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Facility Information Summary	
AER Reporting Year	2014
Licence Register Number	W0002-01
Name of site	Ballyguyroe Landfill
Site Location	Ballyguyroe North, Kildorrey Mallow Co. Cork
NACE Code	
Class/Classes of Activity	
National Grid Reference (6E, 6 N)	
A description of the activities/processes at the site for the reporting year. This should include information such as production increases or decreases on site, any infrastructural changes, environmental performance which was measured during the reporting year and an overview of compliance with your licence listing all exceedances of licence limits (where applicable) and what they relate to e.g. air, water, noise.	<p>The landfill facility at Ballyguyroe North has been in operation since 1990, accepting waste at an annual rate of approx 20,000 tonnes . The site reached full capacity and closed for the acceptance of waste on Thursday 27th September 2001. Cork County Council held a waste licence (Register No. 2-1) to operate Ballyguyroe landfill site until March 15th 2004, when it obtained a new licence (register No 2-2/W 002-02). In accordance with the requirements of Condition 11.3 of the waste licence, an AER for the facility is submitted to the agency annually in March. Ballyguyroe landfill site occupies approx 15 hectares and is located 6km north-west of the village of Kildorrey. The site lies in the Blackwater catchment with the Farahy River flowing southwards within the valley outside the eastern boundary. Surface water from the site drains in to this river. The AER for Ballyguyroe Landfill comprises of Ground water sampling carried out on a quarterly and annual basis- Surface water sampling carried out on a monthly/ quarterly and annual basis, while leachate sampling is carried out annually. Weekly leachate dipping and monthly gas monitoring are also carried out. Weather conditions are also noted on a weekly basis. The majority of sampling for ground water were compliant, with the exception of high ammonia in 96 4d during 2014. Surface water sampling were compliant with licence conditions during 2014. Additional, to licence conditions , historical monitoring of ground water schemes and private domestic wells were carried out. All private well owners received results along . The ground water quality in this area is indicative of</p>

Declaration:

All the data and information presented in this report has been checked and certified as being accurate. The quality of the information is assured to meet licence requirements.

Signature	Date
Group/Facility manager	
(or nominated, suitably qualified and experienced deputy)	

AIR-summary template Lic No: W0002-01 Year 2014

Answer all questions and complete all tables where relevant

1 Does your site have licensed air emissions? If yes please complete table A1 and A2 below for the current reporting year and answer further questions. If **you do not have** licenced emissions and **do not complete a solvent management plan** (table A4 and A5) you do not need to complete the tables

Additional information	
SELECT	n/a

Periodic/Non-Continuous Monitoring

2 Are there any results in breach of licence requirements? If yes please provide brief details in the comment section of TableA1 below

SELECT	
--------	--

3 Was all monitoring carried out in accordance with EPA guidance note AG2 and using the basic air monitoring checklist? [Basic air monitoring checklist](#) [AGN2](#)

SELECT	
--------	--

Table A1: Licensed Mass Emissions/Ambient data-periodic monitoring (non-continuous)

Emission reference no:	Parameter/ Substance	Frequency of Monitoring	ELV in licence or any revision thereof	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence limit	Method of analysis	Annual mass load (kg)	Comments - reason for change in % mass load from previous year if applicable
	SELECT			SELECT		SELECT	SELECT	SELECT		
	SELECT			SELECT		SELECT	SELECT	SELECT		
	SELECT			SELECT		SELECT	SELECT	SELECT		
	SELECT			SELECT		SELECT	SELECT	SELECT		

Note 1: Volumetric flow shall be included as a reportable parameter

AIR-summary template	Lic No:	W0002-01	Year	2014
Continuous Monitoring				

4 Does your site carry out continuous air emissions monitoring?
 If yes please review your continuous monitoring data and report the required fields below in Table 3 and compare it to its relevant Emission Limit Value (ELV)

5 Did continuous monitoring equipment experience downtime? If yes please record downtime in table 3 below

6 Do you have a proactive service agreement for each piece of continuous monitoring equipment?

7 Did your site experience any abatement system bypasses? If yes please detail them in table 4 below

Table A2: Summary of average emissions -continuous monitoring

Emission reference no:	Parameter/ Substance	ELV in licence or any revision thereof	Averaging Period	Compliance Criteria	Units of measurement	Annual Emission	Annual maximum	Monitoring Equipment downtime (hours)	Number of ELV exceedences in current reporting year	Comments
	SELECT			SELECT	SELECT					
	SELECT				SELECT					
	SELECT				SELECT					
	SELECT				SELECT					
	SELECT				SELECT					

note 1: Volumetric flow shall be included as a reportable parameter.

Table A3: Abatement system bypass reporting table [Bypass protocol](#)

Date*	Duration** (hours)	Location	Reason for bypass	Impact magnitude	Corrective action

* this should include all dates that an abatement system bypass occurred

** an accurate record of time bypass beginning and end should be logged on site and maintained for future Agency inspections please refer to bypass protocol link

Additional information	
1	Does your site have licensed emissions direct to surface water or direct to sewer? If yes please complete table W2 and W3 below for the current reporting year and answer further questions. If you do not have licensed emissions you only need to complete table W1 and W2 for surface water analysis and visual inspections
no	
2	Was it a requirement of your licence to carry out visual inspections on any surface water discharges or watercourses on or near your site? If yes please complete table W2 below summarising only any evidence of contamination noted during visual inspections
no	

Table W1 Surface water monitoring

Location reference	Location relative to site activities	PRTR Parameter	Licensed Parameter	Monitoring date	ELV or trigger level in licence or any revision thereof*	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence	Comments
SS2	downstream		pH	Quarterly	No ELV or trigger levels	N/A	7.2	pH units	yes	Median Value for 2014
SS2	downstream		Temperature	Quarterly	No ELV or trigger levels	N/A	9.5	degrees C	yes	Median Value for 2014
SS2	downstream		Conductivity	Quarterly	No ELV or trigger levels	N/A	91	µS/cm@25oC	yes	Median Value for 2014
SS2	downstream		Dissolved Oxygen	Quarterly	No ELV or trigger levels	N/A	10.8	mg/L	yes	Median Value for 2014
SS2	downstream	Chlorides (as Cl)		Quarterly	No ELV or trigger levels	N/A	16	mg/L	yes	Median Value for 2014
SS2	downstream		BOD	Quarterly	No ELV or trigger levels	N/A	3.5	mg/L	yes	Median Value for 2014
SS2	downstream		COD	Quarterly	No ELV or trigger levels	N/A	33	mg/L	yes	Median Value for 2014
SS2	downstream		Ammonia (as N)	Quarterly	No ELV or trigger levels	N/A	0.07	mg/L	yes	Median Value for 2014
SS2	downstream		Suspended Solids	Quarterly	No ELV or trigger levels	N/A	<35	mg/L	yes	Median Value for 2014
SS2	downstream		Boron	Annual	N		<0.01	mg/L	Y	Annual results 2014
SS2	downstream	Chromium and compounds (as Cr)		Annual	No ELV or trigger levels	N/A	<20	µg/L	yes	Annual result
SS2	downstream	Copper and compounds (as Cu)		Annual	No ELV or trigger levels	N/A	<20	µg/L	yes	Annual result
SS2	downstream	Cadmium and compounds (as Cd)		Annual	No ELV or trigger levels	N/A	<20	µg/L	yes	Annual result
SS2	downstream		Iron	Annual	No ELV or trigger levels	N/A	769	µg/L	yes	Annual result
SS2	downstream	Lead and compounds (as Pb)		Annual	No ELV or trigger levels	N/A	<20	µg/L	yes	Annual result
SS2	downstream		Magnesium	Annual	No ELV or trigger levels	N/A	2.05	mg/L	yes	Annual result
SS2	downstream		Manganese (as Mn)	Annual	No ELV or trigger levels	N/A	22	µg/L	yes	Annual result
SS2	downstream	Mercury and compounds (as Hg)		Annual	No ELV or trigger levels	N/A	<1	µg/L	yes	Annual result
SS2	downstream	Nickel and compounds (as Ni)		Annual			<20	µg/L	yes	Annual result
SS2	downstream		Potassium	Annual	No ELV or trigger levels	N/A	1.01	mg/L	yes	Annual result
SS2	downstream		Sulphate	Annual	No ELV or trigger levels	N/A	<2.5	mg/L	yes	Annual result
SS2	downstream		Total Oxidised Nitrogen (TON)	Annual	No ELV or trigger levels	N/A	11.96	mg/L	yes	Annual result
SS2	downstream	Zinc and compounds (as Zn)		Annual	No ELV or trigger levels	N/A	<20	µg/L	yes	Annual result
SS2	downstream	Total phosphorus		Annual	No ELV or trigger levels	N/A	0.02	mg/L	yes	Annual result
SS5@V2	onsite		pH	Quarterly	No ELV or trigger levels	N/A	7.6	pH units	yes	Median Value for 2014
SS5@V2	onsite		Temperature	Quarterly	No ELV or trigger levels	N/A	6.75	degrees C	yes	Median Value for 2014
SS5@V2	onsite		Conductivity	Quarterly	No ELV or trigger levels	N/A	127	µS/cm@25oC	yes	Median Value for 2014
SS5@V2	onsite		Dissolved Oxygen	Quarterly	No ELV or trigger levels	N/A	11.02	mg/L	yes	Median Value for 2014
SS5@V2	onsite	Chlorides (as Cl)		Quarterly	No ELV or trigger levels	N/A	19.81	mg/L	yes	Median Value for 2014
SS5@V2	onsite		BOD	Quarterly	No ELV or trigger levels	N/A	3	mg/L	yes	Median Value for 2014
SS5@V2	onsite		COD	Quarterly	No ELV or trigger levels	N/A	26	mg/L	yes	Median Value for 2014
SS5@V2	onsite		Ammonia (as N)	Quarterly	No ELV or trigger levels	N/A	0.025	mg/L	yes	Median Value for 2014
SS5@V2	onsite		Suspended Solids	Quarterly	No ELV or trigger levels	N/A	<35	mg/L	yes	Median Value for 2014
SS5@V2	onsite		Boron	Annual	No ELV or trigger levels	N/A	<0.01	mg/L	YES	Annual results for 2014
SS5@V2	onsite	Chromium and compounds (as Cr)		Annual	No ELV or trigger levels	N/A	<20	µg/L	yes	Annual result for 2014
SS5@V2	onsite	Copper and compounds (as Cu)		Annual	No ELV or trigger levels	N/A	<20	µg/L	yes	Annual result for 2014

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SS5@V2	onsite	Cadmium and compounds (as Cd)	Annual	No ELV or trigger levels	N/A	<20	µg/L	yes	Annual result for 2014
SS5@V2	onsite	Iron	Annual	No ELV or trigger levels	N/A	325	µg/L	yes	Annual result for 2014
SS5@V2	onsite	Lead and compounds (as Pb)	Annual	No ELV or trigger levels	N/A	<20	µg/L	yes	Annual result for 2014
SS5@V2	onsite	Magnesium	Annual	No ELV or trigger levels	N/A	3.24	mg/L	yes	Annual result for 2014
SS5@V2	onsite	Manganese (as Mn)	Annual	No ELV or trigger levels	N/A	<20	µg/L	yes	Annual result for 2014
SS5@V2	onsite	Mercury and compounds (as Hg)	Annual	No ELV or trigger levels	N/A	<1	µg/L	yes	Annual result for 2014
SS5@V2	onsite	Nickel and compounds (as Ni)	Annual	No ELV or trigger levels	N/A	<20	µg/L	yes	Annual result for 2014
SS5@V2	onsite	Potassium	Annual	No ELV or trigger levels	N/A	2.04	mg/L	yes	Annual result for 2014
SS5@V2	onsite	Sulphate	Annual	No ELV or trigger levels	N/A	9.3	mg/L	yes	Annual result for 2014
SS5@V2	onsite	Total Oxidised Nitrogen (TON)	Annual	No ELV or trigger levels	N/A	1.1	mg/L	yes	Annual result for 2014
SS5@V2	onsite	Zinc and compounds (as Zn)	Annual	No ELV or trigger levels	N/A	<20	µg/L	yes	Annual result for 2014
SS5@V2	onsite	Total phosphorus	Annual	No ELV or trigger levels	N/A	0.03	mg/L	yes	Annual result for 2014
SS5	downstream	PH	Quarterly	No ELV or trigger levels	N/A	7.6	pH units	yes	Annual result for 2014
SS5	downstream	Temperature	Quarterly	No ELV or trigger levels	N/A	6.75	degrees C	yes	Median Value for 2014
SS5	downstream	Conductivity	Quarterly	No ELV or trigger levels	N/A	127	µS/cm@25oC	yes	Median Value for 2014
SS5	downstream	Dissolved Oxygen	Quarterly	No ELV or trigger levels	N/A	11.02	mg/L	yes	Median Value for 2014
SS5	downstream	Chlorides (as Cl)	Quarterly	No ELV or trigger levels	N/A	19.81	mg/L	yes	Median Value for 2014
SS5	downstream	BOD	Quarterly	No ELV or trigger levels	N/A	3	mg/L	yes	Median Value for 2014
SS5	downstream	COD	Quarterly	No ELV or trigger levels	N/A	26	mg/L	yes	Median Value for 2014
SS5	downstream	Ammonia (as N)	Quarterly	No ELV or trigger levels	N/A	0.025	mg/L	yes	Median Value for 2014
SS5	downstream	Suspended Solids	Quarterly	No ELV or trigger levels	N/A	<35	mg/L	yes	Median Value for 2014
SS5	downstream	Boron	Annual	No ELV or trigger levels	N/A	<5.51	mg/L	yes	Annual result for 2014
SS5	downstream	Chromium and compounds (as Cr)	Annual	No ELV or trigger levels	N/A	0.708	µg/L	yes	Annual result for 2014
SS5	downstream	Copper and compounds (as Cu)	Annual	No ELV or trigger levels	N/A	0.904	mg/L	yes	Annual result for 2014
SS5	downstream	Cadmium and compounds (as Cd)	Annual	No ELV or trigger levels	N/A	>0.1	µg/L	yes	Annual result for 2014
SS5	downstream	Iron	Annual	No ELV or trigger levels	N/A	169.3	µg/L	yes	Annual result for 2014
SS5	downstream	Lead and compounds (as Pb)	Annual	No ELV or trigger levels	N/A	0.067	µg/L	yes	Annual result for 2014
SS5	downstream	Magnesium	Annual	No ELV or trigger levels	N/A	2.46	mg/L	yes	Annual result for 2014
SS5	downstream	Manganese (as Mn)	Annual	No ELV or trigger levels	N/A	<0.93	µg/L	yes	Annual result for 2014
SS5	downstream	Mercury and compounds (as Hg)	Annual	No ELV or trigger levels	N/A	<0.03	µg/L	yes	Annual result for 2014
SS5	downstream	Potassium	Annual	No ELV or trigger levels	N/A	0.693	mg/L	yes	Annual result for 2014
SS5	downstream	Sulphate	Annual	No ELV or trigger levels	N/A	1246	mg/L	yes	Annual result for 2014
SS5	downstream	Total Oxidised Nitrogen (TON)	Annual	No ELV or trigger levels	N/A	<0.07	mg/L	yes	Annual result for 2014
SS5	downstream	Zinc and compounds (as Zn)	Annual	No ELV or trigger levels	N/A	2.241	µg/L	yes	Annual result for 2014
SS5	downstream	Total phosphorus	Annual	No ELV or trigger levels	N/A	0.034	mg/L	yes	Annual result for 2014
RS1	downstream	PH	Quarterly	No ELV or trigger levels	N/A	7.5	pH units	yes	Median value for 2014
RS1	downstream	Temperature	Quarterly	No ELV or trigger levels	N/A	9.3	degrees C	yes	Median value for 2014
RS1	downstream	Conductivity	Quarterly	No ELV or trigger levels	N/A	123	µS/cm@25oC	yes	Median value for 2014
RS1	downstream	Dissolved Oxygen	Quarterly	No ELV or trigger levels	N/A	12	mg/L	yes	Median value for 2014
RS1	downstream	Chlorides (as Cl)	Quarterly	No ELV or trigger levels	N/A	19.78	mg/L	yes	Median value for 2014. Tidal influence
RS1	downstream	BOD	Quarterly	No ELV or trigger levels	N/A	1	mg/L	yes	Median value for 2014
RS1	downstream	COD	Quarterly	No ELV or trigger levels	N/A	7	mg/L	yes	Median value for 2014
RS1	downstream	Ammonia (as N)	Quarterly	No ELV or trigger levels	N/A	0.12	mg/L	yes	Median value for 2014
RS1	downstream	Suspended Solids	Quarterly	No ELV or trigger levels	N/A	<35	mg/L	yes	Median value for 2014
RS1	downstream	boron	Annual	No ELV or trigger levels	N/A	<0.01	mg/L	y	annual result
RS1	downstream	Chromium and compounds (as Cr)	Annual	No ELV or trigger levels	N/A	<20	µg/L	yes	Median value for 2014
RS1	downstream	Copper and compounds (as Cu)	Annual	No ELV or trigger levels	N/A	<20	mg/L	yes	Annual result for 2014
RS1	downstream	Cadmium and compounds (as Cd)	Annual	No ELV or trigger levels	N/A	<20	µg/L	yes	Annual result for 2014
RS1	downstream	Iron	Annual	No ELV or trigger levels	N/A	241	µg/L	yes	Annual result for 2014

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RS1	downstream	Lead and compounds (as Pb)	Annual	No ELV or trigger levels	N/A	<20	µg/L	yes	Annual result for 2014
RS1	downstream	Magnesium	Annual	No ELV or trigger levels	N/A	3.32	mg/L	yes	Annual result for 2014 EGS limit is
RS1	downstream	Manganese (as Mn)	Annual	No ELV or trigger levels	N/A	33	µg/L	yes	Annual result for 2014.
RS1	downstream	Mercury and compounds (as Hg)	Annual	No ELV or trigger levels	N/A	<1	µg/L	yes	Annual result for 2014.
RS1	downstream	Nickel and compounds (as Ni)	Annual	No ELV or trigger levels	N/A	<20	µg/L	yes	Annual result for 2014.
RS1	downstream	Potassium	Annual	No ELV or trigger levels	N/A	<0.5	mg/L	yes	Annual result for 2014
RS1	downstream	Sulphate	Annual	No ELV or trigger levels	N/A	<2.5	mg/L	yes	Annual result for 2014
RS1	downstream	Total Oxidised Nitrogen (TON)	Annual	No ELV or trigger levels	N/A	0.52	mg/L	yes	Annual result for 2014
RS1	downstream	Zinc and compounds (as Zn)	Annual	No ELV or trigger levels	N/A	<20	µg/L	yes	Annual result for 2014
RS1	downstream	Total phosphorus	Annual	No ELV or trigger levels	N/A	0.02	mg/L	yes	Annual result for 2014
RS2	upstream	pH	Quarterly	No ELV or trigger levels	N/A	7.5	pH units	yes	Median vaule for 2014
RS2	upstream	Temperature	Quarterly	No ELV or trigger levels	N/A	9.7	degrees C	yes	Median vaule for 2014
RS2	upstream	Conductivity	Quarterly	No ELV or trigger levels	N/A	104	µS/cm@25oC	yes	Median vaule for 2014
RS2	upstream	Chlorides (as Cl)	Quarterly	No ELV or trigger levels	N/A	11.8	mg/L	yes	Median vaule for 2014
RS2	upstream	BOD	Quarterly	No ELV or trigger levels	N/A	2	mg/L	yes	Median vaule for 2014
RS2	upstream	COD	Quarterly	No ELV or trigger levels	N/A	6	mg/L	yes	Median vaule for 2014
RS2	upstream	Ammonia (as N)	Quarterly	No ELV or trigger levels	N/A	0.06	mg/L	yes	Median vaule for 2014.
RS2	upstream	Suspended Solids	Quarterly	No ELV or trigger levels	N/A	<35	mg/L	yes	Median vaule for 2014
RS2	upstream	Boron	Annual		n/a		mg/l	yes	Annual results
RS2	upstream	Chromium and compounds (as Cr)	Annual	No ELV or trigger levels	N/A	<20	mg/L	yes	Annual result for 2014
RS2	upstream	Copper and compounds (as Cu)	Annual	No ELV or trigger levels	N/A	<20	µg/L	yes	Annual result for 2014
RS2	upstream	Cadmium and compounds (as Cd)	Annual	No ELV or trigger levels	N/A	<20	mg/L	yes	Annual result for 2014
RS2	upstream	Iron	Annual	No ELV or trigger levels	N/A	293	µg/L	yes	Annual result for 2014.
RS2	upstream	Lead and compounds (as Pb)	Annual	No ELV or trigger levels	N/A	<20	µg/L	yes	Annual result for 2014
RS2	upstream	Magnesium	Annual	No ELV or trigger levels	N/A	3.33	mg/L	yes	Annual result for 2014.
RS2	upstream	Manganese (as Mn)	Annual	No ELV or trigger levels	N/A	32	µg/L	yes	Annual result for 2014
RS2	upstream	Mercury and compounds (as Hg)	Annual	No ELV or trigger levels	N/A	<1	µg/L	yes	Annual result for 2014
RS2	upstream	Nickel and compounds (as Ni)	Annual	No ELV or trigger levels	N/A	<20	µg/L	yes	Annual result for 2014
RS2	upstream	Potassium	Annual	No ELV or trigger levels	N/A	0.5	µg/L	yes	Annual result for 2014
RS2	upstream	Sulphate	Annual	No ELV or trigger levels	N/A	<2.5	mg/L	yes	Annual result for 2014
RS2	upstream	Total Oxidised Nitrogen (TON)	Annual	No ELV or trigger levels	N/A	0.51	mg/L	yes	Annual result for 2014
RS2	upstream	Zinc and compounds (as Zn)	Annual	No ELV or trigger levels	N/A	<20	µg/L	yes	Annual result for 2014
RS2	upstream	Total phosphorus	Annual	No ELV or trigger levels	N/A	0.03	mg/L	yes	Annual result for 2014

Licensed Emissions to water and /or wastewater(sewer)-periodic monitoring (non-continuous)

3 Was there any result in breach of licence requirements? If yes please provide brief details in the comment section of Table W3 below

SELECT	Additional information
SELECT	

4 Was all monitoring carried out in accordance with EPA guidance and checklists for Quality of Aqueous Monitoring Data Reported to the EPA? If no please detail what areas require improvement in additional information box [External/Internal Lab](#) [Assessment of results](#) [Quality checklist](#)

ster and /or wastewater (sewer)-periodic monitoring (non-continuous)

Emission reference no:	Emission released to	Parameter/ Substance>Note 1	Type of sample	Frequency of monitoring	Averaging period	ELV or trigger values in licence or any revision thereof ^{note 2}	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence	Method of analysis	Procedural reference source	Procedural reference standard number	Annual mass load (kg)	Comments
	SELECT	SELECT	SELECT		SELECT		SELECT		SELECT	SELECT	SELECT	SELECT			

tritic flow shall be included as a reportable parameter

Note 2: Where Emission Limit Values (ELV) do not apply to your licence please compare results against EGS for Surface water or relevant receptor quality standards

Continuous monitoring

5 Does your site carry out continuous emissions to water/sewer monitoring? Additional information

If yes please summarise your continuous monitoring data below in Table W4 and compare it to its relevant Emission Limit Value (ELV)

6 Did continuous monitoring equipment experience downtime? If yes please record downtime in table W4 below

7 Do you have a proactive service contract for each piece of continuous monitoring equipment on site?

8 Did abatement system bypass occur during the reporting year? If yes please complete table W5 below

many of average emissions -continuous monitoring

Emission reference no:	Emission released to	Parameter/ Substance	ELV or trigger values in licence or any revision thereof	Averaging Period	Compliance Criteria	Units of measurement	Annual Emission for current reporting year (kg)	% change +/- from previous reporting year	Monitoring Equipment downtime (hours)	Number of ELV exceedences in reporting year	Comments
	<input type="text" value="SELECT"/>	<input type="text" value="SELECT"/>		<input type="text" value="SELECT"/>	<input type="text" value="SELECT"/>	<input type="text" value="SELECT"/>					
	<input type="text" value="SELECT"/>	<input type="text" value="SELECT"/>		<input type="text" value="SELECT"/>	<input type="text" value="SELECT"/>	<input type="text" value="SELECT"/>					

ric flow shall be included as a reportable parameter.

5: Abatement system bypass reporting table

Date	Duration (hours)	Location	Resultant emissions	Reason for bypass	Corrective action*	Was a report submitted to the EPA?	When was this report submitted?
						<input type="text" value="SELECT"/>	

in or proposed to reduce or limit bypass frequency

Bund testing

dropdown menu click to see options

Additional information

Are you required by your licence to undertake integrity testing on bunds and containment structures? If yes please fill out table B1 below listing all **new bunds and containment structures on site, in addition to all bunds which failed the integrity test-all bunding structures which failed including mobile bunds must be listed in the table below**

- 1 Please provide integrity testing frequency period
- 2 Does the site maintain a register of bunds, underground pipelines (including stormwater and foul), Tanks, sumps and containers? (containers refers to "Chemstore")
- 3 type units and mobile bunds)
- 4 How many bunds are on site?
- 5 How many of these bunds have been tested within the required test schedule?
- 6 How many mobile bunds are on site?
- 7 Are the mobile bunds included in the bund test schedule?
- 8 How many of these mobile bunds have been tested within the required test schedule?
- 9 How many sumps on site are included in the integrity test schedule?
- 10 How many of these sumps are integrity tested within the test schedule?

SELECT	n/a
SELECT	
SELECT	
SELECT	
SELECT	
SELECT	
SELECT	
SELECT	
SELECT	
SELECT	

- Please list any sump integrity failures in table B1**
- 11 Do all sumps and chambers have high level liquid alarms?
 - 12 If yes to Q11 are these failsafe systems included in a maintenance and testing programme?

Table B1: Summary details of bund /containment structure integrity test

Bund/Containment structure ID	Type	Specify Other type	Product containment	Actual capacity	Capacity required*	Type of integrity test	Other test type	Test date	Integrity reports maintained on site?	Results of test	Integrity test failure explanation <50 words	Corrective action taken	Scheduled date for retest	Results of retest(if in current reporting year)
	SELECT					SELECT			SELECT	SELECT		SELECT		
	SELECT					SELECT			SELECT	SELECT		SELECT		

* Capacity required should comply with 25% or 110% containment rule as detailed in your licence

Has integrity testing been carried out in accordance with licence requirements and are all structures tested in line with BS8007/EPA Guidance?

- 14 Are channels/transfer systems to remote containment systems tested?
- 15 Are channels/transfer systems compliant in both integrity and available volume?

Commentary

SELECT	
SELECT	
SELECT	

Pipeline/underground structure testing

Are you required by your licence to undertake integrity testing on underground structures e.g. pipelines or sumps etc? If yes please fill out table 2 below listing all

- 1 underground structures and pipelines on site **which failed the integrity test**
- 2 Please provide integrity testing frequency period

SELECT	
SELECT	

Table B2: Summary details of pipeline/underground structures integrity test

Structure ID	Type system	Material of construction:	Does this structure have Secondary containment?	Type of secondary containment	Type integrity testing	Integrity reports maintained on site?	Results of test	Integrity test failure explanation <50 words	Corrective action taken	Scheduled date for retest	Results of retest(if in current reporting year)
	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT				SELECT

Please use commentary for additional details not answered by tables/ questions above

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	Comments
1 Are you required to carry out groundwater monitoring as part of your licence requirements?	no
2 Are you required to carry out soil monitoring as part of your licence requirements?	no
3 Do you extract groundwater for use on site? If yes please specify use in comment section	no
4 Is there contaminated land and /or groundwater on site? If yes please answer q's 5-12	no
5 Is the contamination related to operations at the facility (either current and/or historic)	SELECT
6 Have actions been taken to address contamination issues? If yes please summarise remediation strategies proposed/undertaken for the site	SELECT
7 Please specify the proposed time frame for the remediation strategy	SELECT
8 Is there a licence condition to carry out/update ELRA for the site?	SELECT
9 Has any type of risk assesment been carried out for the site?	SELECT
10 Has a Conceptual Site Model been developed for the site?	SELECT
11 Have potential receptors been identified on and off site?	SELECT
12 Is there evidence that contamination is migrating offsite?	SELECT

Table 1: Upgradient Groundwater monitoring results

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration++	Average Concentration+	unit	GTV's*	SW EQS	% change in average concentration previous year +/-	Upward trend in pollutant concentration over last 5 years of monitoring data
Quarterly	981s	pH	Meter	Quarterly	7.1	6.9	SELECT		9.5	0	no
Quarterly		Temp	Meter	Quarterly	11.9	10.5			25	0	no
Quarterly		Elec. Conductivity	Meter	Quarterly	6.43	554			1000	0	no
		Chlorides	titration	Quarterly	29.3	19	mg/l		250	1820%	no
Quarterly		Ammoniacal Nitrogen	ISE	Quarterly	0.9	0.3	mg/l		80mg/l* (Trigger limit)		no
annual		Iron		Quarterly	73		ug/l		0.2	8.3%7	no
annual		TON		Quarterly	0.83		ug/l		No abnormal change		0
Quarterly		TOC	HACH	Quarterly	6.1	5.2	mg/l		30mg/l (Tigger limit)		18%
Annual		Cadmium		Annual	<20	<20	ug/l		0.005		0
Annual		Chromium (total)		Annual	<20	<20	ug/l		0.03		0
Annual		Copper		Annual	<20	<20	ug/l		0.03		0
Annual		Cyanide (Total)		Annual	35	35	ug/l		0.01		0
Annual		Lead		Annual	<20	<20	ug/l		0.01		0
Annual		Magnesium		Annual	8.41	8.41	mg/l		50		0
Annual		Manganese		Annual	163	163	ug/l		0.05		0
Annual		Mercury		Annual	<1	<1	ug/l		0.001		0
Annual		Nickle		Annual	<20	<20	ug/l		0.02		0
Annual		Potassium		Annual	0.53	0.53	mg/l		5		0
Annual		Sulphate		Annual	<2.5	<2.5	mg/l		200		0
Annual		Total Alkalinity		Annual	77.38	77.38	mg/l				0
Annual		Total Phosphorus		Annual	0.09	0.09	mg/l				0
Annual		Phenols		Annual	<10	<10	ug/l		0.5		0
Annual		Acenaphthylene		Annual	<10	<10	ug/l				0

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Annual	Anthracene	Annual	<10	<10 ug/l			0 no
Annual	Benzene	Annual	<10	<10 ug/l		1	0 no
Annual	Bromodichloromethane	Annual	<10	<10 ug/l			0 no
Annual	Bromoform	Annual	<10	<10 ug/l			0 no
Annual	Chloroform	Annual	<10	<10 ug/l		12	0 no
Annual	Chrysene	Annual	<10	<10 ug/l			0 no
Annual	Dibromochloromethane	Annual	<10	<10 ug/l			0 no
Annual	Fluoranthene	Annual	<10	<10 ug/l			0 no
Annual	Fluorene	Annual	<10	<10 ug/l			0 no
Annual	Naphthalene	Annual	<10	<10 ug/l			0 no
Annual	Dibromochloromethane	Annual	<10	<10 ug/l			0 no
Annual	Pentachlorophenol	Annual	<10	<10 ug/l		2	0 no
Annual	Phenanthrene	Annual	<10	<10 ug/l			0 no
Annual	Pyrene	Annual	<10	<10 ug/l			0 no
Annual	Tetrachloroethene	Annual	<10	<10 ug/l			0 no
Annual	Trichloroethene	Annual	<10	<10 ug/l			0 no
Annual	Hexachlorobenzene	Annual	<10	<10 ug/l		0.03	0 no
Annual	Hexachlorobutadiene	Annual	<10	<10 ug/l		0.1	0 no
Annual	2,4,6-Trichlorophenol	Annual	<10	<10 ug/l			0 no
Annual	2,4-Dichlorophenol	Annual	<10	<10 ug/l			0 no
Annual	2,4-Dimethylphenol	Annual	<10	<10 ug/l			0 no
Annual	2-Chlorophenol	Annual	<10	<10 ug/l			0 no
Annual	1,2,4-trichlorobenzene	Annual	<10	<10 ug/l			0 no
Annual	1,2-dichlorobenzene	Annual	<10	<10 ug/l			0 no
Annual	1,3-dichlorobenzene	Annual	<10	<10 ug/l			0 no
Annual	1,4-dichlorobenzene	Annual	<10	<10 ug/l			0 no
Annual	2,4,5-Trichlorophenol	Annual	<10	<10 ug/l			0 no
Annual	2,4-Dinitrotoluene	Annual	<10	<10 ug/l			0 no
Annual	2,6-Dinitrotoluene	Annual	<10	<10 ug/l			0 no
Annual	2-Chloronaphthalene	Annual	<10	<10 ug/l			0 no
Annual	2-Methylnaphthalene	Annual	<10	<10 ug/l			0 no
Annual	2-Methylphenol	Annual	<10	<10 ug/l			0 no
Annual	2-Nitrophenol	Annual	<10	<10 ug/l			0 no
Annual	4-Bromophenyl Phenyl Ether	Annual	<10	<10 ug/l			0 no
Annual	4-Chloro-3-methylphenol	Annual	<10	<10 ug/l			0 no
Annual	4-Chlorophenyl phenyl ether	Annual	<10	<10 ug/l			0 no
Annual	4-Nitrophenol	Annual	<10	<10 ug/l			0 no
Annual	Acenaphthene	Annual	<10	<10 ug/l			0 no
Annual	Benzo(a)anthracene	Annual	<10	<10 ug/l			0 no
Annual	Benzo(a)pyrene	Annual	<10	<10 ug/l			0 no
Annual	Benzo(b)fluoranthene	Annual	<10	<10 ug/l			0 no
Annual	Benzo(g,h,i)perylene	Annual	<10	<10 ug/l			0 no
Annual	Benzyl Butyl Phthalate	Annual	<10	<10 ug/l			0 no
Annual	Bis(2-chloroethoxy)methane	Annual	<10	<10 ug/l			0 no
Annual	Bis(2-chloroethyl)ether	Annual	<10	<10 ug/l			0 no
Annual	Bis(2-chloroisopropyl)ether	Annual	<10	<10 ug/l			0 no
Annual	Bis(2-ethylhexyl)phthalate	Annual	<10	<10 ug/l			0 no
Annual	Dibenz(a,h)anthracene	Annual	<10	<10 ug/l			0 no
Annual	Dibenzofuran	Annual	<10	<10 ug/l			0 no

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Annual	Diethylphthalate	Annual	<10	<10 ug/l	0 no
Annual	di-n-Butylphthalate	Annual	<10	<10 ug/l	0 no
Annual	Di-n-octylphthalate	Annual	<10	<10 ug/l	0 no
Annual	Diphenylamine	Annual	<10	<10 ug/l	0 no
Annual	Hexachloroethane	Annual	<10	<10 ug/l	0 no
Annual	Indeno(1,2,3-c,d)pyrene	Annual	<10	<10 ug/l	0 no
Annual	Isophorone	Annual	<10	<10 ug/l	0 no
Annual	Nitrobenzene	Annual	<10	<10 ug/l	0 no
Annual	n-Nitrosodi-n-propylamine	Annual	<10	<10 ug/l	0 no
Annual	Acetone	Annual	<10	<10 ug/l	0 no
Annual	Dichloromethane	Annual	<10	<10 ug/l	0 no
Annual	Tetrahydrofuran	Annual	<10	<10 ug/l	0 no
Annual	Toluene	Annual	<10	<10 ug/l	10 0 no
Annual	Xylene -o	Annual	<10	<10 ug/l	10 0 no
Annual	Dichlorodifluoromethane	Annual	<10	<10 ug/l	0 no
Annual	Chloromethane	Annual	<10	<10 ug/l	0 no
Annual	Ethyl Chloride/Chloroethane	Annual	<10	<10 ug/l	0 no
Annual	Vinyl Chloride	Annual	<10	<10 ug/l	0 no
Annual	Bromomethane	Annual	<10	<10 ug/l	0 no
Annual	Trichloromonofluoromethane	Annual	<10	<10 ug/l	0 no
Annual	Ethyl Ether/Diethyl Ether	Annual	<10	<10 ug/l	0 no
Annual	1,1-Dichloroethene	Annual	<10	<10 ug/l	0 no
Annual	Iodomethane/Methyl Iodide	Annual	<10	<10 ug/l	0 no
Annual	Carbon Disulphide	Annual	<10	<10 ug/l	0 no
Annual	Allyl Chloride	Annual	<10	<10 ug/l	0 no
Annual	Chlormethyl Cyanide/Chloroacetonitrile	Annual	<10	<10 ug/l	0 no
Annual	Propanenitrile	Annual	<10	<10 ug/l	0 no
Annual	Trans-1,2 Dichloroethene	Annual	<10	<10 ug/l	0 no
Annual	MTBE	Annual	<10	<10 ug/l	0 no
Annual	1,1-dichloroethane	Annual	<10	<10 ug/l	30 0 no
Annual	2,2-dichloropropane	Annual	<10	<10 ug/l	0 no
Annual	cis-1,2 Dichloroethene	Annual	<10	<10 ug/l	0 no
Annual	2-Butanone	Annual	<10	<10 ug/l	0 no
Annual	Methyl Acrylate	Annual	<10	<10 ug/l	0 no
Annual	Bromochloromethane	Annual	<10	<10 ug/l	0 no
Annual	Methacrylonitrile	Annual	<10	<10 ug/l	0 no
Annual	1,1,1-trichloroethane	Annual	<10	<10 ug/l	500 0 no
Annual	1-Chlorobutane	Annual	<10	<10 ug/l	0 no
Annual	Carbon Tetrachloride	Annual	<10	<10 ug/l	0 no
Annual	1,1-Dichloropropene	Annual	<10	<10 ug/l	0 no
Annual	1,2-dichloroethane	Annual	<10	<10 ug/l	0 no
Annual	1,2-dichloropropane	Annual	<10	<10 ug/l	0 no
Annual	Dibromomethane	Annual	<10	<10 ug/l	0 no
Annual	Methyl Methacrylate	Annual	<10	<10 ug/l	0 no
Annual	1,3-Dichloropropene,cis	Annual	<10	<10 ug/l	0 no
Annual	MIBK/4 Methyl 2 Pentanone	Annual	<10	<10 ug/l	0 no
Annual	1,3-Dichloropropene,trans	Annual	<10	<10 ug/l	0 no
Annual	Ethyl Methacrylate	Annual	<10	<10 ug/l	0 no

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Annual		112 Trichloroethane		Annual	<10	<10 ug/l			0 no
Annual		1,3-dichloropropane		Annual	<10	<10 ug/l			0 no
Annual		2-Hexanone		Annual	<10	<10 ug/l			0 no
Annual		1,2-dibromoethane		Annual	<10	<10 ug/l			0 no
Annual		Chlorobenzene		Annual	<10	<10 ug/l		1	0 no
Annual		1,1,1,2-tetrachloroethane		Annual	<10	<10 ug/l			0 no
Annual		Ethylbenzene		Annual	<10	<10 ug/l		10	0 no
Annual		Xylene P&M		Annual	<10	<10 ug/l			0 no
Annual		Styrene		Annual	<10	<10 ug/l			0 no
Annual		Isopropylbenzene		Annual	<10	<10 ug/l			0 no
Annual		Bromobenzene		Annual	<10	<10 ug/l			0 no
Annual		1,1,2,2-tetrachloroethane		Annual	<10	<10 ug/l			0 no
Annual		1,2,3-trichloropropane		Annual	<10	<10 ug/l			0 no
Annual		Trans 1,4 Dichloro 2 Butene, tran		Annual	<10	<10 ug/l			0 no
Annual		Propylbenzene		Annual	<10	<10 ug/l			0 no
Annual		2-chlorotoluene		Annual	<10	<10 ug/l			0 no
Annual		4-chlorotoluene		Annual	<10	<10 ug/l			0 no
Annual		1,3,5-trimethylbenzene		Annual	<10	<10 ug/l			0 no
Annual		Tert Butyl Benzene		Annual	<10	<10 ug/l			0 no
Annual		1,2,4-trimethylbenzene		Annual	<10	<10 ug/l			0 no
Annual		sec-butylbenzene		Annual	<10	<10 ug/l			0 no
Annual		P Isopropyltoluene		Annual	<10	<10 ug/l			0 no
Annual		N Butyl Benzene		Annual	<10	<10 ug/l			0 no
Annual		1,2-dibromo-3-chloropropane		Annual	<10	<10 ug/l			0 no
Annual		1,2,3-trichlorobenzene		Annual	<10	<10 ug/l			0 no
Quarterly	981d	pH	Meter	Quarterly	6.7	6.6		9.5	data not available
Quarterly		Temp	Meter	Quarterly	11.4	10.4		25	data not available
Quarterly		Elec. Conductivity	Meter	Quarterly	549	284		1000	data not available
Quarterly		Chlorides	titration	Quarterly	18	14.4 mg/l		250	data not available
Quarterly		Ammoniacal Nitrogen	ISE	Quarterly	0.14	0.05 mg/l		0.02	data not available
Annual		Dry		Annual	Sample dry No annual sample	ug/l		0.2	data not available

..++ maximum concentration indicates the maximum measured concentration from all monitoring results produced during the reporting year

Table 2: Downgradient Groundwater monitoring results

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration	Average Concentration	unit	GTV's*	SW EQS	% change in average concentration previous year +/-	Upward trend in yearly average pollutant concentration over last 5 years of monitoring data
Quarterly	G18	pH	Meter	Quarterly	6.4	5.8			9.5		no
Quarterly		Temp	Meter	Quarterly	11.9	11.6			25		no
Quarterly		Elec. Conductivity	Meter	Quarterly	256	98.75			1000		no
Quarterly		Chlorides	titration	Quarterly	22	16.01 mg/l			250	205%+	no
Quarterly		Ammoniacal Nitrogen	ISE	Quarterly	2.04	0.462 mg/l			Trigger Limit of 20mg/l	38%-	no
Annual		Iron		Quarterly	5276	ug/l			0.2	31.5%-	no
Annual		TON		Quarterly	<0.5	mg/l			No abnormal change	413%-	no
Quarterly		TOC	HACH	Quarterly	4.5	2.175 mg/l			Trigger limit 10-12mg/l	660%+	no
Annual		Cadmium		Annual	<20	ug/l			0.005		0 no
Annual		Chromium (total)		Annual	<20	ug/l			0.03		0 no

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Annual	Copper	Annual	<20	ug/l	0.03	0	no
Annual	Cyanide (Total)	Annual	63	ug/l	0.01	0	no
Annual	Lead	Annual		ug/l	0.01	0	no
Annual	Magnesium	Annual	8,32	mg/l	50	0	no
Annual	Manganese	Annual	1133	ug/l	0.05	0	no
Annual	Mercury	Annual	<1	ug/l	0.001	0	no
Annual	Nickle	Annual	<20	ug/l	0.02	0	no
Annual	Potassium	Annual	1.18	mg/l	5	0	no
Annual	Sulphate	Annual	3.22	mg/l	200	0	no
Annual	Total Alkalinity	Annual	81.78	mg/l		0	no
Annual	Total Phosphorus	Annual	0.01	mg/l		0	no
Annual	Phenols	Annual	<10	ug/l	0.5	0	no
Annual	Acenaphthylene	Annual	<10	ug/l		0	no
Annual	Anthracene	Annual	<10	ug/l		0	no
Annual	Benzene	Annual	<10	ug/l	1	0	no
Annual	Bromodichloromethane	Annual	<10	ug/l		0	no
Annual	Bromoform	Annual	<10	ug/l		0	no
Annual	Chloroform	Annual	<10	ug/l	12	0	no
Annual	Chrysene	Annual	<10	ug/l		0	no
Annual	Dibromochloromethane	Annual	<10	ug/l		0	no
Annual	Fluoranthene	Annual	<10	ug/l		0	no
Annual	Fluorene	Annual	<10	ug/l		0	no
Annual	Naphthalene	Annual	<10	ug/l		0	no
Annual	Dibromochloromethane	Annual	<10	ug/l		0	no
Annual	Pentachlorophenol	Annual	<10	ug/l	2	0	no
Annual	Phenanthrene	Annual	<10	ug/l		0	no
Annual	Pyrene	Annual	<10	ug/l		0	no
Annual	Tetrachloroethene	Annual	<10	ug/l		0	no
Annual	Trichloroethene	Annual	<10	ug/l		0	no
Annual	Hexachlorobenzene	Annual	<10	ug/l	0.03	0	no
Annual	Hexachlorobutadiene	Annual	<10	ug/l	0.1	0	no
Annual	2,4,6-Trichlorophenol	Annual	<10	ug/l		0	no
Annual	2,4-Dichlorophenol	Annual	<10	ug/l		0	no
Annual	2,4-Dimethylphenol	Annual	<10	ug/l		0	no
Annual	2-Chlorophenol	Annual	<10	ug/l		0	no
Annual	1,2,4-trichlorobenzene	Annual	<10	ug/l		0	no
Annual	1,2-dichlorobenzene	Annual	<10	ug/l		0	no
Annual	1,3-dichlorobenzene	Annual	<10	ug/l		0	no
Annual	1,4-dichlorobenzene	Annual	<10	ug/l		0	no
Annual	2,4,5-Trichlorophenol	Annual	<10	ug/l		0	no
Annual	2,4-Dinitrotoluene	Annual	<10	ug/l		0	no
Annual	2,6-Dinitrotoluene	Annual	<10	ug/l		0	no
Annual	2-Chloronaphthalene	Annual	<10	ug/l		0	no
Annual	2-Methylnaphthalene	Annual	<10	ug/l		0	no
Annual	2-Methylphenol	Annual	<10	ug/l		0	no
Annual	2-Nitrophenol	Annual	<10	ug/l		0	no
Annual	4-Bromophenyl Phenyl Ether	Annual	<10	ug/l		0	no
Annual	4-Chloro-3-methylphenol	Annual	<10	ug/l		0	no
Annual	4-Chlorophenyl phenyl ether	Annual	<10	ug/l		0	no
Annual	4-Nitrophenol	Annual	<10	ug/l		0	no

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Annual	Acenaphthene	Annual	<10	ug/l	0 no
Annual	Benzo(a)anthracene	Annual	<10	ug/l	0 no
Annual	Benzo(a)pyrene	Annual	<10	ug/l	0 no
Annual	Benzo(b)fluoranthene	Annual	<10	ug/l	0 no
Annual	Benzo(g,h,i)perylene	Annual	<10	ug/l	0 no
Annual	Benzyl Butyl Phthalate	Annual	<10	ug/l	0 no
Annual	Bis(2-chloroethoxy)methane	Annual	<10	ug/l	0 no
Annual	Bis(2-chloroethyl)ether	Annual	<10	ug/l	0 no
Annual	Bis(2-chloroisopropyl)ether	Annual	<10	ug/l	0 no
Annual	Bis(2-ethylhexyl)phthalate	Annual	<10	ug/l	0 no
Annual	Dibenz(a,h)anthracene	Annual	<10	ug/l	0 no
Annual	Dibenzofuran	Annual	<10	ug/l	0 no
Annual	Diethylphthalate	Annual	<10	ug/l	0 no
Annual	di-n-Butylphthalate	Annual	<10	ug/l	0 no
Annual	Di-n-octylphthalate	Annual	<10	ug/l	0 no
Annual	Diphenylamine	Annual	<10	ug/l	0 no
Annual	Hexachloroethane	Annual	<10	ug/l	0 no
Annual	Indeno(1,2,3-c,d)pyrene	Annual	<10	ug/l	0 no
Annual	Isophorone	Annual	<10	ug/l	0 no
Annual	Nitrobenzene	Annual	<10	ug/l	0 no
Annual	n-Nitrosodi-n-propylamine	Annual	<10	ug/l	0 no
Annual	Acetone	Annual	<10	ug/l	0 no
Annual	Dichloromethane	Annual	<10	ug/l	0 no
Annual	Tetrahydrofuran	Annual	<10	ug/l	0 no
Annual	Toluene	Annual	<10	ug/l	10 0 no
Annual	Xylene-o	Annual	<10	ug/l	10 0 no
Annual	Dichlorodifluoromethane	Annual	<10	ug/l	0 no
Annual	Chloromethane	Annual	<10	ug/l	0 no
Annual	Ethyl Chloride/Chloroethane	Annual	<10	ug/l	0 no
Annual	Vinyl Chloride	Annual	<10	ug/l	0 no
Annual	Bromomethane	Annual	<10	ug/l	0 no
Annual	Trichloromonofluoromethane	Annual	<10	ug/l	0 no
Annual	Ethyl Ether/Diethyl Ether	Annual	<10	ug/l	0 no
Annual	1,1 Dichloroethene	Annual	<10	ug/l	0 no
Annual	Iodomethane/Methyl Iodide	Annual	<10	ug/l	0 no
Annual	Carbon Disulphide	Annual	<10	ug/l	0 no
Annual	Allyl Chloride	Annual	<10	ug/l	0 no
Annual	Chlormethyl Cyanide/Chloroacetonitrile	Annual	<10	ug/l	0 no
Annual	Propanenitrile	Annual	<10	ug/l	0 no
Annual	Trans-1,2 Dichloroethene	Annual	<10	ug/l	0 no
Annual	MTBE	Annual	<10	ug/l	0 no
Annual	1,1-dichloroethane	Annual	<10	ug/l	30 0 no
Annual	2,2-dichloropropane	Annual	<10	ug/l	0 no
Annual	cis-1,2 Dichloroethene	Annual	<10	ug/l	0 no
Annual	2-Butanone	Annual	<10	ug/l	0 no
Annual	Methyl Acrylate	Annual	<10	ug/l	0 no
Annual	Bromochloromethane	Annual	<10	ug/l	0 no
Annual	Methacrylonitrile	Annual	<10	ug/l	0 no

Groundwater/Soil monitoring template				Lic No:	W0002-01	Year	2014				
Annual		1,1,1-trichloroethane		Annual	<10	ug/l		500	0	no	
Annual		1-Chlorobutane		Annual	<10	ug/l			0	no	
Annual		Carbon Tetrachloride		Annual	<10	ug/l			0	no	
Annual		1,1-Dichloroethane		Annual	<10	ug/l			0	no	
Annual		1,2-dichloroethane		Annual	<10	ug/l			0	no	
Annual		1,2-dichloropropane		Annual	<10	ug/l			0	no	
Annual		Dibromomethane		Annual	<10	ug/l			0	no	
Annual		Methyl Methacrylate		Annual	<10	ug/l			0	no	
Annual		1,3-Dichloropropane,cis		Annual	<10	ug/l			0	no	
Annual		MIBK/4 Methyl 2 Pentanone		Annual	<10	ug/l			0	no	
Annual		1,3-Dichloropropane,trans		Annual	<10	ug/l			0	no	
Annual		Ethyl Methacrylate		Annual	<10	ug/l			0	no	
Annual		1,1,2-Trichloroethane		Annual	<10	ug/l			0	no	
Annual		1,3-dichloropropane		Annual	<10	ug/l			0	no	
Annual		2-Hexanone		Annual	<10	ug/l			0	no	
Annual		1,2-dibromoethane		Annual	<10	ug/l			0	no	
Annual		Chlorobenzene		Annual	<10	ug/l		1	0	no	
Annual		1,1,1,2-tetrachloroethane		Annual	<10	ug/l			0	no	
Annual		Ethylbenzene		Annual	<10	ug/l		10	0	no	
Annual		Xylene P&M		Annual	<10	ug/l			0	no	
Annual		Styrene		Annual	<10	ug/l			0	no	
Annual		Isopropylbenzene		Annual	<10	ug/l			0	no	
Annual		Bromobenzene		Annual	<10	ug/l			0	no	
Annual		1,1,2,2-tetrachloroethane		Annual	<10	ug/l			0	no	
Annual		1,2,3-trichloropropane		Annual	<10	ug/l			0	no	
Annual		Trans 1,2-Dichloro 2 Butene, tran		Annual	<10	ug/l			0	no	
Annual		Propylbenzene		Annual	<10	ug/l			0	no	
Annual		2-chlorotoluene		Annual	<10	ug/l			0	no	
Annual		4-chlorotoluene		Annual	<10	ug/l			0	no	
Annual		1,3,5-trimethylbenzene		Annual	<10	ug/l			0	no	
Annual		Tert Butyl Benzene		Annual	<10	ug/l			0	no	
Annual		1,2,4-trimethylbenzene		Annual	<10	ug/l			0	no	
Annual		sec-butylbenzene		Annual	<10	ug/l			0	no	
Annual		P Isopropyltoluene		Annual	<10	ug/l			0	no	
Annual		N Butyl Benzene		Annual	<10	ug/l			0	no	
Annual		1,2-dibromo-3-chloropropane		Annual	<10	ug/l			0	no	
Annual		1,2,3-trichlorobenzene		Annual	<10	ug/l			0	no	
Quarterly	96 3D	pH	Meter	Quarterly	7					no	pollutant concentration over last
Quarterly		Temp	Meter	Quarterly	13.6						
Quarterly		Elec.Conductivity	Meter	Quarterly	363	296		1000		no	no
Quarterly		Chlorides	titration	Quarterly	13.7	12.6	mg/l	250		no	no
Quarterly		Ammoniacal Nitrogen	ISE	Quarterly	7.1	3.43	mg/l			no	no
annual		Iron		Quarterly	596	596	ug/l	0.2		no	no
annual		TON		Quarterly	0.5	0.5	mg/l		No abnormal change	no	no
Quarterly		TOC	HACH	Quarterly	10.1	3.87	mg/l			no	no

Groundwater/Soil monitoring template			Lic No:	W0002-01	Year	2014			
Annual		Cadmium	Annual	<20	<20	ug/l	0.005	no	no
Annual		Chromium (total)	Annual	<20	<20	ug/l	0.03	no	no
Annual		Copper	Annual	<20	<20	ug/l	0.03	no	no
Annual		Cyanide (Total)	Annual	99	99	ug/l	0.01	no	no
Annual		Lead	Annual	<20	<20	ug/l	0.01	no	no
Annual		Magnesium	Annual	10.4	10.4	mg/l	50	no	no
Annual		Manganese	Annual	57	57	ug/l	0.05	no	no
Annual		Mercury	Annual	<1	<1	ug/l	0.001	no	no
Annual		Nickle	Annual	<20	<20	ug/l	0.02	no	no
Annual		Potassium	Annual	3.48	3.48	mg/l	5	no	no
Annual		Sulphate	Annual	2.5	2.5	mg/l	200	no	no
Annual		Total Alkalinity	Annual	170.54	170.54	mg/l		no	no
Annual		Total Phosphorus	Annual	1.23	1.23	mg/l		no	no
Annual		Phenols	Annual	<10	<10	ug/l	0.5	no	no
Annual		Acenaphthylene	Annual	<10	<10	ug/l		no	no
Annual		Anthracene	Annual	<10	<10	ug/l		no	no
Annual		Benzene	Annual	<10	<10	ug/l	1	no	no
Annual		Bromodichloromethane	Annual	<10	<10	ug/l		no	no
Annual		Bromoform	Annual	<10	<10	ug/l		no	no
Annual		Chloroform	Annual	<10	<10	ug/l	12	no	no
Annual		Chrysene	Annual	<10	<10	ug/l		no	no
Annual		Dibromochloromethane	Annual	<10	<10	ug/l		no	no
Annual		Fluoranthene	Annual	<10	<10	ug/l		no	no
Annual		Fluorene	Annual	<10	<10	ug/l		no	no
Annual		Naphthalene	Annual	<10	<10	ug/l		no	no
Annual		Dibromochloromethane	Annual	<10	<10	ug/l		no	no
Annual		Pentachlorophenol	Annual	<10	<10	ug/l	2	no	no
Annual		Phenanthrene	Annual	<10	<10	ug/l		no	no
Annual		Pyrene	Annual	<10	<10	ug/l		no	no
Annual		Tetrachloroethene	Annual	<10	<10	ug/l		no	no
Annual		Trichloroethene	Annual	<10	<10	ug/l		no	no
Annual		Hexachlorobenzene	Annual	<10	<10	ug/l	0.03	no	no
Annual		Hexachlorobutadiene	Annual	<10	<10	ug/l	0.1	no	no
Annual		2,4,6-Trichlorophenol	Annual	<10	<10	ug/l		no	no
Annual		2,4-Dichlorophenol	Annual	<10	<10	ug/l		no	no
Annual		2,4-Dimethylphenol	Annual	<10	<10	ug/l		no	no
Annual		2-Chlorophenol	Annual	<10	<10	ug/l		no	no
Annual		1,2,4-trichlorobenzene	Annual	<10	<10	ug/l		no	no
Annual		1,2-dichlorobenzene	Annual	<10	<10	ug/l		no	no
Annual		1,3-dichlorobenzene	Annual	<10	<10	ug/l		no	no
Annual		1,4-dichlorobenzene	Annual	<10	<10	ug/l		no	no
Annual		2,4,5-Trichlorophenol	Annual	<10	<10	ug/l		no	no
Annual		2,4-Dinitrotoluene	Annual	<10	<10	ug/l		no	no
Annual		2,6-Dinitrotoluene	Annual	<10	<10	ug/l		no	no
Annual		2-Chloronaphthalene	Annual	<10	<10	ug/l		no	no
Annual		2-Methylnaphthalene	Annual	<10	<10	ug/l		no	no
Annual		2-Methylphenol	Annual	<10	<10	ug/l		no	no
Annual		2-Nitrophenol	Annual	<10	<10	ug/l		no	no

Groundwater/Soil monitoring template		Lic No:	W0002-01	Year	2014				
Annual	4-Bromophenyl Phenyl Ether	Annual	<10	<10	ug/l				no no
Annual	4-Chloro-3-methylphenol	Annual	<10	<10	ug/l				no no
Annual	4-Chlorophenyl phenyl ether	Annual	<10	<10	ug/l				no no
Annual	4-Nitrophenol	Annual	<10	<10	ug/l				no no
Annual	Acenaphthene	Annual	<10	<10	ug/l				no no
Annual	Benzo(a)anthracene	Annual	<10	<10	ug/l				no no
Annual	Benzo(a)pyrene	Annual	<10	<10	ug/l				no no
Annual	Benzo(b)fluoranthene	Annual	<10	<10	ug/l				no no
Annual	Benzo(g,h,i)perylene	Annual	<10	<10	ug/l				no no
Annual	Benzyl Butyl Phthalate	Annual	<10	<10	ug/l				no no
Annual	Bis(2-chloroethoxy)methane	Annual	<10	<10	ug/l				no no
Annual	Bis(2-chloroethyl)ether	Annual	<10	<10	ug/l				no no
Annual	Bis(2-chloroisopropyl)ether	Annual	<10	<10	ug/l				no no
Annual	Bis(2-ethylhexyl)phthalate	Annual	<10	<10	ug/l				no no
Annual	Dibenz(a,h)anthracene	Annual	<10	<10	ug/l				no no
Annual	Dibenzofuran	Annual	<10	<10	ug/l				no no
Annual	Diethylphthalate	Annual	<10	<10	ug/l				no no
Annual	di-n-Butylphthalate	Annual	<10	<10	ug/l				no no
Annual	Di-n-octylphthalate	Annual	<10	<10	ug/l				no no
Annual	Diphenylamine	Annual	<10	<10	ug/l				no no
Annual	Hexachloroethane	Annual	<10	<10	ug/l				no no
Annual	Indeno(1,2,3-c,d)pyrene	Annual	<10	<10	ug/l				no no
Annual	Isophorone	Annual	<10	<10	ug/l				no no
Annual	Nitrobenzene	Annual	<10	<10	ug/l				no no
Annual	n-Nitrosodi-n-propylamine	Annual	<10	<10	ug/l				no no
Annual	Acetone	Annual	<10	<10	ug/l				no no
Annual	Dichloromethane	Annual	<10	<10	ug/l				no no
Annual	Tetrahydrofuran	Annual	<10	<10	ug/l				no no
Annual	Toluene	Annual	<10	<10	ug/l		10		no no
Annual	Xylene-o	Annual	<10	<10	ug/l		10		no no
Annual	Dichlorodifluoromethane	Annual	<10	<10	ug/l				no no
Annual	Chloromethane	Annual	<10	<10	ug/l				no no
Annual	Ethyl Chloride/Chloroethane	Annual	<10	<10	ug/l				no no
Annual	Vinyl Chloride	Annual	<10	<10	ug/l				no no
Annual	Bromomethane	Annual	<10	<10	ug/l				no no
Annual	Trichloromonofluoromethane	Annual	<10	<10	ug/l				no no
Annual	Ethyl Ether/Diethyl Ether	Annual	<10	<10	ug/l				no no
Annual	1,1 Dichloroethene	Annual	<10	<10	ug/l				no no
Annual	Iodomethane/Methyl Iodide	Annual	<10	<10	ug/l				no no
Annual	Carbon Disulphide	Annual	<10	<10	ug/l				no no
Annual	Allyl Chloride	Annual	<10	<10	ug/l				no no
Annual	Chlormethyl Cyanide/Chloroacetonitrile	Annual	<10	<10	ug/l				no no
Annual	Propanenitrile	Annual	<10	<10	ug/l				no no
Annual	Trans-1,2 Dichloroethene	Annual	<10	<10	ug/l				no no
Annual	MTBE	Annual	<10	<10	ug/l				no no
Annual	1,1-dichloroethane	Annual	<10	<10	ug/l		30		no no
Annual	2,2-dichloropropane	Annual	<10	<10	ug/l				no no

Groundwater/Soil monitoring template				Lic No: W0002-01		Year 2014			
Annual		cis-12 Dichloroethene	Annual	<10	<10	ug/l	no	no	
Annual		2-Butanone	Annual	<10	<10	ug/l	no	no	
Annual		Methyl Acrylate	Annual	<10	<10	ug/l	no	no	
Annual		Bromochloromethane	Annual	<10	<10	ug/l	no	no	
Annual		Methacrylonitrile	Annual	<10	<10	ug/l	no	no	
Annual		1,1,1-trichloroethane	Annual	<10	<10	ug/l	500	no	no
Annual		1-Chlorobutane	Annual	<10	<10	ug/l	no	no	
Annual		Carbon Tetrachloride	Annual	<10	<10	ug/l	no	no	
Annual		11 Dichloropropene	Annual	<10	<10	ug/l	no	no	
Annual		1,2 dicloroethane	Annual	<10	<10	ug/l	no	no	
Annual		1,2-dichloropropane	Annual	<10	<10	ug/l	no	no	
Annual		Dibromomethane	Annual	<10	<10	ug/l	no	no	
Annual		Methyl Methacrylate	Annual	<10	<10	ug/l	no	no	
Annual		13 Dichloropropene,cis	Annual	<10	<10	ug/l	no	no	
Annual		MIBK/4 Methyl 2 Pentanone	Annual	<10	<10	ug/l	no	no	
Annual		13 Dichloropropene,trans	Annual	<10	<10	ug/l	no	no	
Annual		Ethyl Methacrylate	Annual	<10	<10	ug/l	no	no	
Annual		112 Trichloroethane	Annual	<10	<10	ug/l	no	no	
Annual		1,3-dichloropropane	Annual	<10	<10	ug/l	no	no	
Annual		2-Hexanone	Annual	<10	<10	ug/l	no	no	
Annual		1,2-dibromoethane	Annual	<10	<10	ug/l	no	no	
Annual		Chlorobenzene	Annual	<10	<10	ug/l	1	no	no
Annual		1,1,1,2-tetrachloroethane	Annual	<10	<10	ug/l	no	no	
Annual		Ethylbenzene	Annual	<10	<10	ug/l	10	no	no
Annual		Xylene P&M	Annual	<10	<10	ug/l	no	no	
Annual		Styrene	Annual	<10	<10	ug/l	no	no	
Annual		Isopropylbenzene	Annual	<10	<10	ug/l	no	no	
Annual		Bromobenzene	Annual	<10	<10	ug/l	no	no	
Annual		1,1,2,2-tetrachloroethane	Annual	<10	<10	ug/l	no	no	
Annual		1,2,3-trichloropropane	Annual	<10	<10	ug/l	no	no	
Annual		Trans 14 Dichloro 2 Butene, tran	Annual	<10	<10	ug/l	no	no	
Annual		Propylbenzene	Annual	<10	<10	ug/l	no	no	
Annual		2-chlorotoluene	Annual	<10	<10	ug/l	no	no	
Annual		4-chlorotoluene	Annual	<10	<10	ug/l	no	no	
Annual		1,3,5-trimethylbenzene	Annual	<10	<10	ug/l	no	no	
Annual		Tert Butyl Benzene	Annual	<10	<10	ug/l	no	no	
Annual		1,2,4-trimethylbenzene	Annual	<10	<10	ug/l	no	no	
Annual		sec-butylbenzene	Annual	<10	<10	ug/l	no	no	
Annual		P Isopropyltoluene	Annual	<10	<10	ug/l	no	no	
Annual		N Butyl Benzene	Annual	<10	<10	ug/l	no	no	
Annual		1,2-dibromo-3-chloropropane	Annual	<10	<10	ug/l	no	no	
Annual		1,2,3-trichlorobenzene	Annual	<10	<10	ug/l	no	no	
				6.7					
Quarterly	96 4S	pH	Meter	Quarterly	6.4		9.5	no	Upward trend in pollutant concentration over last 5 years of monitoring data
Quarterly		Temp	Meter	Quarterly	13.3	11.6	25	no	
Quarterly		Elec.Conductivity	Meter	Quarterly	326	269	1000	no	

Groundwater/Soil monitoring template		Lic No: W0002-01		Year 2014					
Quarterly	Chlorides	titration	Quarterly	12.1	11.3	mg/l	250	no	no
Quarterly	Ammoniacal Nitrogen	ISE	Quarterly	0.2	0.1	mg/l		no	no
annual	Iron		annual	69		ug/l	0.2	no	no
annual	TON		annual	<0.5		mg/l	No abnormal change	no	no
Quarterly	TOC	HACH	Quarterly	7.6	4.775	mg/l		no	no
Annual	Cadmium		Annual	<20	<20	ug/l	0.005	no	no
Annual	Chromium (total)		Annual	<20	<20	ug/l	0.03	no	no
Annual	Copper		Annual	<20	<20	ug/l	0.03	no	no
Annual	Cyanide (Total)		Annual	37	37	ug/l	0.01	no	no
Annual	Lead		Annual	<20	<20	ug/l	0.01	no	no
Annual	Magnesium		Annual	9.49	9.49	mg/l	50	no	no
Annual	Manganese		Annual	6962	6962	ug/l	0.05	no	no
Annual	Mercury		Annual	<1	<1	ug/l	0.001	no	no
Annual	Nickle		Annual	133	133	ug/l	0.02	no	no
Annual	Potassium		Annual	0.83	0.83	mg/l	5	no	no
Annual	Sulphate		Annual	3.76	3.76	mg/l	200	no	no
Annual	Total Alkalinity		Annual	124.84	124.84	mg/l		no	no
Annual	Total Phosphorus		Annual	0.07	0.07	mg/l		no	no
Annual	Phenols		Annual	<10	<10	ug/l	0.5	no	no
Annual	Acenaphthylene		Annual	<10	<10	ug/l		no	no
Annual	Anthracene		Annual	<10	<10	ug/l		no	no
Annual	Benzene		Annual	<10	<10	ug/l	1	no	no
Annual	Bromodichloromethane		Annual	<10	<10	ug/l		no	no
Annual	Bromoform		Annual	<10	<10	ug/l		no	no
Annual	Chloroform		Annual	<10	<10	ug/l	12	no	no
Annual	Chrysene		Annual	<10	<10	ug/l		no	no
Annual	Dibromochloromethane		Annual	<10	<10	ug/l		no	no
Annual	Fluoranthene		Annual	<10	<10	ug/l		no	no
Annual	Fluorene		Annual	<10	<10	ug/l		no	no
Annual	Naphthalene		Annual	<10	<10	ug/l		no	no
Annual	Dibromochloromethane		Annual	<10	<10	ug/l		no	no
Annual	Pentachlorophenol		Annual	<10	<10	ug/l	2	no	no
Annual	Phenanthrene		Annual	<10	<10	ug/l		no	no
Annual	Pyrene		Annual	<10	<10	ug/l		no	no
Annual	Tetrachloroethene		Annual	<10	<10	ug/l		no	no
Annual	Trichloroethene		Annual	<10	<10	ug/l		no	no
Annual	Hexachlorobenzene		Annual	<10	<10	ug/l	0.03	no	no
Annual	Hexachlorobutadiene		Annual	<10	<10	ug/l	0.1	no	no
Annual	2,4,6-Trichlorophenol		Annual	<10	<10	ug/l		no	no
Annual	2,4-Dichlorophenol		Annual	<10	<10	ug/l		no	no
Annual	2,4-Dimethylphenol		Annual	<10	<10	ug/l		no	no
Annual	2-Chlorophenol		Annual	<10	<10	ug/l		no	no
Annual	1,2,4-trichlorobenzene		Annual	<10	<10	ug/l		no	no
Annual	1,2-dichlorobenzene		Annual	<10	<10	ug/l		no	no
Annual	1,3-dichlorobenzene		Annual	<10	<10	ug/l		no	no
Annual	1,4-dichlorobenzene		Annual	<10	<10	ug/l		no	no
Annual	2,4,5-Trichlorophenol		Annual	<10	<10	ug/l		no	no
Annual	2,4-Dinitrotoluene		Annual	<10	<10	ug/l		no	no
Annual	2,6-Dinitrotoluene		Annual	<10	<10	ug/l		no	no
Annual	2-Chloronaphthalene		Annual	<10	<10	ug/l		no	no
Annual	2-Methylnaphthalene		Annual	<10	<10	ug/l		no	no

Groundwater/Soil monitoring template		Lic No:	W0002-01	Year	2014				
Annual	2-Methylphenol	Annual	<10	<10	ug/l				no no
Annual	2-Nitrophenol	Annual	<10	<10	ug/l				no no
Annual	4-Bromophenyl Phenyl Ether	Annual	<10	<10	ug/l				no no
Annual	4-Chloro-3-methylphenol	Annual	<10	<10	ug/l				no no
Annual	4-Chlorophenyl phenyl ether	Annual	<10	<10	ug/l				no no
Annual	4-Nitrophenol	Annual	<10	<10	ug/l				no no
Annual	Acenaphthene	Annual	<10	<10	ug/l				no no
Annual	Benzo(a)anthracene	Annual	<10	<10	ug/l				no no
Annual	Benzo(a)pyrene	Annual	<10	<10	ug/l				no no
Annual	Benzo(b)fluoranthene	Annual	<10	<10	ug/l				no no
Annual	Benzo(g,h,i)perylene	Annual	<10	<10	ug/l				no no
Annual	Benzyl Butyl Phthalate	Annual	<10	<10	ug/l				no no
Annual	Bis(2-chloroethoxy)methane	Annual	<10	<10	ug/l				no no
Annual	Bis(2-chloroethyl)ether	Annual	<10	<10	ug/l				no no
Annual	Bis(2-chloroisopropyl)ether	Annual	<10	<10	ug/l				no no
Annual	Bis(2-ethylhexyl)phthalate	Annual	<10	<10	ug/l				no no
Annual	Dibenz(a,h)anthracene	Annual	<10	<10	ug/l				no no
Annual	Dibenzofuran	Annual	<10	<10	ug/l				no no
Annual	Diethylphthalate	Annual	<10	<10	ug/l				no no
Annual	di-n-Butylphthalate	Annual	<10	<10	ug/l				no no
Annual	Di-n-octylphthalate	Annual	<10	<10	ug/l				no no
Annual	Diphenylamine	Annual	<10	<10	ug/l				no no
Annual	Hexachloroethane	Annual	<10	<10	ug/l				no no
Annual	Indeno(1,2,3-c,d)pyrene	Annual	<10	<10	ug/l				no no
Annual	Isophorone	Annual	<10	<10	ug/l				no no
Annual	Nitrobenzene	Annual	<10	<10	ug/l				no no
Annual	n-Nitrosodi-n-propylamine	Annual	<10	<10	ug/l				no no
Annual	Acetone	Annual	<10	<10	ug/l				no no
Annual	Dichloromethane	Annual	<10	<10	ug/l				no no
Annual	Tetrahydrofuran	Annual	<10	<10	ug/l				no no
Annual	Toluene	Annual	<10	<10	ug/l		10		no no
Annual	Xylene-o	Annual	<10	<10	ug/l		10		no no
Annual	Dichlorodifluoromethane	Annual	<10	<10	ug/l				no no
Annual	Chloromethane	Annual	<10	<10	ug/l				no no
Annual	Ethyl Chloride/Chloroethane	Annual	<10	<10	ug/l				no no
Annual	Vinyl Chloride	Annual	<10	<10	ug/l				no no
Annual	Bromomethane	Annual	<10	<10	ug/l				no no
Annual	Trichloromonofluoromethane	Annual	<10	<10	ug/l				no no
Annual	Ethyl Ether/Diethyl Ether	Annual	<10	<10	ug/l				no no
Annual	1,1 Dichloroethene	Annual	<10	<10	ug/l				no no
Annual	Iodomethane/Methyl iodide	Annual	<10	<10	ug/l				no no
Annual	Carbon Disulphide	Annual	<10	<10	ug/l				no no
Annual	Allyl Chloride	Annual	<10	<10	ug/l				no no
Annual	Chlormethyl Cyanide/Chloroacetonitrile	Annual	<10	<10	ug/l				no no
Annual	Propanenitrile	Annual	<10	<10	ug/l				no no
Annual	Trans-1,2 Dichloroethene	Annual	<10	<10	ug/l				no no
Annual	MtBE	Annual	<10	<10	ug/l				no no

Groundwater/Soil monitoring template			Lic No:	W0002-01	Year	2014			
Annual		1,1-dichloroethane	Annual	<10	<10	ug/l		30	no no
Annual		2,2-dichloropropane	Annual	<10	<10	ug/l			no no
Annual		cis-12 Dichloroethene	Annual	<10	<10	ug/l			no no
Annual		2-Butanone	Annual	<10	<10	ug/l			no no
Annual		Methyl Acrylate	Annual	<10	<10	ug/l			no no
Annual		Bromochloromethane	Annual	<10	<10	ug/l			no no
Annual		Methacrylonitrile	Annual	<10	<10	ug/l			no no
Annual		1,1,1-trichloroethane	Annual	<10	<10	ug/l		500	no no
Annual		1-Chlorobutane	Annual	<10	<10	ug/l			no no
Annual		Carbon Tetrachloride	Annual	<10	<10	ug/l			no no
Annual		11 Dichloropropene	Annual	<10	<10	ug/l			no no
Annual		1,2 dicloroethane	Annual	<10	<10	ug/l			no no
Annual		1,2-dichloropropane	Annual	<10	<10	ug/l			no no
Annual		Dibromomethane	Annual	<10	<10	ug/l			no no
Annual		Methyl Methacrylate	Annual	<10	<10	ug/l			no no
Annual		13 Dichloropropene,cis	Annual	<10	<10	ug/l			no no
Annual		MIBK/4 Methyl 2 Pentanone	Annual	<10	<10	ug/l			no no
Annual		13 Dichloropropene,trans	Annual	<10	<10	ug/l			no no
Annual		Ethyl Methacrylate	Annual	<10	<10	ug/l			no no
Annual		112 Trichloroethane	Annual	<10	<10	ug/l			no no
Annual		1,3-dichloropropane	Annual	<10	<10	ug/l			no no
Annual		2-Hexanone	Annual	<10	<10	ug/l			no no
Annual		1,2-dibromoethane	Annual	<10	<10	ug/l			no no
Annual		Chlorobenzene	Annual	<10	<10	ug/l		1	no no
Annual		1,1,1,2-tetrachloroethane	Annual	<10	<10	ug/l			no no
Annual		Ethylbenzene	Annual	<10	<10	ug/l		10	no no
Annual		Xylene P&M	Annual	<10	<10	ug/l			no no
Annual		Styrene	Annual	<10	<10	ug/l			no no
Annual		Isopropylbenzene	Annual	<10	<10	ug/l			no no
Annual		Bromobenzene	Annual	<10	<10	ug/l			no no
Annual		1,1,2,2-tetrachloroethane	Annual	<10	<10	ug/l			no no
Annual		1,2,3-trichloropropane	Annual	<10	<10	ug/l			no no
Annual		Trans 14 Dichloro 2 Butene, tran	Annual	<10	<10	ug/l			no no
Annual		Propylbenzene	Annual	<10	<10	ug/l			no no
Annual		2-chlorotoluene	Annual	<10	<10	ug/l			no no
Annual		4-chlorotoluene	Annual	<10	<10	ug/l			no no
Annual		1,3,5-trimethylbenzene	Annual	<10	<10	ug/l			no no
Annual		Tert Butyl Benzene	Annual	<10	<10	ug/l			no no
Annual		1,2,4-trimethylbenzene	Annual	<10	<10	ug/l			no no
Annual		sec-butylbenzene	Annual	<10	<10	ug/l			no no
Annual		P Isopropyltoluene	Annual	<10	<10	ug/l			no no
Annual		N Butyl Benzene	Annual	<10	<10	ug/l			no no
Annual		1,2-dibromo-3-chloropropane	Annual	<10	<10	ug/l			no no
Annual		1,2,3-trichlorobenzene	Annual	<10	<10	ug/l			no no
				7.1					Upward trend in pollutant concentration over last 5 years of monitoring data
Quarterly	96 4D	pH	Meter	Quarterly	7			9.5	no data

Groundwater/Soil monitoring template			Lic No: W0002-01		Year 2014				
Quarterly	Temp	Meter	Quarterly	12.8	11.3	25	no	no	
Quarterly	Elec. Conductivity	Meter	Quarterly	515	495	1000	no	no	
	Chlorides	titration	Quarterly	18.07	15.9	250	no	no	
Quarterly	Ammoniacal Nitrogen	ISE	Quarterly	13.56	8.04	mg/l		no	no
Annual	Iron		Annual	577		ug/l	0.2	no	no
Annual	TON		Annual	<0.5		mg/l	No abnormal change	no	no
Quarterly	TOC	HACH	Quarterly	13.9	7.7	mg/l		no	no
Annual	Cadmium		Annual	<20	<20	ug/l	0.005	no	no
Annual	Chromium (total)		Annual	<20	<20	ug/l	0.03	no	no
Annual	Copper		Annual	<20	<20	ug/l	0.03	no	no
Annual	Cyanide (Total)		Annual	35	35	ug/l	0.01	no	no
Annual	Lead		Annual	<20	<20	ug/l	0.01	no	no
Annual	Magnesium		Annual	18.7	18.7	mg/l	50	no	no
Annual	Manganese		Annual	380	380	ug/l	0.05	no	no
Annual	Mercury		Annual	<1	<1	ug/l	0.001	no	no
Annual	Nickle		Annual	<20	<20	ug/l	0.02	no	no
Annual	Potassium		Annual	1.78	1.78	mg/l	5	no	no
Annual	Sulphate		Annual	<2.5	<2.5	mg/l	200	no	no
Annual	Total Alkalinity		Annual	250	250	mg/l		no	no
Annual	Total Phosphorus		Annual	0.81	0.81	mg/l		no	no
Annual	Phenols		Annual	<10	<10	ug/l	0.5	no	no
Annual	Acenaphthylene		Annual	<10	<10	ug/l		no	no
Annual	Anthracene		Annual	<10	<10	ug/l		no	no
Annual	Benzene		Annual	<10	<10	ug/l	1	no	no
Annual	Bromodichloromethane		Annual	<10	<10	ug/l		no	no
Annual	Bromoform		Annual	<10	<10	ug/l		no	no
Annual	Chloroform		Annual	<10	<10	ug/l	12	no	no
Annual	Chrysene		Annual	<10	<10	ug/l		no	no
Annual	Dibromochloromethane		Annual	<10	<10	ug/l		no	no
Annual	Fluoranthene		Annual	<10	<10	ug/l		no	no
Annual	Fluorene		Annual	<10	<10	ug/l		no	no
Annual	Naphthalene		Annual	<10	<10	ug/l		no	no
Annual	Dibromochloromethane		Annual	<10	<10	ug/l		no	no
Annual	Pentachlorophenol		Annual	<10	<10	ug/l	2	no	no
Annual	Phenanthrene		Annual	<10	<10	ug/l		no	no
Annual	Pyrene		Annual	<10	<10	ug/l		no	no
Annual	Tetrachloroethene		Annual	<10	<10	ug/l		no	no
Annual	Trichloroethene		Annual	<10	<10	ug/l		no	no
Annual	Hexachlorobenzene		Annual	<10	<10	ug/l	0.03	no	no
Annual	Hexachlorobutadiene		Annual	<10	<10	ug/l	0.1	no	no
Annual	2,4,6-Trichlorophenol		Annual	<10	<10	ug/l		no	no
Annual	2,4-Dichlorophenol		Annual	<10	<10	ug/l		no	no
Annual	2,4-Dimethylphenol		Annual	<10	<10	ug/l		no	no
Annual	2-Chlorophenol		Annual	<10	<10	ug/l		no	no
Annual	1,2,4-trichlorobenzene		Annual	<10	<10	ug/l		no	no
Annual	1,2-dichlorobenzene		Annual	<10	<10	ug/l		no	no
Annual	1,3-dichlorobenzene		Annual	<10	<10	ug/l		no	no
Annual	1,4-dichlorobenzene		Annual	<10	<10	ug/l		no	no
Annual	2,4,5-Trichlorophenol		Annual	<10	<10	ug/l		no	no
Annual	2,4-Dinitrotoluene		Annual	<10	<10	ug/l		no	no
Annual	2,6-Dinitrotoluene		Annual	<10	<10	ug/l		no	no

Groundwater/Soil monitoring template		Lic No:	W0002-01	Year	2014				
Annual	2-Chloronaphthalene	Annual	<10	<10	ug/l				no no
Annual	2-Methylnaphthalene	Annual	<10	<10	ug/l				no no
Annual	2-Methylphenol	Annual	<10	<10	ug/l				no no
Annual	2-Nitrophenol	Annual	<10	<10	ug/l				no no
Annual	4-Bromophenyl Phenyl Ether	Annual	<10	<10	ug/l				no no
Annual	4-Chloro-3-methylphenol	Annual	<10	<10	ug/l				no no
Annual	4-Chlorophenyl phenyl ether	Annual	<10	<10	ug/l				no no
Annual	4-Nitrophenol	Annual	<10	<10	ug/l				no no
Annual	Acenaphthene	Annual	<10	<10	ug/l				no no
Annual	Benzo(a)anthracene	Annual	<10	<10	ug/l				no no
Annual	Benzo(a)pyrene	Annual	<10	<10	ug/l				no no
Annual	Benzo(b)fluoranthene	Annual	<10	<10	ug/l				no no
Annual	Benzo(g,h,i)perylene	Annual	<10	<10	ug/l				no no
Annual	Benzyl Butyl Phthalate	Annual	<10	<10	ug/l				no no
Annual	Bis(2-chloroethoxy)methane	Annual	<10	<10	ug/l				no no
Annual	Bis(2-chloroethyl)ether	Annual	<10	<10	ug/l				no no
Annual	Bis(2-chloroisopropyl)ether	Annual	<10	<10	ug/l				no no
Annual	Bis(2-ethylhexyl)phthalate	Annual	<10	<10	ug/l				no no
Annual	Dibenz(a,h)anthracene	Annual	<10	<10	ug/l				no no
Annual	Dibenzofuran	Annual	<10	<10	ug/l				no no
Annual	Diethylphthalate	Annual	<10	<10	ug/l				no no
Annual	di-n-Butylphthalate	Annual	<10	<10	ug/l				no no
Annual	Di-n-octylphthalate	Annual	<10	<10	ug/l				no no
Annual	Diphenylamine	Annual	<10	<10	ug/l				no no
Annual	Hexachloroethane	Annual	<10	<10	ug/l				no no
Annual	Indeno(1,2,3-c,d)pyrene	Annual	<10	<10	ug/l				no no
Annual	Isophorone	Annual	<10	<10	ug/l				no no
Annual	Nitrobenzene	Annual	<10	<10	ug/l				no no
Annual	n-Nitrosodi-n-propylamine	Annual	<10	<10	ug/l				no no
Annual	Acetone	Annual	<10	<10	ug/l				no no
Annual	Dichloromethane	Annual	<10	<10	ug/l				no no
Annual	Tetrahydrofuran	Annual	<10	<10	ug/l				no no
Annual	Toluene	Annual	<10	<10	ug/l		10		no no
Annual	Xylene -o	Annual	<10	<10	ug/l		10		no no
Annual	Dichlorodifluoromethane	Annual	<10	<10	ug/l				no no
Annual	Chloromethane	Annual	<10	<10	ug/l				no no
Annual	Ethyl Chloride/Chloroethane	Annual	<10	<10	ug/l				no no
Annual	Vinyl Chloride	Annual	<10	<10	ug/l				no no
Annual	Bromomethane	Annual	<10	<10	ug/l				no no
Annual	Trichloromonofluoromethane	Annual	<10	<10	ug/l				no no
Annual	Ethyl Ether/Diethyl Ether	Annual	<10	<10	ug/l				no no
Annual	1,1 Dichloroethene	Annual	<10	<10	ug/l				no no
Annual	Iodomethane/Methyl Iodide	Annual	<10	<10	ug/l				no no
Annual	Carbon Disulphide	Annual	<10	<10	ug/l				no no
Annual	Allyl Chloride	Annual	<10	<10	ug/l				no no
Annual	Chlormethyl Cyanide/Chloroacetoneitrile	Annual	<10	<10	ug/l				no no
Annual	Propanenitrile	Annual	<10	<10	ug/l				no no

Groundwater/Soil monitoring template		Lic No:	W0002-01	Year	2014			
Annual	Trans-1,2 Dichloroethene	Annual	<10	<10	ug/l			no no
Annual	MIBE	Annual	<10	<10	ug/l			no no
Annual	1,1-dichloroethane	Annual	<10	<10	ug/l	30		no no
Annual	2,2-dichloropropane	Annual	<10	<10	ug/l			no no
Annual	cis-1,2 Dichloroethene	Annual	<10	<10	ug/l			no no
Annual	2-Butanone	Annual	<10	<10	ug/l			no no
Annual	Methyl Acrylate	Annual	<10	<10	ug/l			no no
Annual	Bromochloromethane	Annual	<10	<10	ug/l			no no
Annual	Methacrylonitrile	Annual	<10	<10	ug/l			no no
Annual	1,1,1-trichloroethane	Annual	<10	<10	ug/l	500		no no
Annual	1-Chlorobutane	Annual	<10	<10	ug/l			no no
Annual	Carbon Tetrachloride	Annual	<10	<10	ug/l			no no
Annual	1,1 Dichloropropene	Annual	<10	<10	ug/l			no no
Annual	1,2 dichloroethane	Annual	<10	<10	ug/l			no no
Annual	1,2-dichloropropane	Annual	<10	<10	ug/l			no no
Annual	Dibromomethane	Annual	<10	<10	ug/l			no no
Annual	Methyl Methacrylate	Annual	<10	<10	ug/l			no no
Annual	1,3 Dichloropropene, cis	Annual	<10	<10	ug/l			no no
Annual	MIBK/4 Methyl 2 Pentanone	Annual	<10	<10	ug/l			no no
Annual	1,3 Dichloropropene, trans	Annual	<10	<10	ug/l			no no
Annual	Ethyl Methacrylate	Annual	<10	<10	ug/l			no no
Annual	1,1,2 Trichloroethane	Annual	<10	<10	ug/l			no no
Annual	1,3-dichloropropane	Annual	<10	<10	ug/l			no no
Annual	2-Hexanone	Annual	<10	<10	ug/l			no no
Annual	1,2-dibromoethane	Annual	<10	<10	ug/l			no no
Annual	Chlorobenzene	Annual	<10	<10	ug/l	1		no no
Annual	1,1,1,2-tetrachloroethane	Annual	<10	<10	ug/l			no no
Annual	Ethylbenzene	Annual	<10	<10	ug/l	10		no no
Annual	Xylene P&M	Annual	<10	<10	ug/l			no no
Annual	Styrene	Annual	<10	<10	ug/l			no no
Annual	Isopropylbenzene	Annual	<10	<10	ug/l			no no
Annual	Bromobenzene	Annual	<10	<10	ug/l			no no
Annual	1,1,2,2-tetrachloroethane	Annual	<10	<10	ug/l			no no
Annual	1,2,3-trichloropropane	Annual	<10	<10	ug/l			no no
Annual	Trans 1,4 Dichloro 2 Butene, tran	Annual	<10	<10	ug/l			no no
Annual	Propylbenzene	Annual	<10	<10	ug/l			no no
Annual	2-chlorotoluene	Annual	<10	<10	ug/l			no no
Annual	4-chlorotoluene	Annual	<10	<10	ug/l			no no
Annual	1,3,5-trimethylbenzene	Annual	<10	<10	ug/l			no no
Annual	Tert Butyl Benzene	Annual	<10	<10	ug/l			no no
Annual	1,2,4-trimethylbenzene	Annual	<10	<10	ug/l			no no
Annual	sec-butylbenzene	Annual	<10	<10	ug/l			no no
Annual	P Isopropyltoluene	Annual	<10	<10	ug/l			no no
Annual	N Butyl Benzene	Annual	<10	<10	ug/l			no no
Annual	1,2-dibromo-3-chloropropane	Annual	<10	<10	ug/l			no no
Annual	1,2,3-trichlorobenzene	Annual	<10	<10	ug/l			no no

Groundwater/Soil monitoring template				Lic No:	W0002-01	Year	2014					
					7.4							Upward trend in pollutant concentration over last 5 years of monitoring data
Quarterly	96 55	pH	Meter	Quarterly		6.7					9.5	no
Quarterly		Temp	Meter	Quarterly	15.5	12.5					25	no
Quarterly		Elec.Conductivity	Meter	Quarterly	487	460					1000	no
		Chlorides	titration	Quarterly	56.81	50.8	mg/l				250	no
Quarterly		Ammoniacal Nitrogen	ISE	Quarterly	2.24	0.912	mg/l					no
Annual		Iron		Annual	37		ug/l				0.2	no
Annual		TON		Annual	<0.5		mg/l		No abnormal change			no
Quarterly		TOC	HACH	Quarterly	7.8	5.25	mg/l					no
Annual		Cadmium		Annual	<20	<20	ug/l				0.005	no
Annual		Chromium (total)		Annual	<20	<20	ug/l				0.03	no
Annual		Copper		Annual	<20	<20	ug/l				0.03	no
Annual		Cyanide (Total)		Annual	81	81	ug/l				0.01	no
Annual		Lead		Annual	<20	<20	ug/l				0.01	no
Annual		Manganese		Annual	9.93	9.93	mg/l				50	no
Annual		Manganese		Annual	5662	5662	ug/l				0.05	no
Annual		Mercury		Annual	<1	<1	ug/l				0.01	no
Annual		Nickle		Annual	<20	<20	ug/l				0.02	no
Annual		Potassium		Annual	1.21	1.21	mg/l				5	no
Annual		Sulphate		Annual	<2.5	<2.5	mg/l				200	no
Annual		Total Alkalinity		Annual	157.5	157.5	mg/l					no
Annual		Total Phosphorus		Annual	0.03	0.03	mg/l					no
Annual		Phenols		Annual	<10	<10	ug/l				0.5	no
Annual		Acenaphthylene		Annual	<10	<10	ug/l					no
Annual		Anthracene		Annual	<10	<10	ug/l					no
Annual		Benzene		Annual	<10	<10	ug/l				1	no
Annual		Bromodichloromethane		Annual	<10	<10	ug/l					no
Annual		Bromoform		Annual	<10	<10	ug/l					no
Annual		Chloroform		Annual	<10	<10	ug/l				12	no
Annual		Chrysene		Annual	<10	<10	ug/l					no
Annual		Dibromochloromethane		Annual	<10	<10	ug/l					no
Annual		Fluoranthene		Annual	<10	<10	ug/l					no
Annual		Fluorene		Annual	<10	<10	ug/l					no
Annual		Naphthalene		Annual	<10	<10	ug/l					no
Annual		Dibromochloromethane		Annual	<10	<10	ug/l					no
Annual		Pentachlorophenol		Annual	<10	<10	ug/l				2	no
Annual		Phenanthrene		Annual	<10	<10	ug/l					no
Annual		Pyrene		Annual	<10	<10	ug/l					no
Annual		Tetrachloroethene		Annual	<10	<10	ug/l					no
Annual		Trichloroethene		Annual	<10	<10	ug/l					no
Annual		Hexachlorobenzene		Annual	<10	<10	ug/l				0.03	no
Annual		Hexachlorobutadiene		Annual	<10	<10	ug/l				0.1	no
Annual		2,4,6-Trichlorophenol		Annual	<10	<10	ug/l					no
Annual		2,4-Dichlorophenol		Annual	<10	<10	ug/l					no
Annual		2,4-Dimethylphenol		Annual	<10	<10	ug/l					no
Annual		2-Chlorophenol		Annual	<10	<10	ug/l					no
Annual		1,2,4-trichlorobenzene		Annual	<10	<10	ug/l					no
Annual		1,2-dichlorobenzene		Annual	<10	<10	ug/l					no

Groundwater/Soil monitoring template		Lic No:	W0002-01	Year	2014			
Annual	1,3-dichlorobenzene	Annual	<10	<10	ug/l			no no
Annual	1,4-dichlorobenzene	Annual	<10	<10	ug/l			no no
Annual	2,4,5-Trichlorophenol	Annual	<10	<10	ug/l			no no
Annual	2,4-Dinitrotoluene	Annual	<10	<10	ug/l			no no
Annual	2,6-Dinitrotoluene	Annual	<10	<10	ug/l			no no
Annual	2-Chloronaphthalene	Annual	<10	<10	ug/l			no no
Annual	2-Methylnaphthalene	Annual	<10	<10	ug/l			no no
Annual	2-Methylphenol	Annual	<10	<10	ug/l			no no
Annual	2-Nitrophenol	Annual	<10	<10	ug/l			no no
Annual	4-Bromophenyl Phenyl Ether	Annual	<10	<10	ug/l			no no
Annual	4-Chloro-3-methylphenol	Annual	<10	<10	ug/l			no no
Annual	4-Chlorophenyl phenyl ether	Annual	<10	<10	ug/l			no no
Annual	4-Nitrophenol	Annual	<10	<10	ug/l			no no
Annual	Acenaphthene	Annual	<10	<10	ug/l			no no
Annual	Benzo(a)anthracene	Annual	<10	<10	ug/l			no no
Annual	Benzo(a)pyrene	Annual	<10	<10	ug/l			no no
Annual	Benzo(b)fluoranthene	Annual	<10	<10	ug/l			no no
Annual	Benzo(g,h,i)perylene	Annual	<10	<10	ug/l			no no
Annual	Benzyl Butyl Phthalate	Annual	<10	<10	ug/l			no no
Annual	Bis(2-chloroethoxy)methane	Annual	<10	<10	ug/l			no no
Annual	Bis(2-chloroethyl)ether	Annual	<10	<10	ug/l			no no
Annual	Bis(2-chloroisopropyl)ether	Annual	<10	<10	ug/l			no no
Annual	Bis(2-ethylhexyl)phthalate	Annual	<10	<10	ug/l			no no
Annual	Dibenz(a,h)anthracene	Annual	<10	<10	ug/l			no no
Annual	Dibenzofuran	Annual	<10	<10	ug/l			no no
Annual	Diethylphthalate	Annual	<10	<10	ug/l			no no
Annual	di-n-Butylphthalate	Annual	<10	<10	ug/l			no no
Annual	Di-n-octylphthalate	Annual	<10	<10	ug/l			no no
Annual	Diphenylamine	Annual	<10	<10	ug/l			no no
Annual	Hexachloroethane	Annual	<10	<10	ug/l			no no
Annual	Indeno(1,2,3-c,d)pyrene	Annual	<10	<10	ug/l			no no
Annual	Isophorone	Annual	<10	<10	ug/l			no no
Annual	Nitrobenzene	Annual	<10	<10	ug/l			no no
Annual	n-Nitrosodi-n-propylamine	Annual	<10	<10	ug/l			no no
Annual	Acetone	Annual	<10	<10	ug/l			no no
Annual	Dichloromethane	Annual	<10	<10	ug/l			no no
Annual	Tetrahydrofuran	Annual	<10	<10	ug/l			no no
Annual	Toluene	Annual	<10	<10	ug/l		10	no no
Annual	Xylene-o	Annual	<10	<10	ug/l		10	no no
Annual	Dichlorodifluoromethane	Annual	<10	<10	ug/l			no no
Annual	Chloromethane	Annual	<10	<10	ug/l			no no
Annual	Ethyl Chloride/Chloroethane	Annual	<10	<10	ug/l			no no
Annual	Vinyl Chloride	Annual	<10	<10	ug/l			no no
Annual	Bromomethane	Annual	<10	<10	ug/l			no no
Annual	Trichloromonofluoromethane	Annual	<10	<10	ug/l			no no
Annual	Ethyl Ether/Diethyl Ether	Annual	<10	<10	ug/l			no no
Annual	11 Dichloroethene	Annual	<10	<10	ug/l			no no

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Annual	Iodomethane/Methyl Iodide	Annual	<10	<10	ug/l	no	no	
Annual	Carbon Disulphide	Annual	<10	<10	ug/l	no	no	
Annual	Allyl Chloride	Annual	<10	<10	ug/l	no	no	
Annual	Chlormethyl Cyanide/Chloroacetoneitrile	Annual	<10	<10	ug/l	no	no	
Annual	Propanenitrile	Annual	<10	<10	ug/l	no	no	
Annual	Trans-1,2 Dichloroethene	Annual	<10	<10	ug/l	no	no	
Annual	MtBE	Annual	<10	<10	ug/l	no	no	
Annual	1,1-dichloroethane	Annual	<10	<10	ug/l	30	no	no
Annual	2,2-dichloropropane	Annual	<10	<10	ug/l	no	no	
Annual	cis-12 Dichloroethene	Annual	<10	<10	ug/l	no	no	
Annual	2-Butanone	Annual	<10	<10	ug/l	no	no	
Annual	Methyl Acrylate	Annual	<10	<10	ug/l	no	no	
Annual	Bromochloromethane	Annual	<10	<10	ug/l	no	no	
Annual	Methacrylonitrile	Annual	<10	<10	ug/l	no	no	
Annual	1,1,1-trichloroethane	Annual	<10	<10	ug/l	500	no	no
Annual	1-Chlorobutane	Annual	<10	<10	ug/l	no	no	
Annual	Carbon Tetrachloride	Annual	<10	<10	ug/l	no	no	
Annual	11 Dichloropropene	Annual	<10	<10	ug/l	no	no	
Annual	1,2 dicloroethane	Annual	<10	<10	ug/l	no	no	
Annual	1,2-dichloropropane	Annual	<10	<10	ug/l	no	no	
Annual	Dibromomethane	Annual	<10	<10	ug/l	no	no	
Annual	Methyl Methacrylate	Annual	<10	<10	ug/l	no	no	
Annual	13 Dichloropropene,cis	Annual	<10	<10	ug/l	no	no	
Annual	MIBK/4 Methyl 2 Pentanone	Annual	<10	<10	ug/l	no	no	
Annual	13 Dichloropropene,trans	Annual	<10	<10	ug/l	no	no	
Annual	Ethyl Methacrylate	Annual	<10	<10	ug/l	no	no	
Annual	112 Trichloroethane	Annual	<10	<10	ug/l	no	no	
Annual	1,3-dichloropropane	Annual	<10	<10	ug/l	no	no	
Annual	2-Hexanone	Annual	<10	<10	ug/l	no	no	
Annual	1,2-dibromoethane	Annual	<10	<10	ug/l	no	no	
Annual	Chlorobenzene	Annual	<10	<10	ug/l	1	no	no
Annual	1,1,1,2-tetrachloroethane	Annual	<10	<10	ug/l	no	no	
Annual	Ethylbenzene	Annual	<10	<10	ug/l	10	no	no
Annual	Xylene P&M	Annual	<10	<10	ug/l	no	no	
Annual	Styrene	Annual	<10	<10	ug/l	no	no	
Annual	Isopropylbenzene	Annual	<10	<10	ug/l	no	no	
Annual	Bromobenzene	Annual	<10	<10	ug/l	no	no	
Annual	1,1,2,2-tetrachloroethane	Annual	<10	<10	ug/l	no	no	
Annual	1,2,3-trichloropropane	Annual	<10	<10	ug/l	no	no	
Annual	Trans 14 Dichloro 2 Butene, tran	Annual	<10	<10	ug/l	no	no	
Annual	Propylbenzene	Annual	<10	<10	ug/l	no	no	
Annual	2-chlorotoluene	Annual	<10	<10	ug/l	no	no	
Annual	4-chlorotoluene	Annual	<10	<10	ug/l	no	no	
Annual	1,3,5-trimethylbenzene	Annual	<10	<10	ug/l	no	no	
Annual	Tert Butyl Benzene	Annual	<10	<10	ug/l	no	no	
Annual	1,2,4-trimethylbenzene	Annual	<10	<10	ug/l	no	no	
Annual	sec-butylbenzene	Annual	<10	<10	ug/l	no	no	
Annual	P Isopropyltoluene	Annual	<10	<10	ug/l	no	no	

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Annual		N Butyl Benzene		Annual	<10	<10	ug/l			no	no
Annual		1,2-dibromo-3-chloropropane		Annual	<10	<10	ug/l			no	no
Annual		1,2,3-trichlorobenzene		Annual	<10	<10	ug/l			no	no
					7.7						Upward trend in pollutant concentration over last 5 years of monitoring data
Quarterly	96 5D	pH	Meter	Quarterly		7.2			9.5	no	
Quarterly		Temp	Meter	Quarterly	13.9	13.9			25	no	no
Quarterly		Elec.Conductivity	Meter	Quarterly	434	432			1000	no	no
		Chlorides	titration	Quarterly	14.61	14.34	mg/l		250	no	no
Quarterly		Ammoniacal Nitrogen	ISE	Quarterly	0.09	0.042	mg/l			no	no
Annual		Iron		Annual	1525		ug/l		0.2	no	no
Annual		TON		Annual	.05		mg/l		No abnormal change	no	no
Quarterly		TOC	HACH	Quarterly	7.6	3.2	mg/l			no	no
Annual		Cadmium		Annual	<20	<20	ug/l		0.005	no	no
Annual		Chromium (total)		Annual	<20	<20	ug/l		0.03	no	no
Annual		Copper		Annual	<20	<20	ug/l		0.03	no	no
Annual		Cyanide (Total)		Annual	102	102	ug/l		0.01	no	no
Annual		Lead		Annual	<20	<20	ug/l		0.01	no	no
Annual		Magnesium		Annual	9.3	9.3	mg/l		50	no	no
Annual		Manganese		Annual	3595	3595	ug/l		0.05	no	no
Annual		Mercury		Annual	<1	<1	ug/l		0.001	no	no
Annual		Nickle		Annual	<20	<20	ug/l		0.02	no	no
Annual		Potassium		Annual	1.71	1.71	mg/l		5	no	no
Annual		Sulphate		Annual	<2.5	<2.5	mg/l		200	no	no
Annual		Total Alkalinity		Annual	173.8	173.8	mg/l			no	no
Annual		Total Phosphorus		Annual	0.8	0.8	mg/l			no	no
Annual		Phenols		Annual	<10	<10	ug/l		0.5	no	no
Annual		Acenaphthylene		Annual	<10	<10	ug/l			no	no
Annual		Anthracene		Annual	<10	<10	ug/l			no	no
Annual		Benzene		Annual	<10	<10	ug/l		1	no	no
Annual		Bromodichloromethane		Annual	<10	<10	ug/l			no	no
Annual		Bromoform		Annual	<10	<10	ug/l			no	no
Annual		Chloroform		Annual	<10	<10	ug/l		12	no	no
Annual		Chrysene		Annual	<10	<10	ug/l			no	no
Annual		Dibromochloromethane		Annual	<10	<10	ug/l			no	no
Annual		Fluoranthene		Annual	<10	<10	ug/l			no	no
Annual		Fluorene		Annual	<10	<10	ug/l			no	no
Annual		Naphthalene		Annual	<10	<10	ug/l			no	no
Annual		Dibromochloromethane		Annual	<10	<10	ug/l			no	no
Annual		Pentachlorophenol		Annual	<10	<10	ug/l		2	no	no
Annual		Phenanthrene		Annual	<10	<10	ug/l			no	no
Annual		Pyrene		Annual	<10	<10	ug/l			no	no
Annual		Tetrachloroethene		Annual	<10	<10	ug/l			no	no
Annual		Trichloroethene		Annual	<10	<10	ug/l			no	no
Annual		Hexachlorobenzene		Annual	<10	<10	ug/l		0.03	no	no
Annual		Hexachlorobutadiene		Annual	<10	<10	ug/l		0.1	no	no
Annual		2,4,6-Trichlorophenol		Annual	<10	<10	ug/l			no	no
Annual		2,4-Dichlorophenol		Annual	<10	<10	ug/l			no	no

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Annual	2,4-Dimethylphenol	Annual	<10	<10	ug/l	no	no
Annual	2-Chlorophenol	Annual	<10	<10	ug/l	no	no
Annual	1,2,4-trichlorobenzene	Annual	<10	<10	ug/l	no	no
Annual	1,2-dichlorobenzene	Annual	<10	<10	ug/l	no	no
Annual	1,3-dichlorobenzene	Annual	<10	<10	ug/l	no	no
Annual	1,4-dichlorobenzene	Annual	<10	<10	ug/l	no	no
Annual	2,4,5-Trichlorophenol	Annual	<10	<10	ug/l	no	no
Annual	2,4-Dinitrotoluene	Annual	<10	<10	ug/l	no	no
Annual	2,6-Dinitrotoluene	Annual	<10	<10	ug/l	no	no
Annual	2-Chloronaphthalene	Annual	<10	<10	ug/l	no	no
Annual	2-Methylnaphthalene	Annual	<10	<10	ug/l	no	no
Annual	2-Methylphenol	Annual	<10	<10	ug/l	no	no
Annual	2-Nitrophenol	Annual	<10	<10	ug/l	no	no
Annual	4-Bromophenyl Phenyl Ether	Annual	<10	<10	ug/l	no	no
Annual	4-Chloro-3-methylphenol	Annual	<10	<10	ug/l	no	no
Annual	4-Chlorophenyl phenyl ether	Annual	<10	<10	ug/l	no	no
Annual	4-Nitrophenol	Annual	<10	<10	ug/l	no	no
Annual	Acenaphthene	Annual	<10	<10	ug/l	no	no
Annual	Benzo(a)anthracene	Annual	<10	<10	ug/l	no	no
Annual	Benzo(a)pyrene	Annual	<10	<10	ug/l	no	no
Annual	Benzo(b)fluoranthene	Annual	<10	<10	ug/l	no	no
Annual	Benzo(g,h,i)perylene	Annual	<10	<10	ug/l	no	no
Annual	Benzyl Butyl Phthalate	Annual	<10	<10	ug/l	no	no
Annual	Bis(2-chloroethoxy)methane	Annual	<10	<10	ug/l	no	no
Annual	Bis(2-chloroethyl)ether	Annual	<10	<10	ug/l	no	no
Annual	Bis(2-chloroisopropyl)ether	Annual	<10	<10	ug/l	no	no
Annual	Bis(2-ethylhexyl)phthalate	Annual	<10	<10	ug/l	no	no
Annual	Dibenz(a,h)anthracene	Annual	<10	<10	ug/l	no	no
Annual	Dibenzofuran	Annual	<10	<10	ug/l	no	no
Annual	Diethylphthalate	Annual	<10	<10	ug/l	no	no
Annual	di-n-Butylphthalate	Annual	<10	<10	ug/l	no	no
Annual	Di-n-octylphthalate	Annual	<10	<10	ug/l	no	no
Annual	Diphenylamine	Annual	<10	<10	ug/l	no	no
Annual	Hexachloroethane	Annual	<10	<10	ug/l	no	no
Annual	Indeno(1,2,3-c,d)pyrene	Annual	<10	<10	ug/l	no	no
Annual	Isophorone	Annual	<10	<10	ug/l	no	no
Annual	Nitrobenzene	Annual	<10	<10	ug/l	no	no
Annual	n-Nitrosodi-n-propylamine	Annual	<10	<10	ug/l	no	no
Annual	Acetone	Annual	<10	<10	ug/l	no	no
Annual	Dichloromethane	Annual	<10	<10	ug/l	no	no
Annual	Tetrahydrofuran	Annual	<10	<10	ug/l	no	no
Annual	Toluene	Annual	<10	<10	ug/l	10	no
Annual	Xylene-o	Annual	<10	<10	ug/l	10	no
Annual	Dichlorodifluoromethane	Annual	<10	<10	ug/l	no	no
Annual	Chloromethane	Annual	<10	<10	ug/l	no	no
Annual	Ethyl Chloride/Chloroethane	Annual	<10	<10	ug/l	no	no
Annual	Vinyl Chloride	Annual	<10	<10	ug/l	no	no
Annual	Bromomethane	Annual	<10	<10	ug/l	no	no

Groundwater/Soil monitoring template		Lic No: W0002-01		Year 2014				
Annual	Trichloromonofluoromethane	Annual	<10	<10	ug/l	no	no	
Annual	Ethyl Ether/Diethyl Ether	Annual	<10	<10	ug/l	no	no	
Annual	11 Dichloroethene	Annual	<10	<10	ug/l	no	no	
Annual	Iodomethane/Methyl Iodide	Annual	<10	<10	ug/l	no	no	
Annual	Carbon Disulphide	Annual	<10	<10	ug/l	no	no	
Annual	Allyl Chloride	Annual	<10	<10	ug/l	no	no	
Annual	Chlormethyl Cyanide/Chloroacetonitrile	Annual	<10	<10	ug/l	no	no	
Annual	Propanenitrile	Annual	<10	<10	ug/l	no	no	
Annual	Trans-1,2 Dichloroethene	Annual	<10	<10	ug/l	no	no	
Annual	MTBE	Annual	<10	<10	ug/l	no	no	
Annual	1,1-dichloroethane	Annual	<10	<10	ug/l	30	no	no
Annual	2,2-dichloropropane	Annual	<10	<10	ug/l	no	no	
Annual	cis-12 Dichloroethene	Annual	<10	<10	ug/l	no	no	
Annual	2-Butanone	Annual	<10	<10	ug/l	no	no	
Annual	Methyl Acrylate	Annual	<10	<10	ug/l	no	no	
Annual	Bromochloromethane	Annual	<10	<10	ug/l	no	no	
Annual	Methacrylonitrile	Annual	<10	<10	ug/l	no	no	
Annual	1,1,1-trichloroethane	Annual	<10	<10	ug/l	500	no	no
Annual	1-Chlorobutane	Annual	<10	<10	ug/l	no	no	
Annual	Carbon Tetrachloride	Annual	<10	<10	ug/l	no	no	
Annual	11 Dichloropropene	Annual	<10	<10	ug/l	no	no	
Annual	1,2 dichloroethane	Annual	<10	<10	ug/l	no	no	
Annual	1,2-dichloropropane	Annual	<10	<10	ug/l	no	no	
Annual	Dibromomethane	Annual	<10	<10	ug/l	no	no	
Annual	Methyl Methacrylate	Annual	<10	<10	ug/l	no	no	
Annual	13 Dichloropropene,cis	Annual	<10	<10	ug/l	no	no	
Annual	MIBK/4 Methyl 2 Pentanone	Annual	<10	<10	ug/l	no	no	
Annual	13 Dichloropropene,trans	Annual	<10	<10	ug/l	no	no	
Annual	Ethyl Methacrylate	Annual	<10	<10	ug/l	no	no	
Annual	112 Trichloroethane	Annual	<10	<10	ug/l	no	no	
Annual	1,3-dichloropropane	Annual	<10	<10	ug/l	no	no	
Annual	2-Hexanone	Annual	<10	<10	ug/l	no	no	
Annual	1,2-dibromoethane	Annual	<10	<10	ug/l	no	no	
Annual	Chlorobenzene	Annual	<10	<10	ug/l	1	no	no
Annual	1,1,1,2-tetrachloroethane	Annual	<10	<10	ug/l	no	no	
Annual	Ethylbenzene	Annual	<10	<10	ug/l	10	no	no
Annual	Xylene P&M	Annual	<10	<10	ug/l	no	no	
Annual	Styrene	Annual	<10	<10	ug/l	no	no	
Annual	Isopropylbenzene	Annual	<10	<10	ug/l	no	no	
Annual	Bromobenzene	Annual	<10	<10	ug/l	no	no	
Annual	1,1,2,2-tetrachloroethane	Annual	<10	<10	ug/l	no	no	
Annual	1,2,3-trichloropropane	Annual	<10	<10	ug/l	no	no	
Annual	Trans 14 Dichloro 2 Butene, tran	Annual	<10	<10	ug/l	no	no	
Annual	Propylbenzene	Annual	<10	<10	ug/l	no	no	
Annual	2-chlorotoluene	Annual	<10	<10	ug/l	no	no	
Annual	4-chlorotoluene	Annual	<10	<10	ug/l	no	no	
Annual	1,3,5-trimethylbenzene	Annual	<10	<10	ug/l	no	no	
Annual	Tert Butyl Benzene	Annual	<10	<10	ug/l	no	no	

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Annual	1,2,4-trimethylbenzene		Annual	<10	<10	ug/l		no	no	
Annual	sec-butylbenzene		Annual	<10	<10	ug/l		no	no	
Annual	P Isopropyltoluene		Annual	<10	<10	ug/l		no	no	
Annual	N Butyl Benzene		Annual	<10	<10	ug/l		no	no	
Annual	1,2-dibromo-3-chloropropane		Annual	<10	<10	ug/l		no	no	
Annual	1,2,3-trichlorobenzene		Annual	<10	<10	ug/l		no	no	
Quarterly	99 1s	pH	Meter	Quarterly	7.1	7		9.5	no	Upward trend in pollutant concentration over last 5 years of monitoring data
Quarterly		Temp	Meter	Quarterly	13.6	10		25	no	no
Quarterly		Elec. Conductivity	Meter	Quarterly	363	350		1000	no	no
Quarterly		Chlorides	titration	Quarterly	14	13.4	mg/l	250	no	no
Quarterly		Ammoniacal Nitrogen	ISE	Quarterly	7.33	6.12	mg/l		no	no
Annual		Iron		Quarterly	71		ug/l	0.2	no	no
Annual		TON		Quarterly	0.53		mg/l	No abnormal change	no	no
Quarterly		TOC	HACH	Quarterly	3.9	2.8	mg/l		no	no
Annual		Cadmium		Annual	<20	<20	ug/l	0.005	no	no
Annual		Chromium (total)		Annual	<20	<20	ug/l	0.03	no	no
Annual		Copper		Annual	<20	<20	ug/l	0.03	no	no
Annual		Cyanide (Total)		Annual	65	65	ug/l	0.01	no	no
Annual		Lead		Annual	<20	<20	ug/l	0.01	no	no
Annual		Magnesium		Annual	11	11	mg/l	50	no	no
Annual		Manganese		Annual	4458	4458	ug/l	0.05	no	no
Annual		Mercury		Annual	<1	<1	ug/l	0.001	no	no
Annual		Nickle		Annual	<20	<20	ug/l	0.02	no	no
Annual		Potassium		Annual	1.1	1.1	mg/l	5	no	no
Annual		Sulphate		Annual	1.31	1.31	mg/l	200	no	no
Annual		Total Alkalinity		Annual	212.52	212.52	mg/l		no	no
Annual		Total Phosphorus		Annual	0.3	0.3	mg/l		no	no
Annual		Phenols		Annual	<10	<10	ug/l	0.5	no	no
Annual		Acenaphthylene		Annual	<10	<10	ug/l		no	no
Annual		Anthracene		Annual	<10	<10	ug/l		no	no
Annual		Benzene		Annual	<10	<10	ug/l	1	no	no
Annual		Bromodichloromethane		Annual	<10	<10	ug/l		no	no
Annual		Bromoform		Annual	<10	<10	ug/l		no	no
Annual		Chloroform		Annual	<10	<10	ug/l	12	no	no
Annual		Chrysene		Annual	<10	<10	ug/l		no	no
Annual		Dibromochloromethane		Annual	<10	<10	ug/l		no	no
Annual		Fluoranthene		Annual	<10	<10	ug/l		no	no
Annual		Fluorene		Annual	<10	<10	ug/l		no	no
Annual		Naphthalene		Annual	<10	<10	ug/l		no	no
Annual		Dibromochloromethane		Annual	<10	<10	ug/l		no	no
Annual		Pentachlorophenol		Annual	<10	<10	ug/l	2	no	no
Annual		Phenanthrene		Annual	<10	<10	ug/l		no	no
Annual		Pyrene		Annual	<10	<10	ug/l		no	no
Annual		Tetrachloroethene		Annual	<10	<10	ug/l		no	no
Annual		Trichloroethene		Annual	<10	<10	ug/l		no	no
Annual		Hexachlorobenzene		Annual	<10	<10	ug/l	0.03	no	no

Groundwater/Soil monitoring template		Lic No:	W0002-01	Year	2014				
Annual	Hexachlorobutadiene	Annual	<10	<10	ug/l		0.1	no	no
Annual	2,4,6-Trichlorophenol	Annual	<10	<10	ug/l			no	no
Annual	2,4-Dichlorophenol	Annual	<10	<10	ug/l			no	no
Annual	2,4-Dimethylphenol	Annual	<10	<10	ug/l			no	no
Annual	2-Chlorophenol	Annual	<10	<10	ug/l			no	no
Annual	1,2,4-Trichlorobenzene	Annual	<10	<10	ug/l			no	no
Annual	1,2-dichlorobenzene	Annual	<10	<10	ug/l			no	no
Annual	1,3-dichlorobenzene	Annual	<10	<10	ug/l			no	no
Annual	1,4-dichlorobenzene	Annual	<10	<10	ug/l			no	no
Annual	2,4,5-Trichlorophenol	Annual	<10	<10	ug/l			no	no
Annual	2,4-Dinitrotoluene	Annual	<10	<10	ug/l			no	no
Annual	2,6-Dinitrotoluene	Annual	<10	<10	ug/l			no	no
Annual	2-Chloronaphthalene	Annual	<10	<10	ug/l			no	no
Annual	2-Methylnaphthalene	Annual	<10	<10	ug/l			no	no
Annual	2-Methylphenol	Annual	<10	<10	ug/l			no	no
Annual	2-Nitrophenol	Annual	<10	<10	ug/l			no	no
Annual	4-Bromophenyl Phenyl Ether	Annual	<10	<10	ug/l			no	no
Annual	4-Chloro-3-methylphenol	Annual	<10	<10	ug/l			no	no
Annual	4-Chlorophenyl phenyl ether	Annual	<10	<10	ug/l			no	no
Annual	4-Nitrophenol	Annual	<10	<10	ug/l			no	no
Annual	Acenaphthene	Annual	<10	<10	ug/l			no	no
Annual	Benzo(a)anthracene	Annual	<10	<10	ug/l			no	no
Annual	Benzo(a)pyrene	Annual	<10	<10	ug/l			no	no
Annual	Benzo(b)fluoranthene	Annual	<10	<10	ug/l			no	no
Annual	Benzo(g,h,i)perylene	Annual	<10	<10	ug/l			no	no
Annual	Benzyl Butyl Phthalate	Annual	<10	<10	ug/l			no	no
Annual	Bis(2-chloroethoxy)methane	Annual	<10	<10	ug/l			no	no
Annual	Bis(2-chloroethyl)ether	Annual	<10	<10	ug/l			no	no
Annual	Bis(2-chloroisopropyl)ether	Annual	<10	<10	ug/l			no	no
Annual	Bis(2-ethylhexyl)phthalate	Annual	<10	<10	ug/l			no	no
Annual	Dibenz(a,h)anthracene	Annual	<10	<10	ug/l			no	no
Annual	Dibenzofuran	Annual	<10	<10	ug/l			no	no
Annual	Diethylphthalate	Annual	<10	<10	ug/l			no	no
Annual	di-n-Butylphthalate	Annual	<10	<10	ug/l			no	no
Annual	Di-n-octylphthalate	Annual	<10	<10	ug/l			no	no
Annual	Diphenylamine	Annual	<10	<10	ug/l			no	no
Annual	Hexachloroethane	Annual	<10	<10	ug/l			no	no
Annual	Indeno(1,2,3-c,d)pyrene	Annual	<10	<10	ug/l			no	no
Annual	Isophorone	Annual	<10	<10	ug/l			no	no
Annual	Nitrobenzene	Annual	<10	<10	ug/l			no	no
Annual	n-Nitrosodi-n-propylamine	Annual	<10	<10	ug/l			no	no
Annual	Acetone	Annual	<10	<10	ug/l			no	no
Annual	Dichloromethane	Annual	<10	<10	ug/l			no	no
Annual	Tetrahydrofuran	Annual	<10	<10	ug/l			no	no
Annual	Toluene	Annual	<10	<10	ug/l		10	no	no
Annual	Xylene -o	Annual	<10	<10	ug/l		10	no	no
Annual	Dichlorodifluoromethane	Annual	<10	<10	ug/l			no	no
Annual	Chloromethane	Annual	<10	<10	ug/l			no	no

Groundwater/Soil monitoring template		Lic No: W0002-01		Year 2014				
Annual	Ethyl Chloride/Chloroethane	Annual	<10	<10	ug/l	no	no	
Annual	Vinyl Chloride	Annual	<10	<10	ug/l	no	no	
Annual	Bromomethane	Annual	<10	<10	ug/l	no	no	
Annual	Trichloromonofluoromethane	Annual	<10	<10	ug/l	no	no	
Annual	Ethyl Ether/Diethyl Ether	Annual	<10	<10	ug/l	no	no	
Annual	1,1-Dichloroethene	Annual	<10	<10	ug/l	no	no	
Annual	Iodomethane/Methyl Iodide	Annual	<10	<10	ug/l	no	no	
Annual	Carbon Disulphide	Annual	<10	<10	ug/l	no	no	
Annual	Allyl Chloride	Annual	<10	<10	ug/l	no	no	
Annual	Chlormethyl Cyanide/Chloroacetonitrile	Annual	<10	<10	ug/l	no	no	
Annual	Propanenitrile	Annual	<10	<10	ug/l	no	no	
Annual	Trans-1,2 Dichloroethene	Annual	<10	<10	ug/l	no	no	
Annual	MTBE	Annual	<10	<10	ug/l	no	no	
Annual	1,1-dichloroethane	Annual	<10	<10	ug/l	30	no	no
Annual	2,2-dichloropropane	Annual	<10	<10	ug/l	no	no	
Annual	cis-1,2 Dichloroethene	Annual	<10	<10	ug/l	no	no	
Annual	2-Butanone	Annual	<10	<10	ug/l	no	no	
Annual	Methyl Acrylate	Annual	<10	<10	ug/l	no	no	
Annual	Bromochloromethane	Annual	<10	<10	ug/l	no	no	
Annual	Methacrylonitrile	Annual	<10	<10	ug/l	no	no	
Annual	1,1,1-trichloroethane	Annual	<10	<10	ug/l	500	no	no
Annual	1-Chlorobutane	Annual	<10	<10	ug/l	no	no	
Annual	Carbon Tetrachloride	Annual	<10	<10	ug/l	no	no	
Annual	1,1-Dichloropropene	Annual	<10	<10	ug/l	no	no	
Annual	1,2-dichloroethane	Annual	<10	<10	ug/l	no	no	
Annual	1,2-dichloropropane	Annual	<10	<10	ug/l	no	no	
Annual	Dibromomethane	Annual	<10	<10	ug/l	no	no	
Annual	Methyl Methacrylate	Annual	<10	<10	ug/l	no	no	
Annual	1,3-Dichloropropene,cis	Annual	<10	<10	ug/l	no	no	
Annual	MIBK/4 Methyl 2 Pentanone	Annual	<10	<10	ug/l	no	no	
Annual	1,3-Dichloropropene,trans	Annual	<10	<10	ug/l	no	no	
Annual	Ethyl Methacrylate	Annual	<10	<10	ug/l	no	no	
Annual	1,1,1-Trichloroethane	Annual	<10	<10	ug/l	no	no	
Annual	1,3-dichloropropane	Annual	<10	<10	ug/l	no	no	
Annual	2-Hexanone	Annual	<10	<10	ug/l	no	no	
Annual	1,2-dibromoethane	Annual	<10	<10	ug/l	no	no	
Annual	Chlorobenzene	Annual	<10	<10	ug/l	1	no	no
Annual	1,1,1,2-tetrachloroethane	Annual	<10	<10	ug/l	no	no	
Annual	Ethylbenzene	Annual	<10	<10	ug/l	10	no	no
Annual	Xylene P&M	Annual	<10	<10	ug/l	no	no	
Annual	Styrene	Annual	<10	<10	ug/l	no	no	
Annual	Isopropylbenzene	Annual	<10	<10	ug/l	no	no	
Annual	Bromobenzene	Annual	<10	<10	ug/l	no	no	
Annual	1,1,2,2-tetrachloroethane	Annual	<10	<10	ug/l	no	no	
Annual	1,2,3-trichloropropane	Annual	<10	<10	ug/l	no	no	
Annual	Trans 1,2 Dichloro 2 Butene, tran	Annual	<10	<10	ug/l	no	no	
Annual	Propylbenzene	Annual	<10	<10	ug/l	no	no	

Groundwater/Soil monitoring template				Lic No: W0002-01		Year 2014					
Annual		2-chlorotoluene		Annual	<10	<10	ug/l			no	no
Annual		4-chlorotoluene		Annual	<10	<10	ug/l			no	no
Annual		1,3,5-trimethylbenzene		Annual	<10	<10	ug/l			no	no
Annual		Tert Butyl Benzene		Annual	<10	<10	ug/l			no	no
Annual		1,2,4-trimethylbenzene		Annual	<10	<10	ug/l			no	no
Annual		sec-butylbenzene		Annual	<10	<10	ug/l			no	no
Annual		P Isopropyltoluene		Annual	<10	<10	ug/l			no	no
Annual		N Butyl Benzene		Annual	<10	<10	ug/l			no	no
Annual		1,2-dibromo-3-chloropropane		Annual	<10	<10	ug/l			no	no
Annual		1,2,3-trichlorobenzene		Annual	<10	<10	ug/l			no	no
Quarterly	99 1D	pH	Meter	Quarterly	7.1	7				9.5	no data
Quarterly		Temp	Meter	Quarterly	13.5	9				25	no no
Quarterly		Elec. Conductivity	Meter	Quarterly	404	306				1000	no no
Quarterly		Chlorides	titration	Quarterly	15.23	14.26	mg/l			250	no no
Quarterly		Ammoniacal Nitrogen	ISE	Quarterly	1.53	0.54	mg/l				no no
Annual		Iron		Annual	15.1		ug/l			0.2	no no
Annual		TON		Annual	0.78		mg/l		No abnormal change		no no
Quarterly		TOC	HACH	Quarterly	4.4	2	mg/l				no no
Annual		Cadmium		Annual	<20	<20	ug/l			0.005	no no
Annual		Chromium (total)		Annual	<20	<20	ug/l			0.03	no no
Annual		Copper		Annual	<20	<20	ug/l			0.03	no no
Annual		Cyanide (Total)		Annual	97	97	ug/l			0.01	no no
Annual		Lead		Annual	<20	<20	ug/l			0.01	no no
Annual		Magnesium		Annual	6.64	6.64	mg/l			50	no no
Annual		Manganese		Annual	2609	2609	ug/l			0.05	no no
Annual		Mercury		Annual	<1	<1	ug/l			0.001	no no
Annual		Nickle		Annual	<20	<20	ug/l			0.02	no no
Annual		Potassium		Annual	1.01	1.01	mg/l			5	no no
Annual		Sulphate		Annual	<2.5	<2.5	mg/l			200	no no
Annual		Total Alkalinity		Annual	286.03	286.03	mg/l				no no
Annual		Total Phosphorus		Annual	1.07	1.07	mg/l				no no
Annual		Phenols		Annual	<10	<10	ug/l			0.5	no no
Annual		Acenaphthylene		Annual	<10	<10	ug/l				no no
Annual		Anthracene		Annual	<10	<10	ug/l				no no
Annual		Benzene		Annual	<10	<10	ug/l			1	no no
Annual		Bromodichloromethane		Annual	<10	<10	ug/l				no no
Annual		Bromoform		Annual	<10	<10	ug/l				no no
Annual		Chloroform		Annual	<10	<10	ug/l			12	no no
Annual		Chrysene		Annual	<10	<10	ug/l				no no
Annual		Dibromochloromethane		Annual	<10	<10	ug/l				no no
Annual		Fluoranthene		Annual	<10	<10	ug/l				no no
Annual		Fluorene		Annual	<10	<10	ug/l				no no
Annual		Naphthalene		Annual	<10	<10	ug/l				no no
Annual		Dibromochloromethane		Annual	<10	<10	ug/l				no no
Annual		Pentachlorophenol		Annual	<10	<10	ug/l			2	no no
Annual		Phenanthrene		Annual	<10	<10	ug/l				no no

Upward trend in pollutant concentration over last 5 years of monitoring

Groundwater/Soil monitoring template		Lic No:	W0002-01	Year	2014			
Annual	Pyrene	Annual	<10	<10	ug/l			no no
Annual	Tetrachloroethene	Annual	<10	<10	ug/l			no no
Annual	Trichloroethene	Annual	<10	<10	ug/l			no no
Annual	Hexachlorobenzene	Annual	<10	<10	ug/l	0.03		no no
Annual	Hexachlorobutadiene	Annual	<10	<10	ug/l	0.1		no no
Annual	2,4,6-Trichlorophenol	Annual	<10	<10	ug/l			no no
Annual	2,4-Dichlorophenol	Annual	<10	<10	ug/l			no no
Annual	2,4-Dimethylphenol	Annual	<10	<10	ug/l			no no
Annual	2-Chlorophenol	Annual	<10	<10	ug/l			no no
Annual	1,2,4-trichlorobenzene	Annual	<10	<10	ug/l			no no
Annual	1,2-dichlorobenzene	Annual	<10	<10	ug/l			no no
Annual	1,3-dichlorobenzene	Annual	<10	<10	ug/l			no no
Annual	1,4-dichlorobenzene	Annual	<10	<10	ug/l			no no
Annual	2,4,5-Trichlorophenol	Annual	<10	<10	ug/l			no no
Annual	2,4-Dinitrotoluene	Annual	<10	<10	ug/l			no no
Annual	2,6-Dinitrotoluene	Annual	<10	<10	ug/l			no no
Annual	2-Chloronaphthalene	Annual	<10	<10	ug/l			no no
Annual	2-Methylnaphthalene	Annual	<10	<10	ug/l			no no
Annual	2-Methylphenol	Annual	<10	<10	ug/l			no no
Annual	2-Nitrophenol	Annual	<10	<10	ug/l			no no
Annual	4-Bromophenyl Phenyl Ether	Annual	<10	<10	ug/l			no no
Annual	4-Chloro-3-methylphenol	Annual	<10	<10	ug/l			no no
Annual	4-Chlorophenyl phenyl ether	Annual	<10	<10	ug/l			no no
Annual	4-Nitrophenol	Annual	<10	<10	ug/l			no no
Annual	Acenaphthene	Annual	<10	<10	ug/l			no no
Annual	Benzo(a)anthracene	Annual	<10	<10	ug/l			no no
Annual	Benzo(a)pyrene	Annual	<10	<10	ug/l			no no
Annual	Benzo(b)fluoranthene	Annual	<10	<10	ug/l			no no
Annual	Benzo(g,h,i)perylene	Annual	<10	<10	ug/l			no no
Annual	Benzyl Butyl Phthalate	Annual	<10	<10	ug/l			no no
Annual	Bis(2-chloroethoxy)methane	Annual	<10	<10	ug/l			no no
Annual	Bis(2-chloroethyl)ether	Annual	<10	<10	ug/l			no no
Annual	Bis(2-chloroisopropyl)ether	Annual	<10	<10	ug/l			no no
Annual	Bis(2-ethylhexyl)phthalate	Annual	<10	<10	ug/l			no no
Annual	Dibenz(a,h)anthracene	Annual	<10	<10	ug/l			no no
Annual	Dibenzofuran	Annual	<10	<10	ug/l			no no
Annual	Diethylphthalate	Annual	<10	<10	ug/l			no no
Annual	di-n-Butylphthalate	Annual	<10	<10	ug/l			no no
Annual	Di-n-octylphthalate	Annual	<10	<10	ug/l			no no
Annual	Diphenylamine	Annual	<10	<10	ug/l			no no
Annual	Hexachloroethane	Annual	<10	<10	ug/l			no no
Annual	Indeno(1,2,3-c,d)pyrene	Annual	<10	<10	ug/l			no no
Annual	Isophorone	Annual	<10	<10	ug/l			no no
Annual	Nitrobenzene	Annual	<10	<10	ug/l			no no
Annual	n-Nitrosodi-n-propylamine	Annual	<10	<10	ug/l			no no
Annual	Acetone	Annual	<10	<10	ug/l			no no
Annual	Dichloromethane	Annual	<10	<10	ug/l			no no
Annual	Tetrahydrofuran	Annual	<10	<10	ug/l			no no
Annual	Toluene	Annual	<10	<10	ug/l	10		no no

Groundwater/Soil monitoring template		Lic No:	W0002-01	Year	2014		
Annual	Xylene -o	Annual	<10	<10	ug/l	10	no no
Annual	Dichlorodifluoromethane	Annual	<10	<10	ug/l		no no
Annual	Chloromethane	Annual	<10	<10	ug/l		no no
Annual	Ethyl Chloride/Chloroethane	Annual	<10	<10	ug/l		no no
Annual	Vinyl Chloride	Annual	<10	<10	ug/l		no no
Annual	Bromomethane	Annual	<10	<10	ug/l		no no
Annual	Trichloromonofluoromethane	Annual	<10	<10	ug/l		no no
Annual	Ethyl Ether/Diethyl Ether	Annual	<10	<10	ug/l		no no
Annual	1,1 Dichloroethene	Annual	<10	<10	ug/l		no no
Annual	Iodomethane/Methyl Iodide	Annual	<10	<10	ug/l		no no
Annual	Carbon Disulphide	Annual	<10	<10	ug/l		no no
Annual	Allyl Chloride	Annual	<10	<10	ug/l		no no
Annual	Chlormethyl Cyanide/Chloroacetoneitrile	Annual	<10	<10	ug/l		no no
Annual	Propanenitrile	Annual	<10	<10	ug/l		no no
Annual	Trans-1,2 Dichloroethene	Annual	<10	<10	ug/l		no no
Annual	MTBE	Annual	<10	<10	ug/l		no no
Annual	1,1-dichloroethane	Annual	<10	<10	ug/l	30	no no
Annual	2,2-dichloropropane	Annual	<10	<10	ug/l		no no
Annual	cis-1,2 Dichloroethene	Annual	<10	<10	ug/l		no no
Annual	2-Butanone	Annual	<10	<10	ug/l		no no
Annual	Methyl Acrylate	Annual	<10	<10	ug/l		no no
Annual	Bromochloromethane	Annual	<10	<10	ug/l		no no
Annual	Methacrylonitrile	Annual	<10	<10	ug/l		no no
Annual	1,1,1-trichloroethane	Annual	<10	<10	ug/l	500	no no
Annual	1-Chlorobutane	Annual	<10	<10	ug/l		no no
Annual	Carbon Tetrachloride	Annual	<10	<10	ug/l		no no
Annual	1,1 Dichloropropene	Annual	<10	<10	ug/l		no no
Annual	1,2 dichloroethane	Annual	<10	<10	ug/l		no no
Annual	1,2-dichloropropane	Annual	<10	<10	ug/l		no no
Annual	Dibromomethane	Annual	<10	<10	ug/l		no no
Annual	Methyl Methacrylate	Annual	<10	<10	ug/l		no no
Annual	1,3 Dichloropropene,cis	Annual	<10	<10	ug/l		no no
Annual	MIBK/4 Methyl 2 Pentanone	Annual	<10	<10	ug/l		no no
Annual	1,3 Dichloropropene,trans	Annual	<10	<10	ug/l		no no
Annual	Ethyl Methacrylate	Annual	<10	<10	ug/l		no no
Annual	1,1,2 Trichloroethane	Annual	<10	<10	ug/l		no no
Annual	1,3-dichloropropane	Annual	<10	<10	ug/l		no no
Annual	2-Hexanone	Annual	<10	<10	ug/l		no no
Annual	1,2-dibromoethane	Annual	<10	<10	ug/l		no no
Annual	Chlorobenzene	Annual	<10	<10	ug/l	1	no no
Annual	1,1,1,2-tetrachloroethane	Annual	<10	<10	ug/l		no no
Annual	Ethylbenzene	Annual	<10	<10	ug/l	10	no no
Annual	Xylene P&M	Annual	<10	<10	ug/l		no no
Annual	Styrene	Annual	<10	<10	ug/l		no no
Annual	Isopropylbenzene	Annual	<10	<10	ug/l		no no
Annual	Bromobenzene	Annual	<10	<10	ug/l		no no
Annual	1,1,2,2-tetrachloroethane	Annual	<10	<10	ug/l		no no
Annual	1,2,3-trichloropropane	Annual	<10	<10	ug/l		no no

Environmental Liabilities template

Lic No:

W0002-01

Year

2014

[Click here to access EPA guidance on Environmental Liabilities and Financial provision](#)

		Commentary	
1	ELRA initial agreement status	SELECT	
2	ELRA review status	SELECT	
3	Amount of Financial Provision cover required as determined by the latest ELRA	Specify	
4	Financial Provision for ELRA status	SELECT	
5	Financial Provision for ELRA - amount of cover	Specify	
6	Financial Provision for ELRA - type	SELECT	
7	Financial provision for ELRA expiry date	Enter expiry date	
8	Closure plan initial agreement status	SELECT	
9	Closure plan review status	SELECT	
10	Financial Provision for Closure status	SELECT	
11	Financial Provision for Closure - amount of cover	Specify	
12	Financial Provision for Closure - type	SELECT	
13	Financial provision for Closure expiry date	Enter expiry date	

Environmental Management Programme/Continuous Improvement Programme template	Lic No:	W0002-01	Year	2014
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	Highlighted cells contain dropdown menu click to view	Additional Information
1	Do you maintain an Environmental Mangement System (EMS) for the site. If yes, please detail in additional information	No n/a
2	Does the EMS reference the most significant environmental aspects and associated impacts on-site	SELECT
3	Does the EMS maintain an Environmental Management Programme (EMP) as required in accordance with the licence requirements	SELECT
4	Do you maintain an environmental documentation/communication system to inform the public on environmental performance of the facility, as required by the licence	SELECT

Environmental Management Programme (EMP) report

Objective Category	Target	Status (% completed)	How target was progressed	Responsibility	Intermediate outcomes
SELECT		SELECT		SELECT	SELECT
SELECT		SELECT		SELECT	SELECT
SELECT		SELECT		SELECT	SELECT

Noise monitoring summary report	Lic No: W0002-01	Year	2014
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1 Was noise monitoring a licence requirement for the AER period?

If yes please fill in table N1 noise summary below

2 Was noise monitoring carried out using the EPA Guidance note including completion of the "Checklist for noise measurement report" included in the guidance note as table 6?

[Noise Guidance note NG4](#)

3 Does your site have a noise reduction plan

4 When was the noise reduction plan last updated?

5 Have there been changes relevant to site noise emissions (e.g. plant or operational changes) since the last noise survey?

Table N1: Noise monitoring summary

Date of monitoring	Time period	Noise location (on site)	Noise sensitive location -NSL (if applicable)	LA _{eq}	LA ₉₀	LA ₁₀	LA _{max}	Tonal or Impulsive noise* (Y/N)	If tonal /impulsive noise was identified was 5dB penalty applied?	Comments (ex. main noise sources on site, & extraneous noise ex. road traffic)	Is <u>site</u> compliant with noise limits (day/evening/night)?
								SELECT	SELECT		SELECT

*Please ensure that a tonal analysis has been carried out as per guidance note NG4. These records must be maintained onsite for future inspection

If noise limits exceeded as a result of noise attributed to site activities, please choose the corrective action from the following options?

** please explain the reason for not taking action/resolution of noise issues?

Any additional comments? (less than 200 words)

Resource Usage/Energy efficiency summary

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Additional information

- 1 When did the site carry out the most recent energy efficiency audit? Please list the recommendations in table 3 below
- Is the site a member of any accredited programmes for reducing energy usage/water conservation such as the SEAI programme linked to the right? If yes please list them in additional information
- 2 Where Fuel Oil is used in boilers on site is the sulphur content compliant with licence conditions? Please state percentage in additional information
- 3

[SEAI - Large](#)[Industry Energy](#)[Network \(LIEN\)](#)

SELECT	
SELECT	

Table R1 Energy usage on site

Energy Use	Previous year	Current year	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*
Total Energy Used (MWHrs)				
Total Energy Generated (MWHrs)				
Total Renewable Energy Generated (MWHrs)				
Electricity Consumption (MWHrs)				
Fossil Fuels Consumption:				
Heavy Fuel Oil (m3)				
Light Fuel Oil (m3)				
Natural gas (CMN)				
Coal/Solid fuel (metric tonnes)				
Peat (metric tonnes)				
Renewable Biomass				
Renewable energy generated on site				

* where consumption of energy can be compared to overall site production please enter this information as percentage increase or decrease compared to the previous reporting year.

** where site production information is available please enter percentage increase or decrease compared to previous year

Table R2 Water usage on site

Water use	Water extracted Previous year m3/yr.	Water extracted Current year m3/yr.	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*	Water Emissions	Water Consumption	Unaccounted for Water:
					Volume Discharged back to environment(m ³ /yr):	Volume used i.e not discharged to environment e.g. released as steam m3/yr	
Groundwater							
Surface water							
Public supply							
Recycled water							
Total							

* where consumption of water can be compared to overall site production please enter this information as percentage increase or decrease compared to the previous reporting year.

** where site production information is available please enter percentage increase or decrease compared to previous year

Table R3 Waste Stream Summary

	Total	Landfill	Incineration	Recycled	Other
Hazardous (Tonnes)					
Non-Hazardous (Tonnes)					

Resource Usage/Energy efficiency summary

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Table R4: Energy Audit finding recommendations								
Date of audit	Recommendations	Description of Measures proposed	Origin of measures	Predicted energy savings %	Implementation date	Responsibility	Completion date	Status and comments
			SELECT					
			SELECT					
			SELECT					

Table R5: Power Generation: Where power is generated onsite (e.g. power generation facilities/food and drink industry) please complete the following information

	Unit ID	Unit ID	Unit ID	Unit ID	Station Total
Technology					
Primary Fuel					
Thermal Efficiency					
Unit Date of Commission					
Total Starts for year					
Total Running Time					
Total Electricity Generated (GWH)					
House Load (GWH)					
KWH per Litre of Process Water					
KWH per Litre of Total Water used on Site					

WASTE SUMMARY	Lic No:	W0002-01	Year	2014
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Table 4 Environmental monitoring-landfill only [Landfill Manual-Monitoring Standards](#)

Was meteorological monitoring in compliance with Landfill Directive (LD) standard in reporting year +	Was leachate monitored in compliance with LD standard in reporting year	Was Landfill Gas monitored in compliance with LD standard in reporting year	Was SW monitored in compliance with LD standard in reporting year	Have GW trigger levels been established	Were emission limit values agreed with the Agency (ELVs)	Was topography of the site surveyed in reporting year	Has the statement under S53(A)(5) of WMA been submitted in reporting year	Comments

+.+ please refer to Landfill Manual linked above for relevant Landfill Directive monitoring standards

Table 5 Capping-Landfill only

Area uncapped*	Area with temporary cap	Area with final cap to LD Standard m2 ha, a	Area capped other	Area with waste that should be permanently capped to date under licence	What materials are used in the cap	Comments
SELECT UNIT	SELECT UNIT					

*please note this includes daily cover area

Table 6 Leachate-Landfill only

9 Is leachate from your site treated in a Waste Water Treatment Plant?

SELECT
SELECT

10 Is leachate released to surface water? If yes please complete leachate mass load information below

Volume of leachate in reporting year(m3)	Leachate (BOD) mass load (kg/annum)	Leachate (COD) mass load (kg/annum)	Leachate (NH4) mass load (kg/annum)	Leachate (Chloride) mass load kg/annum	Leachate treatment on-site	Specify type of leachate treatment	Comments

Please ensure that all information reported in the landfill gas section is consistent with the Landfill Gas Survey submitted in conjunction with PRTR returns

Table 7 Landfill Gas-Landfill only

Gas Captured&Treated by LFG System m3	Power generated (MW / KWh)	Used on-site or to national grid	Was surface emissions monitoring performed during the reporting year?	Comments
			SELECT	