

SELECT

cells that are highlighted blue contain a dropdown menu click to select one option from the list

[guidance document link](#)

cells that contain underlined text click to access relevant guidance documents for this section

Table heading *

table headings followed by a symbol have an associated footnote or instructions

Cells with red indicator in top right corner

cells that have a red indicator in the top right corner contain a comment box with further instructions or clarification

Facility Information Summary

Licence Register Number
 Name of site
 Site Location
 NACE Code

 Class of Activity
 RBME risk category
 National Grid Reference (6E, 6 N)

W0151-01
Murphy Environmental Gormanston
Sarsfieldstown, Gormanston, Co. Meath
As W0151-01: Third Schudule, Classes 1 and 13; Fourth Schedule, Classes 3, 4, 13
C2
E315746, N268399

Land Restoration - Using clean construction and demolition waste - Soil & Stones, Concrete, and other compatible C&D materials, in line with licence requirements, as available. It has been agreed with the Agency that W0151-01 is a recovery activity. Other inert C&D waste recovery.

A brief description of the activities/process at the site for the reporting year. This should include information such as production increases or decreases on site, any infrastructural changes, environmental performance improvements which were measured during the reporting year;

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.

Louise O'Donnell*	25/04/2012
Signature	Date
Group/Facility manager	
(or nominated, suitably qualified and experienced deputy)	

* Environmental Consultant, Patel Tonra Ltd.

AER summary template-AIR emissions

1 Does your site have licensed air emissions? If yes please complete table 1, 2 and 3 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 5 and 6) you only need to complete table 1 fugitive emissions on site below

Additional information	
No	

Table 1 Fugitive emissions

Parameter /Substance	Annual fugitive emission (kg/annum)	Quantificaton method M/C/E
Dust	<ELV	M

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 Table 2 below

No	All results significantly below Emission Limit Value
Not applicable	No stack emissions. Standard method applied for dust monitoring, as specified in W0129-02

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](#)

Table 2: Licensed Mass Emissions/Ambient data-periodic monitoring (non-continuous)

Emission reference no:	Parameter/ Substance	Date of Monitoring	ELV in licence or any revision therof	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence limit	Method of analysis	Annual mass load (kg)	% change in mass load from previous year +/-	Comments
	SELECT			SELECT		SELECT	SELECT	SELECT			
D1	Dust	23/02/2011 to 25/03/2011	350	100 % of values < ELV	24	mg/m2/day	yes	VDI 2119	Not applicable	Not applicable	
D1	Dust	23/02/2011 to 25/03/2011	350	100 % of values < ELV	149	mg/m2/day	yes	VDI 2119	Not applicable	Not applicable	
D2	Dust	23/02/2011 to 25/03/2011	350	100 % of values < ELV	30	mg/m2/day	yes	VDI 2119	Not applicable	Not applicable	
D2	Dust	23/02/2011 to 25/03/2011	350	100 % of values < ELV	8	mg/m2/day	yes	VDI 2119	Not applicable	Not applicable	
	SELECT			SELECT		SELECT	SELECT	SELECT			

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

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)

SELECT	NOT APPLICABLE
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AER summary template-AIR emissions

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

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

SELECT	
--------	--

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

SELECT	
--------	--

Table 3: 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)	% compliance current reporting year	Comments
NOT APPLICABLE	SELECT			SELECT	SELECT					

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

Table 4: Abatement system bypass reporting table

[Bypass protocol](#)

Date*	Duration** (hours)	Location	Reason for bypass	Corrective action
NOT APPLICABLE				

* 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

AER summary template-AIR emissions

8 Do you have a total Emission Limit Value of direct and fugitive emissions on site? if yes please fill out table 5

SELECT	NOT APPLICABLE
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Table 5: Solvent Management Plan Summary		<u>Solvent regulations</u> Please refer to linked solvent regulations to complete table 5 and 6			
Total VOC Emission limit value					
Reporting year	Total solvent input on site (kg)	Total VOC emissions to Air from entire site (direct and fugitive)	Total VOC emissions as %of solvent input	Total Emission Limit Value (ELV) in licence or any revision therof	Compliance
NOT APPLICABLE					SELECT
					SELECT

Table 6: Solvent Mass Balance summary								
	(I) Inputs (kg)	(O) Outputs (kg)						
Solvent	(I) Inputs (kg)	Organic solvent emission in waste gases(kg)	Solvents lost in water (kg)	Collected waste solvent (kg)	Fugitive Organic Solvent (kg)	Solvent released in other ways e.g. by-passes (kg)	Solvents destroyed onsite through physical reaction e.g. incineration(kg)	Total emission of Solvent to air (kg)
NOT APPLICABLE								
							Total	

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)

1 Does your site have licensed emissions direct to surface water or direct to sewer? If yes please complete table 3 and 4 below for the current reporting year and answer further questions. If **you do not have** licensed emissions you only need to complete table 1 and /table 2 below for ambient monitoring and visual inspections

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 2 below summarising only any evidence of contamination noted during visual inspections

Additional information

No	
Yes	

Table 1 Ambient 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
	SELECT	SELECT	SELECT			SELECT		SELECT	SELECT	
ST-1	upstream		Alkalinity, Total	22/09/11 28/11/11 20/12/11	Not applicable	Not applicable	120.00	mg/l	Not applicable	
ST-1	upstream		Ammoniacal Nitrogen	22/09/11 28/11/11 20/12/11	Not applicable	Not applicable	0.38	mg/l	Not applicable	
ST-1	upstream		BOD	22/09/11 28/11/11 20/12/11	Not applicable	Not applicable	3.00	mg/l	Not applicable	
ST-1	upstream		Boron	22/09/11 28/11/11 20/12/11	Not applicable	Not applicable	0.02	mg/l	Not applicable	
ST-1	upstream		Cadmium	22/09/11 28/11/11 20/12/11	Not applicable	Not applicable	<0.005	mg/l	Not applicable	
ST-1	upstream		Calcium	22/09/11 28/11/11 20/12/11	Not applicable	Not applicable	96.90	mg/l	Not applicable	
ST-1	upstream		Chloride	22/09/11 28/11/11 20/12/11	Not applicable	Not applicable	2377.00	mg/l	Not applicable	
ST-1	upstream		Chromium, Total	22/09/11 28/11/11 20/12/11	Not applicable	Not applicable	<0.015	mg/l	Not applicable	
ST-1	upstream		COD	22/09/11 28/11/11 20/12/11	Not applicable	Not applicable	52.00	mg/l	Not applicable	
ST-1	upstream		Colour	22/09/11 28/11/11 20/12/11	Not applicable	Not applicable	Black	N/A	Not applicable	
ST-1	upstream		Conductivity	22/09/11 28/11/11 20/12/11	Not applicable	Not applicable	0.74	mS/cm	Not applicable	
ST-1	upstream		Copper	22/09/11 28/11/11 20/12/11	Not applicable	Not applicable	0.09	mg/l	Not applicable	
ST-1	upstream		Cyanide, Total	22/09/11 28/11/11 20/12/11	Not applicable	Not applicable	0.08	mg/l	Not applicable	
ST-1	upstream		Dissolved Oxygen	22/09/11 28/11/11 20/12/11	Not applicable	Not applicable	1.30	mg/l	Not applicable	
ST-1	upstream		Iron	22/09/11 28/11/11 20/12/11	Not applicable	Not applicable	0.02	mg/l	Not applicable	
ST-1	upstream		Lead	22/09/11 28/11/11 20/12/11	Not applicable	Not applicable	<0.005	mg/l	Not applicable	
ST-1	upstream		Magnesium	22/09/11 28/11/11 20/12/11	Not applicable	Not applicable	9.20	mg/l	Not applicable	

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)

ST-1	upstream		Manganese	22/09/11 28/11/11 20/12/11	Not applicable	Not applicable	0.32	mg/l	Not applicable	
ST-1	upstream		Nickel	22/09/11 28/11/11 20/12/11	Not applicable	Not applicable	<0.002	mg/l	Not applicable	
ST-1	upstream		Odour	22/09/11 28/11/11 20/12/11	Not applicable	Not applicable	None	N/A	Not applicable	
ST-1	upstream		Orthophosphates	22/09/11 28/11/11 20/12/11	Not applicable	Not applicable	<0.06	mg/l	Not applicable	
ST-1	upstream		pH	22/09/11 28/11/11 20/12/11	Not applicable	Not applicable	7.20	pH units	Not applicable	
ST-1	upstream		Phosphorus, Total	22/09/11 28/11/11 20/12/11	Not applicable	Not applicable	0.13	mg/l	Not applicable	
ST-1	upstream		Potassium	22/09/11 28/11/11 20/12/11	Not applicable	Not applicable	7.60	mg/l	Not applicable	
ST-1	upstream		Sodium	22/09/11 28/11/11 20/12/11	Not applicable	Not applicable	1408.00	mg/l	Not applicable	
ST-1	upstream		Sulphate	22/09/11 28/11/11 20/12/11	Not applicable	Not applicable	35.09	mg/l	Not applicable	
ST-1	upstream		Suspended Solids, Total	22/09/11 28/11/11 20/12/11	Not applicable	Not applicable	17.00	mg/l	Not applicable	
ST-1	upstream		Temperature	22/09/11 28/11/11 20/12/11	Not applicable	Not applicable	9.90	°C	Not applicable	
ST-1	upstream		Zinc	22/09/11 28/11/11 20/12/11	Not applicable	Not applicable	0.04	mg/l	Not applicable	
ST-2	upstream		Alkalinity, Total	22/09/11 28/11/11 20/12/11	Not applicable	Not applicable	268.00	mg/l	Not applicable	
ST-2	upstream		Ammoniacal Nitrogen	22/09/11 28/11/11 20/12/11	Not applicable	Not applicable	0.16	mg/l	Not applicable	
ST-2	upstream		BOD	22/09/11 28/11/11 20/12/11	Not applicable	Not applicable	1.00	mg/l	Not applicable	
ST-2	upstream		Boron	22/09/11 28/11/11 20/12/11	Not applicable	Not applicable	0.01	mg/l	Not applicable	
ST-2	upstream		Cadmium	22/09/11 28/11/11 20/12/11	Not applicable	Not applicable	<0.0005	mg/l	Not applicable	
ST-2	upstream		Calcium	22/09/11 28/11/11 20/12/11	Not applicable	Not applicable	117.20	mg/l	Not applicable	
ST-2	upstream		Chloride	22/09/11 28/11/11 20/12/11	Not applicable	Not applicable	39.20	mg/l	Not applicable	
ST-2	upstream		Chromium, Total	22/09/11 28/11/11 20/12/11	Not applicable	Not applicable	<0.0015	mg/l	Not applicable	
ST-2	upstream		COD	22/09/11 28/11/11 20/12/11	Not applicable	Not applicable	38.00	mg/l	Not applicable	
ST-2	upstream		Colour	22/09/11 28/11/11 20/12/11	Not applicable	Not applicable	Some sediment	N/A	Not applicable	

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)

ST-2	upstream		Conductivity	22/09/11 28/11/11 20/12/11	Not applicable	Not applicable	0.83	mS/cm	Not applicable	
ST-2	upstream		Copper	22/09/11 28/11/11 20/12/11	Not applicable	Not applicable	<0.007	mg/l	Not applicable	
ST-2	upstream		Cyanide, Total	22/09/11 28/11/11 20/12/11	Not applicable	Not applicable	<0.01	mg/l	Not applicable	
ST-2	upstream		Dissolved Oxygen	22/09/11 28/11/11 20/12/11	Not applicable	Not applicable	4.30	mg/l	Not applicable	
ST-2	upstream		Iron	22/09/11 28/11/11 20/12/11	Not applicable	Not applicable	<0.02	mg/l	Not applicable	
ST-2	upstream		Lead	22/09/11 28/11/11 20/12/11	Not applicable	Not applicable	<0.005	mg/l	Not applicable	
ST-2	upstream		Magnesium	22/09/11 28/11/11 20/12/11	Not applicable	Not applicable	11.00	mg/l	Not applicable	
ST-2	upstream		Manganese	22/09/11 28/11/11 20/12/11	Not applicable	Not applicable	<0.002	mg/l	Not applicable	
ST-2	upstream		Nickel	22/09/11 28/11/11 20/12/11	Not applicable	Not applicable	0.01	mg/l	Not applicable	
ST-2	upstream		Odour	22/09/11 28/11/11 20/12/11	Not applicable	Not applicable	None	N/A	Not applicable	
ST-2	upstream		Orthophosphates	22/09/11 28/11/11 20/12/11	Not applicable	Not applicable	<0.06	mg/l	Not applicable	
ST-2	upstream		pH	22/09/11 28/11/11 20/12/11	Not applicable	Not applicable	7.80	pH units	Not applicable	
ST-2	upstream		Phosphorus, Total	22/09/11 28/11/11 20/12/11	Not applicable	Not applicable	0.04	mg/l	Not applicable	
ST-2	upstream		Potassium	22/09/11 28/11/11 20/12/11	Not applicable	Not applicable	11.30	mg/l	Not applicable	
ST-2	upstream		Sodium	22/09/11 28/11/11 20/12/11	Not applicable	Not applicable	18.00	mg/l	Not applicable	
ST-2	upstream		Sulphate	22/09/11 28/11/11 20/12/11	Not applicable	Not applicable	49.89	mg/l	Not applicable	
ST-2	upstream		Suspended Solids, Total	22/09/11 28/11/11 20/12/11	Not applicable	Not applicable	<10	mg/l	Not applicable	
ST-2	upstream		Temperature	22/09/11 28/11/11 20/12/11	Not applicable	Not applicable	9.50	°C	Not applicable	
ST-2	upstream		Zinc	22/09/11 28/11/11 20/12/11	Not applicable	Not applicable	<0.003	mg/l	Not applicable	

*trigger values may be agreed by the Agency outside of licence conditions

Table 2 Visual inspections-Please only enter details where contamination was observed.

Location Reference	Date of inspection	Description of contamination	Source of contamination	Corrective action	Comments
		No contamination observed	SELECT		

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)

			SELECT	
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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 3 below

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 Quality checklist](#)
 [Assessment of results checklist](#)

Not applicable	
Not applicable	

Table 3: Licensed Emissions to water and /or wastewater (sewer)-periodic monitoring (non-continuous)

Emission reference no:	Emission released to	Parameter/ SubstanceNote 1	Type of sample	Date 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)	% change in mass load from previous year +/-	Comments
Not applicable	SELECT	SELECT	SELECT		SELECT		SELECT		SELECT	SELECT	SELECT	SELECT				

Note 1: Volumetric 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 EQS for Surface water or relevant receptor quality standards

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)

Continuous monitoring

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

Not applicable	
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If yes please summarise your continuous monitoring data below in Table 4 and compare it to its relevant Emission Limit Value (ELV)

6 Did continuous monitoring equipment experience downtime? If yes please record downtime in table 4 below

Not applicable	
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7 Do you have a proactive service contract for each piece of continuous monitoring equipment on site?

Not applicable	
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8 Did abatement system bypass occur during the reporting year? If yes please complete table 5 below

Not applicable	
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Table 4: Summary 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)	% compliance current reporting year	Comments
Not applicable	SELECT	SELECT		SELECT	SELECT	SELECT					
	SELECT	SELECT		SELECT	SELECT	SELECT					

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

Table 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?
Not applicable						SELECT	

*Measures taken or proposed to reduce or limit bypass frequency

Bund testing

dropdown menu click to see options

Additional information

Bund testing is stipulated in W0751-11. Bunds are no longer stored on site (the sites in which required diesel are no longer on site). Bund testing has, therefore, not been required (diesel tanks are empty).

Yes
Not applicable

Not applicable

Are you required by your licence to undertake integrity testing on bunds and containment structures? If yes please fill out table 1 below listing all bunds and containment structures on site

- 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)

Table 1: Summary details of bund 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)
Not applicable	SELECT					SELECT			SELECT	SELECT		SELECT		

*Capacity required based on 100% containment based on 2000 litres per m³

- 4 line with BS8007/EPA Guidance? [bunding and storage guidelines](#)
- 5 Are channels/transfer systems to remote containment systems tested?
- 6 Are channels/transfer systems compliant in both integrity and available volume?
- 7 Do all sumps and chambers have high level liquid alarms?
- 8 If yes to Q7 are these failsafe systems included in a maintenance and testing programme?

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 underground structures and pipelines on site
- 1 underground structures and pipelines on site
 - 2 Please provide integrity testing frequency period

Table 2: Summary details of underground structures/pipeline 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?	Integrity test failure explanation <50 words	Corrective action taken	Scheduled date for retest	Results of retest (if in current reporting year)
Not applicable	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT				SELECT

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

Commentary

Not applicable
Not applicable
Not applicable
Not applicable

Not applicable
Not applicable

Tank and Pipeline assessment reporting-Intensive Agriculture sector only

Additional information if required

- 1 Is it a requirement of your licence to carry out a tank and pipeline assessment for effluent storage on site?
- 2 Is it a requirement of your licence to submit a programme for agreement to the Agency prior to carrying out a tank and pipeline assessment?
If yes has a programme been submitted to the Agency for agreement on the testing and inspection of under and over-ground effluent storage tanks and pipelines? Please
- 3 enter date of submission in additional information
- 4 What method has been proposed for the testing of under and over ground effluent storage tanks and pipelines?
Has the testing and inspection of under and over ground effluent storage tanks and pipelines been completed during the current reporting year? If
- 5 no please enter date last tank and pipeline assessment was completed in additional information.
- 6 If Visual inspection was the method used were any cracks or defects detected? If yes please detail in additional information
- 7 If yes to Q6 have the cracks or defects been repaired successfully? If no please explain in additional information
If hydrogeological or geophysics investigation methods were used was there any evidence of contamination detected? If yes please detail in
- 8 additional information
- 9 If yes to Q8 please detail proposed or completed remediation work in additional information
Are there any leak detection systems on site? Please see Department of Agriculture's S126 and EPA
- 10 guidance on Storage and Bunding of materials for required systems [S126.pdf](#) [bundling and storage guidelines](#)
- 11 From the visual inspections carried out has any discharge been visible in the leak detection inspection chamber? If yes please enter details in table 1
- 12 Was it a requirement of your licence to analyse samples for the current reporting year. If yes please enter details of any samples taken in table 2 below
- 13 When is the next tank and pipeline assessment due?
- 14 Does the licensee consider they are compliant with licence conditions?
- 15 Include details of any other findings of report

SELECT	Not applicable
SELECT	
SELECT	
SELECT	
SELECT	
SELECT	
SELECT	
SELECT	
SELECT	
SELECT	
SELECT	
SELECT	
SELECT	
SELECT	
SELECT	
SELECT	

Table 1: Visual inspection of leak detection chamber

Date	Evidence of discharge	Samples taken (reference in table 2)

Table 2: Samples collected from leak detection chamber

Date	Sample frequency	Sample id	Colour/Odour	Parameter	ELV (If applicable)	Measured value
	SELECT					
	SELECT					

Table 3 Storage capacity for Organic Fertiliser

Total organic fertiliser storage capacity (m3)	Quantity of organic fertiliser generated by the animals housed on site in previous reporting year	Total quantity of organic fertiliser moved off site and recorded in the organic fertiliser register and "record 3" as submitted to DAFM* in previous reporting year	Quantity of organic fertiliser on site at the start of reporting year	Quantity of organic fertiliser at close of current reporting year	Have records of movement of organic fertiliser (record 3) for the previous calendar year been submitted to DAFM?
					SELECT

*DAFM -Department of Agriculture Food and Marine

Groundwater /Contaminated land summary report

	Comments
1 Are you required to carry out groundwater monitoring as part of your licence requirements?	yes
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)	Not applicable
6 Have actions been taken to address contamination issues?If yes please summarise remediation strategies proposed/undertaken for the site	Not applicable
7 Please specify the proposed time frame for the remediation strategy	Not applicable
8 Is there a licence condition to carry out/update ELRA for the site?	Not applicable
9 Has any type of risk assesment been carried out for the site?	Not applicable
10 Has a Conceptual Site Model been developed for the site?	Not applicable
11 Have potential receptors been identified on and off site?	Not applicable
12 Is there evidence that contamination is migrating offsite?	Not applicable

Table 1: Upgradient Groundwater monitoring results

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration++	Average Concentration+	unit	GTV's*	SELECT**	% change in average concentration previous year +/-	Upward trend in pollutant concentration over last 5 years of monitoring data
							SELECT				SELECT
23/2/11 22/9/11	MW-18	Ammoniacal Nitrogen	Lab analysis	Biannual	0.12	0.075	mg/l NH ₄ -N	W0151-01 EPA Trigger Level	N/A	-7%	No
23/2/11 22/9/11	MW-18	Chloride	Lab analysis	Biannual	36.5	35.95	mg/l	W0151-01 EPA Trigger Level	70	-3%	No
23/2/11 22/9/11	MW-18	Phenols, Total	Lab analysis	Biannual	0.15	0.125	mg/l	W0151-01 EPA Trigger Level	0.1	-38%	No
23/2/11 22/9/11	MW-18	Sulphate	Lab analysis	Biannual	3.56	2.425	mg/l	W0151-01 EPA Trigger Level	140	29%	No
23/2/11 22/9/11	MW-18	Total Organic Carbon	Lab analysis	Biannual	8	7	mg/l	W0151-01 EPA Trigger Level	50	0%	No
23/2/11 22/9/11	MW-18	Colour	Field analysis	Biannual	Brown	Clear	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-18	Conductivity	Field analysis	Biannual	0.23	0.22	mS/cm	W0151-01 EPA Trigger Level	1	7%	No

Groundwater /Contaminated land summary report

23/2/11 22/9/11	MW-18	Dissolved Oxygen	Field analysis	Biannual	2.62	1.89	mg/l	W0151-01 EPA Trigger Level	N/A	-127%	No
23/2/11 22/9/11	MW-18	Level, Water	Field analysis	Biannual	13.56	12.7	mOD	W0151-01 EPA Trigger Level	N/A	-2%	No
23/2/11 22/9/11	MW-18	Odour	Field analysis	Biannual	None	None	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-18	pH	Field analysis	Biannual	8.2	8.15	pH	W0151-01 EPA Trigger Level	6<pH<9	2%	No
23/2/11 22/9/11	MW-18	Temperature	Field analysis	Biannual	12	10.05	°C	W0151-01 EPA Trigger Level	N/A	2%	No
23/2/11 22/9/11	MW-18	Alkalinity, Total	Lab analysis	Biannual	896	896	mg/l	W0151-01 EPA Trigger Level	N/A	95%	No
23/2/11 22/9/11	MW-18	Boron	Lab analysis	Biannual	0.016	0.016	mg/l	W0151-01 EPA Trigger Level	N/A	25%	No
23/2/11 22/9/11	MW-18	Cadmium	Lab analysis	Biannual	0.0005	0.0005	mg/l	W0151-01 EPA Trigger Level	0.004	0%	No
23/2/11 22/9/11	MW-18	Calcium	Lab analysis	Biannual	19.5	19.5	mg/l	W0151-01 EPA Trigger Level	N/A	-6%	No
23/2/11 22/9/11	MW-18	Chromium, Total	Lab analysis	Biannual	0.0015	0.0015	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-18	Coliforms, Faecal	Lab analysis	Biannual	0	0	cfus/100ml	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-18	Coliforms, Total	Lab analysis	Biannual	0	0	cfus/100ml	W0151-01 EPA Trigger Level	N/A	-100%	No
23/2/11 22/9/11	MW-18	Copper	Lab analysis	Biannual	0.007	0.007	mg/l	W0151-01 EPA Trigger Level	0.5	0%	No
23/2/11 22/9/11	MW-18	Cyanide	Lab analysis	Biannual	0.01	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	-300%	No
23/2/11 22/9/11	MW-18	Fluoride	Lab analysis	Biannual	0.4	0.4	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-18	Iron	Lab analysis	Biannual	0.02	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-18	Lead	Lab analysis	Biannual	0.005	0.005	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No

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23/2/11 22/9/11	MW-18	Magnesium	Lab analysis	Biannual	2	2	mg/l	W0151-01 EPA Trigger Level	N/A	-5%	No
23/2/11 22/9/11	MW-18	Manganese	Lab analysis	Biannual	0.158	0.158	mg/l	W0151-01 EPA Trigger Level	N/A	91%	No
23/2/11 22/9/11	MW-18	Mercury	Lab analysis	Biannual	0.001	0.001	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-18	Nickel	Lab analysis	Biannual	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-18	Orthophosphates	Lab analysis	Biannual	0.06	0.06	mg/l	W0151-01 EPA Trigger Level	N/A	-33%	No
23/2/11 22/9/11	MW-18	Phosphorous, Total	Lab analysis	Biannual	0.024	0.024	mg/l	W0151-01 EPA Trigger Level	N/A	63%	No
23/2/11 22/9/11	MW-18	Potassium	Lab analysis	Biannual	1.7	1.7	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-18	Residue on Evaporation	Lab analysis	Biannual	140	140	mg/l	W0151-01 EPA Trigger Level	N/A	11%	No
23/2/11 22/9/11	MW-18	Sodium	Lab analysis	Biannual	19.2	19.2	mg/l	W0151-01 EPA Trigger Level	80	-6%	No
23/2/11 22/9/11	MW-18	Total Oxidized Nitrogen	Lab analysis	Biannual	0.2	0.2	mg/l	W0151-01 EPA Trigger Level	N/A	30%	No
23/2/11 22/9/11	MW-18	Zinc	Lab analysis	Biannual	0.003	0.003	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-19	Ammoniacal Nitrogen	Lab analysis	Biannual	0.05	0.04	mg/l NH ₄ -N	W0151-01 EPA Trigger Level	N/A	-63%	No
23/2/11 22/9/11	MW-19	Chloride	Lab analysis	Biannual	54.3	46.1	mg/l	W0151-01 EPA Trigger Level	70	4%	No
23/2/11 22/9/11	MW-19	Phenols, Total	Lab analysis	Biannual	0.15	0.125	mg/l	W0151-01 EPA Trigger Level	0.1	-38%	No
23/2/11 22/9/11	MW-19	Sulphate	Lab analysis	Biannual	149.8	93.015	mg/l	W0151-01 EPA Trigger Level	140	-115%	No
23/2/11 22/9/11	MW-19	Total Organic Carbon	Lab analysis	Biannual	9	5.5	mg/l	W0151-01 EPA Trigger Level	50	-77%	No

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23/2/11 22/9/11	MW-19	Colour	Field analysis	Biannual	light brown with sheen	Slightly cloudy	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-19	Conductivity	Field analysis	Biannual	1.04	0.93	mS/cm	W0151-01 EPA Trigger Level	1	-15%	No
23/2/11 22/9/11	MW-19	Dissolved Oxygen	Field analysis	Biannual	2.46	1.525	mg/l	W0151-01 EPA Trigger Level	N/A	-226%	No
23/2/11 22/9/11	MW-19	Level, Water	Field analysis	Biannual	13.84	12.905	mOD	W0151-01 EPA Trigger Level	N/A	-1%	No
23/2/11 22/9/11	MW-19	Odour	Field analysis	Biannual	None	None	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-19	pH	Field analysis	Biannual	7.4	7.3	pH	W0151-01 EPA Trigger Level	6<pH<9	0%	No
23/2/11 22/9/11	MW-19	Temperature	Field analysis	Biannual	12.7	9.8	°C	W0151-01 EPA Trigger Level	N/A	-1%	No
23/2/11 22/9/11	MW-19	Alkalinity, Total	Lab analysis	Biannual	1046	1046	mg/l	W0151-01 EPA Trigger Level	N/A	73%	No
23/2/11 22/9/11	MW-19	Boron	Lab analysis	Biannual	0.042	0.042	mg/l	W0151-01 EPA Trigger Level	N/A	38%	No
23/2/11 22/9/11	MW-19	Cadmium	Lab analysis	Biannual	0.0005	0.0005	mg/l	W0151-01 EPA Trigger Level	0.004	0%	No
23/2/11 22/9/11	MW-19	Calcium	Lab analysis	Biannual	152.4	152.4	mg/l	W0151-01 EPA Trigger Level	N/A	-23%	No
23/2/11 22/9/11	MW-19	Chromium, Total	Lab analysis	Biannual	0.0015	0.0015	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-19	Coliforms, Faecal	Lab analysis	Biannual	0	0	cfus/100ml	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-19	Coliforms, Total	Lab analysis	Biannual	0	0	cfus/100ml	W0151-01 EPA Trigger Level	N/A	-100%	No
23/2/11 22/9/11	MW-19	Copper	Lab analysis	Biannual	0.007	0.007	mg/l	W0151-01 EPA Trigger Level	0.5	90%	No
23/2/11 22/9/11	MW-19	Cyanide	Lab analysis	Biannual	0.01	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	-300%	No
23/2/11 22/9/11	MW-19	Fluoride	Lab analysis	Biannual	0.3	0.3	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No

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23/2/11 22/9/11	MW-19	Iron	Lab analysis	Biannual	0.02	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-19	Lead	Lab analysis	Biannual	0.005	0.005	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-19	Magnesium	Lab analysis	Biannual	12.6	12.6	mg/l	W0151-01 EPA Trigger Level	N/A	-28%	No
23/2/11 22/9/11	MW-19	Manganese	Lab analysis	Biannual	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-19	Mercury	Lab analysis	Biannual	0.001	0.001	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-19	Nickel	Lab analysis	Biannual	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-19	Orthophosphates	Lab analysis	Biannual	0.06	0.06	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-19	Phosphorous, Total	Lab analysis	Biannual	0.025	0.025	mg/l	W0151-01 EPA Trigger Level	N/A	-1480%	No
23/2/11 22/9/11	MW-19	Potassium	Lab analysis	Biannual	3.3	3.3	mg/l	W0151-01 EPA Trigger Level	N/A	-12%	No
23/2/11 22/9/11	MW-19	Residue on Evaporation	Lab analysis	Biannual	619	619	mg/l	W0151-01 EPA Trigger Level	N/A	-82%	No
23/2/11 22/9/11	MW-19	Sodium	Lab analysis	Biannual	22.1	22.1	mg/l	W0151-01 EPA Trigger Level	80	-1%	No
23/2/11 22/9/11	MW-19	Total Oxidized Nitrogen	Lab analysis	Biannual	2.1	2.1	mg/l	W0151-01 EPA Trigger Level	N/A	50%	No
23/2/11 22/9/11	MW-19	Zinc	Lab analysis	Biannual	0.003	0.003	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/02/11 28/07/11 22/09/11 20/12/11	MW-21	Ammoniacal Nitrogen	Lab analysis	Quarterly	0.09	0.05	mg/l NH ₄ -N	W0151-01 EPA Trigger Level	N/A	-60%	No
23/02/11 28/07/11 22/09/11 20/12/11	MW-21	Chloride	Lab analysis	Quarterly	90.6	72.425	mg/l	W0151-01 EPA Trigger Level	70	50%	No

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23/02/11 28/07/11 22/09/11 20/12/11	MW-21	Phenols, Total	Lab analysis	Quarterly	0.15	0.125	mg/l	W0151-01 EPA Trigger Level	0.1	-38%	No
23/02/11 28/07/11 22/09/11 20/12/11	MW-21	Sulphate	Lab analysis	Quarterly	64.43	41.9725	mg/l	W0151-01 EPA Trigger Level	140	-72%	No
23/02/11 28/07/11 22/09/11 20/12/11	MW-21	Total Organic Carbon	Lab analysis	Quarterly	14	8	mg/l	W0151-01 EPA Trigger Level	50	-22%	No
23/02/11 28/07/11 22/09/11 20/12/11	MW-21	Colour	Field analysis	Quarterly	Light brown	Light brown	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
23/02/11 28/07/11 22/09/11 20/12/11	MW-21	Conductivity	Field analysis	Quarterly	1.06	0.985	mS/cm	W0151-01 EPA Trigger Level	1	4%	No
23/02/11 28/07/11 22/09/11 20/12/11	MW-21	Dissolved Oxygen	Field analysis	Quarterly	9	6.225	mg/l	W0151-01 EPA Trigger Level	N/A	-12%	No
23/02/11 28/07/11 22/09/11 20/12/11	MW-21	Level, Water	Field analysis	Quarterly	13.57	12.715	mOD	W0151-01 EPA Trigger Level	N/A	0%	No
23/02/11 28/07/11 22/09/11 20/12/11	MW-21	Odour	Field analysis	Quarterly	None	None	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
23/02/11 28/07/11 22/09/11 20/12/11	MW-21	pH	Field analysis	Quarterly	7.3	7.175	pH	W0151-01 EPA Trigger Level	6<pH<9	-2%	No
23/02/11 28/07/11 22/09/11 20/12/11	MW-21	Temperature	Field analysis	Quarterly	13.7	11.8	°C	W0151-01 EPA Trigger Level	N/A	9%	No
23/02/11 28/07/11 22/09/11 20/12/11	MW-21	Alkalinity, Total	Lab analysis	Quarterly	962	962	mg/l	W0151-01 EPA Trigger Level	N/A	61%	No
23/02/11 28/07/11 22/09/11 20/12/11	MW-21	Boron	Lab analysis	Quarterly	0.05	0.05	mg/l	W0151-01 EPA Trigger Level	N/A	40%	No

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23/02/11 28/07/11 22/09/11 20/12/11	MW-21	Cadmium	Lab analysis	Quarterly	0.0005	0.0005	mg/l	W0151-01 EPA Trigger Level	0.004	0%	No
23/02/11 28/07/11 22/09/11 20/12/11	MW-21	Calcium	Lab analysis	Quarterly	163.4	163.4	mg/l	W0151-01 EPA Trigger Level	N/A	2%	No
23/02/11 28/07/11 22/09/11 20/12/11	MW-21	Chromium, Total	Lab analysis	Quarterly	0.0015	0.0015	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/02/11 28/07/11 22/09/11 20/12/11	MW-21	Coliforms, Faecal	Lab analysis	Quarterly	0	0	cfus/100ml	W0151-01 EPA Trigger Level	N/A	0%	No
23/02/11 28/07/11 22/09/11 20/12/11	MW-21	Coliforms, Total	Lab analysis	Quarterly	0	0	cfus/100ml	W0151-01 EPA Trigger Level	N/A	0%	No
23/02/11 28/07/11 22/09/11 20/12/11	MW-21	Copper	Lab analysis	Quarterly	0.007	0.007	mg/l	W0151-01 EPA Trigger Level	0.5	0%	No
23/02/11 28/07/11 22/09/11 20/12/11	MW-21	Cyanide	Lab analysis	Quarterly	0.01	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	-300%	No
23/02/11 28/07/11 22/09/11 20/12/11	MW-21	Fluoride	Lab analysis	Quarterly	0.3	0.3	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/02/11 28/07/11 22/09/11 20/12/11	MW-21	Iron	Lab analysis	Quarterly	0.02	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/02/11 28/07/11 22/09/11 20/12/11	MW-21	Lead	Lab analysis	Quarterly	0.005	0.005	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/02/11 28/07/11 22/09/11 20/12/11	MW-21	Magnesium	Lab analysis	Quarterly	14	14	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/02/11 28/07/11 22/09/11 20/12/11	MW-21	Manganese	Lab analysis	Quarterly	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No

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23/02/11 28/07/11 22/09/11 20/12/11	MW-21	Mercury	Lab analysis	Quarterly	0.001	0.001	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/02/11 28/07/11 22/09/11 20/12/11	MW-21	Nickel	Lab analysis	Quarterly	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/02/11 28/07/11 22/09/11 20/12/11	MW-21	Orthophosphates	Lab analysis	Quarterly	0.06	0.06	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/02/11 28/07/11 22/09/11 20/12/11	MW-21	Phosphorous, Total	Lab analysis	Quarterly	0.013	0.013	mg/l	W0151-01 EPA Trigger Level	N/A	-3877%	No
23/02/11 28/07/11 22/09/11 20/12/11	MW-21	Potassium	Lab analysis	Quarterly	5	5	mg/l	W0151-01 EPA Trigger Level	N/A	-6%	No
23/02/11 28/07/11 22/09/11 20/12/11	MW-21	Residue on Evaporation	Lab analysis	Quarterly	897	897	mg/l	W0151-01 EPA Trigger Level	N/A	-28%	No
23/02/11 28/07/11 22/09/11 20/12/11	MW-21	Sodium	Lab analysis	Quarterly	28.8	28.8	mg/l	W0151-01 EPA Trigger Level	80	22%	No
23/02/11 28/07/11 22/09/11 20/12/11	MW-21	Total Oxidized Nitrogen	Lab analysis	Quarterly	13.4	13.4	mg/l	W0151-01 EPA Trigger Level	N/A	32%	No
23/02/11 28/07/11 22/09/11 20/12/11	MW-21	Zinc	Lab analysis	Quarterly	0.003	0.003	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11 28/11/11	MW-24	Ammoniacal Nitrogen	Lab analysis	Biannual	3.7	1.47	mg/l NH ₄ -N	W0151-01 EPA Trigger Level	N/A	29%	No
23/2/11 22/9/11 28/11/11	MW-24	Chloride	Lab analysis	Biannual	51.2	41.833	mg/l	W0151-01 EPA Trigger Level	70	2%	No
23/2/11 22/9/11 28/11/11	MW-24	Phenols, Total	Lab analysis	Biannual	0.15	0.125	mg/l	W0151-01 EPA Trigger Level	0.1	-39%	No
23/2/11 22/9/11 28/11/11	MW-24	Sulphate	Lab analysis	Biannual	38.3	32.98	mg/l	W0151-01 EPA Trigger Level	140	-19%	No

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23/2/11 22/9/11 28/11/11	MW-24	Total Organic Carbon	Lab analysis	Biannual	13	7.5	mg/l	W0151-01 EPA Trigger Level	50	-12%	No
23/2/11 22/9/11 28/11/11	MW-24	Colour	Field analysis	Biannual	Cloudy	Cloudy	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11 28/11/11	MW-24	Conductivity	Field analysis	Biannual	0.81	0.791	mS/cm	W0151-01 EPA Trigger Level	1	-1%	No
23/2/11 22/9/11 28/11/11	MW-24	Dissolved Oxygen	Field analysis	Biannual	8.21	4.655	mg/l	W0151-01 EPA Trigger Level	N/A	-49%	No
23/2/11 22/9/11 28/11/11	MW-24	Level, Water	Field analysis	Biannual	12.2	11.25	mOD	W0151-01 EPA Trigger Level	N/A	-1%	No
23/2/11 22/9/11 28/11/11	MW-24	Odour	Field analysis	Biannual	None	None	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11 28/11/11	MW-24	pH	Field analysis	Biannual	7.4	7.166666667	pH	W0151-01 EPA Trigger Level	6<pH<9	-3%	No
23/2/11 22/9/11 28/11/11	MW-24	Temperature	Field analysis	Biannual	14.3	12.2	°C	W0151-01 EPA Trigger Level	N/A	8%	No
23/2/11 22/9/11 28/11/11	MW-24	Alkalinity, Total	Lab analysis	Biannual	1102	726	mg/l	W0151-01 EPA Trigger Level	N/A	52%	No
23/2/11 22/9/11 28/11/11	MW-24	Boron	Lab analysis	Biannual	0.035	0.035	mg/l	W0151-01 EPA Trigger Level	N/A	34%	No
23/2/11 22/9/11 28/11/11	MW-24	Cadmium	Lab analysis	Biannual	0.0005	0.0005	mg/l	W0151-01 EPA Trigger Level	0.004	-1147%	No
23/2/11 22/9/11 28/11/11	MW-24	Calcium	Lab analysis	Biannual	136.6	133.05	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11 28/11/11	MW-24	Chromium, Total	Lab analysis	Biannual	0.0015	0.0015	mg/l	W0151-01 EPA Trigger Level	N/A	-289%	No
23/2/11 22/9/11 28/11/11	MW-24	Coliforms, Faecal	Lab analysis	Biannual	3	3	cfus/100ml	W0151-01 EPA Trigger Level	N/A	-6567%	No
23/2/11 22/9/11 28/11/11	MW-24	Coliforms, Total	Lab analysis	Biannual	30	30	cfus/100ml	W0151-01 EPA Trigger Level	N/A	-22228%	No
23/2/11 22/9/11 28/11/11	MW-24	Copper	Lab analysis	Biannual	0.007	0.007	mg/l	W0151-01 EPA Trigger Level	0.5	-290%	No
23/2/11 22/9/11 28/11/11	MW-24	Cyanide	Lab analysis	Biannual	0.01	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	-200%	No

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23/2/11 22/9/11 28/11/11	MW-24	Fluoride	Lab analysis	Biannual	0.3	0.18	mg/l	W0151-01 EPA Trigger Level	N/A	-67%	No
23/2/11 22/9/11 28/11/11	MW-24	Iron	Lab analysis	Biannual	0.02	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	-2353%	No
23/2/11 22/9/11 28/11/11	MW-24	Lead	Lab analysis	Biannual	0.005	0.005	mg/l	W0151-01 EPA Trigger Level	N/A	7%	No
23/2/11 22/9/11 28/11/11	MW-24	Magnesium	Lab analysis	Biannual	15	14.7	mg/l	W0151-01 EPA Trigger Level	N/A	-8%	No
23/2/11 22/9/11 28/11/11	MW-24	Manganese	Lab analysis	Biannual	0.473	0.473	mg/l	W0151-01 EPA Trigger Level	N/A	-3%	No
23/2/11 22/9/11 28/11/11	MW-24	Mercury	Lab analysis	Biannual	0.001	0.001	mg/l	W0151-01 EPA Trigger Level	N/A	33%	No
23/2/11 22/9/11 28/11/11	MW-24	Nickel	Lab analysis	Biannual	0.038	0.038	mg/l	W0151-01 EPA Trigger Level	N/A	-1402%	No
23/2/11 22/9/11 28/11/11	MW-24	Orthophosphates	Lab analysis	Biannual	7	3.53	mg/l	W0151-01 EPA Trigger Level	N/A	98%	No
23/2/11 22/9/11 28/11/11	MW-24	Phosphorous, Total	Lab analysis	Biannual	0.016	0.016	mg/l	W0151-01 EPA Trigger Level	N/A	-913%	No
23/2/11 22/9/11 28/11/11	MW-24	Potassium	Lab analysis	Biannual	5.2	4.55	mg/l	W0151-01 EPA Trigger Level	N/A	-65%	No
23/2/11 22/9/11 28/11/11	MW-24	Residue on Evaporation	Lab analysis	Biannual	515	515	mg/l	W0151-01 EPA Trigger Level	N/A	-19%	No
23/2/11 22/9/11 28/11/11	MW-24	Sodium	Lab analysis	Biannual	31.6	28.4	mg/l	W0151-01 EPA Trigger Level	80	-49%	No
23/2/11 22/9/11 28/11/11	MW-24	Total Oxidized Nitrogen	Lab analysis	Biannual	2.6	2.25	mg/l	W0151-01 EPA Trigger Level	N/A	-28%	No
23/2/11 22/9/11 28/11/11	MW-24	Zinc	Lab analysis	Biannual	0.005	0.005	mg/l	W0151-01 EPA Trigger Level	N/A	-407%	No
23/2/11 22/9/11	MW-25	Ammoniacal Nitrogen	Lab analysis	Biannual	0.12	0.075	mg/l NH ₄ -N	W0151-01 EPA Trigger Level	N/A	-77%	No
23/2/11 22/9/11	MW-25	Chloride	Lab analysis	Biannual	76.8	58.35	mg/l	W0151-01 EPA Trigger Level	70	40%	No

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23/2/11 22/9/11	MW-25	Phenols, Total	Lab analysis	Biannual	0.15	0.125	mg/l	W0151-01 EPA Trigger Level	0.1	-38%	No
23/2/11 22/9/11	MW-25	Sulphate	Lab analysis	Biannual	33.94	33.94	mg/l	W0151-01 EPA Trigger Level	140	-18%	No
23/2/11 22/9/11	MW-25	Total Organic Carbon	Lab analysis	Biannual	15	8.5	mg/l	W0151-01 EPA Trigger Level	50	-29%	No
23/2/11 22/9/11	MW-25	Colour	Field analysis	Biannual	Brown -orange	Reddish	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-25	Conductivity	Field analysis	Biannual	0.92	0.86	mS/cm	W0151-01 EPA Trigger Level	1	4%	No
23/2/11 22/9/11	MW-25	Dissolved Oxygen	Field analysis	Biannual	3.94	3.015	mg/l	W0151-01 EPA Trigger Level	N/A	-58%	No
23/2/11 22/9/11	MW-25	Level, Water	Field analysis	Biannual	12.1	11.165	mOD	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-25	Odour	Field analysis	Biannual	None	None	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-25	pH	Field analysis	Biannual	7.2	7.05	pH	W0151-01 EPA Trigger Level	6<pH<9	-3%	No
23/2/11 22/9/11	MW-25	Temperature	Field analysis	Biannual	13.8	11.85	°C	W0151-01 EPA Trigger Level	N/A	5%	No
23/2/11 22/9/11	MW-25	Alkalinity, Total	Lab analysis	Biannual	1160	1160	mg/l	W0151-01 EPA Trigger Level	N/A	78%	No
23/2/11 22/9/11	MW-25	Boron	Lab analysis	Biannual	0.028	0.028	mg/l	W0151-01 EPA Trigger Level	N/A	21%	No
23/2/11 22/9/11	MW-25	Cadmium	Lab analysis	Biannual	0.0005	0.0005	mg/l	W0151-01 EPA Trigger Level	0.004	0%	No
23/2/11 22/9/11	MW-25	Calcium	Lab analysis	Biannual	133.6	133.6	mg/l	W0151-01 EPA Trigger Level	N/A	-4%	No
23/2/11 22/9/11	MW-25	Chromium, Total	Lab analysis	Biannual	0.0015	0.0015	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-25	Coliforms, Faecal	Lab analysis	Biannual	5	5	cfus/100ml	W0151-01 EPA Trigger Level	N/A	100%	No
23/2/11 22/9/11	MW-25	Coliforms, Total	Lab analysis	Biannual	5	5	cfus/100ml	W0151-01 EPA Trigger Level	N/A	-2%	No

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23/2/11 22/9/11	MW-25	Copper	Lab analysis	Biannual	0.007	0.007	mg/l	W0151-01 EPA Trigger Level	0.5	0%	No
23/2/11 22/9/11	MW-25	Cyanide	Lab analysis	Biannual	0.01	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	-300%	No
23/2/11 22/9/11	MW-25	Fluoride	Lab analysis	Biannual	0.3	0.3	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-25	Iron	Lab analysis	Biannual	0.02	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	-200%	No
23/2/11 22/9/11	MW-25	Lead	Lab analysis	Biannual	0.005	0.005	mg/l	W0151-01 EPA Trigger Level	N/A	-100%	No
23/2/11 22/9/11	MW-25	Magnesium	Lab analysis	Biannual	16	16	mg/l	W0151-01 EPA Trigger Level	N/A	-4%	No
23/2/11 22/9/11	MW-25	Manganese	Lab analysis	Biannual	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	-1400%	No
23/2/11 22/9/11	MW-25	Mercury	Lab analysis	Biannual	0.001	0.001	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-25	Nickel	Lab analysis	Biannual	0.003	0.003	mg/l	W0151-01 EPA Trigger Level	N/A	-333%	No
23/2/11 22/9/11	MW-25	Orthophosphates	Lab analysis	Biannual	0.06	0.06	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-25	Phosphorous, Total	Lab analysis	Biannual	0.07	0.07	mg/l	W0151-01 EPA Trigger Level	N/A	44%	No
23/2/11 22/9/11	MW-25	Potassium	Lab analysis	Biannual	3.9	3.9	mg/l	W0151-01 EPA Trigger Level	N/A	8%	No
23/2/11 22/9/11	MW-25	Residue on Evaporation	Lab analysis	Biannual	542	542	mg/l	W0151-01 EPA Trigger Level	N/A	21%	No
23/2/11 22/9/11	MW-25	Sodium	Lab analysis	Biannual	26.4	26.4	mg/l	W0151-01 EPA Trigger Level	80	8%	No
23/2/11 22/9/11	MW-25	Total Oxidized Nitrogen	Lab analysis	Biannual	3.5	3.5	mg/l	W0151-01 EPA Trigger Level	N/A	11%	No
23/2/11 22/9/11	MW-25	Zinc	Lab analysis	Biannual	0.003	0.003	mg/l	W0151-01 EPA Trigger Level	N/A	-33%	No

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23/2/11 22/9/11	TW-2	Ammoniacal Nitrogen	Lab analysis	Biannual	2.6	2.385	mg/l NH ₄ -N	W0151-01 EPA Trigger Level	N/A	4%	No
23/2/11 22/9/11	TW-2	Chloride	Lab analysis	Biannual	25.2	24.65	mg/l	W0151-01 EPA Trigger Level	70	-2%	No
23/2/11 22/9/11	TW-2	Phenols, Total	Lab analysis	Biannual	0.15	0.125	mg/l	W0151-01 EPA Trigger Level	0.1	-38%	No
23/2/11 22/9/11	TW-2	Sulphate	Lab analysis	Biannual	1.33	0.88	mg/l	W0151-01 EPA Trigger Level	140	45%	No
23/2/11 22/9/11	TW-2	Total Organic Carbon	Lab analysis	Biannual	7	6	mg/l	W0151-01 EPA Trigger Level	50	-25%	No
23/2/11 22/9/11	TW-2	Colour	Field analysis	Biannual	Light brown	Clear	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	TW-2	Conductivity	Field analysis	Biannual	0.27	0.27	mS/cm	W0151-01 EPA Trigger Level	1	-2%	No
23/2/11 22/9/11	TW-2	Dissolved Oxygen	Field analysis	Biannual	4.32	2.45	mg/l	W0151-01 EPA Trigger Level	N/A	-59%	No
23/2/11 22/9/11	TW-2	Level, Water	Field analysis	Biannual	13.93	13.175	mOD	W0151-01 EPA Trigger Level	N/A	-2%	No
23/2/11 22/9/11	TW-2	Odour	Field analysis	Biannual	None	None	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	TW-2	pH	Field analysis	Biannual	9.5	9.5	pH	W0151-01 EPA Trigger Level	6<pH<9	1%	No
23/2/11 22/9/11	TW-2	Temperature	Field analysis	Biannual	14.8	13.3	°C	W0151-01 EPA Trigger Level	N/A	18%	No
23/2/11 22/9/11	TW-2	Boron	Lab analysis	Biannual	0.034	0.034	mg/l	W0151-01 EPA Trigger Level	N/A	6%	No
23/2/11 22/9/11	TW-2	Cadmium	Lab analysis	Biannual	0.0005	0.0005	mg/l	W0151-01 EPA Trigger Level	0.004	0%	No
23/2/11 22/9/11	TW-2	Calcium	Lab analysis	Biannual	3.7	3.7	mg/l	W0151-01 EPA Trigger Level	N/A	-8%	No
23/2/11 22/9/11	TW-2	Chromium, Total	Lab analysis	Biannual	0.0015	0.0015	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	TW-2	Coliforms, Faecal	Lab analysis	Biannual	2	2	cfus/100ml	W0151-01 EPA Trigger Level	N/A	50%	No

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23/2/11 22/9/11	TW-2	Coliforms, Total	Lab analysis	Biannual	2	2	cfus/100ml	W0151-01 EPA Trigger Level	N/A	-120880%	No
23/2/11 22/9/11	TW-2	Copper	Lab analysis	Biannual	0.007	0.007	mg/l	W0151-01 EPA Trigger Level	0.5	0%	No
23/2/11 22/9/11	TW-2	Cyanide	Lab analysis	Biannual	0.01	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	-300%	No
23/2/11 22/9/11	TW-2	Fluoride	Lab analysis	Biannual	0.3	0.3	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	TW-2	Iron	Lab analysis	Biannual	0.02	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	TW-2	Lead	Lab analysis	Biannual	0.005	0.005	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	TW-2	Magnesium	Lab analysis	Biannual	11.1	11.1	mg/l	W0151-01 EPA Trigger Level	N/A	-15%	No
23/2/11 22/9/11	TW-2	Manganese	Lab analysis	Biannual	0.017	0.017	mg/l	W0151-01 EPA Trigger Level	N/A	-47%	No
23/2/11 22/9/11	TW-2	Mercury	Lab analysis	Biannual	0.001	0.001	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	TW-2	Nickel	Lab analysis	Biannual	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	TW-2	Orthophosphates	Lab analysis	Biannual	0.06	0.06	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	TW-2	Potassium	Lab analysis	Biannual	4.1	4.1	mg/l	W0151-01 EPA Trigger Level	N/A	7%	No
23/2/11 22/9/11	TW-2	Residue on Evaporation	Lab analysis	Biannual	135	135	mg/l	W0151-01 EPA Trigger Level	N/A	-3%	No
23/2/11 22/9/11	TW-2	Sodium	Lab analysis	Biannual	31.4	31.4	mg/l	W0151-01 EPA Trigger Level	80	-8%	No
23/2/11 22/9/11	TW-2	Alkalinity, Total	Lab analysis	Biannual	1014	1014	mg/l	W0151-01 EPA Trigger Level	N/A	90%	No
23/2/11 22/9/11	TW-2	Total Oxidized Nitrogen	Lab analysis	Biannual	0.2	0.2	mg/l	W0151-01 EPA Trigger Level	N/A	30%	No
23/2/11 22/9/11	TW-2	Phosphorous, Total	Lab analysis	Biannual	5	5	mg/l	W0151-01 EPA Trigger Level	N/A	100%	No

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23/2/11 22/9/11	TW-2	Zinc	Lab analysis	Biannual	0.003	0.003	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
							SELECT				SELECT

.-+ where average indicates arithmetic mean

.-++ 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*	SELECT**	% change in average concentration previous year +/-	Upward trend in yearly average pollutant concentration over last 5 years of monitoring data
							SELECT				SELECT
23/02/11 28/07/11 22/09/11 20/12/11	MW-1	Ammoniacal Nitrogen	Lab analysis	Quarterly	0.27	0.12	mg/l NH ₄ -N	W0151-01 EPA Trigger Level	N/A	15%	No
23/02/11 28/07/11 22/09/11 20/12/11	MW-1	Chloride	Lab analysis	Quarterly	12.3	11.2	mg/l	W0151-01 EPA Trigger Level	70	-8%	No
23/02/11 28/07/11 22/09/11 20/12/11	MW-1	Phenols, Total	Lab analysis	Quarterly	0.15	0.13	mg/l	W0151-01 EPA Trigger Level	0.1	-38%	No
23/02/11 28/07/11 22/09/11 20/12/11	MW-1	Sulphate	Lab analysis	Quarterly	3.65	2.14	mg/l	W0151-01 EPA Trigger Level	140	40%	No
23/02/11 28/07/11 22/09/11 20/12/11	MW-1	Total Organic Carbon	Lab analysis	Quarterly	14.0	9.8	mg/l	W0151-01 EPA Trigger Level	50	21%	No
23/02/11 28/07/11 22/09/11 20/12/11	MW-1	Colour	Field analysis	Quarterly	Some red/iron suspended sediment	Clear	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
23/02/11 28/07/11 22/09/11 20/12/11	MW-1	Conductivity	Field analysis	Quarterly	0.62	0.50	mS/cm	W0151-01 EPA Trigger Level	1	-8%	No
23/02/11 28/07/11 22/09/11 20/12/11	MW-1	Dissolved Oxygen	Field analysis	Quarterly	4	2.4	mg/l	W0151-01 EPA Trigger Level	N/A	-90%	No
23/02/11 28/07/11 22/09/11 20/12/11	MW-1	Level, Water	Field analysis	Quarterly	14.83	14.68	mOD	W0151-01 EPA Trigger Level	N/A	-1%	No

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23/02/11 28/07/11 22/09/11 20/12/11	MW-1	Odour	Field analysis	Quarterly	None	None	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
23/02/11 28/07/11 22/09/11 20/12/11	MW-1	pH	Field analysis	Quarterly	8.5	7.875	pH	W0151-01 EPA Trigger Level	6<pH<9	0%	No
23/02/11 28/07/11 22/09/11 20/12/11	MW-1	Temperature	Field analysis	Quarterly	14.1	12.7	°C	W0151-01 EPA Trigger Level	N/A	6%	No
23/02/11 28/07/11 22/09/11 20/12/11	MW-1	Alkalinity, Total	Lab analysis	Quarterly	948	948	mg/l	W0151-01 EPA Trigger Level	N/A	72%	No
23/02/11 28/07/11 22/09/11 20/12/11	MW-1	Boron	Lab analysis	Quarterly	0.032	0.032	mg/l	W0151-01 EPA Trigger Level	N/A	19%	No
23/02/11 28/07/11 22/09/11 20/12/11	MW-1	Cadmium	Lab analysis	Quarterly	0.001	0.001	mg/l	W0151-01 EPA Trigger Level	0.004	0%	No
23/02/11 28/07/11 22/09/11 20/12/11	MW-1	Calcium	Lab analysis	Quarterly	44.8	44.8	mg/l	W0151-01 EPA Trigger Level	N/A	-3%	No
23/02/11 28/07/11 22/09/11 20/12/11	MW-1	Chromium, Total	Lab analysis	Quarterly	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	33%	No
23/02/11 28/07/11 22/09/11 20/12/11	MW-1	Coliforms, Faecal	Lab analysis	Quarterly	0	0	cfus/100ml	W0151-01 EPA Trigger Level	N/A	0%	No
23/02/11 28/07/11 22/09/11 20/12/11	MW-1	Coliforms, Total	Lab analysis	Quarterly	0	0	cfus/100ml	W0151-01 EPA Trigger Level	N/A	0%	No
23/02/11 28/07/11 22/09/11 20/12/11	MW-1	Copper	Lab analysis	Quarterly	0.007	0.007	mg/l	W0151-01 EPA Trigger Level	0.5	0%	No
23/02/11 28/07/11 22/09/11 20/12/11	MW-1	Cyanide	Lab analysis	Quarterly	0.01	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	-300%	No

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23/02/11 28/07/11 22/09/11 20/12/11	MW-1	Fluoride	Lab analysis	Quarterly	0.3	0.3	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/02/11 28/07/11 22/09/11 20/12/11	MW-1	Iron	Lab analysis	Quarterly	0.02	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	-990%	No
23/02/11 28/07/11 22/09/11 20/12/11	MW-1	Lead	Lab analysis	Quarterly	0.005	0.005	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/02/11 28/07/11 22/09/11 20/12/11	MW-1	Magnesium	Lab analysis	Quarterly	41.4	41.4	mg/l	W0151-01 EPA Trigger Level	N/A	16%	No
23/02/11 28/07/11 22/09/11 20/12/11	MW-1	Manganese	Lab analysis	Quarterly	1.88	1.88	mg/l	W0151-01 EPA Trigger Level	N/A	91%	No
23/02/11 28/07/11 22/09/11 20/12/11	MW-1	Mercury	Lab analysis	Quarterly	0.001	0.001	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/02/11 28/07/11 22/09/11 20/12/11	MW-1	Nickel	Lab analysis	Quarterly	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/02/11 28/07/11 22/09/11 20/12/11	MW-1	Orthophosphates	Lab analysis	Quarterly	0.06	0.06	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/02/11 28/07/11 22/09/11 20/12/11	MW-1	Phosphorous, Total	Lab analysis	Quarterly	0.005	0.005	mg/l	W0151-01 EPA Trigger Level	N/A	-120%	No
23/02/11 28/07/11 22/09/11 20/12/11	MW-1	Potassium	Lab analysis	Quarterly	3.5	3.5	mg/l	W0151-01 EPA Trigger Level	N/A	17%	No
23/02/11 28/07/11 22/09/11 20/12/11	MW-1	Residue on Evaporation	Lab analysis	Quarterly	383	383	mg/l	W0151-01 EPA Trigger Level	N/A	29%	No
23/02/11 28/07/11 22/09/11 20/12/11	MW-1	Sodium	Lab analysis	Quarterly	46.8	46.8	mg/l	W0151-01 EPA Trigger Level	80	24%	No

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23/02/11 28/07/11 22/09/11 20/12/11	MW-1	Total Oxidized Nitrogen	Lab analysis	Quarterly	0.2	0.2	mg/l	W0151-01 EPA Trigger Level	N/A	35%	No
23/02/11 28/07/11 22/09/11 20/12/11	MW-1	Zinc	Lab analysis	Quarterly	0.003	0.003	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-2	Ammoniacal Nitrogen	Lab analysis	Biannual	0.13	0.115	mg/l NH ₄ -N	W0151-01 EPA Trigger Level	N/A	-7%	No
23/2/11 22/9/11	MW-2	Chloride	Lab analysis	Biannual	28	27.7	mg/l	W0151-01 EPA Trigger Level	70	8%	No
23/2/11 22/9/11	MW-2	Phenols, Total	Lab analysis	Biannual	0.15	0.125	mg/l	W0151-01 EPA Trigger Level	0.1	-38%	No
23/2/11 22/9/11	MW-2	Sulphate	Lab analysis	Biannual	109.48	74.22	mg/l	W0151-01 EPA Trigger Level	140	-69%	No
23/2/11 22/9/11	MW-2	Total Organic Carbon	Lab analysis	Biannual	13	9.5	mg/l	W0151-01 EPA Trigger Level	50	29%	No
23/2/11 22/9/11	MW-2	Colour	Field analysis	Biannual	Cloudy, gritty	Cloudy, gritty	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-2	Conductivity	Field analysis	Biannual	0.55	0.5	mS/cm	W0151-01 EPA Trigger Level	1	0%	No
23/2/11 22/9/11	MW-2	Dissolved Oxygen	Field analysis	Biannual	1.55	1.155	mg/l	W0151-01 EPA Trigger Level	N/A	-345%	No
23/2/11 22/9/11	MW-2	Level, Water	Field analysis	Biannual	12.13	11.705	mOD	W0151-01 EPA Trigger Level	N/A	-5%	No
23/2/11 22/9/11	MW-2	Odour	Field analysis	Biannual	None	None	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-2	pH	Field analysis	Biannual	8	7.6	pH	W0151-01 EPA Trigger Level	6<pH<9	1%	No
23/2/11 22/9/11	MW-2	Temperature	Field analysis	Biannual	12.6	10.9	°C	W0151-01 EPA Trigger Level	N/A	6%	No
23/2/11 22/9/11	MW-2	Alkalinity, Total	Lab analysis	Biannual	838	838	mg/l	W0151-01 EPA Trigger Level	N/A	87%	No
23/2/11 22/9/11	MW-2	Boron	Lab analysis	Biannual	0.013	0.013	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No

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23/2/11 22/9/11	MW-2	Cadmium	Lab analysis	Biannual	0.0005	0.0005	mg/l	W0151-01 EPA Trigger Level	0.004	0%	No
23/2/11 22/9/11	MW-2	Calcium	Lab analysis	Biannual	26.5	26.5	mg/l	W0151-01 EPA Trigger Level	N/A	-148%	No
23/2/11 22/9/11	MW-2	Chromium, Total	Lab analysis	Biannual	0.0015	0.0015	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-2	Coliforms, Faecal	Lab analysis	Biannual	0	0	cfus/100ml	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-2	Coliforms, Total	Lab analysis	Biannual	0	0	cfus/100ml	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-2	Copper	Lab analysis	Biannual	0.007	0.007	mg/l	W0151-01 EPA Trigger Level	0.5	0%	No
23/2/11 22/9/11	MW-2	Cyanide	Lab analysis	Biannual	0.01	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	-300%	No
23/2/11 22/9/11	MW-2	Fluoride	Lab analysis	Biannual	0.3	0.3	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-2	Iron	Lab analysis	Biannual	0.02	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-2	Lead	Lab analysis	Biannual	0.005	0.005	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-2	Magnesium	Lab analysis	Biannual	6	6	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-2	Manganese	Lab analysis	Biannual	0.068	0.068	mg/l	W0151-01 EPA Trigger Level	N/A	-1100%	No
23/2/11 22/9/11	MW-2	Mercury	Lab analysis	Biannual	0.001	0.001	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-2	Nickel	Lab analysis	Biannual	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-2	Orthophosp hates	Lab analysis	Biannual	0.06	0.06	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-2	Phosphorou s, Total	Lab analysis	Biannual	0.009	0.009	mg/l	W0151-01 EPA Trigger Level	N/A	-967%	No
23/2/11 22/9/11	MW-2	Potassium	Lab analysis	Biannual	3	3	mg/l	W0151-01 EPA Trigger Level	N/A	3%	No

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23/2/11 22/9/11	MW-2	Residue on Evaporation	Lab analysis	Biannual	290	290	mg/l	W0151-01 EPA Trigger Level	N/A	-51%	No
23/2/11 22/9/11	MW-2	Sodium	Lab analysis	Biannual	16.2	16.2	mg/l	W0151-01 EPA Trigger Level	80	-17%	No
23/2/11 22/9/11	MW-2	Total Oxidized Nitrogen	Lab analysis	Biannual	0.2	0.2	mg/l	W0151-01 EPA Trigger Level	N/A	-265%	No
23/2/11 22/9/11	MW-2	Zinc	Lab analysis	Biannual	0.003	0.003	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-3	Ammoniacal Nitrogen	Lab analysis	Biannual	0.09	0.065	mg/l NH ₄ -N	W0151-01 EPA Trigger Level	N/A	-27%	No
23/2/11 22/9/11	MW-3	Chloride	Lab analysis	Biannual	17.2	17.05	mg/l	W0151-01 EPA Trigger Level	70	-24%	No
23/2/11 22/9/11	MW-3	Phenols, Total	Lab analysis	Biannual	0.15	0.125	mg/l	W0151-01 EPA Trigger Level	0.1	-38%	No
23/2/11 22/9/11	MW-3	Sulphate	Lab analysis	Biannual	28.51	27.655	mg/l	W0151-01 EPA Trigger Level	140	-29%	No
23/2/11 22/9/11	MW-3	Total Organic Carbon	Lab analysis	Biannual	15	8.5	mg/l	W0151-01 EPA Trigger Level	50	-18%	No
23/2/11 22/9/11	MW-3	Colour	Field analysis	Biannual	Light brown	Clear	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-3	Conductivity	Field analysis	Biannual	0.48	0.48	mS/cm	W0151-01 EPA Trigger Level	1	-4%	No
23/2/11 22/9/11	MW-3	Dissolved Oxygen	Field analysis	Biannual	1.3	0.99	mg/l	W0151-01 EPA Trigger Level	N/A	-497%	No
23/2/11 22/9/11	MW-3	Level, Water	Field analysis	Biannual	12.28	11.635	mOD	W0151-01 EPA Trigger Level	N/A	-1%	No
23/2/11 22/9/11	MW-3	Odour	Field analysis	Biannual	None	None	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-3	pH	Field analysis	Biannual	7.6	7.55	pH	W0151-01 EPA Trigger Level	6<pH<9	-3%	No
23/2/11 22/9/11	MW-3	Temperature	Field analysis	Biannual	14.4	12.9	°C	W0151-01 EPA Trigger Level	N/A	14%	No

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23/2/11 22/9/11	MW-3	Alkalinity, Total	Lab analysis	Biannual	906	906	mg/l	W0151-01 EPA Trigger Level	N/A	80%	No
23/2/11 22/9/11	MW-3	Boron	Lab analysis	Biannual	0.024	0.024	mg/l	W0151-01 EPA Trigger Level	N/A	25%	No
23/2/11 22/9/11	MW-3	Cadmium	Lab analysis	Biannual	0.0005	0.0005	mg/l	W0151-01 EPA Trigger Level	0.004	0%	No
23/2/11 22/9/11	MW-3	Calcium	Lab analysis	Biannual	88.7	88.7	mg/l	W0151-01 EPA Trigger Level	N/A	11%	No
23/2/11 22/9/11	MW-3	Chromium, Total	Lab analysis	Biannual	0.0015	0.0015	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-3	Coliforms, Faecal	Lab analysis	Biannual	0	0	cfus/100ml	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-3	Coliforms, Total	Lab analysis	Biannual	1	1	cfus/100ml	W0151-01 EPA Trigger Level	N/A	-198500%	No
23/2/11 22/9/11	MW-3	Copper	Lab analysis	Biannual	0.007	0.007	mg/l	W0151-01 EPA Trigger Level	0.5	0%	No
23/2/11 22/9/11	MW-3	Cyanide	Lab analysis	Biannual	0.01	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	-300%	No
23/2/11 22/9/11	MW-3	Fluoride	Lab analysis	Biannual	0.3	0.3	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-3	Iron	Lab analysis	Biannual	0.02	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-3	Lead	Lab analysis	Biannual	0.005	0.005	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-3	Magnesium	Lab analysis	Biannual	5.7	5.7	mg/l	W0151-01 EPA Trigger Level	N/A	7%	No
23/2/11 22/9/11	MW-3	Manganese	Lab analysis	Biannual	0.047	0.047	mg/l	W0151-01 EPA Trigger Level	N/A	96%	No
23/2/11 22/9/11	MW-3	Mercury	Lab analysis	Biannual	0.001	0.001	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-3	Nickel	Lab analysis	Biannual	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-3	Orthophosp hates	Lab analysis	Biannual	0.14	0.14	mg/l	W0151-01 EPA Trigger Level	N/A	57%	No

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23/2/11 22/9/11	MW-3	Phosphorus, Total	Lab analysis	Biannual	0.084	0.084	mg/l	W0151-01 EPA Trigger Level	N/A	-57%	No
23/2/11 22/9/11	MW-3	Potassium	Lab analysis	Biannual	5	5	mg/l	W0151-01 EPA Trigger Level	N/A	50%	No
23/2/11 22/9/11	MW-3	Residue on Evaporation	Lab analysis	Biannual	306	306	mg/l	W0151-01 EPA Trigger Level	N/A	-3%	No
23/2/11 22/9/11	MW-3	Sodium	Lab analysis	Biannual	12.3	12.3	mg/l	W0151-01 EPA Trigger Level	80	2%	No
23/2/11 22/9/11	MW-3	Total Oxidized Nitrogen	Lab analysis	Biannual	0.5	0.5	mg/l	W0151-01 EPA Trigger Level	N/A	-40%	No
23/2/11 22/9/11	MW-3	Zinc	Lab analysis	Biannual	0.006	0.006	mg/l	W0151-01 EPA Trigger Level	N/A	50%	No
23/2/11 28/11/11 22/9/11	MW-4	Ammoniacal Nitrogen	Lab analysis	Biannual	0.57	0.5	mg/l NH ₄ -N	W0151-01 EPA Trigger Level	N/A	-21%	No
23/2/11 28/11/11 22/9/11	MW-4	Chloride	Lab analysis	Biannual	38.1	37.36666667	mg/l	W0151-01 EPA Trigger Level	70	-18%	No
23/2/11 28/11/11 22/9/11	MW-4	Phenols, Total	Lab analysis	Biannual	0.15	0.125	mg/l	W0151-01 EPA Trigger Level	0.1	-39%	No
23/2/11 28/11/11 22/9/11	MW-4	Sulphate	Lab analysis	Biannual	98.8	77.39333333	mg/l	W0151-01 EPA Trigger Level	140	-2%	No
23/2/11 28/11/11 22/9/11	MW-4	Total Organic Carbon	Lab analysis	Biannual	11	6.5	mg/l	W0151-01 EPA Trigger Level	50	-23%	No
23/2/11 28/11/11 22/9/11	MW-4	Colour	Field analysis	Biannual	Cloudy red	Cloudy red	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 28/11/11 22/9/11	MW-4	Conductivity	Field analysis	Biannual	0.89	0.750666667	mS/cm	W0151-01 EPA Trigger Level	1	-4%	No
23/2/11 28/11/11 22/9/11	MW-4	Dissolved Oxygen	Field analysis	Biannual	1.17	0.765	mg/l	W0151-01 EPA Trigger Level	N/A	-623%	No
23/2/11 28/11/11 22/9/11	MW-4	Level, Water	Field analysis	Biannual	12.25	11.615	mOD	W0151-01 EPA Trigger Level	N/A	-1%	No
23/2/11 28/11/11 22/9/11	MW-4	Odour	Field analysis	Biannual	Slight odour	None	N/A	W0151-01 EPA Trigger Level	N/A	0%	No

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23/2/11 28/11/11 22/9/11	MW-4	pH	Field analysis	Biannual	7.3	7.166666667	pH	W0151-01 EPA Trigger Level	6<pH<9	-3%	No
23/2/11 28/11/11 22/9/11	MW-4	Temperature	Field analysis	Biannual	14.2	12.75	°C	W0151-01 EPA Trigger Level	N/A	16%	No
23/2/11 28/11/11 22/9/11	MW-4	Alkalinity, Total	Lab analysis	Biannual	958	641	mg/l	W0151-01 EPA Trigger Level	N/A	63%	No
23/2/11 28/11/11 22/9/11	MW-4	Boron	Lab analysis	Biannual	0.063	0.063	mg/l	W0151-01 EPA Trigger Level	N/A	15%	No
23/2/11 28/11/11 22/9/11	MW-4	Cadmium	Lab analysis	Biannual	0.0005	0.0005	mg/l	W0151-01 EPA Trigger Level	0.004	-173%	No
23/2/11 28/11/11 22/9/11	MW-4	Calcium	Lab analysis	Biannual	None	99.9	mg/l	W0151-01 EPA Trigger Level	N/A	-9%	No
23/2/11 28/11/11 22/9/11	MW-4	Chromium, Total	Lab analysis	Biannual	0.0015	0.0015	mg/l	W0151-01 EPA Trigger Level	N/A	-100%	No
23/2/11 28/11/11 22/9/11	MW-4	Coliforms, Faecal	Lab analysis	Biannual	0	0	cfus/100ml	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 28/11/11 22/9/11	MW-4	Coliforms, Total	Lab analysis	Biannual	0	0	cfus/100ml	W0151-01 EPA Trigger Level	N/A	-480%	No
23/2/11 28/11/11 22/9/11	MW-4	Copper	Lab analysis	Biannual	0.007	0.007	mg/l	W0151-01 EPA Trigger Level	0.5	-86%	No
23/2/11 28/11/11 22/9/11	MW-4	Cyanide	Lab analysis	Biannual	0.01	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	-200%	No
23/2/11 28/11/11 22/9/11	MW-4	Fluoride	Lab analysis	Biannual	0.3	0.19	mg/l	W0151-01 EPA Trigger Level	N/A	-58%	No
23/2/11 28/11/11 22/9/11	MW-4	Iron	Lab analysis	Biannual	0.02	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	-73300%	No
23/2/11 28/11/11 22/9/11	MW-4	Lead	Lab analysis	Biannual	0.005	0.005	mg/l	W0151-01 EPA Trigger Level	N/A	-107%	No
23/2/11 28/11/11 22/9/11	MW-4	Magnesium	Lab analysis	Biannual	18.2	17	mg/l	W0151-01 EPA Trigger Level	N/A	11%	No
23/2/11 28/11/11 22/9/11	MW-4	Manganese	Lab analysis	Biannual	0.486	0.486	mg/l	W0151-01 EPA Trigger Level	N/A	-231%	No
23/2/11 28/11/11 22/9/11	MW-4	Mercury	Lab analysis	Biannual	0.001	0.001	mg/l	W0151-01 EPA Trigger Level	N/A	32%	No

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23/2/11 28/11/11 22/9/11	MW-4	Nickel	Lab analysis	Biannual	0.003	0.003	mg/l	W0151-01 EPA Trigger Level	N/A	-551%	No
23/2/11 28/11/11 22/9/11	MW-4	Orthophosphates	Lab analysis	Biannual	0.06	0.0325	mg/l	W0151-01 EPA Trigger Level	N/A	-174%	No
23/2/11 28/11/11 22/9/11	MW-4	Phosphorous, Total	Lab analysis	Biannual	0.005	0.005	mg/l	W0151-01 EPA Trigger Level	N/A	-60%	No
23/2/11 28/11/11 22/9/11	MW-4	Potassium	Lab analysis	Biannual	7.5	7.3	mg/l	W0151-01 EPA Trigger Level	N/A	38%	No
23/2/11 28/11/11 22/9/11	MW-4	Residue on Evaporation	Lab analysis	Biannual	332	332	mg/l	W0151-01 EPA Trigger Level	N/A	-221%	No
23/2/11 28/11/11 22/9/11	MW-4	Sodium	Lab analysis	Biannual	36.3	33.95	mg/l	W0151-01 EPA Trigger Level	80	-7%	No
23/2/11 28/11/11 22/9/11	MW-4	Total Oxidized Nitrogen	Lab analysis	Biannual	0.2	0.2	mg/l	W0151-01 EPA Trigger Level	N/A	-67%	No
23/2/11 28/11/11 22/9/11	MW-4	Zinc	Lab analysis	Biannual	0.003	0.003	mg/l	W0151-01 EPA Trigger Level	N/A	-300%	No
23/2/11 22/9/11	MW-5	Ammoniacal Nitrogen	Lab analysis	Biannual	0.1	0.07	mg/l NH ₄ -N	W0151-01 EPA Trigger Level	N/A	4%	No
23/2/11 22/9/11	MW-5	Chloride	Lab analysis	Biannual	32.4	24.40	mg/l	W0151-01 EPA Trigger Level	70	-29%	No
23/2/11 22/9/11	MW-5	Phenols, Total	Lab analysis	Biannual	0.15	0.13	mg/l	W0151-01 EPA Trigger Level	0.1	-38%	No
23/2/11 22/9/11	MW-5	Sulphate	Lab analysis	Biannual	96.06	58.84	mg/l	W0151-01 EPA Trigger Level	140	-5%	No
23/2/11 22/9/11	MW-5	Total Organic Carbon	Lab analysis	Biannual	6	4.00	mg/l	W0151-01 EPA Trigger Level	50	-163%	No
23/2/11 22/9/11	MW-5	Colour	Field analysis	Biannual	Clear	Clear	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-5	Conductivity	Field analysis	Biannual	0.72	0.54	mS/cm	W0151-01 EPA Trigger Level	1	6%	No
23/2/11 22/9/11	MW-5	Dissolved Oxygen	Field analysis	Biannual	1.48	1.39	mg/l	W0151-01 EPA Trigger Level	N/A	-393%	No

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23/2/11 22/9/11	MW-5	Level, Water	Field analysis	Biannual	12.32	11.76	mOD	W0151-01 EPA Trigger Level	N/A	-3%	No
23/2/11 22/9/11	MW-5	Odour	Field analysis	Biannual	None	None	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-5	pH	Field analysis	Biannual	8	7.70	pH	W0151-01 EPA Trigger Level	6<pH<9	-1%	No
23/2/11 22/9/11	MW-5	Temperature	Field analysis	Biannual	14.6	12.15	°C	W0151-01 EPA Trigger Level	N/A	15%	No
23/2/11 22/9/11	MW-5	Alkalinity, Total	Lab analysis	Biannual	888	888.00	mg/l	W0151-01 EPA Trigger Level	N/A	84%	No
23/2/11 22/9/11	MW-5	Boron	Lab analysis	Biannual	0.058	0.06	mg/l	W0151-01 EPA Trigger Level	N/A	66%	No
23/2/11 22/9/11	MW-5	Cadmium	Lab analysis	Biannual	0.0005	0.00	mg/l	W0151-01 EPA Trigger Level	0.004	0%	No
23/2/11 22/9/11	MW-5	Calcium	Lab analysis	Biannual	123.4	123.40	mg/l	W0151-01 EPA Trigger Level	N/A	52%	No
23/2/11 22/9/11	MW-5	Chromium, Total	Lab analysis	Biannual	0.0015	0.00	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-5	Coliforms, Faecal	Lab analysis	Biannual	0	0.00	cfus/100ml	W0151-01 EPA Trigger Level	N/A	-200%	No
23/2/11 22/9/11	MW-5	Coliforms, Total	Lab analysis	Biannual	0	0.00	cfus/100ml	W0151-01 EPA Trigger Level	N/A	-4220%	No
23/2/11 22/9/11	MW-5	Copper	Lab analysis	Biannual	0.007	0.01	mg/l	W0151-01 EPA Trigger Level	0.5	0%	No
23/2/11 22/9/11	MW-5	Cyanide	Lab analysis	Biannual	0.01	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	-300%	No
23/2/11 22/9/11	MW-5	Fluoride	Lab analysis	Biannual	0.3	0.30	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-5	Iron	Lab analysis	Biannual	0.02	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-5	Lead	Lab analysis	Biannual	0.005	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-5	Magnesium	Lab analysis	Biannual	15.9	15.90	mg/l	W0151-01 EPA Trigger Level	N/A	67%	No

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23/2/11 22/9/11	MW-5	Manganese	Lab analysis	Biannual	0.252	0.25	mg/l	W0151-01 EPA Trigger Level	N/A	99%	No
23/2/11 22/9/11	MW-5	Mercury	Lab analysis	Biannual	0.001	0.00	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-5	Nickel	Lab analysis	Biannual	0.002	0.00	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-5	Orthophosphates	Lab analysis	Biannual	0.06	0.06	mg/l	W0151-01 EPA Trigger Level	N/A	-1200%	No
23/2/11 22/9/11	MW-5	Phosphorous, Total	Lab analysis	Biannual	0.04	0.04	mg/l	W0151-01 EPA Trigger Level	N/A	-775%	No
23/2/11 22/9/11	MW-5	Potassium	Lab analysis	Biannual	12.1	12.10	mg/l	W0151-01 EPA Trigger Level	N/A	45%	No
23/2/11 22/9/11	MW-5	Residue on Evaporation	Lab analysis	Biannual	511	511.00	mg/l	W0151-01 EPA Trigger Level	N/A	44%	No
23/2/11 22/9/11	MW-5	Sodium	Lab analysis	Biannual	28	28.00	mg/l	W0151-01 EPA Trigger Level	80	34%	No
23/2/11 22/9/11	MW-5	Total Oxidized Nitrogen	Lab analysis	Biannual	1.8	1.80	mg/l	W0151-01 EPA Trigger Level	N/A	-47%	No
23/2/11 22/9/11	MW-5	Zinc	Lab analysis	Biannual	0.003	0.00	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-6	Ammoniacal Nitrogen	Lab analysis	Biannual	0.16	0.095	mg/l NH ₄ -N	W0151-01 EPA Trigger Level	N/A	29%	No
23/2/11 22/9/11	MW-6	Chloride	Lab analysis	Biannual	16.3	16.15	mg/l	W0151-01 EPA Trigger Level	70	-56%	No
23/2/11 22/9/11	MW-6	Phenols, Total	Lab analysis	Biannual	0.15	0.125	mg/l	W0151-01 EPA Trigger Level	0.1	-38%	No
23/2/11 22/9/11	MW-6	Sulphate	Lab analysis	Biannual	40.48	38.49	mg/l	W0151-01 EPA Trigger Level	140	18%	No
23/2/11 22/9/11	MW-6	Total Organic Carbon	Lab analysis	Biannual	7	4.5	mg/l	W0151-01 EPA Trigger Level	50	-139%	No
23/2/11 22/9/11	MW-6	Colour	Field analysis	Biannual	Clear	Clear	N/A	W0151-01 EPA Trigger Level	N/A	0%	No

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23/2/11 22/9/11	MW-6	Conductivity	Field analysis	Biannual	0.51	0.5	mS/cm	W0151-01 EPA Trigger Level	1	10%	No
23/2/11 22/9/11	MW-6	Dissolved Oxygen	Field analysis	Biannual	1.91	1.865	mg/l	W0151-01 EPA Trigger Level	N/A	-240%	No
23/2/11 22/9/11	MW-6	Level, Water	Field analysis	Biannual	12.31	11.74	mOD	W0151-01 EPA Trigger Level	N/A	-1%	No
23/2/11 22/9/11	MW-6	Odour	Field analysis	Biannual	None	None	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-6	pH	Field analysis	Biannual	7.9	7.85	pH	W0151-01 EPA Trigger Level	6<pH<9	2%	No
23/2/11 22/9/11	MW-6	Temperature	Field analysis	Biannual	14.2	11.85	°C	W0151-01 EPA Trigger Level	N/A	14%	No
23/2/11 22/9/11	MW-6	Alkalinity, Total	Lab analysis	Biannual	966	966	mg/l	W0151-01 EPA Trigger Level	N/A	86%	No
23/2/11 22/9/11	MW-6	Boron	Lab analysis	Biannual	0.035	0.035	mg/l	W0151-01 EPA Trigger Level	N/A	43%	No
23/2/11 22/9/11	MW-6	Cadmium	Lab analysis	Biannual	0.0005	0.0005	mg/l	W0151-01 EPA Trigger Level	0.004	0%	No
23/2/11 22/9/11	MW-6	Calcium	Lab analysis	Biannual	59	59	mg/l	W0151-01 EPA Trigger Level	N/A	19%	No
23/2/11 22/9/11	MW-6	Chromium, Total	Lab analysis	Biannual	0.0015	0.0015	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-6	Coliforms, Faecal	Lab analysis	Biannual	9	9	cfus/100ml	W0151-01 EPA Trigger Level	N/A	56%	No
23/2/11 22/9/11	MW-6	Coliforms, Total	Lab analysis	Biannual	9	9	cfus/100ml	W0151-01 EPA Trigger Level	N/A	-318%	No
23/2/11 22/9/11	MW-6	Copper	Lab analysis	Biannual	0.007	0.007	mg/l	W0151-01 EPA Trigger Level	0.5	0%	No
23/2/11 22/9/11	MW-6	Cyanide	Lab analysis	Biannual	0.01	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	-300%	No
23/2/11 22/9/11	MW-6	Fluoride	Lab analysis	Biannual	0.3	0.3	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-6	Iron	Lab analysis	Biannual	0.02	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No

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23/2/11 22/9/11	MW-6	Lead	Lab analysis	Biannual	0.005	0.005	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-6	Magnesium	Lab analysis	Biannual	9.1	9.1	mg/l	W0151-01 EPA Trigger Level	N/A	54%	No
23/2/11 22/9/11	MW-6	Manganese	Lab analysis	Biannual	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-6	Mercury	Lab analysis	Biannual	0.001	0.001	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-6	Nickel	Lab analysis	Biannual	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-6	Orthophosphates	Lab analysis	Biannual	0.62	0.62	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-6	Phosphorous, Total	Lab analysis	Biannual	0.266	0.266	mg/l	W0151-01 EPA Trigger Level	N/A	-100%	No
23/2/11 22/9/11	MW-6	Potassium	Lab analysis	Biannual	29.5	29.5	mg/l	W0151-01 EPA Trigger Level	N/A	-5%	No
23/2/11 22/9/11	MW-6	Residue on Evaporation	Lab analysis	Biannual	321	321	mg/l	W0151-01 EPA Trigger Level	N/A	10%	No
23/2/11 22/9/11	MW-6	Sodium	Lab analysis	Biannual	25.1	25.1	mg/l	W0151-01 EPA Trigger Level	80	27%	No
23/2/11 22/9/11	MW-6	Total Oxidized Nitrogen	Lab analysis	Biannual	0.8	0.8	mg/l	W0151-01 EPA Trigger Level	N/A	-285%	No
23/2/11 22/9/11	MW-6	Zinc	Lab analysis	Biannual	0.005	0.005	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-14	Ammoniacal Nitrogen	Lab analysis	Biannual	0.07	0.05	mg/l NH ₄ -N	W0151-01 EPA Trigger Level	N/A	-100%	No
23/2/11 22/9/11	MW-14	Chloride	Lab analysis	Biannual	43.9	42.6	mg/l	W0151-01 EPA Trigger Level	70	-9%	No
23/2/11 22/9/11	MW-14	Phenols, Total	Lab analysis	Biannual	0.15	0.125	mg/l	W0151-01 EPA Trigger Level	0.1	-38%	No
23/2/11 22/9/11	MW-14	Sulphate	Lab analysis	Biannual	1.4	0.925	mg/l	W0151-01 EPA Trigger Level	140	24%	No

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23/2/11 22/9/11	MW-14	Total Organic Carbon	Lab analysis	Biannual	9	7	mg/l	W0151-01 EPA Trigger Level	50	7%	No
23/2/11 22/9/11	MW-14	Colour	Field analysis	Biannual	Clear	Clear	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-14	Conductivity	Field analysis	Biannual	0.21	0.21	mS/cm	W0151-01 EPA Trigger Level	1	-15%	No
23/2/11 22/9/11	MW-14	Dissolved Oxygen	Field analysis	Biannual	3.5	2.1	mg/l	W0151-01 EPA Trigger Level	N/A	-88%	No
23/2/11 22/9/11	MW-14	Level, Water	Field analysis	Biannual	12.46	11.625	mOD	W0151-01 EPA Trigger Level	N/A	-2%	No
23/2/11 22/9/11	MW-14	Odour	Field analysis	Biannual	None	None	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-14	pH	Field analysis	Biannual	8.5	8.1	pH	W0151-01 EPA Trigger Level	6<pH<9	-5%	No
23/2/11 22/9/11	MW-14	Temperature	Field analysis	Biannual	13.2	12.8	°C	W0151-01 EPA Trigger Level	N/A	10%	No
23/2/11 22/9/11	MW-14	Alkalinity, Total	Lab analysis	Biannual	896	896	mg/l	W0151-01 EPA Trigger Level	N/A	97%	No
23/2/11 22/9/11	MW-14	Boron	Lab analysis	Biannual	0.023	0.023	mg/l	W0151-01 EPA Trigger Level	N/A	22%	No
23/2/11 22/9/11	MW-14	Cadmium	Lab analysis	Biannual	0.0005	0.0005	mg/l	W0151-01 EPA Trigger Level	0.004	0%	No
23/2/11 22/9/11	MW-14	Calcium	Lab analysis	Biannual	7	7	mg/l	W0151-01 EPA Trigger Level	N/A	-6%	No
23/2/11 22/9/11	MW-14	Chromium, Total	Lab analysis	Biannual	0.0015	0.0015	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-14	Coliforms, Faecal	Lab analysis	Biannual	0	0	cfus/100ml	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-14	Coliforms, Total	Lab analysis	Biannual	0	0	cfus/100ml	W0151-01 EPA Trigger Level	N/A	-200%	No
23/2/11 22/9/11	MW-14	Copper	Lab analysis	Biannual	0.007	0.007	mg/l	W0151-01 EPA Trigger Level	0.5	0%	No
23/2/11 22/9/11	MW-14	Cyanide	Lab analysis	Biannual	0.01	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	-300%	No

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23/2/11 22/9/11	MW-14	Fluoride	Lab analysis	Biannual	1.3	1.3	mg/l	W0151-01 EPA Trigger Level	N/A	8%	No
23/2/11 22/9/11	MW-14	Iron	Lab analysis	Biannual	0.02	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-14	Lead	Lab analysis	Biannual	0.005	0.005	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-14	Magnesium	Lab analysis	Biannual	0.3	0.3	mg/l	W0151-01 EPA Trigger Level	N/A	-33%	No
23/2/11 22/9/11	MW-14	Manganese	Lab analysis	Biannual	0.007	0.007	mg/l	W0151-01 EPA Trigger Level	N/A	-29%	No
23/2/11 22/9/11	MW-14	Mercury	Lab analysis	Biannual	0.001	0.001	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-14	Nickel	Lab analysis	Biannual	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-14	Orthophosphates	Lab analysis	Biannual	0.06	0.06	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-14	Phosphorous, Total	Lab analysis	Biannual	0.038	0.038	mg/l	W0151-01 EPA Trigger Level	N/A	26%	No
23/2/11 22/9/11	MW-14	Potassium	Lab analysis	Biannual	1.6	1.6	mg/l	W0151-01 EPA Trigger Level	N/A	6%	No
23/2/11 22/9/11	MW-14	Residue on Evaporation	Lab analysis	Biannual	122	122	mg/l	W0151-01 EPA Trigger Level	N/A	9%	No
23/2/11 22/9/11	MW-14	Sodium	Lab analysis	Biannual	35.7	35.7	mg/l	W0151-01 EPA Trigger Level	80	-5%	No
23/2/11 22/9/11	MW-14	Total Oxidized Nitrogen	Lab analysis	Biannual	0.2	0.2	mg/l	W0151-01 EPA Trigger Level	N/A	35%	No
23/2/11 22/9/11	MW-14	Zinc	Lab analysis	Biannual	0.009	0.009	mg/l	W0151-01 EPA Trigger Level	N/A	56%	No
23/2/11 22/9/11	MW-16	Ammoniacal Nitrogen	Lab analysis	Biannual	0.05	0.05	mg/l NH ₄ -N	W0151-01 EPA Trigger Level	N/A	-70%	No
23/2/11 22/9/11	MW-16	Chloride	Lab analysis	Biannual	46.9	46.3	mg/l	W0151-01 EPA Trigger Level	70	-3%	No

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23/2/11 22/9/11	MW-16	Phenols, Total	Lab analysis	Biannual	0.15	0.125	mg/l	W0151-01 EPA Trigger Level	0.1	-38%	No
23/2/11 22/9/11	MW-16	Sulphate	Lab analysis	Biannual	10.36	8.51	mg/l	W0151-01 EPA Trigger Level	140	2%	No
23/2/11 22/9/11	MW-16	Total Organic Carbon	Lab analysis	Biannual	7	5	mg/l	W0151-01 EPA Trigger Level	50	-30%	No
23/2/11 22/9/11	MW-16	Colour	Field analysis	Biannual	Clear	Clear	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-16	Conductivity	Field analysis	Biannual	0.4	0.36	mS/cm	W0151-01 EPA Trigger Level	1	-5%	No
23/2/11 22/9/11	MW-16	Dissolved Oxygen	Field analysis	Biannual	1.3	0.955	mg/l	W0151-01 EPA Trigger Level	N/A	-288%	No
23/2/11 22/9/11	MW-16	Level, Water	Field analysis	Biannual	11.83	11.07	mOD	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-16	Odour	Field analysis	Biannual	Slight odour	None	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-16	pH	Field analysis	Biannual	8.2	8	pH	W0151-01 EPA Trigger Level	6<pH<9	2%	No
23/2/11 22/9/11	MW-16	Temperature	Field analysis	Biannual	14.2	12.8	°C	W0151-01 EPA Trigger Level	N/A	12%	No
23/2/11 22/9/11	MW-16	Alkalinity, Total	Lab analysis	Biannual	942	942	mg/l	W0151-01 EPA Trigger Level	N/A	88%	No
23/2/11 22/9/11	MW-16	Boron	Lab analysis	Biannual	0.023	0.023	mg/l	W0151-01 EPA Trigger Level	N/A	17%	No
23/2/11 22/9/11	MW-16	Cadmium	Lab analysis	Biannual	0.0005	0.0005	mg/l	W0151-01 EPA Trigger Level	0.004	0%	No
23/2/11 22/9/11	MW-16	Calcium	Lab analysis	Biannual	28	28	mg/l	W0151-01 EPA Trigger Level	N/A	-18%	No
23/2/11 22/9/11	MW-16	Chromium, Total	Lab analysis	Biannual	0.0015	0.0015	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-16	Coliforms, Faecal	Lab analysis	Biannual	0	0	cfus/100ml	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-16	Coliforms, Total	Lab analysis	Biannual	0	0	cfus/100ml	W0151-01 EPA Trigger Level	N/A	-100%	No

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23/2/11 22/9/11	MW-16	Copper	Lab analysis	Biannual	0.007	0.007	mg/l	W0151-01 EPA Trigger Level	0.5	0%	No
23/2/11 22/9/11	MW-16	Cyanide	Lab analysis	Biannual	0.01	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	-300%	No
23/2/11 22/9/11	MW-16	Fluoride	Lab analysis	Biannual	0.3	0.3	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-16	Iron	Lab analysis	Biannual	0.02	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-16	Lead	Lab analysis	Biannual	0.005	0.005	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-16	Magnesium	Lab analysis	Biannual	8.4	8.4	mg/l	W0151-01 EPA Trigger Level	N/A	-15%	No
23/2/11 22/9/11	MW-16	Manganese	Lab analysis	Biannual	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-16	Mercury	Lab analysis	Biannual	0.001	0.001	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-16	Nickel	Lab analysis	Biannual	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-16	Orthophosphates	Lab analysis	Biannual	0.06	0.06	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-16	Phosphorous, Total	Lab analysis	Biannual	0.029	0.029	mg/l	W0151-01 EPA Trigger Level	N/A	62%	No
23/2/11 22/9/11	MW-16	Potassium	Lab analysis	Biannual	2.4	2.4	mg/l	W0151-01 EPA Trigger Level	N/A	-8%	No
23/2/11 22/9/11	MW-16	Residue on Evaporation	Lab analysis	Biannual	193	193	mg/l	W0151-01 EPA Trigger Level	N/A	-9%	No
23/2/11 22/9/11	MW-16	Sodium	Lab analysis	Biannual	34.1	34.1	mg/l	W0151-01 EPA Trigger Level	80	5%	No
23/2/11 22/9/11	MW-16	Total Oxidized Nitrogen	Lab analysis	Biannual	0.2	0.2	mg/l	W0151-01 EPA Trigger Level	N/A	40%	No
23/2/11 22/9/11	MW-16	Zinc	Lab analysis	Biannual	0.003	0.003	mg/l	W0151-01 EPA Trigger Level	N/A	-167%	No

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23/2/11 22/9/11	MW-17	Ammoniacal Nitrogen	Lab analysis	Biannual	0.05	0.04	mg/l NH ₄ -N	W0151-01 EPA Trigger Level	N/A	-75%	No
23/2/11 22/9/11	MW-17	Chloride	Lab analysis	Biannual	42	38.6	mg/l	W0151-01 EPA Trigger Level	70	-27%	No
23/2/11 22/9/11	MW-17	Phenols, Total	Lab analysis	Biannual	0.15	0.125	mg/l	W0151-01 EPA Trigger Level	0.1	-38%	No
23/2/11 22/9/11	MW-17	Sulphate	Lab analysis	Biannual	100.24	92.595	mg/l	W0151-01 EPA Trigger Level	140	-4%	No
23/2/11 22/9/11	MW-17	Total Organic Carbon	Lab analysis	Biannual	7	4.5	mg/l	W0151-01 EPA Trigger Level	50	-122%	No
23/2/11 22/9/11	MW-17	Colour	Field analysis	Biannual	Cloudy	Cloudy	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-17	Conductivity	Field analysis	Biannual	1.04	1	mS/cm	W0151-01 EPA Trigger Level	1	-4%	No
23/2/11 22/9/11	MW-17	Dissolved Oxygen	Field analysis	Biannual	1.81	1.395	mg/l	W0151-01 EPA Trigger Level	N/A	-378%	No
23/2/11 22/9/11	MW-17	Level, Water	Field analysis	Biannual	11.8	10.995	mOD	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-17	Odour	Field analysis	Biannual	None	None	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-17	pH	Field analysis	Biannual	7.2	7.1	pH	W0151-01 EPA Trigger Level	6<pH<9	0%	No
23/2/11 22/9/11	MW-17	Temperature	Field analysis	Biannual	15.1	13	°C	W0151-01 EPA Trigger Level	N/A	12%	No
23/2/11 22/9/11	MW-17	Alkalinity, Total	Lab analysis	Biannual	1008	1008	mg/l	W0151-01 EPA Trigger Level	N/A	72%	No
23/2/11 22/9/11	MW-17	Boron	Lab analysis	Biannual	0.054	0.054	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-17	Cadmium	Lab analysis	Biannual	0.5	0.5	mg/l	W0151-01 EPA Trigger Level	0.004	100%	No
23/2/11 22/9/11	MW-17	Calcium	Lab analysis	Biannual	155.2	155.2	mg/l	W0151-01 EPA Trigger Level	N/A	-7%	No
23/2/11 22/9/11	MW-17	Chromium, Total	Lab analysis	Biannual	0.0015	0.0015	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No

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23/2/11 22/9/11	MW-17	Coliforms, Faecal	Lab analysis	Biannual	0	0	cfus/100ml	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-17	Coliforms, Total	Lab analysis	Biannual	0	0	cfus/100ml	W0151-01 EPA Trigger Level	N/A	-100%	No
23/2/11 22/9/11	MW-17	Copper	Lab analysis	Biannual	0.007	0.007	mg/l	W0151-01 EPA Trigger Level	0.5	0%	No
23/2/11 22/9/11	MW-17	Cyanide	Lab analysis	Biannual	0.01	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	-300%	No
23/2/11 22/9/11	MW-17	Fluoride	Lab analysis	Biannual	0.3	0.3	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-17	Iron	Lab analysis	Biannual	0.02	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-17	Lead	Lab analysis	Biannual	0.005	0.005	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-17	Magnesium	Lab analysis	Biannual	21.1	21.1	mg/l	W0151-01 EPA Trigger Level	N/A	8%	No
23/2/11 22/9/11	MW-17	Manganese	Lab analysis	Biannual	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-17	Mercury	Lab analysis	Biannual	0.001	0.001	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-17	Nickel	Lab analysis	Biannual	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-17	Orthophosphates	Lab analysis	Biannual	0.06	0.06	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-17	Phosphorous, Total	Lab analysis	Biannual	0.005	0.005	mg/l	W0151-01 EPA Trigger Level	N/A	-2240%	No
23/2/11 22/9/11	MW-17	Potassium	Lab analysis	Biannual	11.4	11.4	mg/l	W0151-01 EPA Trigger Level	N/A	45%	No
23/2/11 22/9/11	MW-17	Residue on Evaporation	Lab analysis	Biannual	820	820	mg/l	W0151-01 EPA Trigger Level	N/A	14%	No
23/2/11 22/9/11	MW-17	Sodium	Lab analysis	Biannual	31.7	31.7	mg/l	W0151-01 EPA Trigger Level	80	-10%	No
23/2/11 22/9/11	MW-17	Total Oxidized Nitrogen	Lab analysis	Biannual	12.3	12.3	mg/l	W0151-01 EPA Trigger Level	N/A	89%	No

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23/2/11 22/9/11	MW-17	Zinc	Lab analysis	Biannual	0.003	0.003	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-20	Ammoniacal Nitrogen	Lab analysis	Biannual	0.08	0.053333333	mg/l NH ₄ -N	W0151-01 EPA Trigger Level	N/A	25%	No
23/2/11 22/9/11	MW-20	Chloride	Lab analysis	Biannual	42.5	37.96666667	mg/l	W0151-01 EPA Trigger Level	70	-5%	No
23/2/11 22/9/11	MW-20	Phenols, Total	Lab analysis	Biannual	0.15	0.125	mg/l	W0151-01 EPA Trigger Level	0.1	-39%	No
23/2/11 22/9/11	MW-20	Sulphate	Lab analysis	Biannual	97.3	92.4	mg/l	W0151-01 EPA Trigger Level	140	12%	No
23/2/11 22/9/11	MW-20	Total Organic Carbon	Lab analysis	Biannual	9	5.5	mg/l	W0151-01 EPA Trigger Level	50	-49%	No
23/2/11 22/9/11	MW-20	Colour	Field analysis	Biannual	Light brown	Cloudy	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-20	Conductivity	Field analysis	Biannual	1.01	0.935	mS/cm	W0151-01 EPA Trigger Level	1	4%	No
23/2/11 22/9/11	MW-20	Dissolved Oxygen	Field analysis	Biannual	1.45	1.15	mg/l	W0151-01 EPA Trigger Level	N/A	-394%	No
23/2/11 22/9/11	MW-20	Level, Water	Field analysis	Biannual	11.85	10.94	mOD	W0151-01 EPA Trigger Level	N/A	-1%	No
23/2/11 22/9/11	MW-20	Odour	Field analysis	Biannual	None	None	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-20	pH	Field analysis	Biannual	7.4	7.1	pH	W0151-01 EPA Trigger Level	6<pH<9	-4%	No
23/2/11 22/9/11	MW-20	Temperature	Field analysis	Biannual	15.4	13.75	°C	W0151-01 EPA Trigger Level	N/A	28%	No
23/2/11 22/9/11	MW-20	Alkalinity, Total	Lab analysis	Biannual	892	641.5	mg/l	W0151-01 EPA Trigger Level	N/A	41%	No
23/2/11 22/9/11	MW-20	Boron	Lab analysis	Biannual	0.081	0.081	mg/l	W0151-01 EPA Trigger Level	N/A	20%	No
23/2/11 22/9/11	MW-20	Cadmium	Lab analysis	Biannual	0.0005	0.0005	mg/l	W0151-01 EPA Trigger Level	0.004	-127%	No

Groundwater /Contaminated land summary report

23/2/11 22/9/11	MW-20	Calcium	Lab analysis	Biannual	165.4	162.1	mg/l	W0151-01 EPA Trigger Level	N/A	17%	No
23/2/11 22/9/11	MW-20	Chromium, Total	Lab analysis	Biannual	0.0015	0.0015	mg/l	W0151-01 EPA Trigger Level	N/A	-167%	No
23/2/11 22/9/11	MW-20	Coliforms, Faecal	Lab analysis	Biannual	0	0	cfus/100ml	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-20	Coliforms, Total	Lab analysis	Biannual	0	0	cfus/100ml	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-20	Copper	Lab analysis	Biannual	0.007	0.007	mg/l	W0151-01 EPA Trigger Level	0.5	-352%	No
23/2/11 22/9/11	MW-20	Cyanide	Lab analysis	Biannual	0.01	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	-200%	No
23/2/11 22/9/11	MW-20	Fluoride	Lab analysis	Biannual	0.3	0.18	mg/l	W0151-01 EPA Trigger Level	N/A	-67%	No
23/2/11 22/9/11	MW-20	Iron	Lab analysis	Biannual	0.02	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	-15383%	No
23/2/11 22/9/11	MW-20	Lead	Lab analysis	Biannual	0.005	0.005	mg/l	W0151-01 EPA Trigger Level	N/A	-160%	No
23/2/11 22/9/11	MW-20	Magnesium	Lab analysis	Biannual	22.8	21.2	mg/l	W0151-01 EPA Trigger Level	N/A	14%	No
23/2/11 22/9/11	MW-20	Manganese	Lab analysis	Biannual	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	-37133%	No
23/2/11 22/9/11	MW-20	Mercury	Lab analysis	Biannual	0.001	0.001	mg/l	W0151-01 EPA Trigger Level	N/A	-268%	No
23/2/11 22/9/11	MW-20	Nickel	Lab analysis	Biannual	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	-1283%	No
23/2/11 22/9/11	MW-20	Orthophosp hates	Lab analysis	Biannual	0.06	0.0325	mg/l	W0151-01 EPA Trigger Level	N/A	-113%	No
23/2/11 22/9/11	MW-20	Phosphorou s, Total	Lab analysis	Biannual	0.075	0.075	mg/l	W0151-01 EPA Trigger Level	N/A	-957%	No
23/2/11 22/9/11	MW-20	Potassium	Lab analysis	Biannual	8.1	7.45	mg/l	W0151-01 EPA Trigger Level	N/A	18%	No
23/2/11 22/9/11	MW-20	Residue on Evaporation	Lab analysis	Biannual	1030	1030	mg/l	W0151-01 EPA Trigger Level	N/A	-59%	No

Groundwater /Contaminated land summary report

23/2/11 22/9/11	MW-20	Sodium	Lab analysis	Biannual	38.1	38.1	mg/l	W0151-01 EPA Trigger Level	80	9%	No
23/2/11 22/9/11	MW-20	Total Oxidized Nitrogen	Lab analysis	Biannual	2.3	2.25	mg/l	W0151-01 EPA Trigger Level	N/A	26%	No
23/2/11 22/9/11	MW-20	Zinc	Lab analysis	Biannual	0.003	0.003	mg/l	W0151-01 EPA Trigger Level	N/A	-700%	No
23/2/11 22/9/11	MW-22	Ammoniacal Nitrogen	Lab analysis	Biannual	0.09	0.06	mg/l NH ₄ -N	W0151-01 EPA Trigger Level	N/A	4%	No
23/2/11 22/9/11	MW-22	Chloride	Lab analysis	Biannual	145.6	136.3	mg/l	W0151-01 EPA Trigger Level	70	-3%	No
23/2/11 22/9/11	MW-22	Phenols, Total	Lab analysis	Biannual	0.15	0.125	mg/l	W0151-01 EPA Trigger Level	0.1	-38%	No
23/2/11 22/9/11	MW-22	Sulphate	Lab analysis	Biannual	21.25	19.525	mg/l	W0151-01 EPA Trigger Level	140	-6%	No
23/2/11 22/9/11	MW-22	Total Organic Carbon	Lab analysis	Biannual	7	4.5	mg/l	W0151-01 EPA Trigger Level	50	-128%	No
23/2/11 22/9/11	MW-22	Colour	Field analysis	Biannual	Reddish cloudy	Light brown	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-22	Conductivity	Field analysis	Biannual	1.27	1.21	mS/cm	W0151-01 EPA Trigger Level	1	-3%	No
23/2/11 22/9/11	MW-22	Dissolved Oxygen	Field analysis	Biannual	4	2.72	mg/l	W0151-01 EPA Trigger Level	N/A	-137%	No
23/2/11 22/9/11	MW-22	Level, Water	Field analysis	Biannual	15.31	14.89	mOD	W0151-01 EPA Trigger Level	N/A	-1%	No
23/2/11 22/9/11	MW-22	Odour	Field analysis	Biannual	None	None	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-22	pH	Field analysis	Biannual	7.5	7.2	pH	W0151-01 EPA Trigger Level	6<pH<9	1%	No
23/2/11 22/9/11	MW-22	Temperature	Field analysis	Biannual	14.9	13.1	°C	W0151-01 EPA Trigger Level	N/A	22%	No
23/2/11 22/9/11	MW-22	Alkalinity, Total	Lab analysis	Biannual	1038	1038	mg/l	W0151-01 EPA Trigger Level	N/A	69%	No

Groundwater /Contaminated land summary report

23/2/11 22/9/11	MW-22	Boron	Lab analysis	Biannual	0.021	0.021	mg/l	W0151-01 EPA Trigger Level	N/A	19%	No
23/2/11 22/9/11	MW-22	Cadmium	Lab analysis	Biannual	0.0005	0.0005	mg/l	W0151-01 EPA Trigger Level	0.004	0%	No
23/2/11 22/9/11	MW-22	Calcium	Lab analysis	Biannual	158.1	158.1	mg/l	W0151-01 EPA Trigger Level	N/A	-31%	No
23/2/11 22/9/11	MW-22	Chromium, Total	Lab analysis	Biannual	0.0015	0.0015	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-22	Coliforms, Faecal	Lab analysis	Biannual	203	203	cfus/100ml	W0151-01 EPA Trigger Level	N/A	100%	No
23/2/11 22/9/11	MW-22	Coliforms, Total	Lab analysis	Biannual	203	203	cfus/100ml	W0151-01 EPA Trigger Level	N/A	-528%	No
23/2/11 22/9/11	MW-22	Copper	Lab analysis	Biannual	0.007	0.007	mg/l	W0151-01 EPA Trigger Level	0.5	0%	No
23/2/11 22/9/11	MW-22	Cyanide	Lab analysis	Biannual	0.01	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	-300%	No
23/2/11 22/9/11	MW-22	Fluoride	Lab analysis	Biannual	0.3	0.3	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-22	Iron	Lab analysis	Biannual	0.02	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-22	Lead	Lab analysis	Biannual	0.005	0.005	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-22	Magnesium	Lab analysis	Biannual	10.6	10.6	mg/l	W0151-01 EPA Trigger Level	N/A	-23%	No
23/2/11 22/9/11	MW-22	Manganese	Lab analysis	Biannual	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-22	Mercury	Lab analysis	Biannual	0.001	0.001	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-22	Nickel	Lab analysis	Biannual	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-22	Orthophosp hates	Lab analysis	Biannual	0.06	0.06	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	MW-22	Phosphorou s, Total	Lab analysis	Biannual	0.026	0.026	mg/l	W0151-01 EPA Trigger Level	N/A	-1400%	No

Groundwater /Contaminated land summary report

23/2/11 22/9/11	MW-22	Potassium	Lab analysis	Biannual	1.4	1.4	mg/l	W0151-01 EPA Trigger Level	N/A	7%	No
23/2/11 22/9/11	MW-22	Residue on Evaporation	Lab analysis	Biannual	871	871	mg/l	W0151-01 EPA Trigger Level	N/A	-63%	No
23/2/11 22/9/11	MW-22	Sodium	Lab analysis	Biannual	99.2	99.2	mg/l	W0151-01 EPA Trigger Level	80	4%	No
23/2/11 22/9/11	MW-22	Total Oxidized Nitrogen	Lab analysis	Biannual	5	5	mg/l	W0151-01 EPA Trigger Level	N/A	-3%	No
23/2/11 22/9/11	MW-22	Zinc	Lab analysis	Biannual	0.003	0.003	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	PW-3	Ammoniacal Nitrogen	Lab analysis	Quarterly	0.06	0.055	mg/l NH ₄ -N	W0151-01 EPA Trigger Level	N/A	-164%	No
23/2/11 22/9/11	PW-3	Chloride	Lab analysis	Quarterly	39.5	39.45	mg/l	W0151-01 EPA Trigger Level	70	10%	No
23/2/11 22/9/11	PW-3	Phenols, Total	Lab analysis	Quarterly	0.15	0.125	mg/l	W0151-01 EPA Trigger Level	0.1	-38%	No
23/2/11 22/9/11	PW-3	Sulphate	Lab analysis	Quarterly	221.46	134.38	mg/l	W0151-01 EPA Trigger Level	140	20%	No
23/2/11 22/9/11	PW-3	Total Organic Carbon	Lab analysis	Quarterly	10	6	mg/l	W0151-01 EPA Trigger Level	50	-58%	No
23/2/11 22/9/11	PW-3	Colour	Field analysis	Quarterly	Clear	Clear	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	PW-3	Conductivity	Field analysis	Quarterly	0.84	0.75	mS/cm	W0151-01 EPA Trigger Level	1	-5%	No
23/2/11 22/9/11	PW-3	Dissolved Oxygen	Field analysis	Quarterly	9	4.293333333	mg/l	W0151-01 EPA Trigger Level	N/A	-72%	No
23/2/11 22/9/11	PW-3	Odour	Field analysis	Quarterly	None	None	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	PW-3	pH	Field analysis	Quarterly	7.8	7.6	pH	W0151-01 EPA Trigger Level	6<pH<9	-1%	No
23/2/11 22/9/11	PW-3	Temperature	Field analysis	Quarterly	15.9	13.5	°C	W0151-01 EPA Trigger Level	N/A	21%	No

Groundwater /Contaminated land summary report

23/2/11 22/9/11	PW-3	Boron	Lab analysis	Quarterly	0.048	0.048	mg/l	W0151-01 EPA Trigger Level	N/A	44%	No
23/2/11 22/9/11	PW-3	Cadmium	Lab analysis	Quarterly	0.0005	0.0005	mg/l	W0151-01 EPA Trigger Level	0.004	0%	No
23/2/11 22/9/11	PW-3	Calcium	Lab analysis	Quarterly	119.2	119.2	mg/l	W0151-01 EPA Trigger Level	N/A	-5%	No
23/2/11 22/9/11	PW-3	Chromium, Total	Lab analysis	Quarterly	0.0015	0.0015	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	PW-3	Coliforms, Faecal	Lab analysis	Quarterly	0	0	cfus/100ml	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	PW-3	Coliforms, Total	Lab analysis	Quarterly	0	0	cfus/100ml	W0151-01 EPA Trigger Level	N/A	-1710%	No
23/2/11 22/9/11	PW-3	Copper	Lab analysis	Quarterly	0.123	0.123	mg/l	W0151-01 EPA Trigger Level	0.5	40%	No
23/2/11 22/9/11	PW-3	Cyanide	Lab analysis	Quarterly	0.01	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	-300%	No
23/2/11 22/9/11	PW-3	Fluoride	Lab analysis	Quarterly	0.3	0.3	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	PW-3	Iron	Lab analysis	Quarterly	0.02	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	PW-3	Lead	Lab analysis	Quarterly	0.005	0.005	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	PW-3	Magnesium	Lab analysis	Quarterly	8.7	8.7	mg/l	W0151-01 EPA Trigger Level	N/A	-2%	No
23/2/11 22/9/11	PW-3	Manganese	Lab analysis	Quarterly	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	PW-3	Mercury	Lab analysis	Quarterly	0.001	0.001	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	PW-3	Nickel	Lab analysis	Quarterly	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	PW-3	Orthophosp hates	Lab analysis	Quarterly	0.06	0.06	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
23/2/11 22/9/11	PW-3	Phosphorou s, Total	Lab analysis	Quarterly	0.024	0.024	mg/l	W0151-01 EPA Trigger Level	N/A	4%	No

Groundwater /Contaminated land summary report

Environmental Management Programme (EMP)/Continuous Improvement Programme

Highlighted cells contain dropdown menu click to view		Additional Information	
1	Do you maintain an Environmental Management System for the site. If yes, please detail in additional information	Yes	EMS designed in accordance with ISO 14001:2004
2	Does the EMS reference the most significant environmental aspects and associated impacts on-site	Yes	
3	Does the EMS maintain an Environmental Management Programme (EMP) as required in accordance with the licence requirements	Yes	
4	Do you maintain an environmental documentation/communication system to inform the public on environmental performance of the facility, as required by the licence	Yes	

Environmental Management Programme (EMP) report

Objective Category	Target	Status (% completed)	How target was progressed	Responsibility	Intermediate outcomes
Groundwater protection	Ongoing monitoring and measurement - water	100	Monitoring completed	Individual	Improved Environmental Management Practices
Noise reduction	Ongoing monitoring and measurement - noise	100	Monitoring completed	Individual	Improved Environmental Management Practices
Reduction of emissions to Air	Ongoing monitoring and measurement - dust	100	Monitoring completed	Individual	Improved Environmental Management Practices

Noise Monitoring Report Summary

1 Was noise monitoring a licence requirement for the AER period?
If yes please fill in table 1 noise summary below

Yes

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?

[Draft Noise Guidance](#)

Not applicable
(Guidance Note post-dates monitoring)

3 Does your site have a noise reduction plan

No

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?

No

Table 1: 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 site compliant with noise limits (day/evening/night)?
23/06/2011	13:30 to 16:00	NMP-5		68	55	72		No	SELECT	road traffic	Yes
23/06/2011	13:30 to 16:00	NMP-7		55	49	56		No		facility traffic + road traf	Yes
23/06/2011	13:30 to 16:00	NMP-8		54	46	52		No		road traffic	Yes
23/06/2011	13:30 to 16:00	NMP-13		57	53	60		No		road traffic	Yes

*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?

Not applicable

** please explain the reason for not taking action/resolution of noise issues?
Any additional comments? (less than 200 words)

Resource usage/ Energy Efficiency

Additional information

1 When did the site carry out the most recent energy efficiency audit? Please list the recommendations in table 3 below

No formal audit completed; ongoing monitoring and management of energy use by licensee.	Cells D13 and E13 based on SEAI: 10.169kWh/litre of diesel
no	
Not applicable	

2 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

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

3 Where Fuel Oil is used in boilers on site is the sulphur content compliant with licence conditions? Please state percentage in additional information

Energy Use	Previous year kWh	Current year kWh	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*
Total				
Electricity	60,425	43900	-27%	
Fossil Fuels:				
Heavy Fuel Oil				
Light Fuel Oil	620136.127			
Natural gas				
Coal/Solid fuel				
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

Water use	Previous year m3/yr.	Current year m3/yr.	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*
Groundwater				
Surface water				
Public supply	281	251.1	-11%	
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

Date of audit	Recommendations	Description of Measures proposed	Origin of measures	Predicted energy savings %	Implementation date	Responsibility	Completion date	Status and comments
Not applicable			SELECT					
			SELECT					
			SELECT					

SECTION A-PRTR WASTE TRANSFERS TAB- TO BE COMPLETED BY ALL IPPC AND WASTE FACILITIES

PRTR Facility login

dropdown list click to see options

SECTION B- WASTE ACCEPTED ONTO SITE-TO BE COMPLETED BY ALL IPPC AND WASTE FACILITIES

Were any wastes **accepted onto** your site for recovery or disposal or treatment prior to recovery or disposal within the boundaries of your facility ?; (waste generated within your boundaries is to be captured through PRTR reporting)

If yes please enter details in table 1 below

2 Did your site have any rejected consignments of waste in the current reporting year? If yes please give a brief explanation in the additional information

3 Was waste accepted onto your site that was generated outside the Republic of Ireland? If yes please state the quantity in tonnes in additional information

Additional Information	
Yes	

No	
No	

Table 1 Details of waste accepted onto your site for recovery, disposal or treatment (do not include wastes generated at your site, as these will have been reported in your PRTR workbook)

Licensed annual tonnage limit for your site (total tonnes/annum)	EWC code	Source of waste accepted	Description of waste accepted Please enter an accurate and detailed description which applies to European Waste Catalogue EWC codes	Quantity of waste accepted in current reporting year (tonnes)	Quantity of waste accepted in previous reporting year (tonnes)	Reduction/Increase over previous year +/- %	Reason for reduction/increase from previous reporting year	Packaging Content (%) - only applies if the waste has a packaging component	Disposal/Recovery or treatment operation carried out at your site and the description of this operation	Quantity of waste remaining on site at the end of reporting year (tonnes)	Comments -
E.g.	170701	17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)	concrete	5153	13460	-62%	general decline in the C&D sector	0%	R5-Recycling/reclamation or other inorganic materials which includes soil cleaning resulting in recovery of the soil and recycling of inorganic construction materials	0	
E.g.	170504	17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)	soil & stones	58976	138016	-57%	general decline in the C&D sector	0%	R5-Recycling/reclamation or other inorganic materials which includes soil cleaning resulting in recovery of the soil and recycling of inorganic construction materials	0	
		SELECT				#DIV/0!			SELECT		
		SELECT				#DIV/0!			SELECT		

SECTION C-TO BE COMPLETED BY ALL WASTE FACILITIES (waste transfer stations, Composters, Material recovery facilities etc) EXCEPT LANDFILL SITES

4 Is all waste processing infrastructure as required by your licence and approved by the Agency in place? If no please list waste processing infrastructure required onsite

5 Is all waste storage infrastructure as required by your licence and approved by the Agency in place? If no please list waste storage infrastructure required on site

6 Does your facility have relevant nuisance controls in place?

7 Do you have an odour management system in place for your facility? If no why?

8 Do you maintain a sludge register on site?

SELECT	NOT APPLICABLE
SELECT	
SELECT	

SELECT	
SELECT	
SELECT	

SECTION D-TO BE COMPLETED BY LANDFILL SITES ONLY

Table 2 Waste type and tonnage-landfill only

Waste types permitted for disposal	Authorised/licenced annual intake for disposal (tpa)	Actual intake for disposal in reporting year (tpa)	Remaining licensed capacity at end of reporting year (m3)	Comments
e.g.				
e.g.	Inert waste	750,000	64,129	

Table 3 General information-Landfill only

Area ID	Date landfilling commenced	Date landfilling ceased	Currently landfilling	Private or Public Operated	Inert or non-hazardous	Predicted date to cease landfilling	Licence permits asbestos	Is there a separate cell for asbestos?	Accepted asbestos in reporting year	Total disposal area occupied by waste	Lined disposal area occupied by waste	Unlined area	Comments on liner type
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[Guidance to completing the PRTR workbook](#)

AER Returns Workbook

Version 1.1.13

REFERENCE YEAR	2011
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1. FACILITY IDENTIFICATION

Parent Company Name	Murphy Environmental Hollywood Limited
Facility Name	Murphy Concrete Manufacturing Ltd
PRTR Identification Number	W0151
Licence Number	W0151-01

Waste or IPPC Classes of Activity	
No.	class name
4.4	Recycling or reclamation of other inorganic materials.
3.1	Deposit on, in or under land (including landfill).
3.13	Storage prior to submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where the waste concerned is produced.
4.13	Storage of waste intended for submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where such waste is produced.
4.3	Recycling or reclamation of metals and metal compounds.
Address 1	Sarsfieldtown
Address 2	Gormanstown
Address 3	Co. Meath
Address 4	
	Meath
Country	Ireland
Coordinates of Location	-6.25153 53.654
River Basin District	IEEA
NACE Code	3832
Main Economic Activity	Recovery of sorted materials
AER Returns Contact Name	Louise O'Donnell
AER Returns Contact Email Address	louise.odonnell@pateltonra.com
AER Returns Contact Position	Environmental Consultant
AER Returns Contact Telephone Number	01 8020520
AER Returns Contact Mobile Phone Number	086 8333724
AER Returns Contact Fax Number	01 8020525
Production Volume	0.0
Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	0
Number of Employees	0
User Feedback/Comments	
Web Address	

2. PRTR CLASS ACTIVITIES

Activity Number	Activity Name
50.1	General
5(d)	Landfills
50.1	General

3. SOLVENTS REGULATIONS (S.I. No. 543 of 2002)

Is it applicable?	No
Have you been granted an exemption?	no
If applicable which activity class applies (as per Schedule 2 of the regulations)?	
Is the reduction scheme compliance route being used?	

4.1 RELEASES TO AIR

[Link to previous years emissions data](#)

| PRTR#: W0151 | Facility Name : Murphy Concrete Manufacturing Ltd | Filename : W0151_PRTR 2011.xls | Return Year : 2011 |

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SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

POLLUTANT		RELEASES TO AIR			Please enter all quantities in this section in KGs				
No. Annex II	Name	M/C/E	METHOD		Emission Point 1	QUANTITY			
			Method Code	Designation or Description		T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year	
						0.0	0.0	0.0	0.0

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION B : REMAINING PRTR POLLUTANTS

POLLUTANT		RELEASES TO AIR			Please enter all quantities in this section in KGs				
No. Annex II	Name	M/C/E	METHOD		Emission Point 1	QUANTITY			
			Method Code	Designation or Description		T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year	
						0.0	0.0	0.0	0.0

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION C : REMAINING POLLUTANT EMISSIONS (As required in your Licence)

POLLUTANT		RELEASES TO AIR			Please enter all quantities in this section in KGs				
Pollutant No.	Name	M/C/E	METHOD		Emission Point 1	QUANTITY			
			Method Code	Designation or Description		T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year	
						0.0	0.0	0.0	0.0

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

Additional Data Requested from Landfill operators

For the purposes of the National Inventory on Greenhouse Gases, landfill operators are requested to provide summary data on landfill gas (Methane) flared or utilised on their facilities to accompany the figures for total methane generated. Operators should only report their Net methane (CH4) emission to the environment under T(total) KG/yr for Section A: Sector specific PRTR pollutants above. Please complete the table below:

Landfill:

[Murphy Concrete Manufacturing Ltd](#)

Please enter summary data on the quantities of methane flared and / or utilised

T (Total) kg/Year	M/C/E	Method Used		Facility Total Capacity m3 per hour
		Method Code	Designation or Description	
Total estimated methane generation (as per site model)	0.0			N/A
Methane flared	0.0			0.0 (Total Flaring Capacity)
Methane utilised in engine/s	0.0			0.0 (Total Utilising Capacity)
Net methane emission (as reported in Section A above)	0.0			N/A

4.2 RELEASES TO WATERS

[Link to previous years emissions data](#)

| PRTR# : W0151 | Facility Name : Murphy Concrete Manufacturing Ltd | Filename : W0151_PRTR 2011.xls | Return Year : 2011 |

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SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

Data on ambient monitoring of storm/surface water or groundwater, conducted as part of your licence requirements, should NOT be submitted under AER / PRTR Reporting as this onl

RELEASES TO WATERS					Please enter all quantities in this section in KGs			
POLLUTANT		M/C/E	Method Used		QUANTITY			
No. Annex II	Name		Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION B : REMAINING PRTR POLLUTANTS

RELEASES TO WATERS					Please enter all quantities in this section in KGs			
POLLUTANT		M/C/E	Method Used		QUANTITY			
No. Annex II	Name		Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION C : REMAINING POLLUTANT EMISSIONS (as required in your Licence)

RELEASES TO WATERS					Please enter all quantities in this section in KGs			
POLLUTANT		M/C/E	Method Used		QUANTITY			
Pollutant No.	Name		Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

4.3 RELEASES TO WASTEWATER OR SEWER

[Link to previous years emissions data](#)

| PRTR# : W0151 | Facility Name : Murphy Concrete Manufacturing Ltd | Filename : W0151_PRTR 1

25/04/2012 09:32

SECTION A : PRTR POLLUTANTS

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			QUANTITY			
No. Annex II	Name	M/C/E	Method Used		Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
			Method Code	Designation or Description	0.0	0.0	0.0	0.0

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION B : REMAINING POLLUTANT EMISSIONS (as required in your Licence)

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			QUANTITY			
Pollutant No.	Name	M/C/E	Method Used		Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
			Method Code	Designation or Description	0.0	0.0	0.0	0.0

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

4.4 RELEASES TO LAND

[Link to previous years emissions data](#)

| PRTR# : W0151 | Facility Name : Murphy Concrete Manufacturing Ltd | Filename : W0151_PRTR 2011.xls | Return Year : 2011 |

25/04/2012 09:32

SECTION A : PRTR POLLUTANTS

POLLUTANT		METHOD			Please enter all quantities in this section in KGs		
RELEASERS TO LAND		METHOD			QUANTITY		
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year
					0.0	0.0	0.0

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION B : REMAINING POLLUTANT EMISSIONS (as required in your Licence)

POLLUTANT		METHOD			Please enter all quantities in this section in KGs		
RELEASERS TO LAND		METHOD			QUANTITY		
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year
					0.0	0.0	0.0

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

| PRTR# : W0151 | Facility Name : Murphy Concrete Manufacturing Ltd | Filename : W0151_PRTR 2011.xls | Return Year : 2011 |

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Please enter all quantities on this sheet in Tonnes

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Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Haz Waste : Name and Licence/Permit No of Next Destination Facility	Haz Waste : Address of Next Destination Facility	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
						Non	Non		M/C/E	Method Used		
Within the Country	17 01 01	No	5153.33	concrete soil and stones other than those mentioned	R5	M	Weighed	Offsite in Ireland	Murphy Environmental,W0151-01	Sarsfieldstown,Gormanston, Co. Meath,,Ireland		
Within the Country	17 05 04	No	58975.77	in 17 05 03	R5	M	Weighed	Onsite of generati	Murphy Environmental,W0151-01	Sarsfieldstown,Gormanston, Co. Meath,,Ireland		

* Select a row by double-clicking the Description of Waste then click the delete button

[Link to previous years waste data](#)

[Link to previous years waste summary data & percentage change](#)