.02                       | 8.02                  | 8.02                        |
| Arsenic   | milligrams per litre        | 1  | 1  | 0.001                      | 0.001                 | 0.001                       |
| Barium  | milligrams per litre        | 1  | 1  | 0.054                      | 0.054                 | 0.054                       |
| Benzene   | milligrams per litre        | 1  | 1  | 1                          | 1                     | 1                           |
| Cadmium   | milligrams per litre        | 1  | 1  | 0.0001                     | 0.0001                | 0.0001                      |
| Calcium   | milligrams per litre        | 4  | 4  | 149                        | 149                   | 149                         |
| Chloride  | milligrams per litre        | 4  | 4  | 107                        | 266                   | 356                         |
| Chromium (hexavalent)   | milligrams per litre        | 1  | 1  | 0.01                       | 0.01                  | 0.01                        |
| Chromium (total)  | milligrams per litre        | 1  | 1  | 0.011                      | 0.011                 | 0.011                       |
| Cobalt  | milligrams per litre        | 1  | 1  | 0.008                      | 0.008                 | 0.008                       |
| Conductivity  | microsiemens per centimeter | 4  | 4  | 1660                       | 1875                  | 1980                        |
| Copper  | milligrams per litre        | 1  | 1  | 0.023                      | 0.023                 | 0.023                       |
| Ethyl benzene   | micrograms per litre        | 1  | 1  | 2                          | 2                     | 2                           |
| Fluoride  | milligrams per litre        | 1  | 1  | 0.3                        | 0.3                   | 0.3                         |
| Lead  | milligrams per litre        | 1  | 1  | 0.012                      | 0.012                 | 0.012                       |
| Magnesium   | milligrams per litre        | 4  | 4  | 63                         | 63                    | 63                          |
| Manganese   | micrograms per litre        | 1  | 1  | 0.282                      | 0.282                 | 0.282                       |
| Mercury   | milligrams per litre        | 1  | 1  | 0.0001                     | 0.0001                | 0.0001                      |
| Nitrate   | milligrams per litre        | 1  | 1  | 0.03                       | 0.03                  | 0.03                        |
| Nitrite   | milligrams per litre        | 1  | 1  | 0.01                       | 0.01                  | 0.01                        |
| Nitrogen (ammonia)  | milligrams per litre        | 4  | 4  | 0.01                       | 0.02                  | 0.03                        |
| Organochlorine pesticides   | milligrams per litre        | 1  | 1  | 0.5                        | 0.5                   | 0.5                         |

|                                  |                         |   |   |       |       |       |
|----------------------------------|-------------------------|---|---|-------|-------|-------|
| Organophosphate pesticides       | milligrams per litre    | 1 | 1 | 0.5   | 0.5   | 0.5   |
| pH                               | pH                      | 4 | 4 | 6.9   | 7.03  | 7.2   |
| Polycyclic aromatic hydrocarbons | milligrams per litre    | 1 | 1 | 1     | 1     | 1     |
| Potassium                        | milligrams per litre    | 4 | 4 | 1     | 1.25  | 2     |
| Sodium                           | milligrams per litre    | 4 | 4 | 152   | 169.5 | 179   |
| Standing Water Level             | meters                  | 4 | 4 | 5.66  | 7.57  | 8.9   |
| Sulfate                          | milligrams per litre    | 4 | 4 | 128   | 140.5 | 151   |
| Toluene                          | milligrams per litre    | 1 | 1 | 2     |       |       |
| Total dissolved solids           | milligrams per litre    | 4 | 4 | 964   | 1108  | 1180  |
| Total organic carbon             | milligrams per litre    | 4 | 4 | 1     | 3.25  | 8     |
| Total petroleum hydrocarbons     | milligrams per litre    | 1 | 1 | 30    | 30    | 30    |
| Total Phenolics                  | milligrams per litre    | 1 | 1 | 0.05  | 0.05  | 0.05  |
| Xylene                           | milligrams per litre    | 1 | 1 | 2     | 2     | 2     |
| Zinc                             | milligrams per kilogram | 1 | 1 | 0.058 | 0.058 | 0.058 |

### Monitoring Point 11

Groundwater quality monitoring, Monitoring point labelled GMW104 on Figure 15 titled "Current Site Investigation Locations" dated 6 March

| Pollutant                         | Unit of Measure             | No of samples required by licence | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------------------------------|-----------------------------|-----------------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Alkalinity (as calcium carbonate) | milligrams per litre        | 4                                 | 4                                     | 167                 | 331.5          | 399                  |
| Aluminium                         | milligrams per litre        | 1                                 | 4                                     | 6.24                | 7.15           | 8.89                 |
| Arsenic                           | milligrams per litre        | 1                                 | 1                                     | 0.001               | 0.001          | 0.001                |
| Barium                            | milligrams per litre        | 1                                 | 4                                     | 0.03                | 0.04           | 0.038                |
| Benzene                           | milligrams per litre        | 1                                 | 1                                     | 1                   | 1              | 1                    |
| Cadmium                           | milligrams per litre        | 1                                 | 4                                     | 0                   | 0              | 0                    |
| Calcium                           | milligrams per litre        | 4                                 | 4                                     | 50                  | 52.75          | 56                   |
| Chloride                          | milligrams per litre        | 4                                 | 4                                     | 66                  | 67.5           | 70                   |
| Chromium (hexavalent)             | milligrams per litre        | 1                                 | 1                                     | 0.01                | 0.01           | 0.01                 |
| Chromium (total)                  | milligrams per litre        | 1                                 | 4                                     | 0                   | 0.1            | 0.1                  |
| Cobalt                            | milligrams per litre        | 1                                 | 4                                     | 0                   | 0.01           | 0.01                 |
| Conductivity                      | microsiemens per centimeter | 4                                 | 4                                     | 934                 | 1057.5         | 1180                 |
| Copper                            | milligrams per litre        | 1                                 | 4                                     | 0.01                | 0.01           | 0.02                 |
| Ethyl benzene                     | micrograms per litre        | 1                                 | 1                                     | 2                   | 2              | 2                    |
| Fluoride                          | milligrams per litre        | 1                                 | 1                                     | 0.6                 | 0.6            | 0.6                  |
| Lead                              | milligrams per litre        | 1                                 | 4                                     | 0                   | 0.01           | 0.01                 |
| Magnesium                         | milligrams per litre        | 4                                 | 4                                     | 31                  | 32.25          | 40                   |
| Manganese                         | micrograms per litre        | 1                                 | 4                                     | 0.28                | 0.46           | 0.66                 |
| Mercury                           | milligrams per litre        | 1                                 | 1                                     | 0.0001              | 0.0001         | 0.0001               |
| Nitrate                           | milligrams per litre        | 1                                 | 1                                     | 0.45                | 0.45           | 0.45                 |
| Nitrite                           | milligrams per litre        | 1                                 | 1                                     | 0.01                | 0.01           | 0.01                 |
| Nitrogen (ammonia)                | milligrams per litre        | 4                                 | 4                                     | 0.01                | 0.04           | 0.09                 |
| Organochlorine pesticides         | milligrams per litre        | 1                                 | 1                                     | 0.5                 | 0.5            | 0.5                  |
| Organophosphate pesticides        | milligrams per litre        | 1                                 | 1                                     | 0.5                 | 0.5            | 0.5                  |
| pH                                | pH                          | 4                                 | 4                                     | 7                   | 7.13           | 7.2                  |
| Polycyclic aromatic hydrocarbons  | milligrams per litre        | 1                                 | 1                                     | 1                   | 1              | 1                    |
| Potassium                         | milligrams per litre        | 4                                 | 4                                     | 1                   | 1              | 1                    |
| Sodium                            | milligrams per litre        | 4                                 | 4                                     | 125                 | 142            | 170                  |
| Standing Water Level              | meters                      | 4                                 | 4                                     | 7.25                | 7.69           | 8.35                 |
| Sulfate                           | milligrams per litre        | 4                                 | 4                                     | 38                  | 44             | 52                   |
| Toluene                           | milligrams per litre        | 1                                 | 1                                     | 2                   | 2              | 2                    |
| Total dissolved solids            | milligrams per litre        | 4                                 | 4                                     | 584                 | 633            | 713                  |
| Total organic carbon              | milligrams per litre        | 4                                 | 4                                     | 1                   | 2.25           | 4                    |
| Total petroleum hydrocarbons      | milligrams per litre        | 1                                 | 1                                     | 50                  | 50             | 50                   |
| Total Phenolics                   | milligrams per litre        | 1                                 | 1                                     | 0.05                | 0.05           | 0.05                 |

|        |                         |   |   |      |      |      |
|--------|-------------------------|---|---|------|------|------|
| Xylene | milligrams per litre    | 1 | 1 | 1    | 1    | 1    |
| Zinc   | milligrams per kilogram | 1 | 4 | 0.02 | 0.03 | 0.04 |

### Monitoring Point 12

Groundwater quality monitoring, Monitoring point labelled GMW105 on Figure 15 titled "Current Site Investigation Locations" dated 6 March

| Pollutant                         | Unit of Measure             | No of samples required by licence | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------------------------------|-----------------------------|-----------------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Alkalinity (as calcium carbonate) | milligrams per litre        | 4                                 | 4                                     | 26                  | 38.5           | 51                   |
| Aluminium                         | milligrams per litre        | 1                                 | 1                                     | 0.7                 | 0.7            | 0.7                  |
| Arsenic                           | milligrams per litre        | 1                                 | 1                                     | 0.001               | 0.001          | 0.001                |
| Barium                            | milligrams per litre        | 1                                 | 1                                     | 0.004               | 0.004          | 0.004                |
| Benzene                           | milligrams per litre        | 1                                 | 1                                     | 1                   | 1              | 1                    |
| Cadmium                           | milligrams per litre        | 1                                 | 1                                     | 0.0001              | 0.0001         | 0.0001               |
| Calcium                           | milligrams per litre        | 4                                 | 4                                     | 9                   | 13             | 17                   |
| Chloride                          | milligrams per litre        | 4                                 | 4                                     | 67                  | 70.5           | 74                   |
| Chromium (hexavalent)             | milligrams per litre        | 1                                 | 1                                     | 0.01                | 0.01           | 0.01                 |
| Chromium (total)                  | milligrams per litre        | 1                                 | 1                                     | 0.002               | 0.002          | 0.002                |
| Cobalt                            | milligrams per litre        | 1                                 | 1                                     | 0.001               | 0.001          | 0.001                |
| Conductivity                      | microsiemens per centimeter | 4                                 | 4                                     | 356                 | 386.5          | 417                  |
| Copper                            | milligrams per litre        | 1                                 | 1                                     | 0.002               | 0.002          | 0.002                |
| Ethyl benzene                     | micrograms per litre        | 1                                 | 1                                     | 2                   | 2              | 2                    |
| Fluoride                          | milligrams per litre        | 1                                 | 1                                     | 0.1                 | 0.1            | 0.1                  |
| Lead                              | milligrams per litre        | 1                                 | 1                                     | 0.001               | 0.001          | 0.001                |
| Magnesium                         | milligrams per litre        | 4                                 | 4                                     | 5                   | 6.5            | 8                    |
| Manganese                         | micrograms per litre        | 1                                 | 1                                     | 0.02                | 0.02           | 0.02                 |
| Mercury                           | milligrams per litre        | 1                                 | 1                                     | 0.0001              | 0.0001         | 0.0001               |
| Nitrate                           | milligrams per litre        | 1                                 | 1                                     | 6.43                | 6.43           | 6.43                 |
| Nitrite                           | milligrams per litre        | 1                                 | 1                                     | 0.01                | 0.01           | 0.01                 |
| Nitrogen (ammonia)                | milligrams per litre        | 4                                 | 4                                     | 0.01                | 0.01           | 0.01                 |
| Organochlorine pesticides         | milligrams per litre        | 1                                 | 1                                     | 0.5                 | 0.5            | 0.5                  |
| Organophosphate pesticides        | milligrams per litre        | 1                                 | 1                                     | 0.5                 | 0.5            | 0.5                  |
| pH                                | pH                          | 4                                 | 4                                     | 5.5                 | 5.5            | 5.5                  |
| Polycyclic aromatic hydrocarbons  | milligrams per litre        | 1                                 | 1                                     | 1                   | 1              | 1                    |
| Potassium                         | milligrams per litre        | 4                                 | 4                                     | 1                   | 1              | 1                    |
| Sodium                            | milligrams per litre        | 4                                 | 4                                     | 45                  | 47.5           | 50                   |
| Standing Water Level              | meters                      | 4                                 | 4                                     | 10.99               | 11.045         | 11.1                 |
| Sulfate                           | milligrams per litre        | 4                                 | 4                                     | 9                   | 12             | 15                   |
| Toluene                           | milligrams per litre        | 1                                 | 1                                     | 2                   | 2              | 2                    |
| Total dissolved solids            | milligrams per litre        | 4                                 | 4                                     | 290                 | 292            | 294                  |
| Total organic carbon              | milligrams per litre        | 4                                 | 4                                     | 1                   | 1.5            | 2                    |
| Total petroleum hydrocarbons      | milligrams per litre        | 1                                 | 1                                     | 50                  | 50             | 50                   |
| Total Phenolics                   | milligrams per litre        | 1                                 | 1                                     | 0.05                | 0.05           | 0.05                 |
| Xylene                            | milligrams per litre        | 1                                 | 1                                     | 2                   | 2              | 2                    |
| Zinc                              | milligrams per kilogram     | 1                                 | 1                                     | 0.005               | 0.005          | 0.005                |

### Monitoring Point 13

Groundwater quality monitoring, Monitoring point labelled GMW106 on Figure 15 titled "Current Site Investigation Locations" dated 6 March

| Pollutant                         | Unit of Measure      | No of samples required by licence | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------------------------------|----------------------|-----------------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Alkalinity (as calcium carbonate) | milligrams per litre | 4                                 | 4                                     | Dry                 | Dry            | Dry                  |
| Aluminium                         | milligrams per litre | 1                                 | 1                                     | Dry                 | Dry            | Dry                  |
| Arsenic                           | milligrams per litre | 1                                 | 1                                     | Dry                 | Dry            | Dry                  |
| Barium                            | milligrams per litre | 1                                 | 1                                     | Dry                 | Dry            | Dry                  |
| Benzene                           | milligrams per litre | 1                                 | 1                                     | Dry                 | Dry            | Dry                  |
| Cadmium                           | milligrams per litre | 1                                 | 1                                     | Dry                 | Dry            | Dry                  |
| Calcium                           | milligrams per litre | 4                                 | 4                                     | Dry                 | Dry            | Dry                  |
| Chloride                          | milligrams per litre | 4                                 | 4                                     | Dry                 | Dry            | Dry                  |

|                                  |                             |   |   |     |     |     |
|----------------------------------|-----------------------------|---|---|-----|-----|-----|
| Chromium (hexavalent)            | milligrams per litre        | 1 | 1 | Dry | Dry | Dry |
| Chromium (total)                 | milligrams per litre        | 1 | 1 | Dry | Dry | Dry |
| Cobalt                           | milligrams per litre        | 1 | 1 | Dry | Dry | Dry |
| Conductivity                     | microsiemens per centimeter | 4 | 4 | Dry | Dry | Dry |
| Copper                           | milligrams per litre        | 1 | 1 | Dry | Dry | Dry |
| Ethyl benzene                    | micrograms per litre        | 1 | 1 | Dry | Dry | Dry |
| Fluoride                         | milligrams per litre        | 1 | 1 | Dry | Dry | Dry |
| Lead                             | milligrams per litre        | 1 | 1 | Dry | Dry | Dry |
| Magnesium                        | milligrams per litre        | 4 | 4 | Dry | Dry | Dry |
| Manganese                        | micrograms per litre        | 1 | 1 | Dry | Dry | Dry |
| Mercury                          | milligrams per litre        | 1 | 1 | Dry | Dry | Dry |
| Nitrate                          | milligrams per litre        | 1 | 1 | Dry | Dry | Dry |
| Nitrite                          | milligrams per litre        | 1 | 1 | Dry | Dry | Dry |
| Nitrogen (ammonia)               | milligrams per litre        | 4 | 4 | Dry | Dry | Dry |
| Organochlorine pesticides        | milligrams per litre        | 1 | 1 | Dry | Dry | Dry |
| Organophosphate pesticides       | milligrams per litre        | 1 | 1 | Dry | Dry | Dry |
| pH                               | pH                          | 4 | 4 | Dry | Dry | Dry |
| Polycyclic aromatic hydrocarbons | milligrams per litre        | 1 | 1 | Dry | Dry | Dry |
| Potassium                        | milligrams per litre        | 4 | 4 | Dry | Dry | Dry |
| Sodium                           | milligrams per litre        | 4 | 4 | Dry | Dry | Dry |
| Standing Water Level             | meters                      | 4 | 4 | Dry | Dry | Dry |
| Sulfate                          | milligrams per litre        | 4 | 4 | Dry | Dry | Dry |
| Toluene                          | milligrams per litre        | 1 | 1 | Dry | Dry | Dry |
| Total dissolved solids           | milligrams per litre        | 4 | 4 | Dry | Dry | Dry |
| Total organic carbon             | milligrams per litre        | 4 | 4 | Dry | Dry | Dry |
| Total petroleum hydrocarbons     | milligrams per litre        | 1 | 1 | Dry | Dry | Dry |
| Total Phenolics                  | milligrams per litre        | 1 | 1 | Dry | Dry | Dry |
| Xylene                           | milligrams per litre        | 1 | 1 | Dry | Dry | Dry |
| Zinc                             | milligrams per kilogram     | 1 | 1 | Dry | Dry | Dry |

| <b>Monitoring Point 14</b>   |                             |  |  |                            |                       |                             |
|--|-----------------------------|--|--|----------------------------|-----------------------|-----------------------------|
| Groundwater quality monitoring, Monitoring point labelled GMW108S on Figure 15 titled "Current Site Investigation Locations" dated 6 |                             |  |  |                            |                       |                             |
| <b>Pollutant</b>   | <b>Unit of Measure</b>      | <b>No of samples required by licence</b> | <b>No. of samples collected and analysed</b> | <b>Lowest sample value</b> | <b>Mean of sample</b> | <b>Highest sample value</b> |
| Alkalinity (as calcium carbonate)  | milligrams per litre        | 4  | 4  | 192                        | 232                   | 282                         |
| Aluminium  | milligrams per litre        | 1  | 1  | 6.6                        | 6.6                   | 6.6                         |
| Arsenic  | milligrams per litre        | 1  | 1  | 0.001                      | 0.001                 | 0.001                       |
| Barium   | milligrams per litre        | 1  | 1  | 0.105                      | 0.105                 | 0.105                       |
| Benzene  | milligrams per litre        | 1  | 1  | 1                          | 1                     | 1                           |
| Cadmium  | milligrams per litre        | 1  | 1  | 0.0001                     | 0.0001                | 0.0001                      |
| Calcium  | milligrams per litre        | 4  | 4  | 23                         | 35                    | 50                          |
| Chloride   | milligrams per litre        | 4  | 4  | 20                         | 66.5                  | 113                         |
| Chromium (hexavalent)  | milligrams per litre        | 1  | 1  | 0.05                       | 0.05                  | 0.05                        |
| Chromium (total)   | milligrams per litre        | 1  | 1  | 0.005                      | 0.005                 | 0.005                       |
| Cobalt   | milligrams per litre        | 1  | 1  | 0.003                      | 0.003                 | 0.003                       |
| Conductivity   | microsiemens per centimeter | 4  | 4  | 417                        | 709.75                | 912                         |
| Copper   | milligrams per litre        | 1  | 1  | 0.015                      | 0.015                 | 0.015                       |
| Ethyl benzene  | micrograms per litre        | 1  | 1  | 2                          | 2                     | 2                           |
| Fluoride   | milligrams per litre        | 1  | 1  | 0.2                        | 0.2                   | 0.2                         |
| Lead   | milligrams per litre        | 1  | 1  | 0.004                      | 0.004                 | 0.004                       |
| Magnesium  | milligrams per litre        | 4  | 4  | 14                         | 17.75                 | 26                          |
| Manganese  | micrograms per litre        | 1  | 1  | 0.115                      | 0.115                 | 0.115                       |
| Mercury  | milligrams per litre        | 1  | 1  | 0.0001                     | 0.0001                | 0.0001                      |
| Nitrate  | milligrams per litre        | 1  | 1  | 0.03                       | 0.03                  | 0.03                        |
| Nitrite  | milligrams per litre        | 1  | 1  | 0.06                       | 0.06                  | 0.06                        |
| Nitrogen (ammonia)   | milligrams per litre        | 4  | 4  | 0.06                       | 0.1175                | 0.17                        |
| Organochlorine pesticides  | milligrams per litre        | 1  | 1  | 0.5                        | 0.5                   | 0.5                         |

|                                  |                         |   |   |       |        |       |
|----------------------------------|-------------------------|---|---|-------|--------|-------|
| Organophosphate pesticides       | milligrams per litre    | 1 | 1 | 0.5   | 0.5    | 0.5   |
| pH                               | pH                      | 4 | 4 | 6.6   | 6.75   | 6.9   |
| Polycyclic aromatic hydrocarbons | milligrams per litre    | 1 | 1 | 1     | 1      | 1     |
| Potassium                        | milligrams per litre    | 4 | 4 | 3     | 4.5    | 8     |
| Sodium                           | milligrams per litre    | 4 | 4 | 38    | 90.25  | 120   |
| Standing Water Level             | meters                  | 4 | 4 | 2.87  | 3.1725 | 3.35  |
| Sulfate                          | milligrams per litre    | 4 | 4 | 3     | 22.25  | 34    |
| Toluene                          | milligrams per litre    | 1 | 1 | 2     | 2      | 2     |
| Total dissolved solids           | milligrams per litre    | 4 | 4 | 284   | 509.25 | 666   |
| Total organic carbon             | milligrams per litre    | 4 | 4 | 7     | 7.75   | 8     |
| Total petroleum hydrocarbons     | milligrams per litre    | 1 | 1 | 50    | 50     | 50    |
| Total Phenolics                  | milligrams per litre    | 1 | 1 | 0.05  | 0.05   | 0.05  |
| Xylene                           | milligrams per litre    | 1 | 1 | 2     | 2      | 2     |
| Zinc                             | milligrams per kilogram | 1 | 1 | 0.018 | 0.018  | 0.018 |

| <b>Monitoring Point 15</b>   |                             |  |  |                            |                       |                             |
|--|-----------------------------|--|--|----------------------------|-----------------------|-----------------------------|
| Groundwater quality monitoring, Monitoring point labelled GMW108D on Figure 15 titled "Current Site Investigation Locations" dated 6 |                             |  |  |                            |                       |                             |
| <b>Pollutant</b>   | <b>Unit of Measure</b>      | <b>No of samples required by licence</b> | <b>No. of samples collected and analysed</b> | <b>Lowest sample value</b> | <b>Mean of sample</b> | <b>Highest sample value</b> |
| Alkalinity (as calcium carbonate)  | milligrams per litre        | 4  | 4  | 437                        | 499                   | 527                         |
| Aluminium  | milligrams per litre        | 1  | 1  | 0.17                       | 0.17                  | 0.17                        |
| Arsenic  | milligrams per litre        | 1  | 1  | 0.001                      | 0.001                 | 0.001                       |
| Barium   | milligrams per litre        | 1  | 1  | 0.016                      | 0.016                 | 0.016                       |
| Benzene  | milligrams per litre        | 1  | 1  | 1                          | 1                     | 1                           |
| Cadmium  | milligrams per litre        | 1  | 1  | 0.0001                     | 0.0001                | 0.0001                      |
| Calcium  | milligrams per litre        | 4  | 4  | 124                        | 134                   | 145                         |
| Chloride   | milligrams per litre        | 4  | 4  | 644                        | 674.5                 | 723                         |
| Chromium (hexavalent)  | milligrams per litre        | 1  | 1  | 0.01                       | 0.01                  | 0.01                        |
| Chromium (total)   | milligrams per litre        | 1  | 1  | 0.001                      | 0.001                 | 0.001                       |
| Cobalt   | milligrams per litre        | 1  | 1  | 0.001                      | 0.001                 | 0.001                       |
| Conductivity   | microsiemens per centimeter | 4  | 4  | 3220                       | 3247.5                | 3280                        |
| Copper   | milligrams per litre        | 1  | 1  | 0.001                      | 0.001                 | 0.001                       |
| Ethyl benzene  | micrograms per litre        | 1  | 1  | 2                          | 2                     | 2                           |
| Fluoride   | milligrams per litre        | 1  | 1  | 0.6                        | 0.6                   | 0.6                         |
| Lead   | milligrams per litre        | 1  | 1  | 0.001                      | 0.001                 | 0.001                       |
| Magnesium  | milligrams per litre        | 4  | 4  | 89                         | 93                    | 98                          |
| Manganese  | micrograms per litre        | 1  | 1  | 0.046                      | 0.046                 | 0.046                       |
| Mercury  | milligrams per litre        | 1  | 1  | 0.0001                     | 0.0001                | 0.0001                      |
| Nitrate  | milligrams per litre        | 1  | 1  | 0.01                       | 0.01                  | 0.01                        |
| Nitrite  | milligrams per litre        | 1  | 1  | 0.01                       | 0.01                  | 0.01                        |
| Nitrogen (ammonia)   | milligrams per litre        | 4  | 4  | 0.01                       | 0.04                  | 0.1                         |
| Organochlorine pesticides  | milligrams per litre        | 1  | 1  | 0.5                        | 0.5                   | 0.5                         |
| Organophosphate pesticides   | milligrams per litre        | 1  | 1  | 0.5                        | 0.5                   | 0.5                         |
| pH   | pH                          | 4  | 4  | 6.6                        | 6.75                  | 6.9                         |
| Polycyclic aromatic hydrocarbons   | milligrams per litre        | 1  | 1  | 1                          | 1                     | 1                           |
| Potassium  | milligrams per litre        | 4  | 4  | 1                          | 1                     | 1                           |
| Sodium   | milligrams per litre        | 4  | 4  | 410                        | 448                   | 483                         |
| Standing Water Level   | meters                      | 4  | 4  | 2.42                       | 2.675                 | 2.81                        |
| Sulfate  | milligrams per litre        | 4  | 4  | 202                        | 206.75                | 219                         |
| Toluene  | milligrams per litre        | 1  | 1  | 2                          | 2                     | 2                           |
| Total dissolved solids   | milligrams per litre        | 4  | 4  | 1600                       | 1757.5                | 1870                        |
| Total organic carbon   | milligrams per litre        | 4  | 4  | 1                          | 2.75                  | 6                           |
| Total petroleum hydrocarbons   | milligrams per litre        | 1  | 1  | 50                         | 50                    | 50                          |
| Total Phenolics  | milligrams per litre        | 1  | 1  | 0.05                       | 0.05                  | 0.05                        |



|        |                         |   |   |       |       |       |
|--------|-------------------------|---|---|-------|-------|-------|
| Xylene | milligrams per litre    | 1 | 1 | 2     | 2     | 2     |
| Zinc   | milligrams per kilogram | 1 | 1 | 0.005 | 0.005 | 0.005 |

### Monitoring Point 16

Groundwater quality monitoring, Monitoring point labelled GMW109S on Figure 15 titled "Current Site Investigation Locations" dated 6

| Pollutant                         | Unit of Measure             | No of samples required by licence | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------------------------------|-----------------------------|-----------------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Alkalinity (as calcium carbonate) | milligrams per litre        | 4                                 | 4                                     | 217                 | 252.5          | 321                  |
| Aluminium                         | milligrams per litre        | 1                                 | 4                                     | 6.48                | 50.30666667    | 137                  |
| Arsenic                           | milligrams per litre        | 1                                 | 1                                     | 0.001               | 0.001          | 0.001                |
| Barium                            | milligrams per litre        | 1                                 | 4                                     | 0.188               | 1.632666667    | 2.52                 |
| Benzene                           | milligrams per litre        | 1                                 | 1                                     | 1                   | 1              | 1                    |
| Cadmium                           | milligrams per litre        | 1                                 | 4                                     | 0.0003              | 0.0008333333   | 0.0019               |
| Calcium                           | milligrams per litre        | 4                                 | 4                                     | 73                  | 99.5           | 131                  |
| Chloride                          | milligrams per litre        | 4                                 | 4                                     | 341                 | 384.5          | 430                  |
| Chromium (hexavalent)             | milligrams per litre        | 1                                 | 1                                     | 0.01                | 0.01           | 0.01                 |
| Chromium (total)                  | milligrams per litre        | 1                                 | 4                                     | 0.009               | 0.07           | 0.191                |
| Cobalt                            | milligrams per litre        | 1                                 | 4                                     | 0.041               | 0.091666667    | 0.187                |
| Conductivity                      | microsiemens per centimeter | 4                                 | 4                                     | 1640                | 1802.5         | 2150                 |
| Copper                            | milligrams per litre        | 1                                 | 4                                     | 0.018               | 0.1773333333   | 0.479                |
| Ethyl benzene                     | micrograms per litre        | 1                                 | 1                                     | 2                   | 2              | 2                    |
| Fluoride                          | milligrams per litre        | 1                                 | 1                                     | 0.3                 | 0.3            | 0.3                  |
| Lead                              | milligrams per litre        | 1                                 | 4                                     | 0.014               | 0.1003333333   | 0.187                |
| Magnesium                         | milligrams per litre        | 4                                 | 4                                     | 52                  | 63.25          | 77                   |
| Manganese                         | micrograms per litre        | 1                                 | 4                                     | 3.79                | 6.79           | 11.2                 |
| Mercury                           | milligrams per litre        | 1                                 | 1                                     | 0.0001              | 0.0001         | 0.0001               |
| Nitrate                           | milligrams per litre        | 1                                 | 1                                     | 0.01                | 0.01           | 0.01                 |
| Nitrite                           | milligrams per litre        | 1                                 | 1                                     | 0.01                | 0.01           | 0.01                 |
| Nitrogen (ammonia)                | milligrams per litre        | 4                                 | 4                                     | 0.4                 | 0.4475         | 0.58                 |
| Organochlorine pesticides         | milligrams per litre        | 1                                 | 1                                     | 0.5                 | 0.5            | 0.5                  |
| Organophosphate pesticides        | milligrams per litre        | 1                                 | 1                                     | 0.5                 | 0.5            | 0.5                  |
| pH                                | pH                          | 4                                 | 4                                     | 6.2                 | 6.375          | 6.8                  |
| Polycyclic aromatic hydrocarbons  | milligrams per litre        | 1                                 | 1                                     | 1                   | 1              | 1                    |
| Potassium                         | milligrams per litre        | 4                                 | 4                                     | 2                   | 2.25           | 3                    |
| Sodium                            | milligrams per litre        | 4                                 | 4                                     | 58                  | 157.25         | 215                  |
| Standing Water Level              | meters                      | 4                                 | 4                                     | 2.7                 | 3.29           | 3.71                 |
| Sulfate                           | milligrams per litre        | 4                                 | 4                                     | 109                 | 150.75         | 186                  |
| Toluene                           | milligrams per litre        | 1                                 | 1                                     | 2                   | 2              | 2                    |
| Total dissolved solids            | milligrams per litre        | 4                                 | 4                                     | 862                 | 1363           | 2130                 |
| Total organic carbon              | milligrams per litre        | 4                                 | 4                                     | 2                   | 7              | 12                   |
| Total petroleum hydrocarbons      | milligrams per litre        | 1                                 | 1                                     | 50                  | 50             | 50                   |
| Total Phenolics                   | milligrams per litre        | 1                                 | 1                                     | 2                   | 2              | 2                    |
| Xylene                            | milligrams per litre        | 1                                 | 1                                     | 0.005               | 0.005          | 0.005                |
| Zinc                              | milligrams per kilogram     | 1                                 | 4                                     | 0.054               | 0.303666667    | 0.784                |

**Monitoring Point 17**

Groundwater quality monitoring, Monitoring point labelled GMW110 on Figure 15 titled "Current Site Investigation Locations" dated 6 March

| Pollutant                         | Unit of Measure             | No of samples required by licence | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------------------------------|-----------------------------|-----------------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Alkalinity (as calcium carbonate) | milligrams per litre        | 4                                 | 4                                     | 561                 | 627.25         | 675                  |
| Aluminium                         | milligrams per litre        | 1                                 | 1                                     | 6.08                | 6.08           | 6.08                 |
| Arsenic                           | milligrams per litre        | 1                                 | 1                                     | 0.001               | 0.001          | 0.001                |
| Barium                            | milligrams per litre        | 1                                 | 1                                     | 0.019               | 0.019          | 0.019                |
| Benzene                           | milligrams per litre        | 1                                 | 1                                     | 1                   | 1              | 1                    |
| Cadmium                           | milligrams per litre        | 1                                 | 1                                     | 0.0001              | 0.0001         | 0.0001               |
| Calcium                           | milligrams per litre        | 4                                 | 4                                     | 202                 | 209.75         | 230                  |
| Chloride                          | milligrams per litre        | 4                                 | 4                                     | 326                 | 751.75         | 941                  |
| Chromium (hexavalent)             | milligrams per litre        | 1                                 | 1                                     | 0.01                | 0.01           | 0.01                 |
| Chromium (total)                  | milligrams per litre        | 1                                 | 1                                     | 0.004               | 0.004          | 0.004                |
| Cobalt                            | milligrams per litre        | 1                                 | 1                                     | 0.003               | 0.003          | 0.003                |
| Conductivity                      | microsiemens per centimeter | 4                                 | 4                                     | 4220                | 4307.5         | 4350                 |
| Copper                            | milligrams per litre        | 1                                 | 1                                     | 0.007               | 0.007          | 0.007                |
| Ethyl benzene                     | micrograms per litre        | 1                                 | 1                                     | 2                   | 2              | 2                    |
| Fluoride                          | milligrams per litre        | 1                                 | 1                                     | 0.4                 | 0.4            | 0.4                  |
| Lead                              | milligrams per litre        | 1                                 | 1                                     | 0.002               | 0.002          | 0.002                |
| Magnesium                         | milligrams per litre        | 4                                 | 4                                     | 162                 | 169.25         | 177                  |
| Manganese                         | micrograms per litre        | 1                                 | 1                                     | 0.175               | 0.175          | 0.175                |
| Mercury                           | milligrams per litre        | 1                                 | 1                                     | 0.0001              | 0.0001         | 0.0001               |
| Nitrate                           | milligrams per litre        | 1                                 | 1                                     | 0.44                | 0.44           | 0.44                 |
| Nitrite                           | milligrams per litre        | 1                                 | 1                                     | 0.01                | 0.01           | 0.01                 |
| Nitrogen (ammonia)                | milligrams per litre        | 4                                 | 4                                     | 0.01                | 0.02           | 0.05                 |
| Organochlorine pesticides         | milligrams per litre        | 1                                 | 1                                     | 0.5                 | 0.5            | 0.5                  |
| Organophosphate pesticides        | milligrams per litre        | 1                                 | 1                                     | 0.05                | 0.05           | 0.05                 |
| pH                                | pH                          | 4                                 | 4                                     | 6.3                 | 6.65           | 6.8                  |
| Polycyclic aromatic hydrocarbons  | milligrams per litre        | 1                                 | 1                                     | 1                   | 1              | 1                    |
| Potassium                         | milligrams per litre        | 4                                 | 4                                     | 1                   | 1.75           | 2                    |
| Sodium                            | milligrams per litre        | 4                                 | 4                                     | 455                 | 493            | 521                  |
| Standing Water Level              | meters                      | 4                                 | 4                                     | 4.08                | 4.32           | 4.45                 |
| Sulfate                           | milligrams per litre        | 4                                 | 4                                     | 312                 | 460.25         | 842                  |
| Toluene                           | milligrams per litre        | 1                                 | 1                                     | 2                   | 2              | 2                    |
| Total dissolved solids            | milligrams per litre        | 4                                 | 4                                     | 2400                | 2580           | 2680                 |
| Total organic carbon              | milligrams per litre        | 4                                 | 4                                     | 1                   | 3.75           | 9                    |
| Total petroleum hydrocarbons      | milligrams per litre        | 1                                 | 1                                     | 50                  | 50             | 50                   |
| Total Phenolics                   | milligrams per litre        | 1                                 | 1                                     | 0.05                | 0.05           | 0.05                 |
| Xylene                            | milligrams per litre        | 1                                 | 1                                     | 2                   | 2              | 2                    |
| Zinc                              | milligrams per kilogram     | 1                                 | 1                                     | 0.02                | 0.02           | 0.02                 |

**Monitoring Point 18**

Groundwater quality monitoring, Monitoring point labelled GMW111 on Figure 15 titled "Current Site Investigation Locations" dated 6 March

| Pollutant                         | Unit of Measure      | No of samples required by licence | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------------------------------|----------------------|-----------------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Alkalinity (as calcium carbonate) | milligrams per litre | 4                                 | 4                                     | 8                   | 408.25         | 646                  |
| Aluminium                         | milligrams per litre | 1                                 | 1                                     | 10.7                | 10.7           | 10.7                 |
| Arsenic                           | milligrams per litre | 1                                 | 1                                     | 0.004               | 0.004          | 0.004                |
| Barium                            | milligrams per litre | 1                                 | 1                                     | 0.054               | 0.054          | 0.054                |
| Benzene                           | milligrams per litre | 1                                 | 1                                     | 1                   | 1              | 1                    |
| Cadmium                           | milligrams per litre | 1                                 | 1                                     | 0.0001              | 0.0001         | 0.0001               |
| Calcium                           | milligrams per litre | 4                                 | 4                                     | 94                  | 108.5          | 125                  |
| Chloride                          | milligrams per litre | 4                                 | 4                                     | 258                 | 446.75         | 667                  |
| Chromium (hexavalent)             | milligrams per litre | 1                                 | 1                                     | 0.05                | 0.05           | 0.05                 |
| Chromium (total)                  | milligrams per litre | 1                                 | 1                                     | 0.018               | 0.018          | 0.018                |

|                                  |                             |   |   |        |             |        |
|----------------------------------|-----------------------------|---|---|--------|-------------|--------|
| Cobalt                           | milligrams per litre        | 1 | 1 | 0.015  | 0.015       | 0.015  |
| Conductivity                     | microsiemens per centimeter | 4 | 4 | 2020   | 2707.5      | 3460   |
| Copper                           | milligrams per litre        | 1 | 1 | 0.032  | 0.032       | 0.032  |
| Ethyl benzene                    | micrograms per litre        | 1 | 1 | 2      | 2           | 2      |
| Fluoride                         | milligrams per litre        | 1 | 1 | 0.4    | 0.4         | 0.4    |
| Lead                             | milligrams per litre        | 1 | 1 | 0.013  | 0.013       | 0.013  |
| Magnesium                        | milligrams per litre        | 4 | 4 | 62     | 79.5        | 104    |
| Manganese                        | micrograms per litre        | 1 | 1 | 1.34   | 1.34        | 1.34   |
| Mercury                          | milligrams per litre        | 1 | 1 | 0.0001 | 0.0001      | 0.0001 |
| Nitrate                          | milligrams per litre        | 1 | 1 | 0.01   | 0.01        | 0.01   |
| Nitrite                          | milligrams per litre        | 1 | 1 | 0.01   | 0.01        | 0.01   |
| Nitrogen (ammonia)               | milligrams per litre        | 4 | 4 | 0.01   | 0.5325      | 1.11   |
| Organochlorine pesticides        | milligrams per litre        | 1 | 1 | 0.5    | 0.5         | 0.5    |
| Organophosphate pesticides       | milligrams per litre        | 1 | 1 | 0.5    | 0.5         | 0.5    |
| pH                               | pH                          | 4 | 4 | 6.7    | 6.95        | 7.2    |
| Polycyclic aromatic hydrocarbons | milligrams per litre        | 1 | 1 | 1      | 1           | 1      |
| Potassium                        | milligrams per litre        | 4 | 4 | 1      | 2.75        | 5      |
| Sodium                           | milligrams per litre        | 4 | 4 | 338    | 414.75      | 487    |
| Standing Water Level             | meters                      | 4 | 4 | 6.33   | 6.596666667 | 7.04   |
| Sulfate                          | milligrams per litre        | 4 | 4 | 44     | 226.5       | 464    |
| Toluene                          | milligrams per litre        | 1 | 1 | 2      | 2           | 2      |
| Total dissolved solids           | milligrams per litre        | 4 | 4 | 1140   | 1555        | 1780   |
| Total organic carbon             | milligrams per litre        | 4 | 4 | 11     | 17.25       | 26     |
| Total petroleum hydrocarbons     | milligrams per litre        | 1 | 1 | 50     | 50          | 50     |
| Total Phenolics                  | milligrams per litre        | 1 | 1 | 0.05   | 0.05        | 0.05   |
| Xylene                           | milligrams per litre        | 1 | 1 | 2      | 2           | 2      |
| Zinc                             | milligrams per kilogram     | 1 | 1 | 0.046  | 0.046       | 0.046  |

| <b>Monitoring Point 19</b>  |                             |  |  |                            |                       |                             |
|---|-----------------------------|--|--|----------------------------|-----------------------|-----------------------------|
| Groundwater quality monitoring, Monitoring point labelled GMW109D on Figure 15 titled "Current Site Investigation Locations" dated 6 March 2012 (Whytes Gully New Landfill Cell EA - Volume IV). E297604.9 N6184068 |                             |  |  |                            |                       |                             |
| <b>Pollutant</b>  | <b>Unit of Measure</b>      | <b>No of samples required by licence</b> | <b>No. of samples collected and analysed</b> | <b>Lowest sample value</b> | <b>Mean of sample</b> | <b>Highest sample value</b> |
| Alkalinity (as calcium carbonate)   | milligrams per litre        | 4  | 4  | 42                         | 189.75                | 253                         |
| Aluminium   | milligrams per litre        | 1  | 1  | 0.18                       | 0.18                  | 0.18                        |
| Arsenic   | milligrams per litre        | 1  | 1  | 0.001                      | 0.001                 | 0.001                       |
| Barium  | milligrams per litre        | 1  | 1  | 0.156                      | 0.156                 | 0.156                       |
| Benzene   | milligrams per litre        | 1  | 1  | 1                          | 1                     | 1                           |
| Cadmium   | milligrams per litre        | 1  | 1  | 0.0001                     | 0.0001                | 0.0001                      |
| Calcium   | milligrams per litre        | 4  | 4  | 87                         | 121.75                | 197                         |
| Chloride  | milligrams per litre        | 4  | 4  | 427                        | 462.5                 | 486                         |
| Chromium (hexavalent)   | milligrams per litre        | 1  | 1  | 0.01                       | 0.01                  | 0.01                        |
| Chromium (total)  | milligrams per litre        | 1  | 1  | 0.001                      | 0.001                 | 0.001                       |
| Cobalt  | milligrams per litre        | 1  | 1  | 0.002                      | 0.002                 | 0.002                       |
| Conductivity  | microsiemens per centimeter | 4  | 4  | 1780                       | 1850                  | 1910                        |
| Copper  | milligrams per litre        | 1  | 1  | 0.001                      | 0.001                 | 0.001                       |
| Ethyl benzene   | micrograms per litre        | 1  | 1  | 2                          | 2                     | 2                           |
| Fluoride  | milligrams per litre        | 1  | 1  | 0.3                        | 0.3                   | 0.3                         |
| Lead  | milligrams per litre        | 1  | 1  | 0.001                      | 0.001                 | 0.001                       |
| Magnesium   | milligrams per litre        | 4  | 4  | 49                         | 54                    | 57                          |
| Manganese   | micrograms per litre        | 1  | 1  | 0.849                      | 0.849                 | 0.849                       |
| Mercury   | milligrams per litre        | 1  | 1  | 0.0001                     | 0.0001                | 0.0001                      |
| Nitrate   | milligrams per litre        | 1  | 1  | 0.01                       | 0.01                  | 0.01                        |
| Nitrite   | milligrams per litre        | 1  | 1  | 0.01                       | 0.01                  | 0.01                        |
| Nitrogen (ammonia)  | milligrams per litre        | 4  | 4  | 0.04                       | 0.095                 | 0.17                        |
| Organochlorine pesticides   | milligrams per litre        | 1  | 1  | 0.5                        | 0.5                   | 0.5                         |
| Organophosphate pesticides  | milligrams per litre        | 1  | 1  | 0.5                        | 0.5                   | 0.5                         |

|                                  |                         |   |   |       |        |       |
|----------------------------------|-------------------------|---|---|-------|--------|-------|
| pH                               | pH                      | 4 | 4 | 6.5   | 6.775  | 7     |
| Polycyclic aromatic hydrocarbons | milligrams per litre    | 1 | 1 | 1     | 1      | 1     |
| Potassium                        | milligrams per litre    | 4 | 4 | 1     | 1.25   | 2     |
| Sodium                           | milligrams per litre    | 4 | 4 | 184   | 198.75 | 210   |
| Standing Water Level             | meters                  | 4 | 4 | 2.78  | 3.135  | 3.4   |
| Sulfate                          | milligrams per litre    | 4 | 4 | 20    | 23.25  | 25    |
| Toluene                          | milligrams per litre    | 1 | 1 | 2     | 2      | 2     |
| Total dissolved solids           | milligrams per litre    | 4 | 4 | 1010  | 1102.5 | 1240  |
| Total organic carbon             | milligrams per litre    | 4 | 4 | 1     | 2.25   | 6     |
| Total petroleum hydrocarbons     | milligrams per litre    | 1 | 1 | 50    | 50     | 50    |
| Total Phenolics                  | milligrams per litre    | 1 | 1 | 0.05  | 0.05   | 0.05  |
| Xylene                           | milligrams per litre    | 1 | 1 | 2     | 2      | 2     |
| Zinc                             | milligrams per kilogram | 1 | 1 | 0.005 | 0.005  | 0.005 |

| <b>Monitoring Point 20</b>   |                             |  |  |                            |                       |                             |
|--|-----------------------------|--|--|----------------------------|-----------------------|-----------------------------|
| Groundwater quality monitoring, Monitoring point labelled BH6 on Figure 15 titled "Current Site Investigation Locations" dated 6 March |                             |  |  |                            |                       |                             |
| <b>Pollutant</b>   | <b>Unit of Measure</b>      | <b>No of samples required by licence</b> | <b>No. of samples collected and analysed</b> | <b>Lowest sample value</b> | <b>Mean of sample</b> | <b>Highest sample value</b> |
| Alkalinity (as calcium carbonate)  | milligrams per litre        | 4  | 4  | 273                        | 558.5                 | 822                         |
| Aluminium  | milligrams per litre        | 1  | 1  | 0.92                       | 0.92                  | 0.92                        |
| Arsenic  | milligrams per litre        | 1  | 1  | 0.003                      | 0.003                 | 0.003                       |
| Barium   | milligrams per litre        | 1  | 1  | 0.064                      | 0.064                 | 0.064                       |
| Benzene  | milligrams per litre        | 1  | 1  | 1                          | 1                     | 1                           |
| Cadmium  | milligrams per litre        | 1  | 1  | 0.0001                     | 0.0001                | 0.0001                      |
| Calcium  | milligrams per litre        | 4  | 4  | 69                         | 77                    | 86                          |
| Chloride   | milligrams per litre        | 4  | 4  | 26                         | 135                   | 194                         |
| Chromium (hexavalent)  | milligrams per litre        | 1  | 1  | 0.01                       | 0.01                  | 0.01                        |
| Chromium (total)   | milligrams per litre        | 1  | 1  | 0.002                      | 0.002                 | 0.002                       |
| Cobalt   | milligrams per litre        | 1  | 1  | 0.005                      | 0.005                 | 0.005                       |
| Conductivity   | microsiemens per centimeter | 4  | 4  | 656                        | 1399                  | 1690                        |
| Copper   | milligrams per litre        | 1  | 1  | 0.006                      | 0.006                 | 0.006                       |
| Ethyl benzene  | micrograms per litre        | 1  | 1  | 2                          | 2                     | 2                           |
| Fluoride   | milligrams per litre        | 1  | 1  | 0.5                        | 0.5                   | 0.5                         |
| Lead   | milligrams per litre        | 1  | 1  | 0.005                      | 0.005                 | 0.005                       |
| Magnesium  | milligrams per litre        | 4  | 4  | 18                         | 41                    | 50                          |
| Manganese  | micrograms per litre        | 1  | 1  | 0.469                      | 0.469                 | 0.469                       |
| Mercury  | milligrams per litre        | 1  | 1  | 0.0001                     | 0.0001                | 0.0001                      |
| Nitrate  | milligrams per litre        | 1  | 1  | 0.01                       | 0.01                  | 0.01                        |
| Nitrite  | milligrams per litre        | 1  | 1  | 0.01                       | 0.01                  | 0.01                        |
| Nitrogen (ammonia)   | milligrams per litre        | 4  | 4  | 0.1                        | 0.2475                | 0.46                        |
| Organochlorine pesticides  | milligrams per litre        | 1  | 1  | 0.5                        | 0.5                   | 0.5                         |
| Organophosphate pesticides   | milligrams per litre        | 1  | 1  | 0.5                        | 0.5                   | 0.5                         |
| pH   | pH                          | 4  | 4  | 6.6                        | 6.925                 | 7.2                         |
| Polycyclic aromatic hydrocarbons   | milligrams per litre        | 1  | 1  | 1                          | 1                     | 1                           |
| Potassium  | milligrams per litre        | 4  | 4  | 3                          | 4.25                  | 6                           |
| Sodium   | milligrams per litre        | 4  | 4  | 54                         | 186.25                | 244                         |
| Standing Water Level   | meters                      | 4  | 4  | 1.38                       | 1.71                  | 1.92                        |
| Sulfate  | milligrams per litre        | 4  | 4  | 46                         | 87                    | 117                         |
| Toluene  | milligrams per litre        | 1  | 1  | 2                          | 2                     | 2                           |
| Total dissolved solids   | milligrams per litre        | 4  | 4  | 414                        | 874.75                | 1170                        |
| Total organic carbon   | milligrams per litre        | 4  | 4  | 8                          | 8                     | 8                           |

|                              |                         |   |   |       |       |       |
|------------------------------|-------------------------|---|---|-------|-------|-------|
| Total petroleum hydrocarbons | milligrams per litre    | 1 | 1 | 50    | 50    | 50    |
| Total Phenolics              | milligrams per litre    | 1 | 1 | 0.05  | 0.05  | 0.05  |
| Xylene                       | milligrams per litre    | 1 | 1 | 2     | 2     | 2     |
| Zinc                         | milligrams per kilogram | 1 | 1 | 0.007 | 0.007 | 0.007 |

| <b>Monitoring Point 21</b>  |                   |                                   |                                       |                     |                |                      |
|---|-------------------|-----------------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Subsurface gas monitoring, Monitoring point labelled LFG MW1 on Figure 14 titled "Proposed Landfill Gas Monitoring Locations" dated 6 |                   |                                   |                                       |                     |                |                      |
| Pollutant   | Unit of Measure   | No of samples required by licence | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
| Methane   | percent by volume | 12                                | 12                                    | 0                   | 0.008333333    | 0.1                  |

| <b>Monitoring Point 22</b>  |                   |                                   |                                       |                     |                |                      |
|---|-------------------|-----------------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Subsurface gas monitoring, Monitoring point labelled LFG MW2 on Figure 14 titled "Proposed Landfill Gas Monitoring Locations" dated 6 |                   |                                   |                                       |                     |                |                      |
| Pollutant   | Unit of Measure   | No of samples required by licence | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
| Methane   | percent by volume | 12                                | 12                                    | 0                   | 0.008333333    | 0.1                  |

| <b>Monitoring Point 23</b>  |                   |                                   |                                       |                     |                |                      |
|---|-------------------|-----------------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Subsurface gas monitoring, Monitoring point labelled LFG MW3 on Figure 14 titled "Proposed Landfill Gas Monitoring Locations" dated 6 |                   |                                   |                                       |                     |                |                      |
| Pollutant   | Unit of Measure   | No of samples required by licence | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
| Methane   | percent by volume | 12                                | 12                                    | 0                   | 0.008333333    | 0.1                  |

| <b>Monitoring Point 24</b>  |                   |                                   |                                       |                     |                |                      |
|---|-------------------|-----------------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Subsurface gas monitoring, Monitoring point labelled LFG MW4 on Figure 14 titled "Proposed Landfill Gas Monitoring Locations" dated 6 |                   |                                   |                                       |                     |                |                      |
| Pollutant   | Unit of Measure   | No of samples required by licence | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
| Methane   | percent by volume | 12                                | 12                                    | 0                   | 0.008333333    | 0.1                  |

| <b>Monitoring Point 25</b>  |                   |                                   |                                       |                     |                |                      |
|---|-------------------|-----------------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Subsurface gas monitoring, Monitoring point labelled LFG MW5 on Figure 14 titled "Proposed Landfill Gas Monitoring Locations" dated 6 |                   |                                   |                                       |                     |                |                      |
| Pollutant   | Unit of Measure   | No of samples required by licence | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
| Methane   | percent by volume | 12                                | 12                                    | 0                   | 0.008333333    | 0.1                  |

| <b>Monitoring Point 26</b>  |                   |                                   |                                       |                     |                |                      |
|---|-------------------|-----------------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Subsurface gas monitoring, Monitoring point labelled LFG MW6 on Figure 14 titled "Proposed Landfill Gas Monitoring Locations" dated 6 |                   |                                   |                                       |                     |                |                      |
| Pollutant   | Unit of Measure   | No of samples required by licence | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
| Methane   | percent by volume | 12                                | 12                                    | 0                   | 0.008333333    | 0.1                  |

| <b>Monitoring Point 27</b>  |                   |                                   |                                       |                     |                |                      |
|---|-------------------|-----------------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Subsurface gas monitoring, Monitoring point labelled LFG MW7 on Figure 14 titled "Proposed Landfill Gas Monitoring Locations" dated 6 |                   |                                   |                                       |                     |                |                      |
| Pollutant   | Unit of Measure   | No of samples required by licence | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
| Methane   | percent by volume | 12                                | 12                                    | 0                   | 0.008333333    | 0.1                  |

| <b>Monitoring Point 28</b>  |                   |                                   |                                       |                     |                |                      |
|---|-------------------|-----------------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Subsurface gas monitoring, Monitoring point labelled LFG MW8 on Figure 14 titled "Proposed Landfill Gas Monitoring Locations" dated 6 |                   |                                   |                                       |                     |                |                      |
| Pollutant   | Unit of Measure   | No of samples required by licence | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
| Methane   | percent by volume | 12                                | 12                                    | 0                   | 0.008333333    | 0.1                  |

| <b>Monitoring Point 29</b>  |                   |                                   |                                       |                     |                |                      |
|---|-------------------|-----------------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Subsurface gas monitoring, Monitoring point labelled LFG MW9 on Figure 14 titled "Proposed Landfill Gas Monitoring Locations" dated 6 |                   |                                   |                                       |                     |                |                      |
| Pollutant   | Unit of Measure   | No of samples required by licence | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
| Methane   | percent by volume | 12                                | 12                                    | 0                   | 0.008333333    | 0.1                  |

| <b>Monitoring Point 3</b>   |  |  |  |  |  |  |
|---|--|--|--|--|--|--|
| Surface Gas Monitoring. Areas where intermediate or final cover has been placed |  |  |  |  |  |  |

| Pollutant | Unit of Measure   | No of samples required by licence | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------|-------------------|-----------------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Methane   | percent by volume | 12                                | 12                                    | 0.0001              | 0.000592       | 0.1253               |

| Monitoring Point 30  |                   |                                   |                                       |                     |                |                      |
|--|-------------------|-----------------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Subsurface gas monitoring, Monitoring point labelled LFG MW10 on Figure 14 titled "Proposed Landfill Gas Monitoring Locations" dated 6 |                   |                                   |                                       |                     |                |                      |
| Pollutant  | Unit of Measure   | No of samples required by licence | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
| Methane  | percent by volume | 12                                | 12                                    | 0                   | 0.008333333    | 0.1                  |

| Monitoring Point 31  |                   |                                   |                                       |                     |                |                      |
|--|-------------------|-----------------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Subsurface gas monitoring, Monitoring point labelled LFG MW11 on Figure 14 titled "Proposed Landfill Gas Monitoring Locations" dated 6 |                   |                                   |                                       |                     |                |                      |
| Pollutant  | Unit of Measure   | No of samples required by licence | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
| Methane  | percent by volume | 12                                | 12                                    | 0                   | 0.325          | 3.8                  |

| Monitoring Point 32  |                   |                                   |                                       |                     |                |                      |
|--|-------------------|-----------------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Subsurface gas monitoring, Monitoring point labelled LFG MW12 on Figure 14 titled "Proposed Landfill Gas Monitoring Locations" dated 6 |                   |                                   |                                       |                     |                |                      |
| Pollutant  | Unit of Measure   | No of samples required by licence | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
| Methane  | percent by volume | 12                                | 12                                    | 0                   | 0.008333333    | 0.1                  |

| Monitoring Point 33   |                             |                                   |                                       |                     |                |                      |
|---|-----------------------------|-----------------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Stormwater monitoring point, Downstream monitoring point labelled 4 on Figure 13 titled "Proposed Surface Water Monitoring Locations" |                             |                                   |                                       |                     |                |                      |
| Pollutant   | Unit of Measure             | No of samples required by licence | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
| Alkalinity (as calcium carbonate)   | milligrams per litre        | 1                                 | 64                                    | 30                  | 124.75         | 232                  |
| Ammonia   | milligrams per litre        | 1                                 | 64                                    | 0.01                | 7.74           | 174                  |
| Calcium   | milligrams per litre        | 1                                 | 64                                    | 0.02                | 32.21          | 52                   |
| Chloride  | milligrams per litre        | 1                                 | 64                                    | 30                  | 54.84          | 132                  |
| Conductivity  | microsiemens per centimeter | 1                                 | 64                                    | 41                  | 442.43         | 821                  |
| Dissolved Oxygen  | milligrams per litre        | 1                                 | 64                                    | 4.03                | 6.52           | 9.11                 |
| Filterable Iron   | milligrams per litre        | 1                                 | 64                                    | 0.05                | 0.46           | 2.12                 |
| Fluoride  | milligrams per litre        | 1                                 | 64                                    | 0.1                 | 0.18           | 0.81                 |
| Magnesium   | milligrams per litre        | 1                                 | 64                                    | 0.2                 | 14.18          | 24                   |
| Nitrate   | milligrams per litre        | 1                                 | 64                                    | 0.01                | 0.24           | 2.51                 |
| pH  | pH                          | 1                                 | 64                                    | 5                   | 6.98           | 7.9                  |
| Potassium   | milligrams per litre        | 1                                 | 64                                    | 2                   | 3.81           | 10                   |
| Sodium  | milligrams per litre        | 1                                 | 64                                    | 18                  | 37.1           | 78                   |
| Sulfate   | milligrams per litre        | 1                                 | 64                                    | 1                   | 26.63          | 164                  |
| Temperature   | milligrams per litre        | 1                                 | 64                                    | 13.2                | 19.62          | 34                   |
| Total Organic Carbon  | milligrams per litre        | 1                                 | 64                                    | 0.05                | 4.99           | 12                   |
| Total Phenolics   | milligrams per litre        | 1                                 | 64                                    | 0.05                | 0.05           | 0.05                 |
| Total suspended solids  | milligrams per litre        | 1                                 | 64                                    | 2                   | 15.21          | 489                  |

| Monitoring Point 34   |                             |                                   |                                       |                     |                |                      |
|---|-----------------------------|-----------------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Stormwater monitoring point, Upstream monitoring point labelled 6 on Figure 13 titled "Proposed Surface Water Monitoring Locations" |                             |                                   |                                       |                     |                |                      |
| Pollutant   | Unit of Measure             | No of samples required by licence | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
| Alkalinity (as calcium carbonate)   | milligrams per litre        | 1                                 | 64                                    | 30                  | 139.95         | 212                  |
| Ammonia   | milligrams per litre        | 1                                 | 64                                    | 0.01                | 0.08           | 1.34                 |
| Calcium   | milligrams per litre        | 1                                 | 64                                    | 12                  | 36.52          | 51                   |
| Chloride  | milligrams per litre        | 1                                 | 64                                    | 25                  | 48.52          | 60                   |
| Conductivity  | microsiemens per centimeter | 1                                 | 64                                    | 179                 | 478.98         | 772                  |
| Dissolved Oxygen  | milligrams per litre        | 1                                 | 64                                    | 3.99                | 6.41           | 9.07                 |
| Filterable Iron   | milligrams per litre        | 1                                 | 64                                    | 0.05                | 0.42           | 2                    |
| Fluoride  | milligrams per litre        | 1                                 | 64                                    | 0.1                 | 0.15           | 0.3                  |
| Magnesium   | milligrams per litre        | 1                                 | 64                                    | 5                   | 16.14          | 24                   |
| Nitrate   | milligrams per litre        | 1                                 | 64                                    | 0.01                | 0.18           | 2.2                  |
| pH  | pH                          | 1                                 | 64                                    | 5.9                 | 6.98           | 7.9                  |

|                        |                      |   |    |      |       |      |
|------------------------|----------------------|---|----|------|-------|------|
| Potassium              | milligrams per litre | 1 | 64 | 0.08 | 3.6   | 8    |
| Sodium                 | milligrams per litre | 1 | 64 | 17   | 34.56 | 46   |
| Sulfate                | milligrams per litre | 1 | 64 | 14   | 30.7  | 52   |
| Temperature            | milligrams per litre | 1 | 64 | 12.4 | 19.66 | 25.4 |
| Total Organic Carbon   | milligrams per litre | 1 | 64 | 1    | 5.26  | 23   |
| Total Phenolics        | milligrams per litre | 1 | 64 | 0.05 | 0.05  | 0.05 |
| Total suspended solids | milligrams per litre | 1 | 64 | 5    | 9.76  | 141  |

| <b>Monitoring Point 4</b>  |                   |                                   |                                       |                     |                |                      |
|--|-------------------|-----------------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Gas accumulation monitoring, Inside all buildings within 250 meters of deposited waste |                   |                                   |                                       |                     |                |                      |
| Pollutant  | Unit of Measure   | No of samples required by licence | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
| Methane  | percent by volume | 12                                | 12                                    | 0.00012             | 0.00           | 0.00039              |

| <b>Monitoring Point 5</b>  |                             |                                   |                                       |                     |                |                      |
|--|-----------------------------|-----------------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Groundwater quality monitoring , Monitoring point labelled GABH02 on Figure 15 titled "Current Site Investigation Locations" dated 6 March |                             |                                   |                                       |                     |                |                      |
| Pollutant  | Unit of Measure             | No of samples required by licence | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
| Alkalinity (as calcium carbonate)  | milligrams per litre        | 4                                 | 4                                     | 1170                | 1190           | 1210                 |
| Aluminium  | milligrams per litre        | 1                                 | 1                                     | 2.01                | 2.01           | 2.01                 |
| Arsenic  | milligrams per litre        | 1                                 | 1                                     | 0.001               | 0.001          | 0.001                |
| Barium   | milligrams per litre        | 1                                 | 1                                     | 0.06                | 0.06           | 0.06                 |
| Benzene  | milligrams per litre        | 1                                 | 1                                     | 1                   | 1              | 1                    |
| Cadmium  | milligrams per litre        | 1                                 | 1                                     | 0.0001              | 0.0001         | 0.0001               |
| Calcium  | milligrams per litre        | 4                                 | 4                                     | 260                 | 290.33         | 320                  |
| Chloride   | milligrams per litre        | 4                                 | 4                                     | 996                 | 1065.33        | 1160                 |
| Chromium (hexavalent)  | milligrams per litre        | 1                                 | 1                                     | 0.01                | 0.01           | 0.01                 |
| Chromium (total)   | milligrams per litre        | 1                                 | 1                                     | 0.004               | 0.004          | 0.004                |
| Cobalt   | milligrams per litre        | 1                                 | 1                                     | 0.002               | 0.002          | 0.002                |
| Conductivity   | microsiemens per centimeter | 4                                 | 4                                     | 4970                | 5153.33        | 5400                 |
| Copper   | milligrams per litre        | 1                                 | 1                                     | 0.006               | 0.006          | 0.006                |
| Ethyl benzene  | micrograms per litre        | 1                                 | 1                                     | 2                   | 2              | 2                    |
| Fluoride   | milligrams per litre        | 1                                 | 1                                     | 0.4                 | 0.4            | 0.4                  |
| Lead   | milligrams per litre        | 1                                 | 1                                     | 0.004               | 0.004          | 0.004                |
| Magnesium  | milligrams per litre        | 4                                 | 4                                     | 179                 | 194.6666667    | 208                  |
| Manganese  | micrograms per litre        | 1                                 | 1                                     | 0.752               | 0.752          | 0.752                |
| Mercury  | milligrams per litre        | 1                                 | 1                                     | 0.0001              | 0.0001         | 0.0001               |
| Nitrate  | milligrams per litre        | 1                                 | 1                                     | 0.01                | 0.01           | 0.01                 |
| Nitrite  | milligrams per litre        |                                   |                                       | 0.01                | 0.01           | 0.01                 |
| Nitrogen (ammonia)   | milligrams per litre        | 4                                 | 4                                     | 0.07                | 0.08           | 0.09                 |
| Organochlorine pesticides  | milligrams per litre        | 1                                 | 1                                     | 0.5                 | 0.5            | 0.5                  |
| Organophosphate pesticides   | milligrams per litre        | 1                                 | 1                                     | 0.5                 | 0.5            | 0.5                  |
| pH   | pH                          | 4                                 | 4                                     | 6.3                 | 6.7            | 7                    |
| Polycyclic aromatic hydrocarbons   | milligrams per litre        | 1                                 | 1                                     | 1                   | 1              | 1                    |
| Potassium  | milligrams per litre        | 4                                 | 4                                     | 3                   | 3.33           | 4                    |
| Sodium   | milligrams per litre        | 4                                 | 4                                     | 557                 | 616.33         | 678                  |
| Standing Water Level   | meters                      | 4                                 | 4                                     | 5.22                | 5.583          | 5.85                 |
| Sulfate  | milligrams per litre        | 4                                 | 4                                     | 157                 | 161.6666667    | 169                  |
| Toluene  | milligrams per litre        | 1                                 | 1                                     | 2                   | 2              | 2                    |
| Total dissolved solids   | milligrams per litre        | 4                                 | 4                                     | 2920                | 3103.33        | 3320                 |
| Total organic carbon   | milligrams per litre        | 4                                 | 4                                     | 7                   | 8.33           | 10                   |
| Total petroleum hydrocarbons   | milligrams per litre        | 1                                 | 1                                     | 50                  | 50             | 50                   |
| Total Phenolics  | milligrams per litre        | 1                                 | 1                                     | 0.05                | 0.05           | 0.05                 |
| Xylene   | milligrams per litre        | 1                                 | 1                                     | 2                   | 2              | 2                    |
| Zinc   | milligrams per kilogram     | 1                                 | 1                                     | 0.026               | 0.026          | 0.026                |

| <b>Monitoring Point 9</b> |  |  |  |  |  |  |
|---------------------------|--|--|--|--|--|--|
|---------------------------|--|--|--|--|--|--|

Groundwater quality monitoring, Monitoring point labelled GMW102 on Figure 15 titled "Current Site Investigation Locations" dated 6 March

| Pollutant                         | Unit of Measure             | No of samples required by licence | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------------------------------|-----------------------------|-----------------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Alkalinity (as calcium carbonate) | milligrams per litre        | 4                                 | 4                                     | 139                 | 139            | 139                  |
| Aluminium                         | milligrams per litre        | 1                                 | 1                                     | 1.83                | 1.83           | 1.83                 |
| Arsenic                           | milligrams per litre        | 1                                 | 1                                     | 0.001               | 0.001          | 0.001                |
| Barium                            | milligrams per litre        | 1                                 | 1                                     | 0.027               | 0.027          | 0.027                |
| Benzene                           | milligrams per litre        | 1                                 | 1                                     | 1                   | 1              | 1                    |
| Cadmium                           | milligrams per litre        | 1                                 | 1                                     | 0.0001              | 0.0001         | 0.0001               |
| Calcium                           | milligrams per litre        | 4                                 | 4                                     | 30                  | 30             | 30                   |
| Chloride                          | milligrams per litre        | 4                                 | 4                                     | 28                  | 28             | 28                   |
| Chromium (hexavalent)             | milligrams per litre        | 1                                 | 1                                     | 0.01                | 0.01           | 0.01                 |
| Chromium (total)                  | milligrams per litre        | 1                                 | 1                                     | 0.001               | 0.001          | 0.001                |
| Cobalt                            | milligrams per litre        | 1                                 | 1                                     | 0.001               | 0.001          | 0.001                |
| Conductivity                      | microsiemens per centimeter | 4                                 | 4                                     | 376                 | 376            | 376                  |
| Copper                            | milligrams per litre        | 1                                 | 1                                     | 0.007               | 0.007          | 0.007                |
| Ethyl benzene                     | micrograms per litre        | 1                                 | 1                                     | 2                   | 2              | 2                    |
| Fluoride                          | milligrams per litre        | 1                                 | 1                                     | 0.4                 | 0.4            | 0.4                  |
| Lead                              | milligrams per litre        | 1                                 | 1                                     | 0.002               | 0.002          | 0.002                |
| Magnesium                         | milligrams per litre        | 4                                 | 4                                     | 11                  | 11             | 11                   |
| Manganese                         | micrograms per litre        | 1                                 | 1                                     | 0.042               | 0.042          | 0.042                |
| Mercury                           | milligrams per litre        | 1                                 | 1                                     | 0.0001              | 0.0001         | 0.0001               |
| Nitrate                           | milligrams per litre        | 1                                 | 1                                     | 1.48                | 1.48           | 1.48                 |
| Nitrite                           | milligrams per litre        | 1                                 | 1                                     | 0.01                | 0.01           | 0.01                 |
| Nitrogen (ammonia)                | milligrams per litre        | 4                                 | 4                                     | 0.06                | 0.06           | 0.06                 |
| Organochlorine pesticides         | milligrams per litre        | 1                                 | 1                                     | 0.5                 | 0.5            | 0.5                  |
| Organophosphate pesticides        | milligrams per litre        | 1                                 | 1                                     | 0.5                 | 0.5            | 0.5                  |
| pH                                | pH                          | 4                                 | 4                                     | 7.3                 | 7.3            | 7.3                  |
| Polycyclic aromatic hydrocarbons  | milligrams per litre        | 1                                 | 1                                     | 1                   | 1              | 1                    |
| Potassium                         | milligrams per litre        | 4                                 | 4                                     | 1                   | 1              | 1                    |
| Sodium                            | milligrams per litre        | 4                                 | 4                                     | 35                  | 35             | 35                   |
| Standing Water Level              | meters                      | 4                                 | 4                                     | 4.02                | 4.02           | 4.02                 |
| Sulfate                           | milligrams per litre        | 4                                 | 4                                     | 9                   | 9              | 9                    |
| Toluene                           | milligrams per litre        | 1                                 | 1                                     | 2                   | 2              | 2                    |
| Total dissolved solids            | milligrams per litre        | 4                                 | 4                                     | 226                 | 226            | 226                  |
| Total organic carbon              | milligrams per litre        | 4                                 | 4                                     | 1                   | 1              | 1                    |
| Total petroleum hydrocarbons      | milligrams per litre        | 1                                 | 1                                     | 50                  | 50             | 50                   |
| Total Phenolics                   | milligrams per litre        | 1                                 | 1                                     | 0.05                | 0.05           | 0.05                 |
| Xylene                            | milligrams per litre        | 1                                 | 1                                     | 2                   | 2              | 2                    |
| Zinc                              | milligrams per kilogram     | 1                                 | 1                                     | 0.016               | 0.016          | 0.016                |