SELECT	cells that are highlighted blue cont
guidance document link	cells that contain underlined text c
Table heading *	table headings followed by a symb
Cells with red indicator in top right corner	cells that have a red indicator in th

:ain a dropdown menu click to select one option from the list

click to access relevant guidance documents for this section

ol have an associated footnote or instructions

ie top right corner contain a comment box with further instructions or clarification

Facility Information Summary

AER Reporting Year Licence Register Number Name of site Site Location NACE Code Class/Classes of Activity National Grid Reference (6E, 6 N)

A description of the activities/processes at the site for the reporting year. This should include information such as production increases or decreases on site, any infrastructural changes, environmental performance which was measured during the reporting year **and an overview of compliance with your licence** <u>listing all</u> <u>exceedances of licence limits (where</u> <u>applicable) and what they relate to e.g. air,</u> <u>water, noise.</u> 2016 W0002-01 Ballyguyroe Landfill Ballyguyroe North,Kildorrey Mallow Co.Cork

The landfill facility at Ballyguyroe North has been in operation since 1990, accepting waste at an annual rate of approx 20,000 tonnes . The site reached full capacity and cloased for the acceptance of waste on Thursday 27th September 2001. Cork County Council held a waste licence (Register No. 2-1) to operate Ballyguyroe landfill site until March 15th 2004, when it obtained a new licence (register No 2-2/W 002-02).Inaccordance with therequirments of Condition 11.3 of the waste licence, an AER for the facility is submitted to the agency annually in March. Ballyguyroe landfill site occupies approx 15 hectares and is located 6km north-west of the village of Kildorrey. The site lies inthe Blackwater catchment with the Farahy River flowing southwards within the valey outside the eastern boundary. Surface water from the site drains in to this river. The ground water quality in this area is indicative of the overburben geology, being high in manganese. In 2015 Cork County Council carried out a review of Ballyguyroe license, with the aim of reducing environmental monitoring. This review was approved by the EPA in 2015 (See submission LRO18556). Environmental monitoring is as follows ; Surface water and ground water sampling reduced to twice yearly, perimeter landfill gas monitoring reduced to quarterly, landfill cell gas monitoirng reduced to quarterly, meteorological recording reduced to monthly and reporting reduced to twice yearly. AER and annual sampling parameters are unchanged.

Declaration:

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

Signature		Date
Group/Facility manager	Marie Mortell	21/3/2017
(or nominated, suitably qualified and experienced deputy)		

	AIR-summary template	Lic No:	W0002-01	Year	2016
	Answer all questions and complete all tables where relevant		Add	litional information	
1	Does your site have licensed air emissions? If yes please complete table A1 and A2 below for the current reporting year and answer further questions. If you do not have licenced emissions and do not complete a solvent management plan (table A4 and A5) you <u>do not</u> need to complete the tables	SELECT		n/a	
	Periodic/Non-Continuous Monitoring				
2	Are there any results in breach of licence requirements? If yes please provide brief details in the comment section of TableA1 below	SELECT			
3	Was all monitoring carried out in accordance with EPA Basic air guidance note AG2 and using the basic air monitoring checklist? monitoring checklist AGN2	SELECT			

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

Emission reference no:		Frequency of	ELV in licence or any revision therof	Licence Compliance criteria	Measured value		Compliant with licence limit	Method of analysis	Annual mass	Comments - reason for change in % mass load from previous year if applicable
	SELECT			SELECT		SELECT	SELECT	SELECT		
	SELECT			SELECT		SELECT	SELECT	SELECT		
	SELECT SELECT			SELECT SELECT				SELECT SELECT		

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

AIR-summary temp	late	Lic No:	W0002-01	Year	2016	
	Continuous Monitoring					
4 Does your site carry out	continuous air emissions monitoring?	SELECT				
If yes please review y	our continuous monitoring data and report the required fields below in Table 3 and compare it to its relevant Emission Limit Value (ELV)					
5 Did continuous monitorin	ng equipment experience downtime? If yes please record downtime in table 3 below	SELECT				
7 Did your site exper	service agreement for each piece of continuous monitoring equipment? ience any abatement system bypasses? If yes please detail them in table 4 below	SELECT SELECT				
Table A2: Summary	of average emissions -continuous monitoring					

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

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

Table A3: Abatement system bypass reporting table Bypass protocol

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

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

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

AIR-summary	template				Lic No:	W0002-01		Year	2016	
Solvent	use and managemen	it on site								
8 Do you have a tota	al Emission Limit Value of c	lirect and fugitive e	emissions on site	? if yes please fill out tables A4 a	nd A5		SELECT			
	ent Management Pla ission limit value	an Summary	Solvent regulations	Please refer to linked solver complete table 5						
Reporting year	Total solvent input on site (kg)	Total VOC emissions to Air from entire site	Total VOC emissions as %of solvent	Total Emission Limit Value (ELV) in licence or any revision therof	Compliance					
					SELECT					
					SELECT					
Table A5: 9	Solvent Mass Balance	e summary							-	
	(I) Inputs (kg)				(O) Outputs (kg)					
Solvent	(I) Inputs (kg)		Solvents lost in water (kg)	Collected waste solvent (kg)	Fugitive Organic Solvent (kg)	Solvent released in other ways e.g. by-	Solvents destroyed onsite through	Total emission of Solvent to air (kg)		
							Total			

rns summary template-WATER/WASTEWATER(SEWER)	Lic No: W0002-01	Year
	Additional information	
Does your site have licensed emissions direct to surface water or direct to sever? If yes please complete table W2 and W3 below 1 for the current reporting year and answer further questions. If you do not have licenced emissions you <u>only</u> need to complete table W1 and or W2 for surface water analysis and visual inspections	89	
Was it a requirement of your licence to carry out visual inspections on any surface water discharges or watercourses on or near your site? If yes please complete table W2 below summarising <u>only any evidence of contamination noted during visual inspections</u>	no	
Table W1 Surface water monitoring		

7

ELV or trigger level in Location relative to PRTR Parameter Unit of measurement Licenced Parameter Compliant with licence Location reference Monitoring date licence or any revisio cence Compliance criter Measured value Comments site activities thereof* SS2 Quarterly No ELV or trigger lev dian Vaulue for 20 7.2 downstream pH N/A pH units yes **SS2** Quarterly No ELV or trigger levels Median Vaulue for 201 Temperature N/A 10.69 degrees C downstream yes 552 Quarterly No ELV or trigger levels Median Vaulue for 2016 105.31 Conductivity N/A µS/cm@25oC downstream yes **SS2** Quarterly No ELV or trigger levels Median Vaulue for 2016 N/A 11.05 Dissolved Oxygen mg/L downstream yes **SS2** Quarterly No ELV or trigger leve Median Vaulue for 201 13.85 Chlorides (as Cl) N/A mg/L downstream yes SS2 Quarterly No ELV or trigger levels Median Vaulue for 2016 0.83 downstream BOD N/A mg/L yes **SS2** Quarterly No ELV or trigger level Median Vaulue for 201 N/A 25.25 COD mg/L downstream yes **SS2** Median Vaulue for 2016 Quarterly No ELV or trigger level 0.02 downstream Ammonia (as N) N/A mg/L yes **SS2** Quarterly No ELV or trigger level Median Vaulue for 201 2 Suspended Solids N/A downstream mg/L yes **SS2** Annual N Annual results 2016 1.3 downstream Cr) μg/L v **SS2** Annual No ELV or trigger levels Annual result <1 N/A downstream Copper and compounds (as Cu Cadmium and compounds (as µg/L yes **SS2** Annual Annual result No ELV or trigger levels N/A <1 downstream Cd) μg/L yes **SS2** Annual Annual result No ELV or trigger levels downstream N/A 722 μg/L Iron yes SS2 Annual No ELV or trigger levels Annual result Lead and compounds (as Pb) 2.2 N/A μg/L downstream yes **SS2** Annual No ELV or trigger levels Annual result Magnesium N/A 1.91 μg/L downstream yes Annual result **SS2** Annual No ELV or trigger leve 28.4 Manganese (as Mn) N/A μg/L downstream yes Mercury and compounds (a **SS2** Annual No ELV or trigger level Annual result <0.5 downstream Hg) N/A μg/L yes No ELV or trigger leve Annual result SS2 Annual Potassium N/A <1 < 0.5 SS2 Sulphate Total Oxidised Nitroge Annual Annual result downstream mg/L yes SS2 Annual No ELV or trigger levels Annual result downstream N/A 0.23 mg/L (TON) yes **SS2** Annual No ELV or trigger levels Annual result N/A 114 downstream Zinc and compounds (as Zn µg/L yes **SS2** Annual Annual result No ELV or trigger levels Total phosphorus N/A 0.04 downstream mg/L yes SS5 Quarterly IO ELV or trigger le nnual result for 201 7.9 downstream pH N/A pH units yes **SS5** Quarterly No ELV or trigger levels Median Vaulue for 2016 Temperature N/A 11.32 downstream degrees C yes **SS**5 Median Vaulue for 2016 Quarterly No ELV or trigger leve Conductivity N/A 258 µS/cm@25oC downstream yes **SS5** Quarterly No ELV or trigger levels Median Vaulue for 2016 10.75 Dissolved Oxygen N/A downstream mg/L yes **SS**5 Median Vaulue for 201 Quarterly No ELV or trigger levels N/A 11.05 downstream Chlorides (as Cl) mg/L yes **SS**5 Median Vaulue for 2016 Quarterly No ELV or trigger level 0.5 downstream BOD N/A mg/L yes **SS5** No ELV or trigger level Quarterly 29 Median Vaulue for 201 COD N/A downstream mg/L yes **SS5** Median Vaulue for 2016 No ELV or trigger levels Quarterly 0.05 Ammonia (as N) N/A downstream mg/L yes SS5 Quarterly No ELV or trigger levels Median Vaulue for 2016 Suspended Solids N/A 2 mø/I Chromium and compounds (as Annual **SS5** <1 wnstream Cr) µg/L ves SS5 Annual No ELV or trigger level Annual result for 2016 1.9 N/A downstream Copper and compounds (as Cu μg/L yes Cadmium and compounds (a: SS5 Annual No ELV or trigger leve Annual result for 2016 <1 downstream Cd) N/A μg/L ves Annual result for 2016 SS5 Annual No ELV or trigger levels downstream Iron N/A 258 μg/L ves **SS**5 Annual No ELV or trigger level Annual result for 2016 N/A 2.9 downstream Lead and compounds (as Ph) ug/L VAC Annual result for 2016 Annual SS5 No ELV or trigger levels 2.92 downstream Magnesium N/A ua/I VAC

ummary template-WATE	R/WASTEWATER(SEW	R)				Lic No:	W0002-01		Year	2016
555				Annual	No ELV or trigger levels					Annual result for 201
	downstream	Mercury and compounds (as	Manganese (as Mn)			N/A	19.1	μg/L	yes	
SS5	downstream	Hg)	-	Annual	No ELV or trigger levels	N/A	<0.5	μg/L	yes	Annual result for 201
SS5	downstream		Potassium	Annual	No ELV or trigger levels	N/A	1.4	mg/L	yes	Annual result for 201
SS5	downstream		Sulphate	Annual	No ELV or trigger levels	N/A	0.91	mg/L	yes	Annual result for 201
SS5	downstream		Total Oxidised Nitrogen (TON)	Annual	No ELV or trigger levels	N/A	<0.2	mg/L	yes	Annual result for 201
SS5	downstream	Zinc and compounds (as Zn)		Annual	No ELV or trigger levels	N/A	43.1	μg/L	yes	Annual result for 201
SS5	downstream	Total phosphorus		annual	No ELV or trigger levels	N/A	<0.04	mg/L	yes	Annual result for 201
RS1	downstream		рН		No ELV or trigger levels	N/A	7.2	pH units	ves	Median vaule for 201
RS1	downstream		Temperature		No ELV or trigger levels	N/A	11.67	degrees C	ves	Median vaule for 201
RS1	downstream		Conductivity		No ELV or trigger levels	N/A	105.6	uS/cm@25oC	ves	Median vaule for 201
RS1	downstream		Dissolved Oxygen	mg/l	No ELV or trigger levels	N/A	10.73	mg/L	ves	Median vaule for 20
RS1			Dissolved Oxygen		No ELV or trigger levels		13.9			Median vaule for 201
RS1	downstream	Chlorides (as Cl)		mg/l	No ELV or trigger levels	N/A		mg/L	yes	Tidal infulence Median vaule for 20
RS1	downstream		BOD	mg/l	No ELV or trigger levels	N/A	0.8	mg/L	yes	Median vaule for 20
RS1	downstream		COD	mg/l	No ELV or trigger levels	N/A	26.50	mg/L	yes	Median vaule for 20
RS1	downstream		Ammonia (as N)	mg/l		N/A	0.02	mg/L	yes	Median vaule for 20
	downstream	Chromium and compounds (as	Suspended Solids	mg/l	No ELV or trigger levels	N/A	1	mg/L	yes	annual result
RS1	downstream	Cr)		ug/l	No ELV or trigger levels	N/A	4.9	μg/L	yes	
RS1	downstream	Copper and compounds (as Cu) Cadmium and compounds (as	-	ug/l	No ELV or trigger levels	N/A	<1	μg/L	yes	Median vaule for 20
RS1	downstream	Cd)		ug/l	No ELV or trigger levels	N/A	<1	μg/L	yes	Annual result for 201
RS1	downstream		Iron	ug/l	No ELV or trigger levels	N/A	341	μg/L	yes	Annual result for 202
RS1	downstream	Lead and compounds (as Pb)		ug/l	No ELV or trigger levels	N/A	<1	μg/L	yes	Annual result for 202
RS1	downstream		Magnesium	mg/l	No ELV or trigger levels	N/A	1.9	μg/L	yes	Annual result for 20
RS1	downstream		Manganese (as Mn)	ug/l	No ELV or trigger levels	N/A	14.8	μg/L	yes	Annual result for 2016.EQS limit is
RS1	downstream	Mercury and compounds (as Hg)		ug/l	No ELV or trigger levels	N/A	<0.5	μg/L	yes	Annual result for 20
RS1	downstream		Potassium	mg/l	No ELV or trigger levels	N/A	<1	mg/L	yes	Annual result for 20
RS1	downstream		Sulphate	mg/I			<0.5	mg/L	yes	Annual result for 20
RS1	downstream		Total Oxidised Nitrogen (TON)	mg/l	No ELV or trigger levels	N/A	0.22	mg/L	yes	Annual result for 20
RS1	downstream	Zinc and compounds (as Zn)	(104)	ug/l	No ELV or trigger levels	N/A N/A	<25			Annual result for 20
RS1					No ELV or trigger levels			μg/L	yes	Annual result for 20
RS2	downstream	Total phosphorus		mg/k Quarterly	No ELV or trigger levels	N/A	<0.04	mg/L	yes	Median vaule for 20
R52	upstream		рН	Quarterly	No ELV or trigger levels	N/A	7.3	pH units	yes	Median vaule for 20
R52	upstream		Temperature	Quarterly	No ELV or trigger levels	N/A	11.3	degrees C	yes	Median vaule for 20
	upstream		Conductivity			N/A	116	μS/cm@25oC	yes	Median vaule for 20
RS2	upstream		Dissolved Oxygen	Quarterly	No ELV or trigger levels	N/A	10.85	mg/L	yes	-
RS2	upstream	Chlorides (as Cl)		Quarterly	No ELV or trigger levels	N/A	14.2	mg/L	yes	Median vaule for 20
RS2	upstream		BOD	Quarterly	No ELV or trigger levels	N/A	1.18	mg/L	yes	Median vaule for 20
R52	upstream		COD	Quarterly	No ELV or trigger levels	N/A	21.25	mg/L	yes	Median vaule for 20
RS2	upstream		Ammonia (as N)	Quarterly	No ELV or trigger levels	N/A	0.01	mg/L	yes	Median vaule for 20
RS2	upstream		Suspended Solids	Annual		n/a	1	mg/L	yes	Annual results
RS2	upstream	Chromium and compounds (as Cr)		Annual	No ELV or trigger levels	N/A	1.2	μg/L	yes	Annual result for 20
RS2	upstream	Copper and compounds (as Cu)		Annual	No ELV or trigger levels	N/A	2.6	μg/L	yes	Annual result for 20
RS2	upstream	Cadmium and compounds (as Cd)		Annual	No ELV or trigger levels	N/A	<1	μg/L	yes	Annual result for 20
R52	upstream		Iron	Annual	No ELV or trigger levels	N/A	726	μg/L	yes	Annual result for 20
RS2	upstream	Lead and compounds (as Pb)		Annual	No ELV or trigger levels	N/A	<1	μg/L	yes	Annual result for 20
RS2		con pounds (as PD)	Monradium	Annual	No ELV or trigger levels					Annual result for 20
RS2	upstream		Magnesium	Annual	No ELV or trigger levels	N/A	1.89	μg/L	yes	Annual result for 20
RS2	upstream	Mercury and compounds (as	Manganese (as Mn)	Annual	No ELV or trigger levels	N/A	28.9	µg/L	yes	Annual result for 20
	upstream	Hg)				N/A	<0.5	μg/L	yes	1
RS2 RS2	upstream		Potassium	Annual	No ELV or trigger levels		<1			Annual result for 20

rns s	ummary template-WATE	R/WASTEWATER(SEW)	ER)				Lic No:	W0002-01		Year	2016					
	RS2	upstream		Total Oxidised Nitrogen (TON)	Annual	No ELV or trigger levels	N/A	0.22	mg/L	yes	Annual result for 2016					
	RS2	upstream	Zinc and compounds (as Zn)		Annual	No ELV or trigger levels	N/A	<25	μg/L	yes	Annual result for 2016	or 2016				
	RS2	upstream	Total phosphorus		Annual	No ELV or trigger levels	N/A	0.04	mg/L	yes	Annual result for 2016					
			Licensed En	nissions to water and /or w	vastewater(sewer)-perio	lic monitoring (non-conti	nuous)									
3	Was there any result	in breach of licence rea	quirements? If yes please provide below	brief details in the comment	t section of Table W3	SELECT		Additional information								
4	for Quality of Aqueous	Monitoring Data Report	with EPA guidance and checklists ed to the EPA? If no please detail Iditional information box	External /internal Lab. Quality checklist	Assessment of results checklist	SELECT										
ater a	and /or wastewater (sew	er)-periodic monitoring	(non-continuous)													
	Emission reference				Frequency of		ELV or trigger values in licence or any revision						Procedural reference	Procedural reference		

							ELV or trigger values in								
	Emission reference no:	Emission released to	Parameter/ SubstanceNote 1	Type of sample	Frequency of monitoring	Averaging period	licence or any revision therof ^{Note 2}	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence		Procedural reference source	Annual mass load (kg)	Comments
		SELECT	SELECT	SELECT		SELECT		SELECT		SELECT	SELECT	SELECT	SELECT		
tric flo	v 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

rns summary temp	late-WATER/WASTEWATER(SEWER)	

Continuous monitoring

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

Additional Information
SELECT

Lic No:

SELECT

SELECT

SELECT

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

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

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

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

mary of average emissions -continuous monitoring

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

W0002-01

Year

2016

ric flow shall be included as a reportable parameter.

5: Aba	Abatement system bypass reporting table												
	Date	Duration (hours)	Location	Resultant emissions	Reason for bypass	Corrective action*	Was a report submitted to	When was this report submitted?					
							the EPA?						
							SELECT						

en or proposed to reduce or limit bypass frequency

Bund/Pipeline testing template	Lic No:	W0002-01		Year	2016	
Bund testing dropdown menu click to see options			Additional information			
Are you required by your licence to undertake integrity testing on bunds and containment structures ? if yes please fill of	out table B1 below listing all new bunds an	d		7		
containment structures on site, in addition to all bunds which failed the integrity test-all bunding structures which failed						
1 the table below	5	SELECT	n/a			
2 Please provide integrity testing frequency period		SELECT				
Does the site maintain a register of bunds, underground pipelines (including stormwater and foul), Tanks, sumps and co	ontainers? (containers refers to "Chemstore	e"				
3 type units and mobile bunds)		SELECT				
4 How many bunds are on site?						
5 How many of these bunds have been tested witin the required test schedule?						
6 How many mobile bunds are on site?						
7 Are the mobile bunds included in the bund test schedule?		SELECT				
8 How many of these mobile bunds have been tested witin the required test schedule?						
9 How many sumps on site are included in the integrity test schedule?				1		
10 How many of these sumps are integrity tested within the test schedule?						
Please list any sump integrity failures in table B1				_		
11 Do all sumps and chambers have high level liquid alarms?		SELECT		1		
12 If yes to Q11 are these failsafe systems included in a maintenance and testing programme?						

Tal	ble B1: Summary details o	f bund /containment structure inte	egrity test	7										
Bund/Containment structure ID	Туре	Specify Other type	Product containment	Actual capacity	Capacity required*	Type of integrity test	Other test type	Test date	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)
	SELECT					SELECT			SELECT	SELECT		SELECT		
	SELECT					SELECT			SELECT	SELECT		SELECT		
Has integrity testing b		nt rule as detailed in your licence ance with licence requirements and	are all structures tested in				Commentary]			•			
						CELECT								

SELECT

SELECT

14 line with BS8007/EPA Guidance?	
15 Are channels/transfer systems to remote containment systems tes	sted?

16 Are channels/transfer systems compliant in both integrity and available volume?

Pipeline/underground structure testing

Are you required by your licence to undertake integrity testing on underground structures e.g. pipelines or sumps etc? if yes please fill out table 2 below listing all		
1 underground structures and pipelines on site which failed the integrity test	SELECT	
2 Please provide integrity testing frequency period	SELECT	

Table	B2: Summary details of pi	peline/underground structures in	ntegrity test]					
Structure ID	Type system		Does this structure have Secondary containment?	Type of secondary containment		Integrity reports maintained on site?			Results of retest(if in current reporting year)
	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT

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

oil monit	toring temp				Lie No.	W0002.01		Year	2016	
	toring temp				Lic No:	W0002-01		i cai	2010	
			-				Comments	-		
1	Arovouro	quired to carry out groun	dwatar manitari	ag as part of your licons	o roquiromonto?					
2		ou required to carry out so				yes no				
3										
	Do you e	xtract groundwater for us	se on site? If yes	please specify use in cor	nment section	no				
4	Is there	contaminated land and /	or groundwater	on site? If yes please an	swer q's 5-12	no				
5	Is the co	ntamination related to or	nerations at the f	acility (either current ar	nd/or historic)	SELECT				
6		been taken to address co				SELECT				
		• •	roposed/underta			SELECT				
7		Please specify the propo			•	SELECT				
8				/update ELRA for the si		SELECT				
9				carried out for the site?		yes				
10				developed for the site?		yes		-		
11		•		ntified on and off site?		yes				
12		Is there evidence t	that contaminati 1	on is migrating offsite?		no]		
			-				-			
			-				-			
roundwa	ter monitor	ing results						1		1
										Upward trend in
										pollutant
	Sample									concentration over last
Date of	location				Maximum	Average				5 years of monitoring
sampling	reference	Parameter/ Substance	Methodology	Monitoring frequency	Concentration++	Concentration+	unit	GTV's*	SW EQS	data
Quarterly	981s	рН	Meter	Quarterly	11.4	9.9	SELECT		9.5	no
Quarterly		Temp	Meter	Quarterly	639	511			25	no
Quarterly		Elec.Conductivity	Meter	Quarterly	48.6	26.0		800-1875	1000	no
Quarterly		Chlorides Ammoniacal Nitorgen	titration ISE	Quarterly	0.03	0.02	mg/l	24-187.5 0.065-0.175	250	no
Quarterly 22/8/2016		Iron	ICP	Quarterly annual	0.06	0.06	mg/l ug/l	0.065-0.175	0.2	no no
19/8/2016		TON	HACH	annual	1.9	1.3	ug/l	-	No abnormal change	no
quarterly		TOC	TOC analyser	Quarterly	<1	<1	mg/I			no
22/8/2016		Cadmium	ICP	Annual	<1	<1	ug/l	-	0.005	no
22/8/2016		Chromium (total)	ICP	Annual	3.6	3.6	ug/l	37.5	0.03	no
22/8/2016		Copper	COLORIMETRY	Annual	<0.01	<0.01	ug/l	1500	0.03	no
22/8/2016		Cyanide (Total)	ICP	Annual	<1	<1	ug/l	-	0.01	no
22/8/2016		Lead	ICP	Annual	6.06	6.06	ug/l	18.75	0.01	no
22/8/2016		Mangnesium	ICP	Annual	833	833	mg/l	-	50	no
22/8/2016		Manganese	ICP	Annual	<0.5	<0.5	ug/l	-	0.05	no
22/8/2016		Mercury	ICP	Annual	<1	<1	ug/I	0.75	0.001	no
22/8/2016		Nickle	ICP	Annual	1	1	ug/l	15	0.02	no
22/8/2016		Potassium	ICP	Annual	2.18	2.18	mg/l	-	5	no
22/8/2016		Sulphate	Aquakem auto analyser	Annual	336	336	mg/I	187.5	200	no
22/8/2016		Total Alkalinity	icp	Annual	0.06	0.06	mg/I	-		no
22/8/2016		Total Phosphorus	spectrophotometry apha	Annual	<0.01	<0.01	mg/l	0.09		no
22/8/2016		Naphthalene	GC-MS	Annual	<0.01	<0.01	ug/l	2.00	0.5	no

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22/8/2016	Acenaphthylene	GC-MS	Annual	<0.01	<0.01	ug/l			no
22/8/2016	Anthracene	GC-MS	Annual	<0.01	<0.01	ug/l			no
22/8/2016	Chrysene	GC-MS	Annual	0.01	0.01	ug/l		1	no
22/8/2016	Fluoranthene	GC-MS	Annual	<0.01	<0.01	ug/l			no
22/8/2016	Fluorene	GC-MS	Annual	0.01	0.01	ug/l			no
22/8/2016	Pyrene	GC-MS	Annual	0.01	0.01	ug/l		12	no
22/8/2016	Phenanthrene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Bromodichloromethane	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Bromoform	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Chloroform	GC-MS	Annual			ug/l			no
22/8/2016	Dibromochloromethane	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Dibromochloromethane	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Vinyl Chloride	GC-MS	Annual			ug/l		2	no
22/8/2016	Chloromethane	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Trichloroethene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Bromomethane	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Trichloromonofluoromethane	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	11 Dichloroethene	GC-MS	Annual	<1	<1	ug/l		0.03	no
22/8/2016	Chloromethane	GC-MS	Annual	<1	<1	ug/l		0.1	no
22/8/2016	1,1-dichloroethane	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	11 Dichloropropene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	12 Dichloroehtane	GC-MS	Annual	<1	<1	ug/l	2.25		no
22/8/2016	1,2-dichloropropane	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	1,1,1-trichloroethane	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	112 Trichloroethane	GC-MS	Annual			ug/l			no
22/8/2016	1,3-dichloropropane	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	2-Hexanone	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	1,2-dibromoethane	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Chlorobenzene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	1,1,1,2-tetrachloroethane	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Ethylbenzene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Xylene P&M	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Styrene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Isopropylbenzene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	1,1,2,2-tetrachloroethane	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	1,2,3-trichloropropane	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Propylbenzene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	2-chlorotoluene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	4-chlorotoluene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	1,3,5-trimethylbenzene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Tert Butyl Benzene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	1,2,4-trimethylbenzene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	sec-butylbenzene	GC-MS	Annual	<5	<5	ug/l			no
22/8/2016	Pentachlorophenol	GC-MS	Annual	<1	<1	ug/l		İ	no
22/8/2016	Tetrachloroethene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Hexachlorobenzene	GC-MS	Annual	<5	<5	ug/l		İ	no
22/8/2016	Hexachlorobutadiene	GC-MS	Annual	<5	<5	ug/l		1	no
22/8/2016	2,4,6-Trichlorophenol	GC-MS	Annual	<5	<5	ug/l			no
22/8/2016	2,4-Dichlorophenol	GC-MS	Annual	<1	<1	ug/l		1	no
22/8/2016	2,4-Dimethylphenol	GC-MS	Annual	<5	<5	ug/l			no
, -, 2010	2, Binedijiphenol	66 115	Alifual		2		I	I	

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22/8/2016	2-Chlorophenol	GC-MS	Annual	<5	<5	ug/l			no
22/8/2016	1,2,4-trichlorobenzene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	1,2-dichlorobenzene	GC-MS	Annual	<5	<5	ug/l			no
22/8/2016	1,3-dichlorobenzene	GC-MS	Annual	<5	<5	ug/l			no
22/8/2016	1,4-dichlorobenzene	GC-MS	Annual	<5	<5	ug/l			no
22/8/2016	2,4,5-Trichlorophenol	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	2,4-Dinitrotoluene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	2,6-Dinitrotoluene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	2-Chloronaphthalene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	2-Methylnaphthalene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	2-Methylphenol	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	2-Nitrophenol	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	4-Bromophenyl Phenyl Ether	GC-MS	Annual	<1	<1	ug/l		10	no
22/8/2016	4-Chloro-3-methylphenol	GC-MS	Annual	<1	<1	ug/l		10	no
22/8/2016	4-Chlorophenyl phenyl ether	GC-MS	Annual			ug/l			no
22/8/2016	4-Nitrophenol	GC-MS	Annual	0.01	0.01	ug/l			no
22/8/2016	Acenaphthene	GC-MS	Annual	0.01	0.01	ug/l			no
22/8/2016	Benzo(a)anthracene	GC-MS	Annual	<0.01	<0.01	ug/l			no
22/8/2016	Benzo(a)pyrene	GC-MS	Annual	<0.01	<0.01	ug/l	0.0075		no
22/8/2016	Benzo(b)fluoranthene	GC-MS	Annual	<0.01	<0.01	ug/l			no
22/8/2016	Benzo(g,h,i)perylene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Benzyl Butyl Phthalate	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Bis(2-chloroethoxy)methane	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Bis(2-chloroethyl)ether	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Bis(2-chloroisopropyl)ether	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Bis(2-ethylhexyl)phthalate	GC-MS	Annual	<0.01	<0.01	ug/l			no
22/8/2016	Dibenz(a,h)anthracene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Dibenzofuran	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Diethylphthalate	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	di-n-Butylphthalate	GC-MS	Annual	<1	<1	ug/l		30	no
22/8/2016	Di-n-octylphthalate	GC-MS	Annual			ug/l			no
22/8/2016	Diphenylamine	GC-MS	Annual	<5	<5	ug/l			no
22/8/2016	Hexachloroethane	GC-MS	Annual	<0.01	<0.01	ug/l			no
22/8/2016	Indeno(1,2,3-c,d)pyrene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Isophorone	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Nitrobenzene	GC-MS	Annual			ug/l			no
22/8/2016	n-Nitrosodi-n-propylamine	GC-MS	Annual			ug/l		500	no
22/8/2016	Acetone	GC-MS	Annual			ug/l			no
22/8/2016	Dichloromethane	GC-MS	Annual			ug/l			no
22/8/2016	Tetrahydrofuran	GC-MS	Annual			ug/l			no
22/8/2016	Toluene	GC-MS	Annual			ug/l			no
22/8/2016	Xylene -o	GC-MS	Annual			ug/l			no
22/8/2016	Dichlorodifluoromethane	GC-MS	Annual			ug/l			no
22/8/2016	Ethyl Chloride/Chloroethane	GC-MS	Annual			ug/l			no
22/8/2016	Ethyl Ether/Diethyl Ether	GC-MS	Annual			ug/l			no
22/8/2016	lodomethane/Methyl lodide	GC-MS	Annual			ug/l			no
22/8/2016	Carbon Disulphide	GC-MS	Annual			ug/l		1	no
22/8/2016	Allyl Chloride	GC-MS	Annual			ug/l			no

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22/0/2246		Chlormethyl	00.145							
22/8/2016		Cyanide/Chloroacetonitrile	GC-MS	Annual			ug/l			no
22/8/2016		Propanenitrile	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016		Trans-1,2 Dichloroethene	GC-MS	Annual			ug/l			no
22/8/2016		MtBE	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016		2,2-dichloropropane	GC-MS	Annual	<1	<1	ug/l		1	no
22/8/2016		cis-12 Dichloroethene	GC-MS	Annual			ug/l			no
22/8/2016		2-Butanone	GC-MS	Annual			ug/l		10	no
22/8/2016		Methyl Acrylate	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016		Bromochloromethane	GC-MS	Annual			ug/l			no
22/8/2016		Methacrylonitrile	GC-MS	Annual			ug/l			no
22/8/2016		1-Chlorobutane	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016		Carbon Tetrachloride	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016		Dibromomethane	GC-MS	Annual			ug/l			no
22/8/2016		Methyl Methacrylate	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016		13 Dichloropropene, cis	GC-MS	Annual			ug/l			no
22/8/2016		MIBK/4 Methyl 2 Pentanone	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016		1,3 Dichloropropene,trans	GC-MS	Annual	-		ug/l			no
22/8/2016		Ethyl Methacrylate	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016		Bromobenzene	GC-MS	Annual		~1	ug/l			no
				Annadi			-6/			
22/8/2016		Trans 14 Dichloro 2 Butene, tran	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016		P Isopropyltoluene	GC-MS	Annual			ug/l			no
22/8/2016		N Butyl Benzene	GC-MS	Annual			ug/l			no
22/8/2016		1,2-dibromo-3-chloropropane	GC-MS	Annual			ug/l			no
22/8/2010		1,2-dibromo-3-cinoropropane	GC-MS	Annual	<0.1	<0.1	ug/l			no
22/8/2010			GC-MS		NO.1	<0.1	ug/l			no
22/8/2016		Mecoprop Bentazone	GC-MS	Annual	<0.01	<0.01	ug/i ug/l			IIU
22/8/2016		Simazine	GC-MS	Annual			-			
	98 1D		Meter	Annual	<0.1	<0.1	ug/l SELECT			
Quarterly	98 10	pH	Meter	Quarterly	7.1	6.8	SELECT		9.5	no
Quarterly Quarterly		Temp Elec.Conductivity	Meter	Quarterly	11.1	9.7		000 4075	25	
		· · · · · · · · · · · · · · · · · · ·		Quarterly	601	324		800-1875	1000	no
Quarterly		Chlorides	titration	Quarterly	17.6	13.9	mg/l	24-187.5	250	no
22/8/2016 19/8/2016		Ammoniacal Nitorgen Iron	ICP	Quarterly annual	0.04	0.02	mg/l ug/l	0.065-0.175		no
					0.02	0.02	-		0.2	
quarterly		TON	HACH	annual	0.3	0.3	ug/l	-	No abnormal change	no
22/8/2016 22/8/2016		TOC Cadmium	TOC analyser ICP	Quarterly	1.43	0.73	mg/l		0.005	no
22/8/2016		Cadmium Chromium (total)	ICP	Annual	<1	<1	ug/l	-	0.005	no
		, ,		Annual	<1	<1	ug/l	37.5	0.03	
22/8/2016		Copper	COLORIMETRY	Annual	<1	<1	ug/l	1500	0.03	no
22/8/2016		Cyanide (Total)	ICP	Annual	<0.01	<0.01	ug/l	-	0.01	no
22/8/2016		Lead	ICP	Annual	<1	<1	ug/l	18.75	0.01	no
22/8/2016		Mangnesium	ICP	Annual	7.79	7.79	mg/l	-	50	no
22/8/2016		Manganese	ICP	Annual	22.6	22.6	ug/l	-	0.05	no
22/8/2016		Mercury	ICP	Annual	<0.5	<0.5	ug/l	0.75	0.001	no
22/8/2016		Nickle	ICP	Annual	<1	<1	ug/l	15	0.02	no
22/8/2016		Potassium	ICP Aquakem auto	Annual	<1.0	<1.0	mg/l	-	5	no
22/8/2016		Sulphate	analyser	Annual	3.4	3.4	mg/l	187.5	200	no
22/8/2016		Total Alkalinity	icp	Annual	100	100	mg/l	-		no

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22/8/2016	Total Phosphorus	spectrophotometry apha	Annual	0.00	0.09	mg/l	0.09		no
22/8/2016	Naphthalene	GC-MS	Annual	0.09 <0.01	<0.09	ug/l	0.09	0.5	no
22/8/2016	Acenaphthylene	GC-MS		<0.01		ug/l		0.5	no
22/8/2016	Anthracene	GC-MS	Annual	0.01	<0.01	ug/i ug/i			no
22/8/2010		GC-MS	Annual	<0.01		-			
22/8/2016	Chrysene Fluoranthene	GC-MS	Annual	0.01	<0.01	ug/l		1	no
22/8/2016	Fluorene	GC-MS	Annual	<0.01	0.01	ug/l			
22/8/2016	Pyrene	GC-MS	Annual	0.01	<0.01	ug/l			no
22/8/2016	Pyrene Phenanthrene	GC-MS	Annual	0.01		ug/l		12	no
22/8/2010	Bromodichloromethane	GC-MS	Annual	<1	0.01	ug/l ug/l			no
22/8/2016	Bromoform	GC-MS	Annual	<1	<1				no
22/8/2016	Chloroform	GC-MS	Annual	<1		ug/l ug/l			
22/8/2016	Dibromochloromethane	GC-MS	Annual	<1	<1				no
		1	Annual			ug/l			no
22/8/2016	Dibromochloromethane	GC-MS GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Vinyl Chloride		Annual	<1	<1	ug/l		2	no
22/8/2016	Chloromethane	GC-MS	Annual			ug/l			no
22/8/2016	Trichloroethene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Bromomethane	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Trichloromonofluoromethane	GC-MS	Annual	<1	<1	ug/I			no
22/8/2016	11 Dichloroethene	GC-MS	Annual	<1	<1	ug/l		0.03	no
22/8/2016	Chloromethane	GC-MS	Annual	<1	<1	ug/l		0.1	no
22/8/2016	1,1-dichloroethane	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	11 Dichloropropene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	1,2 dichloroethane	GC-MS	Annual	<1	<1	ug/l	2.25		no
22/8/2016	1,2-dichloropropane	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	1,1,1-trichloroethane	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	112 Trichloroethane	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	1,3-dichloropropane	GC-MS	Annual			ug/l			no
22/8/2016	2-Hexanone	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	1,2-dibromoethane	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Chlorobenzene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	1,1,1,2-tetrachloroethane	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Ethylbenzene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Xylene P&M	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Styrene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Isopropylbenzene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	1,1,2,2-tetrachloroethane	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	1,2,3-trichloropropane	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Propylbenzene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	2-chlorotoluene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	4-chlorotoluene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	1,3,5-trimethylbenzene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Tert Butyl Benzene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	1,2,4-trimethylbenzene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	sec-butylbenzene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Pentachlorophenol	GC-MS	Annual	<5	<5	ug/l			no
22/8/2016	Tetrachloroethene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Hexachlorobenzene	GC-MS	Annual	<1	<1	ug/l		1	no
22/8/2016	Hexachlorobutadiene	GC-MS	Annual	<5	<5	ug/l			no
		-			~			1	

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22/8/2016	2,4-Dichlorophenol	GC-MS	Annual	<5	<5	ug/l			no
22/8/2016	2,4-Dimethylphenol	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	2-Chlorophenol	GC-MS	Annual	<5	<5	ug/l			no
22/8/2016	1,2,4-trichlorobenzene	GC-MS	Annual	<5	<5	ug/l			no
22/8/2016	1,2-dichlorobenzene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	1,3-dichlorobenzene	GC-MS	Annual	<5	<5	ug/l			no
22/8/2016	1,4-dichlorobenzene	GC-MS	Annual	<5	<5	ug/l			no
22/8/2016	2,4,5-Trichlorophenol	GC-MS	Annual	<5	<5	ug/l			no
22/8/2016	2,4-Dinitrotoluene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	2,6-Dinitrotoluene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	2-Chloronaphthalene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	2-Methylnaphthalene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	2-Methylphenol	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	2-Nitrophenol	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	4-Bromophenyl Phenyl Ether	GC-MS	Annual	<1	<1	ug/l		10	no
22/8/2016	4-Chloro-3-methylphenol	GC-MS	Annual	<1	<1	ug/l		10	no
22/8/2016	4-Chlorophenyl phenyl ether	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	4-Nitrophenol	GC-MS	Annual			ug/l			no
22/8/2016	Acenaphthene	GC-MS	Annual	0.01	0.01	ug/l			no
22/8/2016	Benzo(a)anthracene	GC-MS	Annual	<0.01	<0.01	ug/l			no
22/8/2016	Benzo(a)pyrene	GC-MS	Annual	<0.01	<0.01	ug/l	0.0075		no
22/8/2016	Benzo(b)fluoranthene	GC-MS	Annual	<0.01	<0.01	ug/l			no
22/8/2016	Benzo(g,h,i)perylene	GC-MS	Annual	<0.01	<0.01	ug/l			no
22/8/2016	Benzyl Butyl Phthalate	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Bis(2-chloroethoxy)methane	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Bis(2-chloroethyl)ether	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Bis(2-chloroisopropyl)ether	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Bis(2-ethylhexyl)phthalate	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Dibenz(a,h)anthracene	GC-MS	Annual	<0.01	<0.01	ug/l			no
22/8/2016	Dibenzofuran	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Diethylphthalate	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	di-n-Butylphthalate	GC-MS	Annual	<1	<1	ug/l		30	no
22/8/2016	Di-n-octylphthalate	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Diphenylamine	GC-MS	Annual			ug/l			no
22/8/2016	Hexachloroethane	GC-MS	Annual	<5	<5	ug/l			no
22/8/2016	Indeno(1,2,3-c,d)pyrene	GC-MS	Annual	<0.01	<0.01	ug/l			no
22/8/2016	Isophorone	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Nitrobenzene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	n-Nitrosodi-n-propylamine	GC-MS	Annual			ug/l		500	no
22/8/2016	Acetone	GC-MS	Annual			ug/l			no
22/8/2016	Dichloromethane	GC-MS	Annual			ug/l			no
22/8/2016	Tetrahydrofuran	GC-MS	Annual			ug/l			no
22/8/2016	Toluene	GC-MS	Annual			ug/l			no
22/8/2016	Xylene -o	GC-MS	Annual			ug/l			no
22/8/2016	Dichlorodifluoromethane	GC-MS	Annual			ug/l	ļ		no
22/8/2016	Ethyl Chloride/Chloroethane	GC-MS	Annual			ug/l			no
22/8/2016	Ethyl Ether/Diethyl Ether	GC-MS	Annual			ug/l			no
22/8/2016	lodomethane/Methyl lodide	GC-MS	Annual			ug/l			no

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22/8/2016	Carbon Disulphide	GC-MS	Annual			ug/l			no
22/8/2016	Allyl Chloride	GC-MS	Annual			ug/l			no
22/8/2016	Chlormethyl Cyanide/Chloroacetonitrile	GC-MS	Annual			ug/l			no
22/8/2016	Propanenitrile	GC-MS	Annual			ug/l			no
22/8/2016	Trans-1,2 Dichloroethene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	MtBE	GC-MS	Annual			ug/l			no
22/8/2016	2,2-dichloropropane	GC-MS	Annual	<1	<1	ug/l		1	no
22/8/2016	cis-12 Dichloroethene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	2-Butanone	GC-MS	Annual			ug/l		10	no
22/8/2016	Methyl Acrylate	GC-MS	Annual			ug/l			no
22/8/2016	Bromochloromethane	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Methacrylonitrile	GC-MS	Annual			ug/l			no
22/8/2016	1-Chlorobutane	GC-MS	Annual			ug/l			no
22/8/2016	Carbon Tetrachloride	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Dibromomethane	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Methyl Methacrylate	GC-MS	Annual			ug/l			no
22/8/2016	13 Dichloropropene,cis	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	MIBK/4 Methyl 2 Pentanone	GC-MS	Annual			ug/l			no
22/8/2016	1,3 Dichloropropene,trans	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Ethyl Methacrylate	GC-MS	Annual			ug/l			no
22/8/2016	Bromobenzene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Trans 14 Dichloro 2 Butene, tran	GC-MS	Annual			ug/l			no
22/8/2016	P Isopropyltoluene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	N Butyl Benzene	GC-MS	Annual			ug/l			no
22/8/2016	1,2-dibromo-3-chloropropane	GC-MS	Annual			ug/l			no
22/8/2016	1,2,3-trichlorobenzene	GC-MS	Annual			ug/l			no
22/8/2016	Mecoprop	GC-MS	Annual	<0.1	<0.1	ug/l			no
annual	Bentazone	GC-MS	Annual					9.5	data not available
annual	Simazine	GC-MS	Annual	<0.01	<0.01			25	data not available

oncentration from all monitoring results produced during the reporting year

Groundwater monitoring results

Date of sampling Quarterly	Sample location reference	Parameter/ Substance pH	Methodology	Monitoring frequency	Maximum Concentration++ 6.6	Average Concentration+ 6.45	unit SELECT	GTV's*	SW EQS	Upward trend in yearly average pollutant concentration over last 5 years of monitoring data no
Quarterly	610	Temp		Quarterly	12	10.61	SELECT		25	no
Quarterly		Elec.Conductivity		Quarterly	287.06	259		800-1875	1000	no
Quarterly		Chlorides		Quarterly	19	16.2	mg/l	24-187.5	250	no
22/8/2016		Ammoniacal Nitorgen		Quarterly	1.44	1.045	mg/l	0.065-0.175		no
19/8/2016		Iron		annual	57.24	57.24	ug/l		0.2	no
quarterly		TON		annual	<0.2	<0.2	ug/l	-	No abnormal change	no
22/8/2016		TOC		Quarterly	5.01	3.74	mg/l			no
22/8/2016		Cadmium		Annual	1.8		ug/l	-	0.005	no
22/8/2016		Chromium (total)		Annual	70.9	70.9	ug/l	37.5	0.03	no

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22/8/2016		Copper		Annual	48.9	48.9	ug/l	1500	0.03	no
22/8/2016		Cyanide (Total)		Annual	<0.01	<0.01	ug/l	-	0.01	no
22/8/2016		Lead		Annual	20.8	20.8	ug/l	18.75	0.01	no
22/8/2016		Mangnesium		Annual	7.04	7.04	mg/l	-	50	no
22/8/2016		Manganese		Annual	1744	1744	ug/l	-	0.05	no
22/8/2016		Mercury		Annual	<0.5	<0.5	ug/l	0.75	0.001	no
22/8/2016		Nickle		Annual	619	619	ug/l	15	0.02	no
22/8/2016		Potassium		Annual	<1.0	<1.0	mg/l	-	5	no
22/8/2016		Sulphate		Annual	3.4	3.4	mg/l	187.5	200	no
22/8/2016		Total Alkalinity		Annual	125	125	mg/l	-	200	no
22/8/2016		Total Phosphorus		Annual	0.1	0.1	mg/l	0.09		no
Quarterly	96 3D	pH	Meter	Quarterly	7.1	6.8	SELECT	0.05	9.5	no
Quarterly		Temp	Meter	Quarterly	15.1	12			25	no
Quarterly		Elec.Conductivity	Meter	Quarterly	480	377.1		800-1875	1000	no
Quarterly		Chlorides	titration	Quarterly	13.9	13	mg/l	24-187.5	250	no
Quarterly		Ammoniacal Nitorgen	ISE	Quarterly	8.87	4.8	mg/l	0.065-0.175	230	yes
22/8/2016		Iron	ICP	annual	0.04	0.0386	ug/l	0.005-0.175	0.2	no
22/8/2010		TON	HACH	annual	0.44	0.44	ug/l		No abnormal change	no
Quarterly		тос	TOC analyser					-	No abnormal change	no
19/82015		Cadmium	ICP	Quarterly Annual	3.8	2.48	mg/l ug/l	_	0.005	no
22/8/2015		Chromium (total)	ICP				ug/i ug/i			no
22/8/2016			COLORIMETRY	Annual	<1	<1		37.5	0.03	no
22/8/2016		Copper	ICP	Annual	<1	<1	ug/l	1500	0.03	
		Cyanide (Total)		Annual	<0.01	<0.01	ug/l	-		no
22/8/2016		Lead	ICP	Annual	<1	<1	ug/l	18.75	0.01	no
22/8/2016		Mangnesium	ICP	Annual	10.6	10.6	mg/l	-	50	no
22/8/2016		Manganese	ICP	Annual	23.1	23.1	ug/l	-	0.05	no
22/8/2016		Mercury	ICP	Annual	<0.5	<0.5	ug/l	0.75	0.001	no
22/8/2016		Nickle	ICP	Annual	<1	<1	ug/l	15	0.02	no
22/8/2016		Potassium	ICP Aquakem auto	Annual	1.33	1.33	mg/I	-	5	no
22/8/2016		Sulphate	analyser	Annual	2.99	2.99	mg/I	187.5	200	no
22/8/2016		Total Alkalinity	icp	Annual	174	174	mg/l	-		no
			spectrophotometry							
22/8/2016		Total Phosphorus	apha	Annual	0.6	0.6	mg/I	0.09		no
22/8/2016		Naphthalene	GC-MS	Annual	0.09	0.09	ug/l		0.5	no
22/8/2016		Acenaphthylene	GC-MS	Annual	<0.01	<0.01	ug/l			no
22/8/2016		Anthracene	GC-MS	Annual	<0.01	<0.01	ug/l		12	no
22/8/2016		Chrysene	GC-MS	Annual	<0.01	<0.01	ug/l			no
22/8/2016		Fluoranthene	GC-MS	Annual	<0.01	<0.01	ug/l			no
22/8/2016		Fluorene	GC-MS	Annual	<0.01	<0.01	ug/l			no
22/8/2016		Pyrene	GC-MS	Annual	0.01	0.01	ug/l			no
22/8/2016		Phenanthrene	GC-MS	Annual	0.01	0.01	ug/l			no
22/8/2016		Bromodichloromethane	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016		Bromoform	GC-MS	Annual	<1	<1	ug/l		2	no
22/8/2016		Chloroform	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016		Dibromochloromethane	GC-MS	Annual			ug/l			no
22/8/2016		Vinyl Chloride	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016		Chloromethane	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016		Trichloroethene	GC-MS	Annual			ug/l		0.03	no
22/8/2016		Bromomethane	GC-MS	Annual	<1	<1	ug/l		0.1	no
22/8/2016		Trichloromonofluoromethane	GC-MS	Annual			ug/l			no

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22/8/2016	11 Dichloroethene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Chloromethane	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	1,1-dichloroethane	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	11 Dichloropropene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	1,2 dicloroethane	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	1,2-dichloropropane	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	1,1,1-trichloroethane	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	112 Trichloroethane	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	1,3-dichloropropane	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	2-Hexanone	GC-MS	Annual			ug/l			no
22/8/2016	1,2-dibromoethane	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Chlorobenzene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	1,1,1,2-tetrachloroethane	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Ethylbenzene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Xylene P&M	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Xylene O	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Styrene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Isopropylbenzene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	1,1,2,2-tetrachloroethane	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	1,2,3-trichloropropane	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Propylbenzene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	2-chlorotoluene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	4-chlorotoluene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	1,3,5-trimethylbenzene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Tert Butyl Benzene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	1,2,4-trimethylbenzene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	sec-butylbenzene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Pentachlorophenol	GC-MS	Annual	<5	<5	ug/l			no
22/8/2016	Tetrachloroethene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Hexachlorobenzene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Hexachlorobutadiene	GC-MS	Annual	<5	<5	ug/l			no
22/8/2016	2,4,6-Trichlorophenol	GC-MS	Annual	<5	<5	ug/l			no
22/8/2016	2,4-Dichlorophenol	GC-MS	Annual	<5	<5	ug/l			no
22/8/2016	2,4-Dimethylphenol	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	2-Chlorophenol	GC-MS	Annual	<5	<5	ug/l			no
22/8/2016	1,2,4-trichlorobenzene	GC-MS	Annual	<5	<5	ug/l			no
22/8/2016	1,2-dichlorobenzene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	1,3-dichlorobenzene	GC-MS		<5	<5	ug/l			no
22/8/2016	1,4-dichlorobenzene	GC-MS	Annual Annual	<5	<5	ug/l			no
22/8/2016	2,4,5-Trichlorophenol	GC-MS	Annual	<5	<5	ug/l			no
22/8/2016	2,4,5-Trichlorophenol	GC-MS	Annual	<1	<1	ug/I ug/I			no
22/8/2016	2,4-Dinitrotoluene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	2-Chloronaphthalene	GC-MS	Annual	<1	<1	ug/l		10	no
22/8/2016	2-Methylnaphthalene	GC-MS	Annual	<1	<1	ug/l		10	no
22/8/2016	2-Methylphenol	GC-MS		<1		ug/l		10	no
22/8/2016	2-Nitrophenol	GC-MS	Annual	<1	<1				no
22/8/2016	2-Nitrophenol 4-Bromophenyl Phenyl Ether	GC-MS	Annual	<1	<1	ug/l			
22/8/2016		GC-MS GC-MS	Annual	<1	<1	ug/l			no
	4-Chloro-3-methylphenol		Annual		<1	ug/l			no
22/8/2016	4-Chlorophenyl phenyl ether	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	4-Nitrophenol	GC-MS	Annual			ug/l			no

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22/8/2016	Acenaphthene	GC-MS	Annual	0.01	0.01	ug/l			no
22/8/2016	Benzo(a)anthracene	GC-MS	Annual	<0.01	<0.01	ug/l			no
22/8/2016	Benzo(a)pyrene	GC-MS	Annual	<0.01	<0.01	ug/l			no
22/8/2016	Benzo(b)fluoranthene	GC-MS	Annual	<0.01	<0.01	ug/l			no
22/8/2016	Benzo(g,h,i)perylene	GC-MS	Annual	<0.01	<0.01	ug/l			no
22/8/2016	Benzyl Butyl Phthalate	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Bis(2-chloroethoxy)methane	GC-MS		<1					no
			Annual		<1	ug/l			
22/8/2016 22/8/2016	Bis(2-chloroethyl)ether	GC-MS GC-MS	Annual	<1 <1	<1	ug/l			no
	Bis(2-chloroisopropyl)ether		Annual		<1	ug/l			no
22/8/2016	Bis(2-ethylhexyl)phthalate	GC-MS	Annual	<1	<1	ug/l		30	no
22/8/2016	Dibenz(a,h)anthracene	GC-MS	Annual	<0.01	<0.01	ug/l			no
22/8/2016	Dibenzofuran	GC-MS	Annual		<1	ug/l			no
22/8/2016	Diethylphthalate	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	di-n-Butylphthalate	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Di-n-octylphthalate	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Diphenylamine	GC-MS	Annual			ug/l			no
22/8/2016	Hexachloroethane	GC-MS	Annual	<5	<5	ug/l		500	no
22/8/2016	Indeno(1,2,3-c,d)pyrene	GC-MS	Annual	<0.01	<0.01	ug/l			no
22/8/2016	Isophorone	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Nitrobenzene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	n-Nitrosodi-n-propylamine	GC-MS	Annual			ug/l			no
22/8/2016	Acetone	GC-MS	Annual			ug/l			no
22/8/2016	Dichloromethane	GC-MS	Annual	<50	<50	ug/l			no
22/8/2016	Tetrahydrofuran	GC-MS	Annual			ug/l			no
22/8/2016	Toluene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Xylene -o	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Dichlorodifluoromethane	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Ethyl Chloride/Chloroethane	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Ethyl Ether/Diethyl Ether	GC-MS	Annual			ug/l			no
22/8/2016	Iodomethane/Methyl Iodide	GC-MS	Annual			ug/l			no
22/8/2016	Carbon Disulphide	GC-MS	Annual			ug/l			no
22/8/2016	Allyl Chloride Chlormethyl	GC-MS	Annual			ug/l			no
22/8/2016	Cyanide/Chloroacetonitrile	GC-MS	Annual			ug/l		1	no
22/8/2016	Propanenitrile	GC-MS	Annual			ug/l			no
22/8/2016	Trans-1,2 Dichloroethene	GC-MS	Annual	<1	<1	ug/l		10	no
22/8/2016	MtBE	GC-MS	Annual			ug/l			no
22/8/2016	2,2-dichloropropane	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	cis-12 Dichloroethene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	2-Butanone	GC-MS	Annual			ug/l			no
22/8/2016	Methyl Acrylate	GC-MS	Annual			ug/l			no
22/8/2016	Bromochloromethane	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Methacrylonitrile	GC-MS	Annual			ug/l			no
22/8/2016	1-Chlorobutane	GC-MS	Annual			ug/l			no
22/8/2016	Carbon Tetrachloride	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Dibromomethane	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Methyl Methacrylate	GC-MS	Annual			ug/l			no
22/8/2016	13 Dichloropropene, cis	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	MIBK/4 Methyl 2 Pentanone	GC-MS	Annual			ug/l			no

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22/8/2016		13 Dichloropropene, trans	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016		Ethyl Methacrylate	GC-MS	Annual			ug/l			no
22/8/2016		Bromobenzene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016		Trans 14 Dichloro 2 Butene, tran	GC-MS	Annual			ug/l			no
22/8/2016		P Isopropyltoluene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016		N Butyl Benzene	GC-MS	Annual					9.5	no
22/8/2016		1,2-dibromo-3-chloropropane	GC-MS	Annual					25	no
22/8/2016		1,2,3-trichlorobenzene	GC-MS	Annual					1000	no
22/8/2016		Mecoprop	GC-MS	Annual	<0.1	<0.1	mg/l		250	no
22/8/2016		Bentazone	GC-MS	Annual			mg/l			no
22/8/2016		Simazine	GC-MS	Annual	<0.01	<0.01	ug/l		0.2	no
Quarterly	96 4s	рН		Quarterly	7	6.7	SELECT		9.5	no
Quarterly		Temp		Quarterly	15	12			25	no
Quarterly		Elec.Conductivity		Quarterly	267	236		800-1875	1000	no
Quarterly		Chlorides		Quarterly	12.9	11.2	mg/I	24-187.5	250	no
Quarterly		Ammoniacal Nitorgen		Quarterly	0.23	0.15	mg/I	0.065-0.175		no
22/8/2016		Iron		Annual	0.04	0.04	ug/l		0.2	no
22/8/2016		TON		Annual	0.65	0.65	ug/l	-	No abnormal change	no
Quarterly		TOC		Quarterly	5.9	4.5	mg/I			no
22/8/2016		Cadmium		Annual	<1	<1	ug/l	-	0.005	no
22/8/2016		Chromium (total)		Annual	2	2	ug/l	37.5	0.03	no
22/8/2016		Copper		Annual	8.4	8.4	ug/l	1500	0.03	no
22/8/2016		Cyanide (Total)		Annual	<0.01	<0.01	ug/l	-	0.01	no
22/8/2016		Lead		Annual	<1	<1	ug/l	18.75	0.01	no
22/8/2016		Mangnesium		Annual	8.01	8.01	mg/I	-	50	no
22/8/2016		Manganese		Annual	2182	2182	ug/l	-	0.05	no
22/8/2016		Mercury		Annual	<0.5	<0.5	ug/l	0.75	0.001	no
22/8/2016		Nickle		Annual	15.3	15.3	ug/l	15	0.02	no
22/8/2016		Potassium		Annual	1	1	mg/I	-	5	no
22/8/2016		Sulphate		Annual	4.95	4.95	mg/I	187.5	200	no
22/8/2016		Total Alkalinity		Annual	106	106	mg/I	-		no
22/8/2016		Total Phosphorus		Annual	0.15	0.15	mg/I	0.09		no
Quarterly	96 4D	рН		Quarterly	7	6.9	SELECT		9.5	no
Quarterly		Temp		Quarterly	20.1	12.9			25	no
Quarterly		Elec.Conductivity		Quarterly	628	593			1000	no
Quarterly	l	Chlorides		Quarterly	18.6	16.8	mg/l		250	no
Quarterly		Ammoniacal Nitorgen		Quarterly	19.2	13.8	mg/l			yes
22/8/2016	l	Iron		Annual	0.93	0.925	ug/l		0.2	no
22/8/2016		TON		Annual	<0.2	<0.2	ug/l		No abnormal change	no
Quarterly		TOC		Quarterly	4.96	2.72	mg/l			no
19/82015		Cadmium		Annual	<1	<1	ug/l		0.005	no
22/8/2016		Chromium (total)		Annual	<1	<1	ug/l		0.03	no
22/8/2016		Copper		Annual	<1	<1	ug/l		0.03	no
22/8/2016		Cyanide (Total)		Annual	<0.01	<0.01	ug/l		0.01	no
22/8/2016		Lead		Annual	660	660	ug/l		0.01	no
22/8/2016		Mangnesium		Annual	17.9	17.9	mg/l		50	no
22/8/2016		Manganese		Annual	247	247	ug/l		0.05	no
22/8/2016		Mercury		Annual	<0.5	<0.5	ug/l		0.001	no
22/8/2016		Nickle		Annual	<1	<1	ug/l		0.02	no
22/8/2016		Potassium		Annual	3.44	3.44	mg/l		5	no

22/8/2016		ate			Lic No:	W0002-01		Year	2016	
		Sulphate		Annual	1.6	1.6	mg/l		200	no
22/8/2016		Total Alkalinity		Annual	306	306	mg/I			no
22/8/2016		Total Phosphorus		Annual	2.05	2.05	mg/l			no
Quarterly	96 5s	pH	Meter	Quarterly	6.7	6.6	mg/l		9.5	no
Quarterly		Temp	Meter	Quarterly	13.7	11.4	mg/I		25	no
Quarterly		Elec.Conductivity	Meter	Quarterly	800.4	730.6	mg/l	800-1875	1000	no
Quarterly		Chlorides	titration	Quarterly	59.6	57.3	mg/l	24-187.5	250	no
Quarterly		Ammoniacal Nitorgen	ISE	Quarterly	0.12	0.10	mg/I	0.065-0.175		no
22/8/2016		Iron	ICP	Annual	138.8	138.8	ug/l		0.2	no
19/82015		TON	HACH	Annual	<0.2	<0.2	ug/l		No abnormal change	no
Quarterly		TOC	TOC analyser	Quarterly	10.7	6.14	mg/l			no
19/82015		Cadmium	ICP	Annual	<1	<1	ug/l		0.005	no
22/8/2016		Chromium (total)	ICP	Annual	<1	<1	ug/l	37.5	0.03	no
22/8/2016		Copper	COLORIMETRY	Annual	2	2	ug/l	1500	0.03	no
22/8/2016		Cyanide (Total)	ICP	Annual	<0.01	<0.01	ug/l		0.01	no
22/8/2016		Lead	ICP	Annual	3.7	3.7	ug/l	18.75	0.01	no
22/8/2016		Mangnesium	ICP	Annual	8.83	8.83	mg/l	10.75	50	no
22/8/2016		Manganese	ICP	Annual	6233	6233	ug/l		0.05	no
22/8/2016		Mercury	ICP	Annual	<0.5	<0.5	ug/l	0.75	0.001	no
22/8/2016		Nickle	ICP	Annual	10.7	10.7	ug/l	15	0.02	no
22/8/2016		Potassium	ICP	Annual	1.09	1.09	mg/l	- 15	5	no
22/0/2010		rotassiam	Aquakem auto	Alliludi	1.05	1.05		-	5	110
22/8/2016		Sulphate	analyser	Annual	<0.5	<0.5	mg/I	187.5	200	no
22/8/2016		Total Alkalinity	icp	Annual	297	297	mg/I	-		no
22/8/2016		Total Phosphorus	spectrophotometry apha	Annual	0.08	0.08	mg/l	0.09		no
22/8/2016		Naphthalene	GC-MS	Annual	1.1	1.1	ug/l		0.5	no
22/8/2016		Acenaphthylene	GC-MS	Annual	<0.01	<0.01	ug/l			no
22/8/2016		Anthracene	GC-MS	Annual	<0.01	<0.01	ug/l			no
22/8/2016		Chrysene	GC-MS	Annual	<0.01	<0.01	ug/l		2	no
22/8/2016		Fluoranthene	GC-MS	Annual	<0.01	<0.01	ug/l			no
22/8/2016		Fluorene	GC-MS	Annual	<0.01	<0.01	ug/l			no
22/8/2016		Pyrene	GC-MS	Annual	<0.01	<0.01	ug/l			no
22/8/2016		Phenanthrene	GC-MS	Annual	<0.01	<0.01	ug/l			no
22/8/2016		Bromodichloromethane	GC-MS	Annual	<1	<1	ug/l		0.03	no
22/8/2016		Bromoform	GC-MS	Annual	<1	<1	ug/l		0.1	no
22/8/2016		Chloroform	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016		Dibromochloromethane	GC-MS	Annual			ug/l			no
22/8/2016		Vinyl Chloride	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016		Chloromethane	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016		Trichloroethene	GC-MS	Annual			ug/l			no
22/8/2016		Bromomethane	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016		Trichloromonofluoromethane	GC-MS	Annual			ug/l			no
22/8/2016		11 Dichloroethene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016		Chloromethane	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016		1,1-dichloroethane	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016		11 Dichloropropene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016		1,2 dicloroethane	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016		1,2-dichloropropane	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016		1,1,1-trichloroethane	GC-MS	Annual	<1	<1	ug/l			no
22/0/2010		_,_,		,	<1	<1	ug/l			no

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22/8/2016	1,3-dichloropropane	GC-MS	Annual	<1	<1	ug/l		-	no
22/8/2016	2-Hexanone	GC-MS	Annual			ug/l			no
22/8/2016	1,2-dibromoethane	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Chlorobenzene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	1,1,1,2-tetrachloroethane	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Ethylbenzene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Xylene P&M	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Xylene O	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Styrene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Isopropylbenzene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	1,1,2,2-tetrachloroethane	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	1,2,3-trichloropropane	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Propylbenzene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	2-chlorotoluene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	4-chlorotoluene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	1,3,5-trimethylbenzene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Tert Butyl Benzene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	1,2,4-trimethylbenzene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	sec-butylbenzene	GC-MS		<1		ug/l			no
22/8/2016	Pentachlorophenol	GC-MS	Annual	<5	<1 <5	ug/l			no
22/8/2016	Tetrachloroethene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Hexachlorobenzene	GC-MS		<0.01					no
22/8/2016	Hexachlorobutadiene	GC-MS	Annual Annual	<5	<0.01 <5	ug/l			no
22/8/2016	2,4,6-Trichlorophenol	GC-MS		<5		ug/l			no
22/8/2016	2,4-Dichlorophenol	GC-MS	Annual	<5	<5	ug/l ug/l			no
22/8/2016		GC-MS	Annual	<1	<5 <1				no
22/8/2016	2,4-Dimethylphenol 2-Chlorophenol	GC-MS	Annual	<5		ug/l			no
22/8/2016	1,2,4-trichlorobenzene	GC-MS	Annual	<5	<5 <5	ug/l ug/l			no
22/8/2016			Annual	<1				10	no
22/8/2016	1,2-dichlorobenzene 1,3-dichlorobenzene	GC-MS GC-MS	Annual	<1	<1	ug/l		10	no
22/8/2016	1,4-dichlorobenzene	GC-MS	Annual	<1	<1	ug/l		10	no
			Annual		<1	ug/l			
22/8/2016 22/8/2016	2,4,5-Trichlorophenol 2,4-Dinitrotoluene	GC-MS GC-MS	Annual	<5 <1	<5	ug/l			no
			Annual		<1	ug/l			
22/8/2016	2,6-Dinitrotoluene	GC-MS	Annual	<1 <1	<1	ug/l			no
22/8/2016 22/8/2016	2-Chloronaphthalene 2-Methylnaphthalene	GC-MS GC-MS	Annual	<1	<1	ug/l ug/l			no
			Annual	<1	<1				no
22/8/2016	2-Methylphenol	GC-MS	Annual		<1	ug/l			
22/8/2016	2-Nitrophenol	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	4-Bromophenyl Phenyl Ether	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	4-Chloro-3-methylphenol	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	4-Chlorophenyl phenyl ether	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	4-Nitrophenol	GC-MS	Annual			ug/l			no
22/8/2016	Acenaphthene	GC-MS	Annual	<0.01	<0.01	ug/l			no
22/8/2016	Benzo(a)anthracene	GC-MS	Annual	<0.01	<0.01	ug/l			no
22/8/2016	Benzo(a)pyrene	GC-MS	Annual	<0.01	<0.01	ug/l			no
22/8/2016	Benzo(b)fluoranthene	GC-MS	Annual	<0.01	<0.01	ug/l		30	no
22/8/2016	Benzo(g,h,i)perylene	GC-MS	Annual	<0.01	<0.01	ug/l			no
22/8/2016	Benzyl Butyl Phthalate	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Bis(2-chloroethoxy)methane	GC-MS	Annual	<1	<1	ug/l			no

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22/8/2016	Bis(2-chloroethyl)ether	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Bis(2-chloroisopropyl)ether	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Bis(2-ethylhexyl)phthalate	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Dibenz(a,h)anthracene	GC-MS	Annual	<0.01	<0.01	ug/l		500	no
22/8/2016	Dibenzofuran	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Diethylphthalate	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	di-n-Butylphthalate	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Di-n-octylphthalate	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Diphenylamine	GC-MS	Annual			ug/l			no
22/8/2016	Hexachloroethane	GC-MS	Annual	<5	<5	ug/l			no
22/8/2016	Indeno(1,2,3-c,d)pyrene	GC-MS	Annual	<0.01	<0.01	ug/l			no
22/8/2016	Isophorone	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Nitrobenzene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	n-Nitrosodi-n-propylamine	GC-MS	Annual			ug/l			no
22/8/2016	Acetone	GC-MS	Annual			ug/l			no
22/8/2016	Dichloromethane	GC-MS	Annual	<50	<50	ug/l			no
22/8/2016	Tetrahydrofuran	GC-MS	Annual			ug/l			no
22/8/2016	Toluene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Xylene -o	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Dichlorodifluoromethane	GC-MS	Annual	<1	<1	ug/l		1	no
22/8/2016	Ethyl Chloride/Chloroethane	GC-MS		<1		ug/l			no
22/8/2016	Ethyl Ether/Diethyl Ether	GC-MS	Annual	<1	<1	-		10	
22/8/2016	Ethyl Ether/Diethyl Ether	GC-IVIS	Annual			ug/l		10	no
22/8/2016	Iodomethane/Methyl Iodide	GC-MS	Annual			ug/l			no
22/8/2016	Carbon Disulphide	GC-MS	Annual			ug/l			no
22/8/2016	Allyl Chloride	GC-MS	Annual			ug/l			no
22/8/2016	Chlormethyl Cyanide/Chloroacetonitrile	GC-MS	Annual			ug/l			no
22/8/2016	Propanenitrile	GC-MS	Annual			ug/l			no
22/8/2016	Trans-1,2 Dichloroethene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	MtBE	GC-MS	Annual		~1	ug/l			no
22/8/2016	2,2-dichloropropane	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	cis-12 Dichloroethene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	2-Butanone	GC-MS	Annual		~1	ug/l			no
22/8/2016	Methyl Acrylate	GC-MS	Annual			ug/l			no
22/8/2016	Bromochloromethane	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Methacrylonitrile	GC-MS	Annual		~1	ug/l			no
22/8/2016	1-Chlorobutane	GC-MS	Annual			ug/l			no
22/8/2016	Carbon Tetrachloride	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Dibromomethane	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Methyl Methacrylate	GC-MS	Annual		~1	ug/l			no
22/8/2016	13 Dichloropropene,cis	GC-MS	Annual	<1	<1	ug/l		1	no
			Annadi						
22/8/2016	MIBK/4 Methyl 2 Pentanone	GC-MS	Annual			ug/l			no
22/8/2016	13 Dichloropropene, trans	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Ethyl Methacrylate	GC-MS	Annual			ug/l			no
22/8/2016	Bromobenzene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Trans 14 Dichloro 2 Butene, tran	GC-MS	Annual			ug/l			no
22/8/2016	P Isopropyltoluene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	N Butyl Benzene	GC-MS	Annual			ug/l			no

1 1.24mmed-Hamegram 64/4 Anad 1 gright 1	ioil monit	oring templ	ate		-	Lic No:	W0002-01		Year	2016	
1220005 0 Monorgy 00-M3 1.9 1.9 0.01 0.00 0.00 2302016 0 Barane 65-M3 Anond 0.01	22/8/2016		1,2-dibromo-3-chloropropane	GC-MS	Annual			ug/l			no
22/2019 Desitance 69-69 Anaul of-081 of-08	22/8/2016		1,2,3-trichlorobenzene	GC-MS	Annual			ug/l			no
22020b OM Syname Synam Synam Synam	22/8/2016		Mecoprop	GC-MS	Annual	1.9	1.9	ug/l			no
BoardsBilledBillerOgeneryTopBillerDissBiller <td>22/8/2016</td> <td></td> <td>Bentazone</td> <td>GC-MS</td> <td>Annual</td> <td></td> <td></td> <td>ug/l</td> <td></td> <td></td> <td>no</td>	22/8/2016		Bentazone	GC-MS	Annual			ug/l			no
Datesy Twy Mater Questry 540 551 Low 25 26 Questry Chorden Mater Questry 540 554 420 751 100 90 Questry Chorden Marcolac Margen 557 Questry 540 541 741 411 421	22/8/2016		Simazine	GC-MS	Annual	<0.01	<0.01	ug/l			no
Dartey Interface Mode Statum Oparity 184 194 20237 1900 100 Dartey Monissel Norm Statum Oparity 184 1944 1964 1975 1900 1990 1975 1900 Dartey Monissel Norm St Oparity Control 1970 Amonisael Norm 1970 Amonisael Norm 1970 1990 239 300 0.050 ± 15 Control 1970	Quarterly	96 5d	рН	Meter	Quarterly	7.3	7.1	SELECT		9.5	no
Darsely Obtotion Parton Opering 14.8 High High 24.107.5 720 169 139.005 000 107 Anonal 2.29 129 0.00 0.05 0.02 0.00 139.005 000 107 MAD Anonal 0.02 0.00	Quarterly		Temp	Meter	Quarterly	13.9	11.1			25	no
Date Annobical Norgen 95 Quarty 0.00 mg/l 0.000 mg/l 0.000 mg/l 0.000 10	Quarterly		Elec.Conductivity	Meter	Quarterly	540	516		800-1875	1000	no
198005 (10) <	Quarterly		Chlorides	titration	Quarterly	14.8	14.4	mg/l	24-187.5	250	no
19935 170 M/H Arnual d.2 d.2 d.2 d.0 No shownad dange No Durstry TDC TOC statyer Outeriny 0.87 0.80 deft 1 0.00 deft deft 0.00 deft deft <td>Quarterly</td> <td></td> <td>Ammoniacal Nitorgen</td> <td>ISE</td> <td>Quarterly</td> <td>0.10</td> <td>0.09</td> <td>mg/l</td> <td>0.065-0.175</td> <td></td> <td>no</td>	Quarterly		Ammoniacal Nitorgen	ISE	Quarterly	0.10	0.09	mg/l	0.065-0.175		no
Date NO. POC POC subject Observe 0.03 0.04 mp/l NO. NO. NO. 22/07016 Chornium (btal) (CP Annual <1	19/82015		Iron	ICP	Annual	2.09	2.09	ug/l		0.2	no
122/7016 Chefmin GP Annual cl cl upple 0.0031 00 22/8/2016 Copper COLOMMETIN Annual cl cl uppl 37.5 0.0.03 not 22/8/2016 Copper COLOMMETIN Annual cd.01 dot 0.0.01 dots 22/8/2016 Copper COLOMMETIN Annual cd.01 dots 0.0.01 dots 22/8/2016 Copper CoLOMMETIN Annual cd.01 dots 0.0.01 dots 22/8/2016 Managones ICP Annual 31.6 31.6 mark 0.0.01 dots 22/8/2016 Macagones ICP Annual 1.1.6 1.1.6 mark 0.7.5 0.001 dots dots 22/8/2016 Mecasion Intervint 1.1.6 1.1.6 mark 0.5 dots mark 0.6 dots dots dots dots dots <tdo< td=""><td>19/82015</td><td></td><td>TON</td><td>HACH</td><td>Annual</td><td><0.2</td><td><0.2</td><td>ug/l</td><td>-</td><td>No abnormal change</td><td>no</td></tdo<>	19/82015		TON	HACH	Annual	<0.2	<0.2	ug/l	-	No abnormal change	no
122/2016 Chronum (brail) UP Annual cl cl up1 1275 0.03 no 22/2016 Copper COMMETRY Annual cl cl up1 100 0.03 no 22/2016 Copper COMMETRY Annual cl cl up1 - 0.01 no 22/2016 Maragetim UP Annual cl 4.1 up1 150 0.01 no 22/2016 Maragetim UP Annual cl 4.1 up1 . 0.05 no 22/2016 Maragetim UP Annual 1.4 1.4 up1 . 0.02 no 22/2016 Metain UP Annual 0.5 0.5 mg1 1275 2.00 no 22/2016 Fotal Abaining up Annual 0.5 0.5 mg1 1275 2.00 no 22/2016 Total Abaining up10 Annual	Quarterly		TOC	TOC analyser	Quarterly	0.82	0.60	mg/l			no
228/015 Copper COLOMMETRY Annual cl upl 1500 0.0.31 0.0.01 22/4/2016 Cyande (Total) 10° Annual -0.01 -0.01 no 22/4/2016 Lead 10° Annual -0.01 upl 12.57 0.01 no 22/4/2016 Mangenes 10° Annual 31.6 mg1 - 50 no 22/4/2016 Mangenes 10° Annual 31.6 mg1 - 50 no 22/4/2016 Mercary 10° Annual -0.51 0.001 no 22/4/2016 Mercary 10° Annual 1.4 1.4 4.4 - 5 0.001 no 22/4/2016 Stobate analyser Annual 0.5 0.5 mg1 157.5 2.00 no 22/4/2016 Total Ablainty ip Annual 0.01 0.1 mg1 0.99 . no 22/4/	22/8/2016		Cadmium	ICP	Annual	<1	<1	ug/l	-	0.005	no
122/2016 Cyande (fold) ICP Annual 40.01	22/8/2016		Chromium (total)	ICP	Annual	<1	<1	ug/l	37.5	0.03	no
121/105 1 </td <td>22/8/2016</td> <td></td> <td>Copper</td> <td>COLORIMETRY</td> <td>Annual</td> <td><1</td> <td><1</td> <td>ug/l</td> <td>1500</td> <td>0.03</td> <td>no</td>	22/8/2016		Copper	COLORIMETRY	Annual	<1	<1	ug/l	1500	0.03	no
121/105 1 </td <td>22/8/2016</td> <td></td> <td>Cyanide (Total)</td> <td>ICP</td> <td>Annual</td> <td><0.01</td> <td><0.01</td> <td>ug/l</td> <td>-</td> <td>0.01</td> <td>no</td>	22/8/2016		Cyanide (Total)	ICP	Annual	<0.01	<0.01	ug/l	-	0.01	no
22/2/2016 Manganese 1CP Annual 702 702 ug/l 0.05 no 22/2/2016 Merory 1CP Annual	22/8/2016		Lead	ICP	Annual	<1	<1		18.75	0.01	no
22//2016 Mercury ICP Annual Q.S. <q.s.< th=""> <q.s.< th=""> Q.D.I no 22//2016 Nickle ICP Annual 1.4 1.4 Q.S. Q.S. No 22//2016 Potassim ICP Annual 1.16 Inf. Inf. D.O.2 no 22//2016 Sulphate Aquakem auto No No No No No 22//2016 Total Malainhy igo Annual 0.5 0.5 mg/I . No No 22//2016 Total Malainhy igo Annual 0.01 0.01 mg/I . No No 22//2016 Naghtalene GC-MS Annual 0.01 0.01 ug/I 0.5 no 22//2016 Anthracene GC-MS Annual 0.01 0.01 ug/I . no 22//2016 Anthracene GC-MS Annual 0.01 0.01 ug/I . no</q.s.<></q.s.<>	22/8/2016		Mangnesium	ICP	Annual	31.6	31.6	mg/l	-	50	no
22/R/016 Nikke ICP Annual 1.4 1.4 ug/l 1.5 0.02 no 22/R/016 Potassium ICP Annual 1.16 1.16 mg/l - 5 no 22/R/016 Subphate Aquisemanto analyser Annual 0.5 0.5 mg/l 187.5 200 no 22/R/016 Total Akainity isp Annual 0.5 0.5 mg/l 187.5 200 no 22/R/016 Total Akainity isp Annual 0.1 0.1 mg/l 0.9 mo 22/R/016 Accaspthtylene GC-MS Annual 0.01 0.01 ug/l 2 no 22/R/016 Accaspthtylene GC-MS Annual 0.01 0.01 ug/l 1 0.0 no 22/R/016 Arthracene GC-MS Annual 0.01 0.01 ug/l 1 1 0.03 no 22/R/016 Fluoranthee GC-M	22/8/2016		Manganese	ICP	Annual	702	702	ug/l	-	0.05	no
22/8/2016 Petassum ICP Annual 11.6 11.6 mg/l . 5 mo 22/8/2016 Sulphate analyser Annual 0.5 0.5 mg/l 187.5 200 mo 22/8/2016 Total Alkalinity icp Annual 0.5 0.5 mg/l . 5 mo 22/8/2016 Total Alkalinity icp Annual 0.1 0.1 mg/l . 0.09 mo 22/8/2016 Naphthalee GC-MS Annual 0.01 0.01 mg/l 0.05 no 22/8/2016 Acenaphthylene GC-MS Annual 0.01 0.01 ug/l 2 mo 22/8/2016 Antracene GC-MS Annual 0.01 0.01 ug/l 0 no 22/8/2016 Fluorantene GC-MS Annual 0.01 0.01 ug/l 0.03 no 22/8/2016 Prene GC-MS Annual 0.01 ug	22/8/2016		Mercury	ICP	Annual	<0.5	<0.5	ug/l	0.75	0.001	no
Aquakem atro Aquakem atro Annual 0.5 0.5 mg/l 187.5 200 no 22/8/2016 Total Alkalinity icp Annual 231 231 231 mg/l . no 22/8/2016 Total Alkalinity icp Annual 0.1 mg/l . no 22/8/2016 Naphthalene GCMS Annual 0.01 0.01 ug/l 0.05 no 22/8/2016 Actempthylene GCMS Annual 0.01 0.01 ug/l 0.5 no 22/8/2016 Antraceme GCMS Annual 0.01 0.01 ug/l . no 22/8/2016 Antraceme GCMS Annual 0.01 0.01 ug/l . no 22/8/2016 Florantheme GCMS Annual 0.01 0.01 ug/l . . no 22/8/2016 Preme GCMS Annual 0.01 0.01 ug/l . . </td <td>22/8/2016</td> <td></td> <td>Nickle</td> <td>ICP</td> <td>Annual</td> <td>1.4</td> <td>1.4</td> <td>ug/l</td> <td>15</td> <td>0.02</td> <td>no</td>	22/8/2016		Nickle	ICP	Annual	1.4	1.4	ug/l	15	0.02	no
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	22/8/2016		Potassium	ICP	Annual	1.16	1.16	mg/l	-	5	no
22/8/2016 Total Alkalinity Icp Annual 291 mg/l . Incomposition 22/8/2016 Total Phosphorus apha Annual 0.1 0.1 mg/l 0.09 Incomposition 22/8/2016 Naphthalene GC-MS Annual 0.01 0.01 ug/l 0.09 0.5 no 22/8/2016 Acenaphthylee GC-MS Annual 0.01 0.01 ug/l 0.9 0.0 no 22/8/2016 Acenaphthylee GC-MS Annual 0.01 0.01 ug/l 0.0 0.0 22/8/2016 Chrysene GC-MS Annual 0.01 0.01 ug/l 0.0 no 22/8/2016 Fluorente GC-MS Annual 0.01 0.01 ug/l 0.03 no 22/8/2016 Purene GC-MS Annual 0.01 0.01 ug/l 0.03 no 22/8/2016 Phenanthree GC-MS Annual 0.01 0.01 0											
Z2/8/2016 Total Phosphorus spectrophoremetry apha Annual 0.1 0.1 mp/l 0.09 nn 22/8/2016 Naphthalene GC-MS Annual 0.01 0.01 ug/l 0.09 0.05 no 22/8/2016 Acenaphthylene GC-MS Annual 0.01 0.01 ug/l 2 no 22/8/2016 Anthracene GC-MS Annual 0.01 0.01 ug/l 2 no 22/8/2016 Chrysene GC-MS Annual 0.01 0.01 ug/l 0 no 22/8/2016 Fluoranthene GC-MS Annual 0.01 0.01 ug/l 0 no 22/8/2016 Fluoranthene GC-MS Annual 0.01 0.01 ug/l 0.03 no 22/8/2016 Prenen GC-MS Annual 0.02 0.02 ug/l 0.03 no 22/8/2016 Bromodichloromethane GC-MS Annual 1 1 ug/l <td>-</td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td>-</td> <td>187.5</td> <td>200</td> <td></td>	-			-				-	187.5	200	
22/8/2016 Total Phosphous appa Annual 0.1 0.1 mg/l 0.09 men 22/8/2016 Naphthalene GC-MS Annual 0.01 ug/l 0.5 0.5 22/8/2016 Annuphtylene GC-MS Annual 0.01 0.01 ug/l 2 0.5 0.01 22/8/2016 Anthracene GC-MS Annual 0.01 0.01 ug/l C C 0.00 22/8/2016 Chrysene GC-MS Annual 0.01 0.01 ug/l C C 0.00 22/8/2016 Fluoranthene GC-MS Annual 0.01 0.01 ug/l C 0.03 0.01 22/8/2016 Fluoranthene GC-MS Annual 0.01 0.01 ug/l C 0.03 0.01 22/8/2016 Fluoranthene GC-MS Annual 0.01 0.01 ug/l C 0.03 0.03 0.03 22/8/2016 Bromodichiromethane <t< td=""><td>22/8/2016</td><td></td><td>Total Alkalinity</td><td></td><td>Annual</td><td>291</td><td>291</td><td>mg/l</td><td>-</td><td></td><td>no</td></t<>	22/8/2016		Total Alkalinity		Annual	291	291	mg/l	-		no
$22/8/2016$ AcenaphthyleneGC-MSAnnual <0.01 <0.01 ug/l 2 no $22/8/2016$ AnthraceneGC-MSAnnual 0.01 0.01 ug/l 1 no $22/8/2016$ ChryseneGC-MSAnnual 0.01 0.01 ug/l 1 no $22/8/2016$ ChryseneGC-MSAnnual 0.01 0.01 ug/l 1 no $22/8/2016$ FluorantheneGC-MSAnnual 0.01 0.01 ug/l 1 no $22/8/2016$ FluoreneGC-MSAnnual 0.01 0.01 ug/l 0.03 no $22/8/2016$ PyreneGC-MSAnnual 0.01 0.01 ug/l 0.03 no $22/8/2016$ PyreneGC-MSAnnual 0.02 0.02 ug/l 0.1 no $22/8/2016$ PhenanthreneGC-MSAnnual 1 d_1 ug/l 0.1 no $22/8/2016$ BromoformGC-MSAnnual d_1 d_1 ug/l 0.1 no $22/8/2016$ BromoformGC-MSAnnual d_1 d_1 ug/l 0.1 no $22/8/2016$ OthoromethaneGC-MSAnnual d_1 d_1 ug/l 0.1 no $22/8/2016$ OthoromethaneGC-MSAnnual d_1 d_1 ug/l 0.1 no $22/8/2016$ ChloromethaneGC-MSAnnual d_1 d_1 ug/l <t< td=""><td>22/8/2016</td><td></td><td>Total Phosphorus</td><td></td><td>Annual</td><td>0.1</td><td>0.1</td><td>mg/l</td><td>0.09</td><td></td><td>no</td></t<>	22/8/2016		Total Phosphorus		Annual	0.1	0.1	mg/l	0.09		no
22/8/2016 Anthracene GC-MS Annual 0.01 ug/l Image: Constraint of the second of the seco	22/8/2016		Naphthalene	GC-MS	Annual	0.01	0.01	ug/l		0.5	no
22/8/2016 Chrysene GC-MS Annual 0.01 0.01 ug/l Image: constraint of the state of the	22/8/2016		Acenaphthylene	GC-MS	Annual	<0.01	<0.01	ug/l		2	no
22/8/2016 Fluoranthene GC-MS Annual 0.01 0.01 ug/l Image: constraint of the state of	22/8/2016		Anthracene	GC-MS	Annual	0.01	0.01	ug/l			no
22/8/2016 Fluorene GC-MS Annual <0.01 <0.01 ug/l no 22/8/2016 Pyrene GC-MS Annual 0.01 0.01 ug/l 0.03 no 22/8/2016 Phenanthrene GC-MS Annual 0.02 0.02 ug/l 0.1 no 22/8/2016 Bromodichloromethane GC-MS Annual <1	22/8/2016		Chrysene	GC-MS	Annual	0.01	0.01	ug/l			no
22/8/2016 Pyrene GC-MS Annual 0.01 ug/l 0.03 no 22/8/2016 Phenanthrene GC-MS Annual 0.02 0.02 ug/l 0.1 no 22/8/2016 Bromodichloromethane GC-MS Annual <1	22/8/2016		Fluoranthene	GC-MS	Annual	0.01	0.01	ug/l			no
22/8/2016PhenanthreneGC-MSAnnual0.020.02ug/l0.1no22/8/2016BromodichloromethaneGC-MSAnnual<1	22/8/2016		Fluorene	GC-MS	Annual	<0.01	<0.01	ug/l			no
2/8/2016 Bromodichloromethane GC-MS Annual cl off ug/l off no 2/8/2016 Bromodichloromethane GC-MS Annual cl cl ug/l off no 2/8/2016 Bromoform GC-MS Annual cl cl ug/l off no 2/8/2016 Chloroform GC-MS Annual cl cl ug/l off no 2/8/2016 Dibromochloromethane GC-MS Annual cl ug/l off no 2/8/2016 Vinyl Chloride GC-MS Annual cl ug/l off no 2/8/2016 Vinyl Chloride GC-MS Annual cl ug/l off no 2/8/2016 Chloromethane GC-MS Annual cl ug/l off no 2/8/2016 Trichloromethane GC-MS Annual cl ug/l off no 2/8/2016 Bromomethane GC-MS	22/8/2016		Pyrene	GC-MS	Annual	0.01	0.01	ug/l		0.03	no
22/8/2016 Bromoform GC-MS Annual <1 <1 ug/l Image: Constraint of the state of the st	22/8/2016		Phenanthrene	GC-MS	Annual	0.02	0.02	ug/l		0.1	no
22/8/2016ChloroformGC-MSAnnual<1<1ug/lImage: Constraint of the constraint of	22/8/2016		Bromodichloromethane	GC-MS	Annual	<1	<1	ug/l			no
2/8/2016DibromochloromethaneGC-MSAnnualug/lno2/8/2016Vinyl ChlorideGC-MSAnnual<1	22/8/2016		Bromoform	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016Vinyl ChlorideGC-MSAnnual <1 <1 ug/l ug/l no $22/8/2016$ ChloromethaneGC-MSAnnual <1 <1 ug/l no no $22/8/2016$ TrichloromethaneGC-MSAnnual <1 ug/l ug/l no no $22/8/2016$ BromomethaneGC-MSAnnual <1 <1 ug/l no no $22/8/2016$ BromomethaneGC-MSAnnual <1 <1 ug/l no no $22/8/2016$ TrichloromonfluoromethaneGC-MSAnnual <1 <1 ug/l no no $22/8/2016$ 11 DichloroetheneGC-MSAnnual <1 <1 ug/l no no $22/8/2016$ 11 DichloroetheneGC-MSAnnual <1 <1 ug/l no no $22/8/2016$ 1.1.1-dichloroethaneGC-MSAnnual <1 <1 ug/l no no $22/8/2016$ 1.1.1-dichloroethaneGC-MSAnnual <1 <1 ug/l no no	22/8/2016		Chloroform	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016ChloromethaneGC-MSAnnual <1 <1 ug/l ug/l no $22/8/2016$ TrichlorotheneGC-MSAnnual <1 ug/l ug/l no $22/8/2016$ BromomethaneGC-MSAnnual <1 <1 ug/l ug/l no $22/8/2016$ TrichloromonofluoromethaneGC-MSAnnual <1 <1 ug/l ug/l no $22/8/2016$ TrichloromethaneGC-MSAnnual <1 <1 ug/l ug/l no $22/8/2016$ 11 DichloroetheneGC-MSAnnual <1 <1 ug/l ug/l no $22/8/2016$ ChloromethaneGC-MSAnnual <1 <1 ug/l ug/l no $22/8/2016$ 1,1-dichloroethaneGC-MSAnnual <1 <1 ug/l ug/l no $22/8/2016$ 1,1-dichloroethaneGC-MSAnnual <1 <1 ug/l ug/l no	22/8/2016		Dibromochloromethane	GC-MS	Annual			ug/l			no
22/8/2016TrichloroetheneGC-MSAnnualImage: Constraint of the constrai	22/8/2016		Vinyl Chloride	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016BromomethaneGC-MSAnnual<1<1ug/l<1no22/8/2016TrichloromonfluoromethaneGC-MSAnnual<1	22/8/2016		Chloromethane	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016 Trichloromonfluoromethane GC-MS Annual <1	22/8/2016		Trichloroethene	GC-MS	Annual			ug/l			no
22/8/2016 11 Dichloroethene GC-MS Annual <1 ug/l ug/l no 22/8/2016 Chloromethane GC-MS Annual <1	22/8/2016		Bromomethane	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016 11 Dichloroethene GC-MS Annual <1 ug/l ug/l no 22/8/2016 Chloromethane GC-MS Annual <1	22/8/2016		Trichloromonofluoromethane	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016 Chloromethane GC-MS Annual <1 ug/l mo no 22/8/2016 1,1-dichloroethane GC-MS Annual <1									1		-
22/8/2016 1,1-dichloroethane GC-MS Annual <1 <1 ug/l 0 no											
	22/8/2016		11 Dichloropropene	GC-MS	Annual	<1	<1	ug/l			no
22/6/2016 11 dictionophypene GC-MS Annual <1 <1 ug/l ind ind 22/8/2016 1,2 dicloroethane GC-MS Annual <1								-			-

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22/8/2016	1,2-dichloropropane	GC-MS	Annual	<1	<1	ug/l		no
22/8/2016	1,1,1-trichloroethane	GC-MS	Annual	<1	<1	ug/l		no
22/8/2016	112 Trichloroethane	GC-MS	Annual	<1	<1	ug/l		no
22/8/2016	1,3-dichloropropane	GC-MS	Annual	<1	<1	ug/l		no
22/8/2016	2-Hexanone	GC-MS	Annual			ug/l		no
22/8/2016	1,2-dibromoethane	GC-MS	Annual	<1	<1	ug/l		no
22/8/2016	Chlorobenzene	GC-MS	Annual	<1	<1	ug/l		no
22/8/2016	1,1,1,2-tetrachloroethane	GC-MS	Annual	<1	<1	ug/l		no
22/8/2016	Ethylbenzene	GC-MS	Annual	<1	<1	ug/l		no
22/8/2016	Xylene P&M	GC-MS	Annual	<1	<1	ug/l		no
22/8/2016	Xylene O	GC-MS	Annual	<1	<1	ug/l		no
22/8/2016	Styrene	GC-MS	Annual	<1	<1	ug/l		no
22/8/2016	Isopropylbenzene	GC-MS	Annual	<1	<1	ug/l		no
22/8/2016	1,1,2,2-tetrachloroethane	GC-MS	Annual	<1	<1	ug/l		no
22/8/2016	1,2,3-trichloropropane	GC-MS	Annual	<1	<1	ug/l		no
22/8/2016	Propylbenzene	GC-MS	Annual	<1	<1	ug/l		no
22/8/2016	2-chlorotoluene	GC-MS	Annual	<1	<1	ug/l		no
22/8/2016	4-chlorotoluene	GC-MS	Annual	<1	<1	ug/l		no
22/8/2016	1,3,5-trimethylbenzene	GC-MS	Annual	<1	<1	ug/l		no
22/8/2016	Tert Butyl Benzene	GC-MS	Annual	<1	<1	ug/l		no
22/8/2016	1,2,4-trimethylbenzene	GC-MS	Annual	<1	<1	ug/l		no
22/8/2016	sec-butylbenzene	GC-MS	Annual	<1	<1	ug/l		no
22/8/2016	Pentachlorophenol	GC-MS	Annual	<5	<5	ug/l		no
22/8/2016	Tetrachloroethene	GC-MS	Annual	<1	<1	ug/l		no
22/8/2016	Hexachlorobenzene	GC-MS	Annual	<1	<1	ug/l		no
22/8/2016	Hexachlorobutadiene	GC-MS	Annual	<5	<5	ug/l		no
22/8/2016	2,4,6-Trichlorophenol	GC-MS	Annual	<5	<5	ug/l		no
22/8/2016	2,4-Dichlorophenol	GC-MS	Annual	<5	<5	ug/l		no
22/8/2016	2,4-Dimethylphenol	GC-MS	Annual	<1	<1	ug/l		no
22/8/2016	2-Chlorophenol	GC-MS	Annual	<5	<5	ug/l	10	no
22/8/2016	1,2,4-trichlorobenzene	GC-MS	Annual	<5	<5	ug/l	10	no
22/8/2016	1,2-dichlorobenzene	GC-MS	Annual	<1	<1	ug/l		no
22/8/2016	1,3-dichlorobenzene	GC-MS	Annual	<5	<5	ug/l		no
22/8/2016	1,4-dichlorobenzene	GC-MS	Annual	<5	<5	ug/l		no
22/8/2016	2,4,5-Trichlorophenol	GC-MS	Annual	<5	<5	ug/l		no
22/8/2016	2,4-Dinitrotoluene	GC-MS	Annual	<1	<1	ug/l		no
22/8/2016	2,6-Dinitrotoluene	GC-MS	Annual	<1	<1	ug/l		no
22/8/2016	2-Chloronaphthalene	GC-MS	Annual	<1	<1	ug/l		no
22/8/2016	2-Methylnaphthalene	GC-MS	Annual	<1	<1	ug/l		no
22/8/2016	2-Methylphenol	GC-MS	Annual	<1	<1	ug/l		no
22/8/2016	2-Nitrophenol	GC-MS	Annual	<1	<1	ug/l		no
22/8/2016	4-Bromophenyl Phenyl Ether	GC-MS	Annual	<1	<1	ug/l		no
22/8/2016	4-Chloro-3-methylphenol	GC-MS	Annual	<1	<1	ug/l		no
22/8/2016	4-Chlorophenyl phenyl ether	GC-MS	Annual	<1	<1	ug/l		no
22/8/2016	4-Nitrophenol	GC-MS	Annual			ug/l		no
22/8/2016	Acenaphthene	GC-MS	Annual	0.01	0.01	ug/l	1	no
22/8/2016	Benzo(a)anthracene	GC-MS	Annual	0.01	0.01	ug/l	30	no
22/8/2016	Benzo(a)pyrene	GC-MS	Annual	<0.01	<0.01	ug/l	30	no
22/8/2016	Benzo(b)fluoranthene	GC-MS	Annual	<0.01	<0.01	ug/l	1	no
22/8/2016	Benzo(g,h,i)perylene	GC-MS	Annual	<0.01	<0.01	ug/l		no

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22/8/2016	Benzyl Butyl Phthalate	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Bis(2-chloroethoxy)methane	GC-MS		<1					no
22/8/2016	Bis(2-chloroethyl)ether	GC-MS	Annual	<1	<1	ug/l ug/l			no
22/8/2016	Bis(2-chloroisopropyl)ether	GC-MS	Annual	<1		ug/i ug/i		500	no
22/8/2016	Bis(2-ethylhexyl)phthalate	GC-MS	Annual	<1	<1 <1	ug/l		500	no
22/8/2016	Dibenz(a,h)anthracene	GC-MS	Annual	<0.01		ug/l			no
			Annual	<0.01	<0.01	-			
22/8/2016	Dibenzofuran	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Diethylphthalate	GC-MS	Annual	<1	<1	ug/l			
22/8/2016	di-n-Butylphthalate	GC-MS	Annual		<1	ug/l			no
22/8/2016	Di-n-octylphthalate	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Diphenylamine	GC-MS	Annual	-		ug/l			no
22/8/2016	Hexachloroethane	GC-MS	Annual	<5	<5	ug/l			no
22/8/2016	Indeno(1,2,3-c,d)pyrene	GC-MS	Annual	<0.01	<0.01	ug/l			no
22/8/2016	Isophorone	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Nitrobenzene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	n-Nitrosodi-n-propylamine	GC-MS	Annual			ug/l			no
22/8/2016	Acetone	GC-MS	Annual			ug/l			no
22/8/2016	Dichloromethane	GC-MS	Annual			ug/l			no
22/8/2016	Tetrahydrofuran	GC-MS	Annual			ug/l			no
22/8/2016	Toluene	GC-MS	Annual			ug/l		1	no
22/8/2016	Xylene -o	GC-MS	Annual			ug/l			no
22/8/2016	Dichlorodifluoromethane	GC-MS	Annual			ug/l		10	no
22/8/2016	Ethyl Chloride/Chloroethane	GC-MS	Annual			ug/l			no
22/8/2016	Ethyl Ether/Diethyl Ether	GC-MS	Annual			ug/l			no
22/8/2016	lodomethane/Methyl lodide	GC-MS							no
22/8/2016	Carbon Disulphide	GC-MS	Annual			ug/l			no
22/8/2016	Allyl Chloride	GC-MS	Annual			ug/l ug/l			no
22/8/2010	Chlormethyl	00-1013	Annual			ug/i			110
22/8/2016	Cyanide/Chloroacetonitrile	GC-MS	Annual			ug/l			no
22/8/2016	Propanenitrile	GC-MS	Annual			ug/l			no
22/8/2016	Trans-1,2 Dichloroethene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	MtBE	GC-MS	Annual			ug/l			no
22/8/2016	2,2-dichloropropane	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	cis-12 Dichloroethene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	2-Butanone	GC-MS	Annual			ug/l			no
22/8/2016	Methyl Acrylate	GC-MS	Annual			ug/l			no
22/8/2016	Bromochloromethane	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Methacrylonitrile	GC-MS	Annual			ug/l			no
22/8/2016	1-Chlorobutane	GC-MS	Annual			ug/l			no
22/8/2016	Carbon Tetrachloride	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Dibromomethane	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016	Methyl Methacrylate	GC-MS	Annual			ug/l			no
22/8/2016	13 Dichloropropene, cis	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016		GC-MS	Angual			110/1			20
22/8/2016	MIBK/4 Methyl 2 Pentanone 13 Dichloropropene,trans	GC-MS GC-MS	Annual Annual	<1	<1	ug/l ug/l			no
22/8/2016	Ethyl Methacrylate	GC-MS	Annual		~1	ug/l			no
22/8/2016	Bromobenzene	GC-MS	Annual	<1	<1	ug/l			no
	<u>5.011000012010</u>	00 1015	Annual	.1	~1	56/1			10
22/8/2016	Trans 14 Dichloro 2 Butene, tran	GC-MS	Annual			ug/l			no

oil monitoring template					Lic No:	W0002-01		Year	2016	
22/8/2016		P Isopropyltoluene	GC-MS	Annual	<1	<1	ug/l			no
22/8/2016		N Butyl Benzene	GC-MS	Annual			ug/l			no
22/8/2016		1,2-dibromo-3-chloropropane	GC-MS	Annual			ug/l			no
22/8/2016		1,2,3-trichlorobenzene	GC-MS	Annual			ug/l			no
22/8/2016		Mecoprop	GC-MS	Annual	<0.1	<0.1	ug/l			no
22/8/2016		Bentazone	GC-MS	Annual			ug/l			no
22/8/2016		Simazine	GC-MS	Annual	<0.01	<0.01	ug/l			no
Quarterly	99 1S	рН	Meter	Quarterly	7	6.9	SELECT		9.5	no
Quarterly		Temp	Meter	Quarterly	15.2	11.4			25	no
Quarterly		Elec.Conductivity	Meter	Quarterly	356	337		800-1875	1000	no
Quarterly		Chlorides	titration	Quarterly	14.1	13.5	mg/I	24-187.5	250	no
Quarterly		Ammoniacal Nitorgen	ISE	Quarterly	0.05	0.02	mg/I	0.065-0.175		no
19/82015		Iron	ICP	Annual	0.03	0.03	ug/l		0.2	no
22/8/2016		TON	HACH	Annual	0.3	0.3	ug/l	-	No abnormal change	no
Quarterly		TOC	TOC analyser	Quarterly	0.4	0.19	mg/I			no
22/8/2016		Cadmium	ICP	Annual	<1	<1	ug/l	-	0.005	no
22/8/2016		Chromium (total)	ICP	Annual	<1	<1	ug/l	37.5	0.03	no
22/8/2016		Copper	COLORIMETRY	Annual	<1	<1	ug/l	1500	0.03	no
22/8/2016		Cyanide (Total)	ICP	Annual	<0.01	<0.01	ug/l	-	0.01	no
22/8/2016		Lead	ICP	Annual	<1	<1	ug/l	18.75	0.01	no
22/8/2016		Mangnesium	ICP	Annual	9.65	9.65	mg/I	-	50	no
22/8/2016		Manganese	ICP	Annual	840	840	ug/l	-	0.05	no
22/8/2016		Mercury	ICP	Annual	<0.5	<0.5	ug/l	0.75	0.001	no
22/8/2016		Nickle	ICP	Annual	<1	<1	ug/l	15	0.02	no
22/8/2016		Potassium	ICP	Annual	<1.0	<1.0	mg/I	-	5	no
22/8/2016		Sulphate	Aquakem auto analyser	Annual	1.83	1.83	mg/l	187.5	200	no
22/8/2016		Total Alkalinity	icp	Annual	166	166	mg/l	-		no
22/8/2016		Total Phosphorus	spectrophotometry apha	Annual	0.07	0.07	mg/l	0.09		no

oil monitoring template					Lic No:	W0002-01		Year	2016	
Quarterly	99 1D	рН	Meter	Quarterly	7.1	7	SELECT		9.5	no
Quarterly		Temp	Meter	Quarterly	13.6	12.0			25	no
Quarterly		Elec.Conductivity	Meter	Quarterly	447	437		800-1875	1000	no
Quarterly		Chlorides	titration	Quarterly	15.7	14.8	mg/l	24-187.5	250	no
Quarterly		Ammoniacal Nitorgen	ISE	Quarterly	1.29	0.45	mg/l	0.065-0.175		no
22/8/2016		Iron	ICP	Annual	0.09	0.09	ug/l		0.2	no
22/8/2016		TON	HACH	Annual	0.36	0.36	ug/l	-	No abnormal change	no
Quarterly		TOC	TOC analyser	Quarterly	1.7	1.2	mg/l			no
22/8/2016		Cadmium	ICP	Annual	<1	<1	ug/l	-	0.005	no
22/8/2016		Chromium (total)	ICP	Annual	<1	<1	ug/l	37.5	0.03	no
22/8/2016		Copper	COLORIMETRY	Annual	<1	<1	ug/l	1500	0.03	no
22/8/2016		Cyanide (Total)	ICP	Annual	<0.01	<0.01	ug/l	-	0.01	no
22/8/2016		Lead	ICP	Annual	1.1	1.1	ug/l	18.75	0.01	no
22/8/2016		Mangnesium	ICP	Annual	10.1	10.1	mg/l	-	50	no
22/8/2016		Manganese	ICP	Annual	4630	4630	ug/l	-	0.05	no
22/8/2016		Mercury	ICP	Annual	<0.5	<0.5	ug/l	0.75	0.001	no
22/8/2016		Nickle	ICP	Annual	<1	<1	ug/l	15	0.02	no
22/8/2016		Potassium	ICP	Annual	<1.0	<1.0	mg/l	-	5	no
22/8/2016		Sulphate	Aquakem auto analyser	Annual	1.59	1.59	mg/l	187.5	200	no
22/8/2016		Total Alkalinity	icp	Annual	225	225	mg/l	-		no
22/8/2016		Total Phosphorus	spectrophotometry apha	Annual	0.11	0.11	mg/l	0.09		no

ioil monit	toring temp	late			Lic No:	W0002-01		Year	2016		
* please n	ote exceedance o		Interim Guideline Values (IGV)								
	**Depending on location of the site and proximity to other sensitive receptors alternative Receptor based Water Quality standards should be used in addition to the GTV e.g. if the site is close to surface water compare to Surface Water Environmental Quality Standards (SWEQS), If the site is close to a drinking water supply compare results to the Drinking Water Standards (DWS)										
: 3: Soil re	3: Soil results										
Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration	Average Concentration	unit				
							SELECT				
							SELECT				
								-			

	Environmental Liabilities template	Lic No:	W0002-01	Year	2016
_	Click here to access EPA guidance on Environmental Liabilities	and Financial			

provision

			Commentary
1	ELRA initial agreement status		
		SELECT	
2	ELRA review status	SELECT	
3	Amount of Financial Provision cover required as determined by the latest ELRA	Specify	
4	Financial Provision for ELRA status	SELECT	
5	Financial Provision for ELRA - amount of cover	Specify	
6	Financial Provision for ELRA - type	SELECT	
-	Figure del constituire for FURA en etc. delle	Estado da lata	
7	Financial provision for ELRA expiry date	Enter expiry date	
8	Closure plan initial agreement status	SELECT	
9	Closure plan review status	SELECT	
10	Financial Provision for Closure status	SELECT	
11	Financial Provision for Closure - amount of cover	Specify	
12	Financial Provision for Closure - type	SELECT	
13	Financial provision for Closure expiry date	Enter expiry date	

	W0002-01	Year	2016			
	Highlighted cells contain dropdown menu click to view		Additional Information		_	
1	Do you maintain an Environmental Mangement System (EMS) for the site. If yes, please detail in					
	additional information	No		n/a		

2 Does the EMS reference the most significant environmental aspects and associated impacts on-site

1

Does the EMS maintain an Environmental Management Programme (EMP) as required in accordance 3 with the licence requirements

Do you maintain an environmental documentation/communication system to inform the public on 4 environmental performance of the facility, as required by the licence

No	n/a
SELECT	
SELECT	
SELECT	

Environmental Management Programme (EMP) report										
Target	Status (% completed)	How target was progressed	Responsibility	Intermediate outcomes						
	SELECT		SELECT	SELECT						
	SELECT		SELECT	SELECT						
	SELECT		SELECT	SELECT						
		Target Status (% completed) SELECT SELECT SELECT SELECT SELECT	SELECT SELECT	SELECT SELECT SELECT SELECT						

	N	oise monitor	ing summary	/ report			Lic No:	W0002-01	Year	2016	
1 Was noise monitoring a licence requirement for the AER period? If yes please fill in table N1 noise summary below								No]		
 2 Was noise monitoring carried out using the EPA Guidance note including completion of "Checklist for noise measurement report" included in the guidance note as table 6? 2 Prove price of the provide report of the prove of the provide report of th							<u>Noise</u> Guidance note NG4	SELECT	-		
 3 Does your site have a noise reduction plan 4 When was the noise reduction plan last updated? 5 Have there been changes relevant to site noise emissions (e.g. plant or operational changes) 						nges) since t	he last noise				
survey? Table N1: Noise monitoring summary											
Date of monitoring	Time period	Noise location (on site)	Noise sensitive location -NSL (if applicable)	LA _{eq}	LA ₉₀	LA ₁₀	LA _{max}	Tonal or Impulsive noise* (Y/N)	If tonal /impulsive noise was identified was 5dB penalty applied?	Comments (ex. main noise sources on site, & extraneous noise ex. road traffic)	Is <u>site_</u> compliant with noise limits (day/evening/night)?

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

SELECT

SELECT

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

SELECT

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

Any additional comments? (less than 200 words)

SELECT

Resource Usage/Energy efficiency summary	Lic No:	W0002-01	Year	2016

Additional information

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

Is the site a member of any accredited programmes for reducing energy usage/water conservation such Industry Energy as the SEAI programme linked to the right? If yes please list them in additional information 2

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

		Additional information
n table 3 below		
SEAI - Large		
Industry Energy		
Network (LIEN)	no	
ate percentage in		
	no	

Table R1 Energy usag	e on site			
Energy Use	Previous year	Current year	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*
Total Energy Used (MWHrs)		17607Kwh		
Total Energy Generated (MWHrs)				
Total Renewable Energy Generated (N	/WHrs)			
Electricity Consumption (MWHrs)				
Fossil Fuels Consumption:				
Heavy Fuel Oil (m3)				
Light Fuel Oil (m3)				
Natural gas (CMN)				
Coal/Solid fuel (metric tonnes)				
Peat (metric tonnes)				
Renewable Biomass				
Renewable energy generated on site				

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

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

Table R2 Water usage				Water Emissions	Water Consumption		
						Volume used i.e not	
			Production +/- %	Energy		discharged to	
			compared to	Consumption +/- %	Volume Discharged	environment e.g.	
	Water extracted	Water extracted	previous reporting	vs overall site	back to	released as steam	
Water use	Previous year m3/yr.	Current year m3/yr.	year**	production*	environment(m ³ yr):	m3/yr	Unaccounted for Water:
Groundwater							
Surface water							
Public supply							
Recycled water							
Total							

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

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

Table R3 Waste Stream					
	Total	Landfill	Incineration	Recycled	Other
Hazardous (Tonnes)					
Non-Hazardous (Tonnes)					

source	e Usage/Energy efficiency sum	nmary			Lic No:	W0002-01		Year	2016
	Table R4: Energy Au	idit finding recommendat	tions						
	Date of audit		Description of Measures proposed	Origin of measures	Predicted energy savings %	Implementation date	Responsibility	Completion date	Status and comments
				SELECT					
				SELECT					
				SELECT					

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

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

Complaints and Incidents summary template		Lic No:	W0002-01	Year	2016
Complaints					
Have you received any environmental complaints in the current reporting year? If yes please complete summary	,	Additional inform	ation		
details of complaints received on site in table 1 below	no		J		

Table	1 Complaints summary						
Date	Category	Other type (please specify)	Brief description of complaint (Free txt <20 words)	Corrective action< 20 words	Resolution status	Posolution data	Further information
Date	SELECT	Other type (please specify)	worusj	words	SELECT	Resolution date	intormation
	SELECT				SELECT		
	SELECT				SELECT		
	SELECT				SELECT		
	SELECT				SELECT		
Total complaints open at start of reporting year Total new complaints received during reporting year					0		
Total complaints closed during reporting year					0		
Balance of complaints end of reporting year					0		

	Incidents									
			Additional information							
Have any incidents occurred on site in the current repor	ting year? Please list all incide	ents for current reporting								
year in Tab	year in Table 2 below									
]								
*For information on how to report and what										
constitutes an incident	What is an incident									

Table 2 Incidents su	mmary													
						Other	Activity in				Preventative			
			Incident category*please			cause(please	progress at			Corrective action<20	action <20		Resolution	Liklihood of
Date of occurrence	Incident nature	Location of occurrence	refer to guidance	Receptor	Cause of incident	specify)	time of incident	Communication	Occurrence	words	words	Resolution status	date	reoccurence
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
Total number of														
incidents current														
year														
Total number of														
incidents previous														
year														
% reduction/														

% reduction/ increase

WASTE SUMMARY	Lic No:	W0002-01	Year	2016
 SECTION A-PRTR ON SITE WASTE TREATMENT AND WASTE TRANSFERS TAB- TO BE COMPLETED BY	Y ALL IPPC AND WASTE FACILITIES	PRTR facility logon	dropdowr	n list click to see options

SECTION B- WASTE ACCEPTED ONTO SITE-TO BE COMPLETED BY ALL IPPC AND WASTE FACILITIES		
		Additional Information
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 1 boundaries is to be captured through PRTR reporting)	no	
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	no	
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 Table 1 Details of waste accepted onto your site for recovery, disposal or treatment (do not include wastes generated at you	no	

een reported in your PRTR workbook)

Licenced annual	EWC code	Source of waste accepted	Description of waste	Quantity of waste	Overstitut of waste accepted in	Reduction/Incr	Reason for	Packaging Content (%)-	Disposal/Recovery or	Quantity of	Comments -
		Source of waste accepted			Quantity of waste accepted in						comments -
tonnage limit for your			accepted	accepted in current	previous reporting year (tonnes)	ease over	reduction/increase	only applies if the	treatment operation carried out	waste	
site (total			Please enter an	reporting year (tonnes)		previous year	from previous	waste has a packaging	at your site and the description	remaining on	
tonnes/annum)			accurate and detailed			+/ - %	reporting year	component	of this operation	site at the end	
			description - which							of reporting	
	European Waste Catalogue EWC		European Waste							year (tonnes)	
	codes		Catalogue EWC codes								
none											

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?

SECTION D-TO BE COMPLETED BY LANDFILL SITES ONLY

Table 2 Waste type	e 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

Table 3 General information-Landfill only

Area ID	Date landfilling commenced	Date landfilling ceased	Currently landfilling	Private or Public Operated	Inert or non-hazardous	azardous Predicted date I to cease landfilling	Licence permits asbestos	Is there a separate cell for asbestos?	area occupied by	Lined disposal area occupied by waste	Unlined area	Comments on liner type
									SELECT UNIT	SELECT UNIT	SELECT UNIT	
Cell 8												

SELECT	
SELECT	
SELECT	

SELECT	
SELECT	
SELECT	

WA	STE	SUN	MMA	RY

Table 4 Environmental monitoring-landfill onl Landfill Manual-Monitoring Standards Was meterological monitoring in compliance with Landfill Directive (LD) Was leachate monitored in Has the statement under S53(A)(5) of WMA been Was Was SW monitored in topography of the site Was Landfill Gas monitored in compliance with LD standard in standard in reporting compliance with LD standard in reporting year standard in reporting Have GW trigger levels Were emission limit values agreed with been established the Agency (ELVs) submitted in surveyed in vear + reporting year the Agency (ELVs) eporting year reporting year ear

Lic No:

W0002-01

SELECT

Year

2016

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

Table 5 Capping-Landfill only

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

*please note this includes daily cover area

Table 6 Leachate-Landfill only

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

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

						Specify type of	
Volume of leachate in	Leachate (BOD) mass load	Leachate (COD) mass load	Leachate (NH4) mass	Leachate (Chloride)		leachate	
reporting year(m3)	(kg/annum)	(kg/annum)	load (kg/annum)	mass load kg/annum	Leachate treatment on-site	treatment	Comments
							1

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

Table 7 Landfill Gas-Landfill only

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