Facility Information Summary	
AER Reporting Year	2012
Licence Register Number	W0022-01
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 listing all exceedances of licence limits (where applicable) and what they relate to e.g. air, water, noise.

2012			
W0022-01			
	East Cork	k Landfill	
	Rossmore, Carrigi	twohill, Co. Cork	
	383	21	
	5(c), 5(d	d), 50.1	
	8.25588E	51.8851N	

East Cork Landfill has been closed since February 2007. Final Capping took place in 2008 and was completed in 2009. The environmental performance of the facility has continued to improve in comparison with previous years. No complaints were registered in 2012. The gas extraction system has continued to perform with the enclosed flare burning off the gas generated. Minor exceedences have again been measured in the perimeter gas wells but are explained by the estuarine conditions and limestone bedrock that account for naturally occuring CO2 and CH4. Both Leachate and groundwater results are similar to previous years. The noise survey was compliant for the year as would be expected with no large landfill compacting plant from the site. Overall the site has been compliant with its Licence.

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.

15/04/2013

Signature

Date

Aix-summary template	LIC NO:	VVUU22-U1	Tear	2012
Answer all questions and complete all tables where relevant	•		_	
		Add	ditional information	
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 no complete a solvent management plan (table A4 and A5) you do not need to complete the tables	t Yes			
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	No			
	NO			
Was all monitoring carried out in accordance with EPA Basic air Basic air				
guidance note AG2 and using the basic air monitoring monitoring				
checklist? checklist AGN2	Yes			

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

	licence limit	Method of analysis	Annual mass load (kg)	in % mass load from previous year if applicable
				Annual mass load refers to difference between measured burn-off and estimate Gas
m3	yes	MAB	649462	Model value.
				Annual mass load refers to difference between measured burn-off and estimate Gas
m3	yes	ISO 12039:2001	1976082	Model value.
mg/Nm3	yes	ISO 12039:2001		
mg/Nm2	wor	EN 14702-2005		
HIIR/INIIIS	yes	EN 14/32:2005		
	m3 mg/Nm3 mg/Nm3 mg/Nm3	m3 yes mg/Nm3 yes mg/Nm3 yes mg/Nm3 yes	m3 yes MAB m3 yes ISO 12039:2001 mg/Nm3 yes ISO 12039:2001 mg/Nm3 yes EN 14792:2005 mg/Nm3 yes EN 14792:2005	m3 yes MAB 649462 m3 yes ISO 12039:2001 1976082 mg/Nm3 yes ISO 12039:2001 mg/Nm3 yes EN 14792:2005 mg/Nm3 yes EN 14792:2005

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

AIR-summary template	Lic No:	W0022-01	Year	2012
Continuous Monitoring				
4 Does your site carry out continuous air emissions monitoring?	Yes			
If yes please review your continuous monitoring data and report the required fields below in Table 3 and compare it to its relevant Emission Limit Value (ELV)				
5 Did continuous monitoring equipment experience downtime? If yes please record downtime in table 3 below	Yes			
Do you have a proactive service agreement for each piece of continuous monitoring equipment? Did your site experience any abatement system bypasses? If yes please detail them in table 4 below Table A2: Summary of average emissions -continuous monitoring	Yes No			

Emission Parameter/ Substance Averaging Compliance C

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								
		N/A	12 month					292		Have recorded the combined
										annual downtime of both
										Flares at Youghal Landfill in
										this section. The emissions
										totals have been submitted in
										the above table.
Flare Stack	PRTR			100 % of values < ELV	m3					
	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-sur	mmary t	emplate				Lic No:	W0022-01		Year	2012				
S	Solvent use and management on site													
Do you ha	ave a total	Emission Limit Value of d	irect and fugitive e	emissions on site	? if yes please fill out tables A4 ar	nd A5		SELECT						
		nt Management Pla sion limit value	n Summary	Solvent regulations	Please refer to linked solver complete table 5									
Reporti	ing 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								
Tab	le A5: S	olvent Mass Balance	summary							•				
		(I) Inputs (kg)			(O) Outputs (kg)								
Solv	vent	(I) Inputs (kg)		Solvents lost in water (kg)	Collected waste solvent (kg)	Fugitive Organic Solvent (kg)	Solvent released in other ways e.g. by-		Total emission of Solvent to air (kg)					
								Total						

2012

	AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)		Lic No:	W0022-01
				Additional information
1	Does your site have licensed emissions direct to surface water or direct to sewer? If yes please complete table W2 and W3 below for the current reporting year and answer further questions. If you do not have licenced emissions you only need to complete table W1 and or W2 for surface water analysis and visual inspections	SELECT		
2	Was it a requirement of your licence to carry out visual inspections on any surface water discharges or watercourses on or near your site? If yes please complete table W2 below summarising only any evidence of contamination noted during visual inspections	SELECT		

Table W1 Surface water monitoring

Table v	Table W1 Surface water monitoring													
Location reference	Location relative to site activities	PRTR Parameter	Licenced Parameter	Monitoring date	ELV or trigger level in licence or any revision thereof*	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence	Comments				
sw1	upstream		pH	Quarterly	No ELV or trigger levels	N/A	7.5	pH units	yes	Median vaule for 2012				
sw1	upstream		Temperature	Quarterly	No ELV or trigger levels	N/A	14.1	degrees C	yes	Median vaule for 2012				
sw1	upstream		Conductivity	Quarterly	No ELV or trigger levels	N/A	43200	μS/cm @20oC	yes	Median vaule for 2012				
sw1	upstream		Dissolved Oxygen	Quarterly	No ELV or trigger levels	N/A	8.2	mg/L	yes	Median vaule for 2012				
sw1	upstream	Chlorides (as Cl)		Quarterly	No ELV or trigger levels	N/A	12271	mg/L	yes	Median vaule for 2012				
sw1	upstream		BOD	Quarterly	No ELV or trigger levels	N/A	3.3	mg/L	yes	Median vaule for 2012				
sw1	upstream		COD	Quarterly	No ELV or trigger levels	N/A	2122.5	mg/L	yes	Median vaule for 2012.interference due to saline water				
sw1	upstream		Ammonia (as N)	Quarterly	No ELV or trigger levels	N/A	0.501	mg/L	yes	Median vaule for 2012				
sw1	upstream		Suspended Solids	Quarterly	No ELV or trigger levels	N/A	214	mg/L	yes	Median vaule for 2012				
3 sw1	upstream	Chromium and compounds (as Cr)		Annual	No ELV or trigger levels	N/A	7.2	μg/L	yes	Annual value for 2012				
sw1	upstream	Copper and compounds (as Cu)		Annual	No ELV or trigger levels	N/A	0.121	μg/L	yes	Annual value for 2012				
sw1	upstream	Cadmium and compounds (as Cd)		Annual	No ELV or trigger levels	N/A	0.2	μg/L	yes	Annual value for 2012				
	upstream		CALCIUM			N/A	361	mg/L	yes	Annual value for 2012				
sw1	upstream		Iron	Annual	No ELV or trigger levels	N/A	128.3	μg/L	yes	Annual value for 2012				
sw1	upstream	Lead and compounds (as Pb)		Annual	No ELV or trigger levels	N/A	0.4	mg/L	yes	Annual value for 2012				
sw1	upstream		Magnesium	Annual	No ELV or trigger levels	N/A	846.5	mg/L	yes	Annual value for 2012. Elevation due to				
sw1	upstream		Manganese (as Mn)	Annual	No ELV or trigger levels	N/A	22	μg/L	yes	Annual value for 2012				
sw1	upstream	Mercury and compounds (as Hg)	mungunese (as min)	Annual	No ELV or trigger levels	N/A	0.07	μg/L	yes	Annual value for 2012				
sw1	upstream		Potassium	Annual	No ELV or trigger levels	N/A	308.5	mg/L	yes	Annual value for 2012				
sw1	upstream		Sulphate	Annual	No ELV or trigger levels	N/A	3546.9	mg/L	yes	Annual value for 2012.Sample site at estuary				
sw1	upstream		Total Oxidised Nitrogen (TON)	Annual	No ELV or trigger levels	N/A	<0.138	mg/L	yes	Annual value for 2012				

LIK IVIOIII	toring returns su	ımmary template-W	ATER/WASTEWA	ATER(SEWER)	1	Lic No:	W0022-01	1	Year	
sw1	upstream	Zinc and compounds (as Zn)		Annual	No ELV or trigger levels	N/A	8	μg/L	yes	Annual value 1
sw1	upstream	Total phosphorus		Annual	No ELV or trigger levels	N/A	0.05	mg/L	yes	Annual value
sw2	upstream		рН	Quarterly	No ELV or trigger levels	N/A	7.7	pH units	yes	Median vaule
sw2	upstream		Temperature	Quarterly	No ELV or trigger levels	N/A	13.8	degrees C	yes	Median vaule
sw2	upstream		Conductivity Dissolved Oxygen	Quarterly	No ELV or trigger levels	N/A	3985 8.64	μS/cm @20oC	yes	Median vaule
sw2 sw2	upstream		Dissolved Oxygen	Quarterly Quarterly	No ELV or trigger levels No ELV or trigger levels	N/A	8.64 8934	mg/L	yes	Median vaule
sw2	upstream	Chlorides (as CI)		Quarterly	No ELV or trigger levels	N/A	35	mg/L	yes	Median vaule
sw2	upstream		BOD	Quarterly	No ELV or trigger levels	N/A	2865	mg/L	yes	Median vaule
sw2	upstream		COD	Quarterly	No ELV or trigger levels	N/A	0.301	mg/L	yes	Median vaule
sw2	upstream		Ammonia (as N)	Quarterly	No ELV or trigger levels	N/A	216	mg/L	yes	Median vaule
	upstream		Suspended Solids Total Alkalinity	Annual	No ELV or trigger levels	N/A	170.2	mg/L	yes	Annual value
sw2	upstream		I otal Alkalinity	Annual	No ELV or trigger levels	N/A	46	mg/L	yes	Annual value
sw2	upstream	Chromium and compounds (as Cr)		Annual	No ELV or trigger levels	N/A	0.068	μg/L	yes	Annual value
sw2	upstream	Copper and compounds (as Cu)		Annual	No ELV or trigger levels	N/A	0.1	μg/L	yes	Annual value
sw2	upstream	Cadmium and compounds (as Cd)		Aillidai	NO ELV OI LINGGEI IEVEIS	N/A	238.9	μg/L	yes	Annual value
	upstream		CALCIUM			N/A		mg/L	yes	
sw2	upstream		Iron	Annual	No ELV or trigger levels	N/A	153.6	μg/L	yes	Annual value
sw2	upstream	Lead and compounds (as Pb)		Annual	No ELV or trigger levels	N/A	0.9	μg/L	yes	Annual value
sw2	upstream		Magnesium	Annual	No ELV or trigger levels	N/A	550.8	mg/L	yes	Annual val 2012.Elevatio geology of t
sw2	upstream		Manganese (as Mn)	Annual	No ELV or trigger levels	N/A	5.9	μg/L	yes	Annual value
sw2	upstream	Mercury and compounds (as Hg)		Annual	No ELV or trigger levels	N/A	0.05	mg/L	yes	Annual value
sw2	upstream		Potassium	Annual	No ELV or trigger levels	N/A	177.4	mg/L	yes	Annual value
sw2	upstream		Sulphate	Annual	No ELV or trigger levels	N/A	1606.5	mg/L	yes	Annual value
sw2	upstream		Total Oxidised Nitrogen (TON)	Annual	No ELV or trigger levels	N/A	<0.138	mg/L	yes	Annual value
sw2	upstream	Zinc and compounds (as Zn)		Annual	No ELV or trigger levels	N/A	10.3	μg/L	yes	Annual value
sw2	upstream	Total phosphorus		Annual	No ELV or trigger levels	N/A	0.04	mg/L	yes	Annual value
sw3	downstream		рН	Quarterly	No ELV or trigger levels	N/A	7.6	pH units	yes	Median vaule
sw3	downstream		Temperature	Quarterly	No ELV or trigger levels	N/A	13.8	degrees C	yes	Median vaule
sw3	downstream		Conductivity	Quarterly	No ELV or trigger levels	N/A	4575	μS/cm @20oC	yes	Median vaule
sw3	downstream		Dissolved Oxygen	Quarterly	No ELV or trigger levels	N/A	8.8	mg/L	yes	Median vaule
sw3			bissoived oxygen	Quarterly	No ELV or trigger levels		9197			Median vaule
sw3	downstream	Chlorides (as CI)		Quarterly	No ELV or trigger levels	N/A	9.5	mg/L	yes	Median vaule
sw3	downstream		BOD	Quarterly	No ELV or trigger levels	N/A	2535	mg/L	yes	Median vaule
sw3	downstream		COD	Quarterly	No ELV or trigger levels	N/A	0.305	mg/L	yes	Median vaule
	downstream		Ammonia (as N)			N/A	269	mg/L	yes	Median vaule
sw3	downstream		Suspended Solids	Quarterly	No ELV or trigger levels	N/A		mg/L	yes	
SW3	downstream		Total Alkalinity	Annual	No ELV or trigger levels	N/A	138.3	mg/L	yes	Annual value
sw3	downstream	Chromium and compounds (as Cr)		Annual	No ELV or trigger levels	N/A	7.4	μg/L	yes	Annual value
sw3	downstream	Copper and compounds (as Cu)		Annual	No ELV or trigger levels	N/A	0.125	μg/L	yes	Annual value
sw3	downstream	Cadmium and compounds (as Cd)		Annual	No ELV or trigger levels	N/A	0.1	μg/L	yes	Annual value
sw3	downstream		CALCIUM	Annual	No ELV or trigger levels	N/A	269.8	mg/L	yes	Annual value
sw3	downstream		Iron	Annual	No ELV or trigger levels	N/A	177.2	μg/L	yes	Annual value
sw3	downstream	Lead and compounds (as Pb)		Annual	No ELV or trigger levels	N/A	0.6	μg/L	yes	Annual value
sw3	downstream		Magnesium	Annual	No ELV or trigger levels	N/A	778.2	mg/L	yes	Annual va 2012.Elevation geology of
sw3	downstream		Manganese (as Mn)	Annual	No ELV or trigger levels	N/A	25.2	μg/L	yes	Annual value
sw3	downstream	Mercury and compounds (as Hg)		Annual	No ELV or trigger levels	N/A	0.08	mg/L	yes	Annual value
sw3	downstream		Potassium	Annual	No ELV or trigger levels	N/A	318.1	mg/L	yes	Annual value
sw3	downstream		Sulphate	Annual	No ELV or trigger levels	N/A	3508.2	mg/L	yes	Annual val 2012.Site lo
sw3	uowiisuedffi		Total Oxidised Nitrogen	Annual	No ELV or trigger levels	NA	<0.138	ing/L	yes	Annual value

AER Monitori	ng returns su	mmary template-W	ATER/WASTEW	ATER(SEWER)		Lic No:	W0022-01		Year	2012	
sw3	downstream	Zinc and compounds (as Zn)		Annual	No ELV or trigger levels	N/A	9.3	μg/L	yes	Annual value for 2012	
sw3	downstream	Total phosphorus		Annual	No ELV or trigger levels	N/A	0.06	mg/L	yes	Annual value for 2012	

	esting template				Lic No:	W0022-01		Year	2012					1
														_
Bund testing			ı click to see options				Additional information	_						
			ontainment structures ? if yes pl											
containment structure the table below	es on site, in addition to a	III bunds which failed the integr	ity test-all bunding structures w	hich failed including mobile	bunds must be listed in	Yes								
	ity testing frequency perio	rd.				3 years		+						
			cormwater and foul), Tanks, sum	ns and containers? (contain	ors refers to "Chamstore"	J (cui)		+						
type units and mobile		erground pipelines (including si	connwater and roury, ranks, sum	ps and containers: (contain	lers refers to Chemistore	No								
How many bunds are						140	3	+						
		tin the required test schedule?					3	+						
How many mobile bur		an the required test senedule.					0	-						
	included in the bund test	schedule?				No		1						
		sted witin the required test sch	edule?				0							
	site are included in the int						0							
	umps are integrity tested v						0							
Please list any sump i	integrity failures in table E	31					-							
Do all sumps and char	mbers have high level liqui	id alarms?				N/A								
If yes to Q11 are thes	e failsafe systems included	d in a maintenance and testing	programme?			N/A								
				-										
Та	able B1: Summary details of	of bund /containment structure	integrity test											
														i i
														Results of
									Integrity reports					retest(if in
Bund/Containment									maintained on		Integrity test failure		Scheduled date	
structure ID	Type	Specify Other type	Product containment	Actual capacity	Capacity required*	Type of integrity test	Other test type	Test date			explanation <50 words	Corrective action taken		reporting ye
Leachate Lagoon	reinforced concrete		leachate	1400		Structural assessment		Nov-08		Pass		SELECT	2013	
	reinforced concrete		surfacewater	10000		Structural assessment		Nov-08		Pass			2013	
	reinforced concrete		surfacewater	2500	200	Structural assessment		Nov-08	Yes	Pass		SELECT	2013	
'Capacity required should co	emply with 25% or 110% containmen	nt rule as detailed in your licence	and are all structures tested in				Commentary	_						
line with BS8007/EPA		ance with incence requirements	and are an structures tested in	bunding and storage guideli	noe	Yes								
	r systems to remote contai	inment systems tested?		bulluling and storage guiden	1103	SELECT	N/A	+						
		th integrity and available volum	e?			SELECT	N/A	-						
rac charmers, transfer	- systems compilate in bot	ar integrity and available volum				JEECO	14/1							
Pipeline/undergr	round structure testing													
			d structures e.g. pipelines or sun	nps etc ? if yes please fill ou	t table 2 below listing all			7						
Are you required by y	our licence to undertake i		d structures e.g. pipelines or sun	nps etc ? if yes please fill ou	t table 2 below listing all	SELECT	N/A							
Are you required by you underground structure	our licence to undertake i	ntegrity testing on underground hich failed the integrity test	d structures e.g. pipelines or sun	nps etc ? if yes please fill ou	t table 2 below listing all	SELECT SELECT	N/A N/A							
Are you required by you underground structure	our licence to undertake in res and pipelines on site w	ntegrity testing on underground hich failed the integrity test	d structures e.g. pipelines or sun	nps etc ? if yes please fill ou	t table 2 below listing all									
Are you required by younderground structure Please provide integri	our licence to undertake in res and pipelines on site w ity testing frequency perio	ntegrity testing on underground hich failed the integrity test d		nps etc ? if yes please fill ou	t table 2 below listing all									
Are you required by younderground structure Please provide integri	our licence to undertake in res and pipelines on site w ity testing frequency perio	ntegrity testing on underground hich failed the integrity test		nps etc ? if yes please fill ou	t table 2 below listing all							1		
Are you required by younderground structure Please provide integri	our licence to undertake in res and pipelines on site w ity testing frequency perio	ntegrity testing on underground hich failed the integrity test d		nps etc ? if yes please fill ou	t table 2 below listing all									
Are you required by younderground structure Please provide integri	our licence to undertake in res and pipelines on site w ity testing frequency perio	ntegrity testing on underground hich failed the integrity test d			t table 2 below listing all									
Are you required by younderground structure Please provide integri	our licence to undertake in res and pipelines on site w ity testing frequency perio	ntegrity testing on underground hich failed the integrity test d		Type of secondary	t table 2 below listing all									
Are you required by younderground structure Please provide integri	our licence to undertake in res and pipelines on site w ity testing frequency perio	ntegrity testing on underground hich failed the integrity test d	is integrity test		t table 2 below listing all			Integrity test						
Are you required by younderground structure Please provide integri	our licence to undertake in res and pipelines on site w ity testing frequency perio	ntegrity testing on underground hich failed the integrity test d	es integrity test Does this structure have	Type of secondary	t table 2 below listing all			failure explanation	n Corrective action	Scheduled date	Results of retest(if in current			
Are you required by younderground structure Please provide integri	our licence to undertake it es and pipelines on site we try testing frequency perious le B2: Summary details of Type system	ntegrity testing on underground hich failed the integrity test of depending on the structure of the structur	be integrity test Does this structure have Secondary containment?	Type of secondary containment	Type integrity testing	SELECT Integrity reports maintained on site?	N/A Results of test		n Corrective action	Scheduled date for retest	reporting year)			
Are you required by younderground structure Please provide integri	rour licence to undertake it es and pipelines on site we sand pipelines on site we try testing frequency perious le B2: Summary details of	ntegrify testing on underground hich failed the integrify test of d	es integrity test Does this structure have	Type of secondary		SELECT Integrity reports	N/A	failure explanation						
Are you required by younderground structure Please provide integri	our licence to undertake it es and pipelines on site we try testing frequency perious le B2: Summary details of Type system	ntegrity testing on underground hich failed the integrity test of depending on the structure of the structur	be integrity test Does this structure have Secondary containment?	Type of secondary containment	Type integrity testing	SELECT Integrity reports maintained on site?	N/A Results of test	failure explanation			reporting year)			
Are you required by yeunderground structur Please provide integri Tabl	our licence to undertake it es and pipelines on site we try testing frequency perious le B2: Summary details of Type system	ntegrity testing on underground hich failed the integrity test of depending on the structure of the structur	be integrity test Does this structure have Secondary containment?	Type of secondary containment	Type integrity testing	SELECT Integrity reports maintained on site?	N/A Results of test	failure explanation			reporting year)			
Are you required by yeunderground structur Please provide integri Tabl	our licence to undertake it es and pipelines on site we try testing frequency perious le B2: Summary details of Type system	ntegrity testing on underground hich failed the integrity test of depending on the structure of the structur	be integrity test Does this structure have Secondary containment?	Type of secondary containment	Type integrity testing	SELECT Integrity reports maintained on site?	N/A Results of test	failure explanation			reporting year)			
Are you required by yeunderground structur Please provide integri Tabl	our licence to undertake it es and pipelines on site we try testing frequency perious le B2: Summary details of Type system	ntegrity testing on underground hich failed the integrity test of a pipeline/underground structure pipeline/underground structure. Material of construction:	be integrity test Does this structure have Secondary containment?	Type of secondary containment	Type integrity testing	SELECT Integrity reports maintained on site?	N/A Results of test	failure explanation			reporting year)			
are you required by yi inderground structur Please provide integri Tabl	our licence to undertake it es and pipelines on site we try testing frequency perious le B2: Summary details of Type system	ntegrity testing on underground hich failed the integrity test of a pipeline/underground structure pipeline/underground structure. Material of construction:	be integrity test Does this structure have Secondary containment?	Type of secondary containment	Type integrity testing	SELECT Integrity reports maintained on site?	N/A Results of test	failure explanation			reporting year)			

Groundwater/Soil monitoring template Lic No: W0022-01 Year 2012

- 1	
	Are you required to carry out groundwater monitoring as part of your licence requirements?
	- / / / 0

- 2 Are you required to carry out soil monitoring as part of your licence requirements?
- $^{\rm 3}$ Do you extract groundwater for use on site? If yes please specify use in comment section
- $^{\rm 4}$ Is there contaminated land and /or groundwater on site? If yes please answer q's 5-12
- 5 Is the contamination related to operations at the facility (either current and/or historic)
- 6 Have actions been taken to address contamination issues?If yes please summarise remediation strategies proposed/undertaken for the site
- 7 Please specify the proposed time frame for the remediation strategy
- 8 Is there a licence condition to carry out/update ELRA for the site?
- 9 Has any type of risk assesment been carried out for the site?
- 10. Has a Concentual Site Model been developed for the site?

10	has a conceptual site woder been developed for the site:
11	Have potential receptors been identified on and off site?
12	Is there evidence that contamination is migrating offsite?

	Comments
yes	
no	
no	
no	
N/A	
N/A N/A N/A N/A N/A N/A N/A	
N/A	

Table 1: Upgradient Groundwater monitoring results

	1										Upward trend in
										% change in	pollutant
	Sample									average	concentration over last
Date of	location	Parameter/			Maximum	Average				concentration	5 years of monitoring
sampling	reference	Substance	Methodology	Monitoring frequency	Concentration++	Concentration+	unit	GTV's*	SW EQS	previous year +/-	data
	BH4	рН	meter	Quaterly	7.07	6.87	SELECT			1.39%-	no
	BH4	Temp	meter	Quaterly	19.1	14.1	SELECT			32.39	no
	BH4	Elec.Conductivity	meter	Quaterly	28.3	20.3	SELECT		1000	99.81%-	no
	BH4	Chlorides	titration	Quaterly	2584	1749			250	72%	no
	BH4	Ammoniacal Nitorgen	ise meter	Quaterly /Monthly	2.51	0.27	mg/I		0.02	6.82%-	no
	BH4	Iron		Annual	389.6	389.6	ug/l		1		no
	BH4	TON		Quaterly	0.99	0.199	mg/l			70.09%-	no
	BH4	тос	Hach	Quaterly	130	19.8	mg/l			75.38%-	no
Annual	BH4	Cadmium		Annual	0.4	0.4	ug/l		0.005mg/l		no
	BH4	Chromium (total)		Annual	7.4	7.4	ug/l		0.03mg/l		no
	BH4	Copper		Annual	0.032	0.032	ug/l		0.03mg/l		no
	BH4	Cyanide (Total)		Annual	<10	<10	ug/l		0.01mg/l		no
	BH4	Lead		Annual	<0.3	<0.3	ug/l		0.01mg/l		no
	BH4	Mangnesium		Annual	258.2	258.2					no
	BH4	Manganese		Annual	1090.9	1090.9	ug/l		0.3mg/l		no
	BH4	Mercury		Annual	0.02	0.02			0.001mg/l		no
	BH4	Potassium		Quarterly	234.6	115.2	mg/I		5mg/l	112%	no
	BH5	Sodium		Quarterly	6625.3	5160.3				344%	no
	BH4	Sulphate		Annual	498.9	498.9			200mg/l		no
	BH4	Total Alkalinity		Annual	339.7	339.7					no
	BH4	Total Phosphorus		Annual	0.34	0.34	mg/l				no
	BH4	Phenols		Annual		<1.0	ug/l		0.5ug/l		no
	BH4	Acenaphthylene		Annual	<1.0	<1.0	ug/l				no

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BH4	Anthracene	Annual	<1.0	<1.0	ug/l			no
BH4	Benzene	Annual	<1.0	<1.0	ug/l		10ug/l	no
DILIA	Decree diships with a se	A	<1.0	<1.0				
BH4	Bromodichloromethane	Annual	-1.0	-1.0	ug/I		42 . //	no
BH4 BH4	Bromoform	Annual	<1.0 <1.0	<1.0 <1.0	ug/l ug/l		12ug/l	no
	Chloroform	Annual	<1.0	<1.0			12ug/l	no
BH4	Chrysene	Annual	<1.0	<1.0	ug/l			no
BH4	Dibromochloromethane	Annual	<1.0	<1.0	ug/l			no
BH4	Fluoranthene	Annual	<1.0	<1.0	ug/l			no
BH4	Fluorene	Annual	<1.0	<1.0	ug/l			no
BH4	Naphthalene	Annual	<2.0	<2.0	ug/l			no
BH4	Dibromochloromethane	Annual	<1.0	<1.0	ug/l			no
BH4	Pentachlorophenol	Annual Annual	<1.0	<1.0	ug/l		2.0ug/l	no
BH4	Phenanthrene	Annual	<1.0	<1.0	ug/l		2.0ug/1	no
BH4	Pyrene	Annual	<1.0	<1.0	ug/l			no
BH4	Tetrachloroethene	Annual	<0.1	<0.1	ug/l			no
BH4	Trichloroethene	Annual	<1.0	<1.0	ug/I			no
BH4	Hexachlorobenzene	Annual	<1.0	<1.0	ug/l		0.03ug/l	no
DITT	riexaciiiorobelizerie	Alliluai	<0.1	<0.1	идут		0.03ug/1	110
BH4	Hexachlorobutadiene	Annual		10	ug/l		0.10ug/l	no
BH4	2,4,6-Trichlorophenol	Annual	<1.0	<1.0	ug/l			no
BH4	2,4-Dichlorophenol	Annual	,<1.0	,<1.0	ug/l			no
BH4	2,4-Dichlorophenol	Annual	,1.0	,1.0	ug/I			no
BH4	2-Chlorophenol	Annual	<1.0	<1.0	ug/l			no
DITH	2-chlorophenor	Alliluai	<1.0	<1.0	ug/i			110
BH4	1,2,4-trichlorobenzene	Annual	11.0	V1.0	ug/l			no
BH4	1,2-dichlorobenzene	Annual	<1.0	<1.0	ug/l			no
BH4	1,3-dichlorobenzene	Annual	<1.0	<1.0	ug/l			no
BH4	1,4-dichlorobenzene	Annual	<1.0	<1.0	ug/l			no
BH4	2,4,5-Trichlorophenol	Annual	<1.0	<1.0	ug/l			no
BH4	2,4-Dinitrotoluene	Annual	<1.0	<1.0	ug/l			no
BH4	2,6-Dinitrotoluene	Annual	<1.0	<1.0	ug/l			no
DIIT	2,0 Dillitotolache	Ailliuai	<1.0	<1.0	ug/1			110
BH4	2-Chloronaphthalene	Annual			ug/l			no
BH4	2-Methylnaphthalene	Annual	<1.0	<1.0	ug/l			no
BH4	2-Methylphenol	Annual	<1.0	<1.0	ug/l			no
BH4	2-Nitrophenol	Annual	<1.0	<1.0	ug/l			no
	4-Bromophenyl Phenyl	Ailliuui	<1.0	<1.0	~6/·			
BH4	Ether	Annual			ug/l			no
BH4	4-Chloro-3- methylphenol	Annual	<1.0	<1.0	ug/l			no
דווכ	4-Chlorophenyl phenyl	Aiiiludi	<1.0	<1.0	ug/1			110
BH4	ether	Annual			ug/I			no
BH4	4-Nitrophenol	Annual	<5.0	<5.0	ug/l			no
BH4	Acenaphthene	Annual	<1.0	<1.0	ug/l			no
BH4	Benzo(a)anthracene	Annual	<1.0	<1.0	ug/l			no
BH4	Benzo(a)pyrene	Annual	<1.0	<1.0	ug/l			no
BH4	Benzo(b)fluoranthene	Annual	<1.0	<1.0	ug/l			200
BH4	Benzo(g,h,i)perylene	Annual	<1.0	<1.0	ug/l ug/l			no no
או וט	penzo(R)n/n/ber/liene	Aiiiludi	<1.0	<1.0	ug/1			110

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			<1.0	<1.0					
BH4	Bis(2- chloroethoxy)methane	Annual			/1				
БП4	chloroethoxyjmethane	Alliudi	<1.0	<1.0	ug/l				no
BH4	Bis(2-chloroethyl)ether	Annual			ug/l				no
	Bis(2-		<1.0	<1.0					
BH4	chloroisopropyl)ether	Annual			ug/I				no
BH4	Bis(2- ethylhexyl)phthalate	Annual	<5.0	<5.0	ug/l				
БП4	etnymexyrjpmmaate	Annual	<1.0	<1.0	ug/i				no
BH4	Dibenz(a,h)anthracene	Annual			ug/l				no
BH4	Dibenzofuran	Annual	<1.0	<1.0	ug/l				no
BH4	Diethylphthalate	Annual	<1.0	<1.0	ug/l				no
BH4	di-n-Butylphthalate	Annual	<1.0	<1.0	ug/l				no
BH4	Di-n-octylphthalate	Annual	<1.0	<1.0	ug/l				no
BH4	Diphenylamine	Annual	<1.0	<1.0	ug/l				no
BH4	Hexachloroethane	Annual	<1.0 <1.0	<1.0 <1.0	ug/I		+		no
BH4	Indeno(1,2,3-c,d)pyrene	Annual	<1.0	<1.0	ug/l				no
BH4	Isophorone	Annual	<1.0	<1.0	ug/l				no
BH4	Nitrobenzene	Annual	<1.0	<1.0	ug/I				no
BH4	n-Nitrosodi-n- propylamine	Annual	<1.0	<1.0	ug/l				no
BH4	Acetone	Annual Annual	<2.0	<2.0	ug/l ug/l		+		no no
BH4	Dichloromethane	Annual	<5.0	<5.0	ug/l		10ug/l		no
BH4	Tetrahydrofuran	Annual	<0.5	<0.5	ug/l		1006/1		no
BH4	Toluene	Annual	<0.5	<0.5	ug/l				no
BH4	Xylene -o	Annual	<0.5	<0.5	ug/l		10ug/l		no
	Dichlorodifluoromethan		<1.0	<1.0			,		
BH4	e Chloromethane	Annual	<0.5	<0.5	ug/l ug/l				no
BH4	Chloromethane	Annual	<0.5	<0.5	ug/I				no
	Ethyl		20.5	20.5					
BH4	Chloride/Chloroethane	Annual			ug/l				no
BH4	Vinyl Chloride	Annual	<0.5	<0.5	ug/l				no
BH4	Bromomethane Trichloromonofluoromet	Annual	<0.5 <0.5	<0.5 <0.5	ug/l				no
BH4	hane	Annual	20.5	20.5	ug/I				no
DH4	Fabrul Fabou / Dicabul Fabou	Annual	<0.5	<0.5	ual)				no
BH4 BH4	Ethyl Ether/Diethyl Ether 11 Dichloroethene	Annual Annual	<0.5	<0.5	ug/l ug/l		+	+	no no
0114	Iodomethane/Methyl	Ailliudi	<0.5	<0.5	ng/1				110
BH4	lodide	Annual			ug/l				no
BH4	Carbon Disulphide	Annual	<0.5	<0.5	ug/l				no
BH4	Allyl Chloride	Annual	<0.5	<0.5	ug/l				no
	Chlormethyl Cyanide/Chloroacetonitr		<0.5	<0.5					
BH4	ile	Annual			ug/I				no
BH4	Propanenitrile	Annual	<10.	<10.	ug/l				no
BH4	Trans-1,2 Dichloroethene	Annual	<0.5	<0.5	ug/l				no
BH4	MtBE	Annual	<0.5	<0.5	ug/I		+	<u> </u>	no
BH4	1,1-dichloroethane	Annual	<0.5	<0.5	ug/l				no
BH4	2,2-dichloropropane	Annual	<0.5	<0.5	ug/l				no
			<0.5	<0.5					
BH4	cis-12 Dichloroethene	Annual			ug/l		+		no
BH4	2-Butanone	Annual	<5.0	<5.0	ug/l				no

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BH4	Methyl Acrylate	Annual	<0.5	<0.5	ug/l				no
BH4	Bromochloromethane	Annual	<0.5	<0.5	ug/l				no
BH4	Methacrylonitrile	Annual	<5.0	<5.0	ug/I				no
DITH	Wediaciyionane	Ailliuai	<0.5	<0.5	ug/1				110
BH4	1,1,1-trichloroethane	Annual	40.0		ug/I				no
BH4	1-Chlorobutane	Annual	<0.5	<0.5	ug/l				no
			<0.5	<0.5					
BH4	Carbon Tetrachloride	Annual			ug/l				no
BH4	11 Dichloropropene	Annual	<0.5	<0.5	ug/l				no
BH4	1,2 dicloroethane	Annual	<0.5	<0.5	ug/l				no
BH4	1,2-dichloropropane	Annual	<0.5	<0.5	ug/l		10ug/l		no
BH4	Dibromomethane	Annual	<0.5	<0.5	ug/l		1006/1		no
BH4	Methyl Methacrylate	Annual	<0.5	<0.5	ug/l				no
DITT		/ unidai	<2.0	<2.0	-8/-				110
BH4	13 Dichloropropene,cis	Annual			ug/I				no
BH4	MIBK/4 Methyl 2 Pentanone	Annual	<2.0	<2.0	ug/l				no
DITT	i cinamone	Ailliudi	<2.0	<2.0	05/1				110
	13			1					
BH4	Dichloropropene,trans	Annual	2.0	2.0	ug/l				no
BH4	Ethyl Methacrylate	Annual	<2.0 <0.5	<2.0 <0.5	ug/l				no
BH4	112 Trichloroethane	Annual			ug/l				no
BH4	1,3-dichloropropane	Annual	<0.5	<0.5	ug/l				no
BH4	2-Hexanone	Annual	<1.0	<1.0	ug/l				no
BH4	1,2-dibromoethane	Annual	<0.5	<0.5	ug/l		4.0 . //		no
BH4	Chlorobenzene	Annual	<0.5 <2.0	<0.5 <2.0	ug/l		1.0ug/l		no
BH4	tetrachloroethane	Annual	<2.0	<2.0	ug/I				no
BH4	Ethylbenzene	Annual	<0.5	<0.5	ug/I		10ug/l		no
BH4	Xylene P&M	Annual	<0.5	<0.5	ug/l				no
BH4	Styrene	Annual	<0.5	<0.5	ug/I				no
BH4	Isopropylbenzene	Annual	<0.5	<0.5	ug/l				no
BH4	Bromobenzene	Annual	<0.5	<0.5	ug/I				no
DITA	1,1,2,2-	A	<0.5	<0.5					
BH4	tetrachloroethane	Annual	<2.0	<2.0	ug/l		_		no
BH4	1,2,3-trichloropropane	Annual	<2.0	<2.0	ug/l				no
DLIA	Trans 14 Dichloro 2	Annii-I	<2.0	<2.0	a/I				
BH4 BH4	Butene, tran Propylbenzene	Annual	<0.5	<0.5	ug/l ug/l				no no
BH4	2-chlorotoluene	Annual Annual	<0.5	<0.5	ug/I		+	+	
BH4	4-chlorotoluene	Annual	<0.5	<0.5	ug/i ug/i		+	+	no no
ьп4	- Chlorotoldene	Ailliudi	<0.5	<0.5	ug/1		1		110
BH4	1,3,5-trimethylbenzene	Annual			ug/I				no
BH4	Tert Butyl Benzene	Annual	<0.5	<0.5	ug/I				no
DUA	1.2.4 trimothydr	Annual	<0.5	<0.5	//				20
BH4 BH4	1,2,4-trimethylbenzene sec-butylbenzene	Annual	<0.5	<0.5	ug/l ug/l		+		no
BH4	·	Annual	<0.5	<0.5	ug/I		+		no no
BH4	P Isopropyltoluene N Butyl Benzene	Annual Annual	<0.5	<0.5	ug/I		+		
рП4	1,2-dibromo-3-	Ailliuai	<2.0	<2.0	ug/I				no
BH4	chloropropane	Annual	<2.0	<2.0	ug/I				no
DILIA			<0.5	<0.5					
BH4	1,2,3-trichlorobenzene Total Solids	Annual Annual		7954	ug/I mg/I				no

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	BH4	Total Colifroms	Annual	4600	4600	MPN/100ML				no
				4600	4600					
	BH4	Faecal Coliforms	Annual			MPN/100ML				no
aterly	BH5	рН	Quaterly	7.46	7.23	SELECT			5.90%	no
	BH5	Temp	Quaterly	14	14	SELECT		9.5	7.5%-	no
	BH5	Elec.Conductivity	Quaterly	610	610	SELECT		1000	94%-	no
				1219	1219					
	вн5	Chlorides	Quaterly					250	177%	no
			,	0.24	0.164					
	BH5	Ammoniacal Nitorgen	Quaterly /Monthly			mg/l			62%-	no
	BH5	Iron	Annual			ug/l		0.02		no
	BH5	TON	Quaterly	1.339	0.759				97%-	no
	BH5	тос	Quaterly	220	220	mg/l			5150%	no
nnual	BH5	Cadmium	Annual	no annual	no annual	ug/l		0.005mg/l		no
	BH5	Chromium (total)	Annual	no annual	no annual	ug/l		0.003mg/l		no
	BH5	Copper	Annual	no annual	no annual	ug/l		0.03mg/l		no
	BH5	Cyanide (Total)	Annual	no annual	no annual	ug/l		0.01mg/l		no
	BH5	Lead	Annual	no annual	no annual	ug/l		0.01mg/l		no
	BH5	Mangnesium	Annual	no annual	no annual	mg/l				no
	BH5	Manganese	Annual	no annual	no annual	ug/l		0.3mg/l		no
	BH5	Mercury	Annual	no annual	no annual	ug/l		0.001mg/l		no
	BH5	Potassium	Quarterly	827	416	mg/I		5mg/l	3966%	no
	BH5	Sodium	Quarterly	46	38				58%-	no
	BH5	Sulphate	Annual	no annual	no annual	mg/l				no
	BH5	Total Alkalinity	Annual	no annual	no annual	mg/l				no
	BH5	Total Phosphorus	Annual	no annual	no annual	mg/l				no
	BH5	Phenols	Annual	no annual	no annual	ug/l		0.5ug/l		no
	BH5	Acenaphthylene	Annual	no annual	no annual	ug/l				no
	BH5	Acenaphthylene	Annual	no annual	no annual	ug/l				no
	BH5	Anthracene	Annual	no annual	no annual	ug/l				no
	BH5	Benzene	Annual	no annual	no annual	ug/l				no
	BH5	Bromodichloromethane	Annual	no annual	no annual	ug/l				no
	BH5	Bromoform	Annual	no annual	no annual	ug/l				no
	BH5	Chloroform	Annual	no annual	no annual	ug/l		12ug/l		no
	BH5	Chrysene	Annual	no annual	no annual	ug/l		1246/1		no
		·	,	no annual	no annual					
	BH5	Dibromochloromethane	Annual			ug/l				no
	BH5	Fluoranthene	Annual	no annual	no annual	ug/l		ļ		no
	BH5	Fluorene	Annual	no annual	no annual	ug/l		ļ		no
	BH5	Naphthalene	Annual	no annual	no annual	ug/l				no
	BH5	Dibromochloromethane	Annual	no annual	no annual	ug/l				no
	BH5	Pentachlorophenol	Annual	no annual	no annual	ug/l		2.0ug/l		no
	BH5	Phenanthrene	Annual	no annual	no annual	ug/l		0, -		no
	BH5	Pyrene	Annual	no annual	no annual	ug/l				no
	BH5	Tetrachloroethene	Annual	no annual	no annual	ug/l		1		no
	BH5	Trichloroethene	Annual	no annual	no annual	ug/l				no
	BH5	Hexachlorobenzene	Annual	no annual	no annual	ug/I		0.03ug/l		no
				no annual	no annual	-				
	BH5	Hexachlorobutadiene	Annual			ug/l		0.10ug/l		no

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BH5	2,4,6-Trichlorophenol	Annual	no annual	no annual	ug/I				no
BH5	2,4-Dichlorophenol	Annual	no annual	no annual	ug/l				no
BH5	2,4-Dimethylphenol	Annual	no annual	no annual	ug/l				no
BH5	2-Chlorophenol	Annual	no annual	no annual	ug/l				no
BH5	1,2,4-trichlorobenzene	Annual	no annual	no annual	ug/l				no
BH5	1,2-dichlorobenzene	Annual	no annual	no annual	ug/l				no
BH5	1,3-dichlorobenzene	Annual	no annual	no annual	ug/l				no
BH5	1,4-dichlorobenzene	Annual	no annual	no annual	ug/I				no
BH5	2,4,5-Trichlorophenol	Annual	no annual	no annual	ug/I				no
BH5	2,4-Dinitrotoluene	Annual	no annual	no annual	ug/l				no
BH5	2,6-Dinitrotoluene	Annual	no annual	no annual	ug/l				no
			no annual	no annual					
BH5	2-Chloronaphthalene	Annual	no annual	no annual	ug/l				no
BH5	2-Methylnaphthalene	Annual			ug/l				no
BH5	2-Methylphenol	Annual	no annual	no annual	ug/l				no
BH5	2-Nitrophenol	Annual	no annual	no annual	ug/l				no
BH5	4-Bromophenyl Phenyl Ether	Annual	no annual	no annual	ug/I				no
вн5	4-Chloro-3- methylphenol	Annual	no annual	no annual	ug/l				no
	4-Chlorophenyl phenyl	Annual	no annual	no annual					
BH5	ether	Annual			ug/l				no
BH5	4-Nitrophenol	Annual	no annual	no annual	ug/l			1	no
BH5	Acenaphthene	Annual	no annual	no annual	ug/l				no
BH5	Benzo(a)anthracene	Annual	no annual	no annual	ug/l				no
BH5	Benzo(a)pyrene	Annual	no annual	no annual	ug/l				no
BH5	Benzo(b)fluoranthene	Annual	no annual	no annual	ug/I				no
BH5	Benzo(g,h,i)perylene	Annual	no annual	no annual	ug/l				no
вн5	Benzyl Butyl Phthalate	Annual	no annual	no annual	ug/l				no
	Bis(2-		no annual	no annual					
BH5	chloroethoxy)methane	Annual			ug/l				no
ВН5	Bis(2-chloroethyl)ether	Annual	no annual	no annual	ug/l				no
	Bis(2-		no annual	no annual	_				
BH5	chloroisopropyl)ether	Annual			ug/l				no
BH5	Bis(2- ethylhexyl)phthalate	Annual	no annual	no annual	ug/I				no
BH5	Dibenz(a,h)anthracene	Annual	no annual	no annual	ug/I				no
BH5	Dibenzofuran	Annual	no annual	no annual	ug/l				no
BH5	Diethylphthalate	Annual	no annual	no annual	ug/I				no
BH5	di-n-Butylphthalate	Annual	no annual	no annual	ug/l				no
BH5	Di-n-octylphthalate	Annual	no annual	no annual	ug/I				no
BH5	Diphenylamine	Annual	no annual	no annual	ug/I				no
BH5	Hexachloroethane	Annual	no annual	no annual	ug/l				no
BH5	Indeno(1,2,3-c,d)pyrene	Annual	no annual	no annual	ug/I				no
BH5	Isophorone	Annual	no annual	no annual	ug/l				no
BH5	Nitrobenzene	Annual	no annual	no annual	ug/l				no
_	n-Nitrosodi-n-		no annual	no annual	_		+	1	

	il monitoring template		Lic No:	W0022-01		Year	2012	2	
BH5	Acetone	Annual	no annual	no annual	ug/l				10
BH5	Dichloromethane	Annual	no annual	no annual	ug/I				10
BH5	Tetrahydrofuran	Annual	no annual	no annual	ug/l			n	10
BH5	Toluene	Annual	no annual	no annual	ug/I		10ug/l	n	10
BH5	Xylene -o	Annual	no annual	no annual	ug/I			n	10
DUE	Dichlorodifluoromethan	A	no annual	no annual					
BH5	e	Annual			ug/l		_		10
BH5	Chloromethane	Annual	no annual	no annual	ug/l			n	10
	Ethyl		no annual	no annual					
BH5	Chloride/Chloroethane	Annual			ug/I			n	10
BH5	Vinyl Chloride	Annual	no annual	no annual	ug/I			r	10
BH5	Bromomethane	Annual	no annual	no annual	ug/l			n	10
	Trichloromonofluoromet		no annual	no annual					
BH5	hane	Annual			ug/I			n	10
ВН5	Ethyl Ether/Diethyl Ether	Annual	no annual	no annual	ug/l			l ln	no
BH5	11 Dichloroethene	Annual	no annual	no annual	ug/l				10
5113	Iodomethane/Methyl	Ailliuui	no annual	no annual	∀ 5/1				10
BH5	lodide	Annual	no annuai	no amuai	ug/l			l n	no
BH5	Carbon Disulphide	Annual	no annual	no annual	ug/l			r	าด
BH5	Allyl Chloride	Annual	no annual	no annual	ug/l			n	10
	Chlormethyl		no annual	no annual					
DUE	Cyanide/Chloroacetonitr	Annual							
BH5 BH5	December 1		no annual	no annual	ug/l		_		10 10
впо	Propanenitrile Trans-1,2	Annual			ug/l			I I	10
BH5	Dichloroethene	Annual	no annual	no annual	ug/I			n	no
BH5	MtBE	Annual	no annual	no annual	ug/l				10
BH5	1,1-dichloroethane	Annual	no annual	no annual	ug/l				10
BH5	2,2-dichloropropane	Annual	no annual	no annual	ug/l				10
		7 4111001	no annual	no annual	-8/-				
BH5	cis-12 Dichloroethene	Annual			ug/I			n	10
BH5	2-Butanone	Annual	no annual	no annual	ug/l			n	10
BH5	Methyl Acrylate	Annual	no annual	no annual	ug/I			r	10
DITE		A	no annual	no annual					
BH5	Bromochloromethane	Annual	no onnuel	no onnuel	ug/l			_	10
BH5	Methacrylonitrile	Annual	no annual	no annual	ug/l		_	r	10
BH5	1,1,1-trichloroethane	Annual	no annual	no annual	ug/I			l In	no
BH5	1-Chlorobutane	Annual	no annual	no annual	ug/I			_	าด
			no annual	no annual					
BH5	Carbon Tetrachloride	Annual			ug/I				10
BH5	11 Dichloropropene	Annual	no annual	no annual	ug/I			r	10
BH5	1,2 dicloroethane	Annual	no annual	no annual	ug/I			n	าด
BH5	1,2-dichloropropane	Annual	no annual	no annual	ug/l		10ug/l	n	าด
BH5	Dibromomethane	Annual	no annual	no annual	ug/I			r	10
BH5	Methyl Methacrylate	Annual	no annual	no annual	ug/I			r	าด
BH5	13 Dichloropropene,cis	Annual	no annual	no annual	ug/l			r	าด
	MIBK/4 Methyl 2		no annual	no annual					
BH5	Pentanone	Annual			ug/I			r	10
	13		no annual	no annual					
BH5	Dichloropropene,trans	Annual			ug/I			l In	no
BH5	Ethyl Methacrylate	Annual	no annual	no annual	ug/l			_	10
BH5	112 Trichloroethane	Annual	no annual	no annual	ug/l				10
BH5	1,3-dichloropropane	Annual	no annual	no annual	ug/l		+		10

	vater/ Jon II	nonitoring template		Lic No:	W0022-01		Year	2012		
	BH5	2-Hexanone	Annual	no annual	no annual	ug/l				no
	BH5	1,2-dibromoethane	Annual	no annual	no annual	ug/l				no
	BH5	Chlorobenzene	Annual	no annual	no annual	ug/l		1.0ug/l		no
	DUE	1,1,1,2-		no annual	no annual					
	BH5 BH5	tetrachloroethane Ethylbenzene	Annual	no annual	no annual	ug/l ug/l		10/		no no
	BH5	Xylene P&M	Annual	no annual	no annual	ug/I		10ug/l		
	BH5	Styrene Styrene	Annual	no annual	no annual	ug/I				no no
	BH5	+ '	Annual	no annual	no annual	ug/I				no
		Isopropylbenzene Bromobenzene	Annual	no annual	no annual					
	BH5	1,1,2,2-	Annual	no annual	no annual	ug/l				no
	BH5	tetrachloroethane	Annual	no amuai	no annuai	ug/l				no
	BH5	1,2,3-trichloropropane	Annual	no annual	no annual	ug/l				no
	DUE	Trans 14 Dichloro 2	Annual	no annual	no annual					
	BH5	Butene, tran	Annual	no annual	no annual	ug/l ug/l				no
	BH5	Propylbenzene	Annual	no annual	no annual no annual					no
	BH5	2-chlorotoluene	Annual	no annual	no annual	ug/l				no
	BH5	4-chlorotoluene	Annual			ug/l	-		-	no
	BH5	1,3,5-trimethylbenzene	Annual	no annual	no annual	ug/l				no
	BH5	Tert Butyl Benzene	Annual	no annual	no annual	ug/l				no
	BH5	1,2,4-trimethylbenzene	Annual	no annual	no annual	ug/l				no
	BH5	sec-butylbenzene	Annual	no annual	no annual	ug/l				no
	BH5	P Isopropyltoluene	Annual	no annual	no annual	ug/l				no
	BH5	N Butyl Benzene	Annual	no annual	no annual	ug/l				no
	BH5	1,2-dibromo-3- chloropropane	Annual	no annual	no annual	ug/I				no
	BH5	1,2,3-trichlorobenzene	Annual	no annual	no annual	ug/l				no
	BH5	Total Solids	Annual	no annual	no annual	mg/l				no
	BH5	Total Colifroms	Annual	no annual	no annual	MPN/100ML				no
	BH5	Faecal Coliforms	Annual	no annual	no annual	MPN/100ML				no
У	BH3	рН	Quaterly	9.09		SELECT		9.5	12%-	no
	BH3	Temp	Quaterly	21.5		SELECT			34%	
	BH3	Elec.Conductivity	Quaterly	8940		SELECT		1000	87%-	no
	BH3	Chlorides	Quaterly	1804	1769			250	13%	no
	внз	Ammoniacal Nitorgen	Quaterly /Monthly	12.2	7.9	mg/l		0.02NH3	13%	
	BH3	Iron	Annual	67554.5		ug/l		1.0mg/l		no
	BH3	TON	Quaterly	0.618	0.618	mg/l				no
	BH3	тос	Quaterly	45		mg/l			45%-	no
	BH3	Cadmium	Annual	0.1	0.1	-		0.005mg/l		no
	BH3	Chromium (total)	Annual	20	20			0.03mg/l		no
	BH3	Copper	Annual	0.02	0.02	-		0.03mg/l		no
	BH3	Cyanide (Total)	Annual	<10.0	<10.1	ug/l		0.01mg/l		no
	BH3	Lead	Annual	<0.3	<0.4	ug/l		0.01mg/l		no
	BH3	Mangnesium	Annual	131.1	131.1	mg/l				no
	BH3	Manganese	Annual	1768	1768	ug/l		0.3mg/l		no
	BH3	Mercury	Annual	<0.02	<0.03	ug/l		0.001mg/l		no
	BH3	Potassium	Quarterly	54.9	50.5	mg/l		5mg/l	6.8%-	no
	BH3	Sodium	Quarterly	2977	1820				56%	no
	вн3		Annual	76		mg/l				no

vater/So	oil monitoring template		Lic No:	W0022-01		Year	2012	
BH3	Total Alkalinity	Annual	17.		mg/I			no
BH3	Total Phosphorus	Annual	0.0	2 0.02	mg/I			no
BH3	Phenols	Annual	<1.0	<1.1	ug/l		0.5ug/l	no
BH3	Acenaphthylene	Annual	<1.0	<1.0	ug/l			no
BH3	Acenaphthylene	Annual	<1.0	<1.0	ug/l			no
вн3	Anthracene	Annual	<1.0	<1.0	ug/l			no
BH3	Benzene	Annual	<1.0	<1.0	ug/l		10ug/l	no
			<1.0	<1.0				
BH3	Bromodichloromethane	Annual			ug/l			no
BH3	Bromoform	Annual	<1.0	<1.0	ug/l			no
BH3	Chloroform	Annual	<1.0	<1.0	ug/l		12ug/l	no
BH3	Chrysene	Annual	<1.0	<1.0	ug/l			no
вн3	Dibromochloromethane	Annual	<1.0	<1.0	ug/l			no
BH3	Fluoranthene	Annual	<1.0	<1.0	ug/l			no
внз	Fluorene	Annual	<1.0	<1.0	ug/I			no
BH3	Naphthalene		<2.0	<2.0				
впэ	Naphthalene	Annual	<1.0	<1.0	ug/l			no
вн3	Dibromochloromethane	Annual	<1.0	<1.0	ug/I			no
BH3	Pentachlorophenol	Annual	<1.0	<1.0	ug/l		2.0ug/l	no
ВН3	Phenanthrene	Annual	<1.0	<1.0	ug/l		<u> </u>	no
BH3	Pyrene	Annual	<1.0	<1.0	ug/l			no
BH3	Tetrachloroethene	Annual	<0.1	<0.1	ug/l			no
BH3	Trichloroethene	Annual	<1.0	<1.0	ug/l			no
BH3	Hexachlorobenzene	Annual	<1.0	<1.0	ug/l		0.03ug/l	no
5113		7 iiii dai	<0.1	<0.1	-8/-		0.0346/1	110
BH3	Hexachlorobutadiene	Annual	40.1	40.1	ug/l		0.10ug/l	no
внз	2,4,6-Trichlorophenol	Annual	<1.0	<1.0	ug/l			no
ВН3	2,4-Dichlorophenol	Annual	,<1.0	,<1.0	ug/l			no
BH3	2,4-Dimethylphenol	Annual	,1.0	,1.0	ug/l			no
BH3	2-Chlorophenol	Annual	<1.0	<1.0	ug/l			no
		7 1111 1001	<1.0	<1.0	- 0			
BH3	1,2,4-trichlorobenzene	Annual			ug/l		0.40ug/l	no
BH3	1,2-dichlorobenzene	Annual	<1.0	<1.0	ug/l			no
BH3	1,3-dichlorobenzene	Annual	<1.0	<1.0	ug/l			no
BH3	1,4-dichlorobenzene	Annual	<1.0	<1.0	ug/I			no
внз	2,4,5-Trichlorophenol	Annual	<1.0	<1.0	ug/l			no
BH3	2,4-Dinitrotoluene	Annual	<1.0	<1.0	ug/l			no
BH3	2,6-Dinitrotoluene	Annual	<1.0	<1.0	ug/l			no
			<1.0	<1.0				
ВН3	2-Chloronaphthalene	Annual	<1.0	<1.0	ug/l			no
ВН3	2-Methylnaphthalene	Annual	1.0	1.0	ug/l			no
BH3	2-Methylphenol	Annual	<1.0	<1.0	ug/l			no
BH3	2-Nitrophenol	Annual	<1.0	<1.0	ug/l			no
DUID	4-Bromophenyl Phenyl		<1.0	<1.0				
BH3	Ether 4-Chloro-3-	Annual	1.0	4.0	ug/l			no
внз	4-Cnloro-3- methylphenol	Annual	<1.0	<1.0	ug/I			no
	4-Chlorophenyl phenyl		<1.0	<1.0				
BH3	ether	Annual			ug/l			no
BH3	4-Nitrophenol	Annual	<5.0	<5.0	ug/l			no
BH3	Acenaphthene	Annual	<1.0	<1.0	ug/l			no
BH3	Benzo(a)anthracene	Annual	<1.0	<1.0	ug/l			no

BH3 BH3 BH3	Benzo(a)pyrene	A					
		Annual	<1.0	<1.0	ug/l		no
	Benzo(b)fluoranthene	Annual	<1.0	<1.0	ug/l		no
0.013	Benzo(g,h,i)perylene	Annual	<1.0	<1.0	ug/I		no
	Senzo(B)nynperynene	Aimai	<1.0	<1.0	05/1		110
BH3	Benzyl Butyl Phthalate	Annual			ug/I		no
	Bis(2-		<1.0	<1.0			
BH3	chloroethoxy)methane	Annual			ug/I		no
внз	Bis(2-chloroethyl)ether	Annual	<1.0	<1.0	ug/l		no
			<1.0	<1.0			
вн3	Bis(2- chloroisopropyl)ether	Annual			ug/l		no
внз	Bis(2- ethylhexyl)phthalate	Annual	<5.0	<5.0	ug/l		no
BH3	Dibenz(a,h)anthracene	Annual	<1.0	<1.0	ug/l		no
BH3	Dibenzofuran	Annual	<1.0	<1.0	ug/l		no
BH3	Diethylphthalate	Annual	<1.0	<1.0	ug/I		no
BH3	di-n-Butylphthalate	Annual	<1.0	<1.0	ug/l		no
BH3	Di-n-octylphthalate	Annual	<1.0	<1.0	ug/l		no
BH3	Diphenylamine	Annual	<1.0	<1.0	ug/l		no
BH3	Hexachloroethane	Annual	<1.0	<1.0	ug/I		no
BH3	Indeno(1,2,3-c,d)pyrene	Annual	<1.0	<1.0	ug/l		no
BH3	Isophorone	Annual	<1.0	<1.0	ug/I		no no
BH3	Nitrobenzene	Annual	<1.0	<1.0	ug/I		no
ыз	n-Nitrosodi-n-	Ailliuai	<1.0	<1.0	ug/1		110
BH3	propylamine	Annual			ug/l		no
BH3	Acetone	Annual	<2.0	<2.0	ug/I		no
BH3	Dichloromethane	Annual	<5.0	<5.0	ug/l	10ug/l	no
BH3	Tetrahydrofuran	Annual	<0.5	<0.5	ug/l		no
BH3	Toluene	Annual	<0.5	<0.5	ug/l	10ug/l	no
BH3	Xylene -o Dichlorodifluoromethan	Annual	<0.5	<0.5	ug/l	10ug/l	no
ВН3	e	Annual	<1.0	<1.0	ug/l		no
BH3	Chloromethane	Annual	<0.5	<0.5	ug/l		no
			<0.5	<0.5			
внз	Ethyl Chloride/Chloroethane	Annual			ug/l		no
BH3	Vinyl Chloride	Annual	<0.5	<0.5	ug/I		no
BH3	Bromomethane	Annual	<0.5	<0.5	ug/I	+	no
	Trichloromonofluoromet		<0.5	<0.5			
BH3	hane	Annual	<0.5	<0.5	ug/l		no
ВН3	Ethyl Ether/Diethyl Ether	Annual			ug/I		no
BH3	11 Dichloroethene	Annual	<0.5	<0.5	ug/l		no
ВН3	lodomethane/Methyl lodide	Annual	<0.5	<0.5	ug/l		no
BH3	Carbon Disulphide	Annual	<0.5	<0.5	ug/l		no
BH3	Allyl Chloride	Annual	<0.5	<0.5	ug/l	1	no
	Chlormethyl		<0.5	<0.5	-		
внз	Cyanide/Chloroacetonitr ile	Annual			ug/l		no
BH3	Propanenitrile	Annual	<10.	<10.	ug/l		no
	Trans-1,2		<0.5	<0.5			
BH3 BH3	Dichloroethene MtBE	Annual Annual	<0.5	<0.5	ug/l ug/l		no no

vater/So	il monitoring template		Lic No:	W0022-01		Year	2012	
BH3	1,1-dichloroethane	Annual	<0.5	<0.5	ug/l			no
BH3	2,2-dichloropropane	Annual	<0.5	<0.5	ug/l			no
вн3	cis-12 Dichloroethene	Annual	<0.5	<0.5	ug/l			no
BH3	2-Butanone	Annual	<5.0	<5.0	ug/l			no
вн3	Methyl Acrylate	Annual	<0.5	<0.5	ug/l			no
внз	Bromochloromethane	Annual	<0.5	<0.5	ug/l			no
ВН3	Methacrylonitrile	Annual	<5.0	<5.0	ug/l			no
	·		<0.5	<0.5				
BH3	1,1,1-trichloroethane	Annual			ug/l		500ug/l	no
BH3	1-Chlorobutane	Annual	<0.5	<0.5	ug/I			no
внз	Carbon Tetrachloride	Annual	<0.5	<0.5	ug/I			no
BH3	11 Dichloropropene	Annual	<0.5	<0.5	ug/l			no
вн3	1,2 dicloroethane	Annual	<0.5	<0.5	ug/l		10ug/l	no
ВН3	1,2-dichloropropane	Annual	<0.5	<0.5	ug/l			no
ВН3	Dibromomethane	Annual	<0.5	<0.5	ug/l			no
BH3	Methyl Methacrylate	Annual	<0.5	<0.5	ug/l			no
внз	13 Dichloropropene,cis	Annual	<2.0	<2.0	ug/l			no
	MIBK/4 Methyl 2		<2.0	<2.0				
ВН3	Pentanone	Annual	<2.0	<2.0	ug/l			no
DI IO	13	1	12.0	12.0				
BH3	Dichloropropene,trans	Annual	0.0		ug/l			no
BH3	Ethyl Methacrylate	Annual	<2.0	<2.0	ug/I			no
BH3	112 Trichloroethane	Annual	<0.5	<0.5	ug/l			no
BH3	1,3-dichloropropane	Annual	<0.5 <1.0	<0.5 <1.0	ug/I			no
BH3	2-Hexanone	Annual			ug/I			no
BH3	1,2-dibromoethane	Annual	<0.5	<0.5	ug/I			no
ВН3	Chlorobenzene 1,1,1,2-	Annual	<0.5	<0.5	ug/I		1.0ug/l	no
вн3	tetrachloroethane	Annual	<2.0	<2.0	ug/l			no
вн3	Ethylbenzene	Annual	<0.5	<0.5	ug/l		10ug/l	no
вн3	Xylene P&M	Annual	<0.5	<0.5	ug/l			no
BH3	Styrene	Annual	<0.5	<0.5	ug/l			no
ВН3	Isopropylbenzene	Annual	<0.5	<0.5	ug/l			no
вн3	Bromobenzene	Annual	<0.5	<0.5	ug/l			no
внз	1,1,2,2- tetrachloroethane	Annual	<0.5	<0.5	ug/l			no
внз	1,2,3-trichloropropane	Annual	<2.0	<2.0	ug/l			no
	Trans 14 Dichloro 2		<2.0	<2.0				
BH3	Butene, tran	Annual	0.5	0.5	ug/l		1	no
BH3	Propylbenzene	Annual	<0.5	<0.5	ug/I		1	no
BH3	2-chlorotoluene	Annual	<0.5	<0.5	ug/I		-	no
BH3	4-chlorotoluene	Annual	<0.5 <0.5	<0.5 <0.5	ug/I			no
вн3	1,3,5-trimethylbenzene	Annual			ug/l			no
ВН3	Tert Butyl Benzene	Annual	<0.5	<0.5	ug/I			no
вн3	1,2,4-trimethylbenzene	Annual	<0.5	<0.5	ug/I			no
вн3	sec-butylbenzene	Annual	<0.5	<0.5	ug/l			no
вн3	P Isopropyltoluene	Annual	<0.5	<0.5	ug/l			no
ВН3	N Butyl Benzene	Annual	<0.5	<0.5	ug/l			no

Groundwater/So	il monitoring template		Lic No:	W0022-01		Year	2012	
внз	1,2-dibromo-3- chloropropane	Annual	<2.0	<2.0	ug/l			no
внз	1,2,3-trichlorobenzene	Annual	<0.5	<0.5	ug/l			no
ВН3	Total Solids	Annual	5432	5432	mg/l			no
BH3	Total Colifroms	Annual	43	43	MPN/100ML			no
			43	43				
вн3	Faecal Coliforms	Annual			MPN/100ML			no

Table 2: Down Groundwater monitoring results

										% change in	Upward trend in pollutant
											'
	Sample									average	concentration over las
Date of	location	Parameter/	Maril - Isla		Maximum	Average		OT) # *	014 500	concentration	5 years of monitoring
sampling	reference	Substance	Methodology	Monitoring frequency	Concentration++	Concentration+	unit	GTV's*	SW EQS	previous year +/-	data
	BH1	рН	METER	Quaterly	7.84		SELECT		9.5		
	BH1	-	METER	Quaterly	24	15.08				12.36%	
	BH1		METER	Quaterly	9830	3400			1000		
	BH1	Chlorides	TITRATION	Quaterly	15945	4988			250	0%	no
	BH1		ISE METER	Quaterly /Monthly	9.9	6.9	mg/l		0.02	50%-	no
	BH1	Iron		Annual	59.6	59.6	-				no
	BH1	TON		Quaterly	2.52	0.21					no
	BH1	TOC	HACH	Quaterly	54	14.35				154%	no
Annual	BH1	Cadmium		Annual	0.4		ug/l		0.005mg/l		no
	BH1	Chromium (total)		Annual	1.5	1.5	ug/l		0.03mg/l		no
	BH1	Copper		Annual	0.005	0.005	ug/l		0.03mg/l		no
	BH1	Cyanide (Total)		Annual	<10.00	<10.01	ug/l		0.01mg/l		no
	BH1	Lead		Annual	<0.3	<0.4	ug/l		0.01mg/l		no
	BH1	Mangnesium		Annual	44.3	44.3	mg/l		_		no
	BH1	Manganese		Annual	2107.2	2107.2	ug/l		0.3mg/l		no
	BH1	Mercury		Annual	<0.02	<0.03	ug/l		0.001mg/l		no
	BH1	Potassium		Quarterly	120	64.4	mg/l		5mg/l	17%-	no
	BH1	Sodium		Quarterly	3589	2030				0%	no
	BH1	Sulphate		Annual	160.5	160.5	mg/l		200mg/l		no
	BH1	Total Alkalinity		Annual	401.2	401.2			<u> </u>		no
	BH1	Total Phosphorus		Annual	0.09	0.09	mg/l				no
	BH1	Phenols		Annual	<1.0	<1.0	ug/l		0.5ug/l		no
	BH1	Acenaphthylene		Annual	<1.0	<1.0	ug/l		O,		no
	BH1	Anthracene		Annual	<1.0	<1.0	ug/l				no
	BH1	Benzene		Annual	<1.0	<1.0	ug/l		10ug/l		no
	BH1	Bromodichloromethane		Annual	<1.0	<1.0	ug/l				no
	BH1	Bromoform		Annual	<1.0	<1.0	ug/l		12ug/l		no
	BH1	Chloroform		Annual	<1.0	<1.0	ug/l		12ug/l		no
	BH1	Chrysene		Annual	<1.0	<1.0	ug/l		- 0/		no
	BH1	Dibromochloromethane		Annual	<1.0	<1.0	ug/l				no
	BH1	Fluoranthene		Annual	<1.0	<1.0	ug/l				no
	BH1	Fluorene		Annual	<1.0	<1.0	ug/l				no
	BH1	Naphthalene		Annual	<2.0	<2.0	ug/l				no
	BH1	Dibromochloromethane		Annual	<1.0	<1.0	ug/l				no

ndwater/S	oil monitoring template		Lic No:	W0022-01		Year	2012	
BH1	Pentachlorophenol	Annual	<1.0	<1.0	ug/l		2.0ug/l	no
BH1	Phenanthrene	Annual	<1.0	<1.0	ug/l			no
BH1	Pyrene	Annual	<1.0	<1.0	ug/l			no
BH1	Tetrachloroethene	Annual	<0.1	<0.1	ug/l			no
BH1	Trichloroethene	Annual	<1.0	<1.0	ug/I			no
BH1	Hexachlorobenzene	Annual	<1.0	<1.0	ug/I		0.03ug/l	no
			<0.1	<0.1	- 0			
BH1	Hexachlorobutadiene	Annual			ug/l		0.10ug/l	no
BH1	2,4,6-Trichlorophenol	Annual	<1.0	<1.0	ug/l			no
BH1	2,4-Dichlorophenol	Annual	<<1.0	,<1.0	ug/l			no
BH1	2,4-Dimethylphenol	Annual	<1.0	,1.0	ug/l			no
BH1	2-Chlorophenol	Annual	<1.0	<1.0	ug/l			no
BH1	1,2,4-trichlorobenzene	Annual	<1.0	<1.0	ug/l			no
BH1	1,2-dichlorobenzene	Annual	<1.0	<1.0	ug/l			no
BH1	1,3-dichlorobenzene	Annual	<1.0	<1.0	ug/l			no
BH1	1,4-dichlorobenzene	Annual	<1.0	<1.0	ug/l			no
		,	<1.0	<1.0	-0/			
BH1	2,4,5-Trichlorophenol	Annual			ug/l			no
BH1	2,4-Dinitrotoluene	Annual	<1.0	<1.0	ug/l			no
BH1	2,6-Dinitrotoluene	Annual	<1.0	<1.0	ug/l			no
BH1	2-Chloronaphthalene	Annual	<1.0	<1.0	ug/l			no
BH1	2-Methylnaphthalene	Annual	<1.0	<1.0	ug/l			no
BH1	2-Methylphenol	Annual	<1.0	<1.0	ug/l			no
BH1	2-Nitrophenol	Annual	<1.0	<1.0	ug/I			no
BH1	4-Bromophenyl Phenyl Ether	Annual	<1.0	<1.0	ug/I			no
BH1	4-Chloro-3- methylphenol	Annual	<1.0	<1.0	ug/l			no
D111	4-Chlorophenyl phenyl	/ unidai	<1.0	<1.0	OS/1			110
BH1	ether	Annual	V1.0	11.0	ug/I			no
BH1	4-Nitrophenol	Annual	<5.0	<5.0	ug/l			no
BH1	Acenaphthene	Annual	<1.0	<1.0	ug/l			no
BH1	Benzo(a)anthracene	Annual	<1.0	<1.0	ug/l			no
BH1	Benzo(a)pyrene	Annual	<1.0	<1.0	ug/l			no
BH1	Benzo(b)fluoranthene	Annual	<1.0	<1.0	ug/l			no
BH1	Benzo(g,h,i)perylene	Annual	<1.0	<1.0	ug/l			no
BH1			<1.0	<1.0				no
DIT	Benzyl Butyl Phthalate	Annual	<1.0	<1.0	ug/l			110
DL14	Bis(2-	April	<1.0	<1.0	ug II			nc
BH1	chloroethoxy)methane	Annual	-1.0	~1 O	ug/l			no
BH1	Bis(2-chloroethyl)ether	Annual	<1.0	<1.0	ug/l			no
	Bis(2-		<1.0	<1.0				
BH1	chloroisopropyl)ether	Annual			ug/l			no
BH1	Bis(2- ethylhexyl)phthalate	Annual	<5.0	<5.0	ug/l			no
			<1.0	<1.0				
BH1	Dibenz(a,h)anthracene	Annual			ug/l			no
BH1	Dibenzofuran	Annual	<1.0	<1.0	ug/l			no
BH1	Diethylphthalate	Annual	<1.0	<1.0	ug/l			no
BH1	di-n-Butylphthalate	Annual	<1.0	<1.0	ug/l		1	no

iroundwater/Soil	monitoring template		Lic No:	W0022-01		Year	2012		
BH1	Di-n-octylphthalate	Annual	<1.0	<1.0	ug/I				no
BH1	Diphenylamine	Annual	<1.0	<1.0	ug/I				no
BH1	Hexachloroethane	Annual	<1.0	<1.0	ug/l				no
			<1.0	<1.0					
BH1	Indeno(1,2,3-c,d)pyrene	Annual			ug/I				no
BH1	Isophorone	Annual	<1.0	<1.0	ug/I				no
BH1	Nitrobenzene	Annual	<1.0	<1.0	ug/l				no
BH1	n-Nitrosodi-n- propylamine	Annual	<1.0	<1.0	ug/l				no
BH1	Acetone	Annual	<2.0	<2.0	ug/l				no
BH1	Dichloromethane	Annual	<5.0	<5.0	ug/l		10ug/l		no
BH1	Tetrahydrofuran	Annual	<0.5	<0.5	ug/l		1006/1		no
BH1	Toluene	Annual	<0.5	<0.5	ug/l				no
BH1	Xylene -o	Annual	<0.5	<0.5	ug/l		10ug/l		no
DIII	Dichlorodifluoromethan	Ailliuai	<1.0	<1.0	ug/i		10ug/1		110
BH1	e	Annual	11.0	1.0	ug/I				no
BH1	Chloromethane	Annual	<0.5	<0.5	ug/I				no
	5.1		<0.5	<0.5					
BH1	Ethyl Chloride/Chloroethane	Annual			ug/l				no
BH1	Vinyl Chloride	Annual	<0.5	<0.5	ug/l				no
BH1	Bromomethane	Annual	<0.5	<0.5	ug/l				no
DIII	Trichloromonofluoromet	Ailliaai	<0.5	<0.5	48/1				110
BH1	hane	Annual	40.0	40.0	ug/I				no
BH1	Ethyl Ether/Diethyl Ether	A	<0.5	<0.5					
BH1	11 Dichloroethene	Annual	<0.5	<0.5	ug/l ug/l				no no
рпт	Iodomethane/Methyl	Annual	<0.5	<0.5	ug/i				110
BH1	lodide	Annual	20.5	20.5	ug/l				no
BH1	Carbon Disulphide	Annual	<0.5	<0.5	ug/l				no
BH1	Allyl Chloride	Annual	<0.5	<0.5	ug/I				no
	Chlormethyl		<0.5	<0.5					
BH1	Cyanide/Chloroacetonitr	Annual			ug/l				no
BH1	Propanenitrile	Annual	<10.	<10.	ug/I				no
DUI	Trans-1,2	Alliludi	<0.5	<0.5	ug/i				110
BH1	Dichloroethene	Annual	20.5	20.5	ug/l				no
BH1	MtBE	Annual	<0.5	<0.5	ug/l				no
BH1	1,1-dichloroethane	Annual	<0.5	<0.5	ug/l				no
BH1	2,2-dichloropropane	Annual	<0.5	<0.5	ug/l				no
			<0.5	<0.5					
BH1	cis-12 Dichloroethene	Annual	<5.0	<5.0	ug/l				no
BH1	2-Butanone	Annual			ug/l				no
BH1	Methyl Acrylate	Annual	<0.5	<0.5	ug/l		1	1	no
BH1	Bromochloromethane	Annual	<0.5	<0.5	ug/I				no
BH1	Methacrylonitrile	Annual	<5.0	<5.0	ug/I				no
			<0.5	<0.5					
BH1	1,1,1-trichloroethane	Annual	105		ug/l				no
BH1	1-Chlorobutane	Annual	<0.5	<0.5	ug/l				no
BH1	Carbon Tetrachloride	Annual	<0.5	<0.5	ug/l				no
BH1	11 Dichloropropene	Annual	<0.5	<0.5	ug/l				no
BH1	1,2 dicloroethane	Annual	<0.5	<0.5	ug/l				no
BH1	1,2-dichloropropane	Annual	<0.5	<0.5	ug/l		10ug/l	 	no
BH1	Dibromomethane	Annual	<0.5	<0.5	ug/I		±Uug/1	 	no
							1	+	
BH1	Methyl Methacrylate	Annual	<0.5	<0.5	ug/l				no

uwa	ater/Soil m	onitoring temp	olate		Lic No:	W0022-01		Year	2012		
ВІ	BH1	13 Dichloropropene,cis		Annual	<2.0	<2.0	ug/l				no
Г.	1114	MIBK/4 Methyl 2		A	<2.0	<2.0	li				
В	BH1	Pentanone		Annual	<2.0	<2.0	ug/l				no
		13			~2.0	~2.0					
	BH1	Dichloropropene,trans		Annual			ug/l				no
	BH1	Ethyl Methacrylate		Annual	<2.0	<2.0	ug/l				no
_	BH1	112 Trichloroethane		Annual	<0.5	<0.5	ug/l				no
	BH1	1,3-dichloropropane		Annual	<0.5	<0.5	ug/l				no
	BH1	2-Hexanone		Annual	<1.0	<1.0	ug/l				no
_	BH1	1,2-dibromoethane		Annual	<0.5	<0.5	ug/l				no
BI	BH1	Chlorobenzene 1,1,1,2-		Annual	<0.5	<0.5	ug/l		1.0ug/l		no
ВІ	BH1	tetrachloroethane		Annual	<2.0	<2.0	ug/l				no
_	BH1	Ethylbenzene		Annual	<0.5	<0.5	ug/l		10ug/l		no
_	BH1	Xylene P&M		Annual	<0.5	<0.5	ug/l		- 0,		no
	BH1	Styrene		Annual	<0.5	<0.5	ug/I				no
_	BH1	Isopropylbenzene		Annual	<0.5	<0.5	ug/l				no
	BH1	Bromobenzene		Annual	<0.5	<0.5	ug/l				no
		1,1,2,2-			<0.5	<0.5					
ВІ	BH1	tetrachloroethane		Annual			ug/l				no
ВІ	BH1	1,2,3-trichloropropane		Annual	<2.0	<2.0	ug/I				no
ВІ	BH1	Trans 14 Dichloro 2 Butene, tran		Annual	<2.0	<2.0	ug/l				no
	BH1	Propylbenzene		Annual	<0.5	<0.5	ug/l				no
ВІ	BH1	2-chlorotoluene		Annual	<0.5	<0.5	ug/l				no
ВІ	BH1	4-chlorotoluene		Annual	<0.5	<0.5	ug/l				no
BI	BH1	1,3,5-trimethylbenzene		Annual	<0.5	<0.5	ug/I				no
_	BH1	Tert Butyl Benzene		Annual	<0.5	<0.5	ug/l				no
		,		7 1111001	<0.5	<0.5					
_	BH1	1,2,4-trimethylbenzene		Annual			ug/l				no
	BH1	sec-butylbenzene		Annual	<0.5	<0.5	ug/l				no
_	BH1	P Isopropyltoluene		Annual	<0.5	<0.5	ug/l				no
ВІ	BH1	N Butyl Benzene		Annual	<0.5	<0.5	ug/l				no
RI	3H1	1,2-dibromo-3- chloropropane		Annual	<2.0	<2.0	ug/l				no
					<0.5	<0.5					
_	BH1 BH1	1,2,3-trichlorobenzene Total Solids	+	Annual Annual	2124	2124	ug/l mg/l				no no
_	вн1 ВН1	Total Colifroms	+	Annual	2400	2400	MPN/100ML				no
DI	// II	Total Collitoriis	1	Ailliudi	1100	1100	IVII IV LOUVIL				110
ВІ	3H1	Faecal Coliforms		Annual	1100	1100	MPN/100ML				no
_	BH2	рН	METER	Quaterly	7.77		SELECT		9.5		no
	BH2	Temp	METER	Quaterly	19.4		SELECT				no
_	BH2	Elec.Conductivity	METER	Quaterly	608		SELECT		1000		no
ВІ	BH2	Chlorides	TITRATION	Quaterly	2300	1459			250	710%-	no
ВІ	3H2	Ammoniacal Nitorgen	ISE METER	Quaterly /Monthly	0.56	0.113	mg/l		0.02	92%-	no
ВІ	BH2	Iron		Annual	<20	<20	ug/l				no
	BH2	TON		Quaterly	2.1	1.69	mg/l			28%-	no
	BH2	тос	HACH	Quaterly	39	20				370%	
ВІ	BH2	Cadmium		Annual	0.1	0.1	ug/l		0.005mg/l		no
	3H2	Chromium (total)		Annual	3.2		ug/l	 	0.03mg/l	i –	no

water/30	il monitoring template		Lic No:	W0022-01		Year 2012				
BH2	Copper	Annual	0.003	0.003	ug/l		0.03mg/l		no	
BH2	Cyanide (Total)	Annual	<10.00	<10.01	ug/l		0.01mg/l		no	
BH2	Lead	Annual	<0.3	<0.4	ug/l		0.01mg/l		no	
BH2	Mangnesium	Annual	7.6	8.6	mg/l				no	
BH2	Manganese	Annual	<1.0	<1.1	ug/l		0.3mg/l		no	
BH2	Mercury	Annual	<0.02	< 0.03	ug/l		0.001mg/l		no	
BH2	Potassium	Quarterly	7	5.6	mg/l		5mg/l	62%-	no	
BH2	Sodium	Quarterly	26.2	22.2)		- 0/	84%-	no	
BH2	Sulphate	Annual	1.4	1.4	mg/I		200mg/l		no	
BH2	Total Alkalinity	Annual	294.5	294.5			J. O		no	
BH2	Total Phosphorus	Annual	0.07		mg/I				no	
BH2	Phenols	Annual	<1.0	<1.0	ug/l		0.5ug/l		no	
BH2	Acenaphthylene	Annual	<1.0	<1.0	ug/l				no	
BH2	Anthracene	Annual	<1.0	<1.0	ug/l				no	
BH2	Benzene	Annual	<1.0	<1.0	ug/l		10ug/l		no	
			<1.0	<1.0						
BH2	Bromodichloromethane	Annual			ug/l			1	no	
BH2	Bromoform	Annual	<1.0	<1.0	ug/l		12ug/l		no	
BH2	Chloroform	Annual	<1.0	<1.0	ug/l		12ug/l		no	
BH2	Chrysene	Annual	<1.0	<1.0	ug/l				no	
BH2	Dibromochloromethane	Annual	<1.0	<1.0	ug/l				no	
BH2	Fluoranthene		<1.0	<1.0	ug/l				no no	
BH2	Fluorene	Annual Annual	<1.0	<1.0	ug/l				no	
BH2	Naphthalene		<2.0	<2.0	ug/I					
BHZ	Naphthalene	Annual	<1.0	<1.0	ug/i		+		no	
BH2	Dibromochloromethane	Annual	<1.0	<1.0	ug/l				no	
BH2	Pentachlorophenol	Annual	<1.0	<1.0	ug/l		2.0ug/l		no	
BH2	Phenanthrene	Annual	<1.0	<1.0	ug/l				no	
BH2	Pyrene	Annual	<1.0	<1.0	ug/l				no	
BH2	Tetrachloroethene	Annual	<0.1	<0.1	ug/l				no	
BH2	Trichloroethene	Annual	<1.0	<1.0	ug/l				no	
BH2	Hexachlorobenzene	Annual	<1.0	<1.0	ug/l		0.03ug/l		no	
BH2	Hexachlorobutadiene	Annual	<0.1	<0.1	ug/l		0.10ug/l		no	
DUID		A 1	<1.0	<1.0						
BH2 BH2	2,4,6-Trichlorophenol	Annual	<<1.0	,<1.0	ug/I				no	
	2,4-Dichlorophenol	Annual	<1.0	,1.0	ug/I				no	
BH2	2,4-Dimethylphenol	Annual	<1.0	<1.0	ug/l		+	-	no	
BH2	2-Chlorophenol	Annual	<1.0	<1.0	ug/l			1	no	
BH2	1,2,4-trichlorobenzene	Annual	<1.0	<1.0	ug/l				no	
BH2	1,2-dichlorobenzene	Annual	<1.0	<1.0	ug/l				no	
BH2	1,3-dichlorobenzene	Annual	<1.0	<1.0	ug/l				no	
BH2	1,4-dichlorobenzene	Annual	<1.0	<1.0	ug/l				no	
BH2	2,4,5-Trichlorophenol	Annual	<1.0	<1.0	ug/l				no	
BH2	2,4-Dinitrotoluene	Annual	<1.0	<1.0	ug/l				no	
BH2	2,6-Dinitrotoluene	Annual	<1.0	<1.0	ug/l				no	
BH2	2-Chloronaphthalene	Annual	<1.0	<1.0	ug/l				no	
BH2	2-Methylnaphthalene	Annual	<1.0	<1.0	ug/l				no	
BH2	2-Methylphenol	Annual	<1.0	<1.0	ug/l			+	no	
BH2	2-Nitrophenol	Annual	<1.0	<1.0	ug/l		+		no	

dwater/Soi	il monitoring template		Lic No:	W0022-01	W0022-01		2012	2		
BH2	4-Bromophenyl Phenyl Ether	Annual	<1.0	<1.0	ug/l				no	
	4-Chloro-3-	, unidai	<1.0	<1.0	-ov					
BH2	methylphenol	Annual			ug/I				no	
BH2	4-Chlorophenyl phenyl ether	Annual	<1.0	<1.0	ug/l				no	
BH2	4-Nitrophenol	Annual	<5.0	<5.0	ug/l				no	
BH2	Acenaphthene	Annual	<1.0	<1.0	ug/l				no	
BH2	Benzo(a)anthracene	Annual	<1.0	<1.0	ug/l				no	
BH2	Benzo(a)pyrene	Annual	<1.0	<1.0	ug/l				no	
BH2	Benzo(b)fluoranthene	Annual	<1.0	<1.0	ug/l				no	
BH2	Benzo(g,h,i)perylene	Annual	<1.0	<1.0	ug/l				no	
BH2	Benzyl Butyl Phthalate	Annual	<1.0	<1.0	ug/I				no	
DITE	Benzyi Batyi i minanate	Aillidai	<1.0	<1.0	05/1				110	
55	Bis(2-		1							
BH2	chloroethoxy)methane	Annual	-1.0	-1.0	ug/l				no	
BH2	Bis(2-chloroethyl)ether	Annual	<1.0	<1.0	ug/I				no	
	/-		<1.0	<1.0						
BH2	Bis(2- chloroisopropyl)ether	Annual			ug/l				no	
	Bis(2-		<5.0	<5.0	O/ ·					
BH2	ethylhexyl)phthalate	Annual			ug/l				no	
BH2	Dibenz(a,h)anthracene	Annual	<1.0	<1.0	ug/I				no	
BH2	Dibenzofuran	Annual	<1.0	<1.0	ug/l				no	
BH2	Diethylphthalate	Annual	<1.0	<1.0	ug/l				no	
BH2	di-n-Butylphthalate	Annual	<1.0	<1.0	ug/l				no	
BH2	Di-n-octylphthalate	Annual	<1.0	<1.0	ug/l				no	
BH2	Diphenylamine	Annual	<1.0	<1.0	ug/l				no	
BH2	Hexachloroethane	Annual	<1.0	<1.0	ug/I				no	
BH2	Indeno(1,2,3-c,d)pyrene	Annual	<1.0	<1.0	ug/l				no	
BH2	Isophorone	Annual	<1.0	<1.0	ug/l				no	
BH2	Nitrobenzene	Annual	<1.0	<1.0	ug/l				no	
	n-Nitrosodi-n-		<1.0	<1.0	-					
BH2	propylamine	Annual	2.0	0.0	ug/I				no	
BH2	Acetone	Annual	<2.0	<2.0	ug/l		10		no	
BH2	Dichloromethane	Annual	<5.0	<5.0	ug/I		10ug/l		no	
BH2	Tetrahydrofuran	Annual	<0.5 <0.5	<0.5 <0.5	ug/l			1	no	
BH2	Toluene	Annual	<0.5 <0.5	<0.5 <0.5	ug/l		10.00/	1	no	
BH2	Xylene -o Dichlorodifluoromethan	Annual	<0.5	<0.5	ug/I		10ug/l		no	
BH2	e	Annual	1.0	1.0	ug/l				no	
BH2	Chloromethane	Annual	<0.5	<0.5	ug/l				no	
	Februal		<0.5	<0.5	_					
BH2	Ethyl Chloride/Chloroethane	Annual			ug/l				no	
BH2	Vinyl Chloride	Annual	<0.5	<0.5	ug/l			1	no	
BH2	Bromomethane	Annual	<0.5	<0.5	ug/l				no	
	Trichloromonofluoromet		<0.5	<0.5						
BH2	hane	Annual	<0.5	<0.5	ug/I				no	
BH2	Ethyl Ether/Diethyl Ether	Annual			ug/I				no	
BH2	11 Dichloroethene	Annual	<0.5	<0.5	ug/l				no	
BH2	lodomethane/Methyl lodide	Annual	<0.5	<0.5	ug/l				no	

ndwater/S	oil monitoring template		Lic No:	W0022-01		Year	2012		
BH2	Carbon Disulphide	Annual	<0.5	<0.5	ug/l				no
BH2	Allyl Chloride	Annual	<0.5	<0.5	ug/l				no
	Chlormethyl		<0.5	<0.5					
BH2	Cyanide/Chloroacetonitr	Annual			ug/l				no
BH2	Propanenitrile	Annual	<10.	<10.	ug/l				no
DITE	Trans-1,2	7 tilliaai	<0.5	<0.5	357 ·				110
BH2	Dichloroethene	Annual			ug/l				no
BH2	MtBE	Annual	<0.5	<0.5	ug/l				no
BH2	1,1-dichloroethane	Annual	<0.5	<0.5	ug/l				no
BH2	2,2-dichloropropane	Annual	<0.5	<0.5	ug/l				no
BH2	cis-12 Dichloroethene	Annual	<0.5	<0.5	ug/l				no
BH2	2-Butanone	Annual	<5.0	<5.0	ug/l				no
BH2	Methyl Acrylate	Annual	<0.5	<0.5	ug/l				no
			<0.5	<0.5					
BH2	Bromochloromethane	Annual	5.0	5.0	ug/l				no
BH2	Methacrylonitrile	Annual	<5.0	<5.0	ug/l				no
BH2	1,1,1-trichloroethane	Annual	<0.5	<0.5	ug/l				no
BH2	1-Chlorobutane	Annual	<0.5	<0.5	ug/I				no
			<0.5	<0.5					
BH2	Carbon Tetrachloride	Annual			ug/l				no
BH2	11 Dichloropropene	Annual	<0.5	<0.5	ug/l				no
BH2	1,2 dicloroethane	Annual	<0.5	<0.5	ug/l				no
BH2	1,2-dichloropropane	Annual	<0.5	<0.5	ug/I		10ug/l		no
BH2	Dibromomethane	Annual	<0.5	<0.5	ug/l				no
BH2	Methyl Methacrylate	Annual	<0.5	<0.5	ug/I				no
BH2	13 Dichloropropene,cis	Annual	<2.0	<2.0	ug/l				no
BH2	MIBK/4 Methyl 2 Pentanone	Annual	<2.0	<2.0	ug/I				no
			<2.0	<2.0					
DUID	13	A							
BH2 BH2	Dichloropropene,trans	Annual	<2.0	<2.0	ug/l ug/l				no
BH2	Ethyl Methacrylate	Annual	<0.5	<0.5					
	112 Trichloroethane 1,3-dichloropropane	Annual	<0.5	<0.5	ug/l				no
BH2 BH2	2-Hexanone	Annual	<1.0	<1.0	ug/l ug/l				no no
BH2	1,2-dibromoethane	Annual Annual	<0.5	<0.5	ug/I		+		no
BH2	Chlorobenzene	Annual	<0.5	<0.5	ug/I		1.0ug/l		no
DIIZ	1,1,1,2-	Ailliudi	<2.0	<2.0	ug/1		1.0ug/1		110
BH2	tetrachloroethane	Annual	~2.0		ug/l				no
BH2	Ethylbenzene	Annual	<0.5	<0.5	ug/l		10ug/l		no
BH2	Xylene P&M	Annual	<0.5	<0.5	ug/l				no
BH2	Styrene	Annual	<0.5	<0.5	ug/l				no
BH2	Isopropylbenzene	Annual	<0.5	<0.5	ug/l				no
BH2	Bromobenzene	Annual	<0.5	<0.5	ug/l				no
BH2	1,1,2,2- tetrachloroethane	Annual	<0.5	<0.5	ug/l				no
BH2	1,2,3-trichloropropane	Annual	<2.0	<2.0	ug/I				no
	Trans 14 Dichloro 2	,	<2.0	<2.0					
BH2	Butene, tran	Annual			ug/l				no
BH2	Propylbenzene	Annual	<0.5	<0.5	ug/l				no
BH2	2-chlorotoluene	Annual	<0.5	<0.5	ug/l				no
BH2	4-chlorotoluene	Annual	<0.5	<0.5	ug/l				no

Groundwater/So	oil monitoring template		Lic No:	W0022-01		Year	2012	
BH2	1,3,5-trimethylbenzene	Annual	<0.5	<0.5	ug/l			no
BH2	Tert Butyl Benzene	Annual	<0.5	<0.5	ug/l			no
BH2	1,2,4-trimethylbenzene	Annual	<0.5	<0.5	ug/l			no
BH2	sec-butylbenzene	Annual	<0.5	<0.5	ug/l			no
BH2	P Isopropyltoluene	Annual	<0.5	<0.5	ug/l			no
BH2	N Butyl Benzene	Annual	<0.5	<0.5	ug/l			no
BH2	1,2-dibromo-3- chloropropane	Annual	<2.0	<2.0	ug/l			no
BH2	1,2,3-trichlorobenzene	Annual	<0.5	<0.5	ug/l			no
BH2	Total Solids	Annual	2124	2124	mg/l			no
BH2	Total Colifroms	Annual	2400	2400	MPN/100ML			no
			1100	1100)			
BH2	Faecal Coliforms	Annual			MPN/100ML			no

Comment

Environmental Liabilities template Lic No: W0022-01 Year 2012

Click here to access EPA guidance on Environmental Liabilities and Financial provision

			Commentary
1	ELRA initial agreement status	Submitted and not agreed by EPA;	Closed Feb 2007
2	ELRA review status	SELECT	
			Continued Local Authority Responsibility as covered under the Annual Budget of
3	Amount of Financial Provision cover required as determined by the latest ELRA	Specify	Costs.
4	Financial Provision for ELRA status	SELECT	
5	Financial Provision for ELRA - amount of cover	Specify	
6	Financial Provision for ELRA - type	SELECT	
7	Financial provision for ELRA expiry date	Enter expiry date	
8	Closure plan initial agreement status	SELECT	
9	Closure plan review status	SELECT	
10	Financial Provision for Closure status	SELECT	
11	Financial Provision for Closure - amount of cover	Specify	
12	Financial Provision for Closure - type	SELECT	
13	Financial provision for Closure expiry date	Enter expiry date	

	Environmental Management Programme/Continuous Improvement Programme	template	Lic No:	W0022-01	Ye
	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	Yes	2008. It includes sections on description, Types of was Engineering details, Control	ed on site on an annual basis since Use of manual, Site location and te accepted and procedures, of nuisance and Environmental stem requirements.	
2	Does the EMS reference the most significant environmental aspects and associated impacts on-site	Yes			
3	Does the EMS maintain an Environmental Management Programme (EMP) as required in accordance with the licence requirements	Yes			
4	Do you maintain an environmental documentation/communication system to inform the public on environmental performance of the facility, as required by the licence	Yes			

Environmental Management Programme (EMP) report							
Objective Category	Target	Status (% completed)	How target was progressed	Responsibility	Intermediate outcomes		
			Improvement of gas				
	Maintain Low complaint		extraction system and				
Reduction of emissions to Air	numbers against the facility		operation	Individual	Reduced emissions		
			Improvement of Civic				
			Amenity Site layout and				
	Improve annual recycling		improved maintenance of				
Materials Handling/Storage/Bunding	rate by 5%	90	existing infrastructure	Individual	Installation of infrastructure		
			Liasing with Security				
			Company and An Gardaí				
			Síochana to deter would-be		Improved Environmental		
Additional improvements	Improve Site security	100	intruders	Individual	Management Practices		
	To control environmental		Reduction of waste intake,		Increased compliance with		
Additional improvements	nuisances at the facilty	80	improved site practises	Individual	licence conditions		
	Review the closure						
	modifications of the Waste		Improvement of site practise				
	Licence following the		to ensure minimal interaction				
	closure of landfill in Feb		with surrounding		Increased compliance with		
Additional improvements	2007	15	environment	Individual	licence conditions		

	N	oise monitor	ing summary	report			Lic No:	W0022-01	Year	2012	
	/as noise monitoring a licence requirement for the AER period? yes please fill in table N1 noise summary below							Yes]		
2 Was noise monitoring carried out using the EPA Guidance note including completion of the					Noise Guidance note NG4	No					
3 Does your site	e have a noise re	duction plan						No			
	e noise reduction										
Have there b	oeen changes relo	evant to site nois	e emissions (e.g. survey?	plant or ope	rational cha	nges) since t	he last noise	No			
Table N1: Noi	ise monitoring s	ummary									
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)?
19/10/2012	30min	N1		44	46	36		No	No	No noise from landfill site. External noise from road, nature and over head planes	Yes
19/10/2012	30min	N3		44	45	38		No	No	No noise from landfill site. External noise from road and over head planes and nature	Yes
19/10/2012	30min	N4		50	52	42		No	No	No noise from landfill site. External noise from road, nature and over head planes	Yes
						_	_				

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

SELECT

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

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

Monitoring was also carried out in accordance with Section 7 'Environmental Noise Surveys' of the EPA's 2012 'Guidance Note for Noise: Licence Applications, Surveys and Assessments in Relation to Scheduled Activities' (NG4) except for Section 7.2 'Survey Methodologies and Assessment Procedures' where only a single sampling event was carried by the consultant at CORK Co.Co. request.

Resource Usage/Energy efficiency summary	Lic No:	W0022-01	Year	2012	

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

SEAI - Large Industry Is the site a member of any accredited programmes for reducing energy usage/water conservation such Energy Network (LIEN)

as the SEAI programme linked to the right? If yes please list them in additional information

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

	Additional information
no	
SELECT	N/A

Table R1 Energy usag	e on site			
Energy Use	Previous year		compared to previous reporting	Energy Consumption +/- % vs overall site production*
Total Energy Used (MWHrs)	87.609	70.093	-20%	
Total Energy Generated (MWHrs)				
Total Renewable Energy Generated (N	/WHrs)			
Electricity Consumption (MWHrs)	87.609	70.093	-20%	
Fossil Fuels Consumption:				
Heavy Fuel Oil (m3)	1	0.85	-15%	
Light Fuel Oil (m3)	120	100	-20%	
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		
	Water extracted			Energy Consumption +/- % vs overall site	Volume Discharged back to	Volume used i.e not discharged to environment e.g. 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	250	238	-5%	N/A	238	N/A	(
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)					

Resource Usage/Energy efficiency summary Lic No: W0022-01 Year 2012 Table R4: Energy Audit finding recommendations Description of Predicted energy Status and Measures proposed Origin of measures savings % Date of audit Recommendations Implementation date Responsibility Completion date 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 informati

	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:	W0022-01	Year	2012	
Complaints					
	Additional infor	rmation			
Have you received any environmental complaints in the current reporting year? If yes please complete summary details of complaints received on site in table 1 below	y No				

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

year
Total number of incidents previous year
% reduction/

increase

64% reduction

Incidents														
		incidents			Additional informa	I ation								
Have any incidents	occurred on site in the current repor	• ,	ents for current reporting	Yes										
	*For information on how to report and what constitutes an incident Table 2 Incidents summary					•								
						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
11/01/2012	Other(flare outage)	Other location (flare compou	1. Minor	Air	Other	poor gas quality	Normal activities	EPA	Recurring	Gas Field balanced		Complete	13/01/2012	High
26/02/2012	Other(flare outage)	Other location (flare compou	1. Minor	Air	Other	poor gas quality	Normal activities	EPA	Recurring	Gas Field balanced		Complete	27/02/2012	High
04/03/2012	Other(flare outage)	Other location (flare compou	1. Minor	Air	Other	poor gas quality	Normal activities	EPA	Recurring	Gas Field balanced		Complete	05/03/2012	High
02/08/2012	Other(flare outage)	Other location (flare compou	1. Minor	Air	Other	poor gas quality	Normal activities	EPA	Recurring	Gas Field balanced		Complete	15/08/2012	High
27/08/2012	Other(flare outage)	Other location (flare compou	1. Minor	Air	Other	poor gas quality	Normal activities	EPA	Recurring	Gas Field balanced		Complete	27/08/2012	High
Total number of														
incidents current														

WASTE SUMMARY	Lic No:	W0022-01	Year 201	.2	
SECTION A-PRTR ON SITE WASTE TREATMENT AND WASTE TRANSFERS TAB- TO I	BE COMPLETED BY ALL IPPC AND WASTE FACILITIES	PRTR facility logon	dropdown list click to see options		<u> </u>
Within the Country 13 02 08 Yes	other engine, gear and 3.48 lubricating oils R9	M Weighed	Offsite in Ireland Enva Ltd,W184-01	Clonminam Industrial Estate,.",Portlaoise,Co Laois,Ireland Enva Ltd,W184-01	Clonminam Industrial Estate,".",Portl e,Co Laois,Irela
Within the Country of 5 04 04	paper and cardboard	M Weighed	Officia is belond	Corbally North, Srasfields Court, Glanmire, Co	
Within the Country 15 01 01 No	56.0 packaging R3	M Weighed	Offsite in Ireland greenstar Ltd,W136-02 Green Dragon Recycling	Cork,Ireland Corbally North,Sarsfields Court,Glanmire,Co	
Within the Country 15 01 02 No	13.0 plastic packaging R5	M Weighed	Offsite in Ireland Ltd,CK/09/0629/01	Cork,Ireland Luddenmore,Grange,Kilm	
Within the Country 15 01 04 No	1.0 metallic packaging R4	M Weighed	Offsite in Ireland Mr Binman,W0061-01	allock,Co Limerick,Ireland Luddenmore,Grange,Kilm	
Within the Country 15 01 07 No	23.0 glass packaging R5	M Weighed	Offsite in Ireland Mr Binman,W0061-01	allock,Co Limerick,Ireland Cappincur Industrail Estate,Daingean Rd,Tullamore,Co KMK Metals	Cappincur Industrail Estate,Daingea Rd,Tullamore,C
Within the Country 16 06 01 Yes	2.262 lead batteries R6 alkaline batteries	M Weighed	Offsite in Ireland KMK Metals Ltd,W0133-03	Offaly, Ireland Ltd, W0133-03 Cappincur Industrail Estate, Daingean Rd, Tullamore, Co	Offaly,Ireland
Within the Country 16 06 04 No	0.0 (except 16 06 03) R13 mixture of concrete, bricks, tiles and ceramics other than	M Weighed	Offsite in Ireland KMK Metals Ltd,W0133-03	Offaly, Ireland	
Within the Country 17 01 07 No	those mentioned in 17 453.0 01 06 D5	M Weighed	Offsite in Ireland Youghal Landfill,W0068-03	Mudlands,Foxhole,Yough al,Co Cork,Ireland Wastewater Treatment Plant,Tullagreen,Carrigtw	
Within the Country 19 07 03 No	landfill leachate other than those mentioned 6541.4 in 19 07 02 D8	M Weighed	Carrigtwohill Wastewater Offsite in Ireland Treatment Plant, D0044-01	ohill Wastewater Treatment Plant,Co Cork,Ireland Corbally North,Srasfields	
Within the Country 20 01 01 No	66.0 paper and cardboard R3	M Weighed	Offsite in Ireland greenstar Ltd,W136-02	Court,Glanmire,Co Cork,Ireland 41-42 Cookstown Industrial Estate,Tallaght,Dublin,D2	
Within the Country 20 01 02 No	9.0 glass R5	M Weighed	Offsite in Ireland MSM Recycling Ltd,W0079-01 Textile Recycling Ltd,WCP-DC-0	4,Ireland Glen Abbey Business	
Within the Country 20 01 11 No	3.0 textiles R5	M Weighed	Offsite in Ireland 1225-01	Ireland Cappincur Industrail	Cappincur Industrail
Within the Country 20 01 23 Yes	discarded equipment containing 0.0 chlorofluorocarbons R4	M Weighed	Offsite in Ireland KMK Metals Ltd,W0133-03	Estate, Daingean Rd, Tullamore, Co Offaly, Ireland Ltd, W0133-03	Estate,Daingea Rd,Tullamore, Offaly,Ireland
Within the Country 20 01 28 No	paint, inks, adhesives and resins other than those mentioned in 20 17.03 01 27 R1	M Weighed	Offsite in Ireland Enva Ltd,W184-01	Clonminam Industrial Estate,".",Portlaoise,Co Laois,Ireland	
	discarded electrical and electronic equipment other than those mentioned in 20 01 21			Cappincur Industrail	Cappincur Industrail
Within the Country 20 01 35 Yes	and and 20 01 23 containing hazardous 0.0 components R4	M Weighed	Offsite in Ireland KMK Metals Ltd, W0133-03	Estate, Daingean Rd, Tullamore, Co KMK Metals Offaly, Ireland Ltd, W0133-03	Estate,Dainge Rd,Tullamore Offaly,Ireland

MAKE CHIRARA	w							
WASTE SUMMAR	Y		Lic No:	W0022-0	1	Year	20	12
			discarded electrical and					
			electronic equipment					Cappincur Industrail
			other than those					Estate, Daingean
			mentioned in 20 01 21,					Rd,Tullamore,Co
Within the Country	20 01 36	No	0.0 20 01 23 and 20 01 35 R4	М	Weighed	Offsite in Ireland	KMK Metals Ltd.W0133-03	Offaly,Ireland
within the Country	20 01 30	INO	0.0 20 01 23 and 20 01 33 K4	IVI	weighed	Offsite in freiand	KIVIK IVIETAIS Etu, WO133-03	Orraly, ireland
			discarded electrical and					
			electronic equipment					Cappincur Industrail
			other than those					Estate, Daingean
			mentioned in 20 01 21,					Rd,Tullamore,Co
Within the Country	20 01 36	No	0.0 20 01 23 and 20 01 35 R4	M	Weighed	Offsite in Ireland	KMK Metals Ltd,W0133-03	Offaly,Ireland
								Tait's
			wood other than that				CTO Environmental Solutions	Farm,Rostellan,Midleton,
Within the Country	20 01 38	No	254.0 mentioned in 20 01 37 R13	M	Weighed	Offsite in Ireland	Ltd,CK/09/0018/02	Co Cork,Ireland
								Pouladuff
							Pouladuff Dismantlers	Rd,Togher,Cork,Cork,Irela
Within the Country	20 01 40	No	116.0 metals R4	M	Weighed	Offsite in Ireland	Ltd,CK/0584/01	nd
								Mudlands,Foxhole,Yough
Within the Country	20 03 01	No	0.0 mixed municipal waste D1	M	Weighed	Offsite in Ireland	Youghal Landfill,W0068-03	al,Co Cork,Ireland
								Corbally North, Srasfields
								Court,Glanmire,Co
Within the Country	20 03 01	No	845.0 mixed municipal waste D5	M	Weighed	Offsite in Ireland	greenstar Ltd,W136-02	Cork,Ireland
								Kilberry,Athy,Co
Within the Country	20 02 01	No	257.0 biodegradable waste R3	M	Weighed	Offsite in Ireland	Bord na Mona,W0198-01	Kildare,Kildare,Ireland

Within the Country	20 03 01	No		mixed municipal waste		М	Weighed	Offsite in Ireland	greenstar Ltd,W136-02	Corbally North, Srasfields Court, Glanmire, Co Cork, Ireland Kilberry, Athy, Co	
Within the Country	20 02 01	No	257.0	biodegradable waste	R3	М	Weighed	Offsite in Ireland	Bord na Mona,W0198-01	Kildare,Kildare,Ireland	
SECTION R. WAST	TE ACCEPTED ONTO SITE-TO	RE COMPLETED BY ALL IS	DC AND WASTE EACH	LITIES		1					
SECTION B- WAST	TE ACCEPTED ONTO SITE-TO	DE COMPLETED BY ALL IP	PC AND WASTE FACI	LITIES			Additional Information	in			
	oted onto your site for recovery or di	sposal or treatment prior to reco	very or disposal within the b	oundaries of your facilit	y ?; (waste generated within your	No					
If yes please enter deta	ils in table 1 below							•			
2.00	and the state of the state of the state of	215		and the state of a state of the form		N.					
2 Did your site have any i	rejected consignments of waste in th	ne current reporting year? If yes p	lease give a brief explanatio	in in the additional inforr	nation	No					
3 Was wa	iste accepted onto your site that was	s generated outside the Republic	of Ireland? If yes please stat	e the quantity in tonnes	in additional information	No					
					ide wastes generated at you		ese will have b	een reported in y	our PRTR workbook)		
Licenced annual tonnage limit for your site (total tonnes/annum)	EWC code	Source of waste accepted		Quantity of waste accepted in current reporting year (tonnes)	Quantity of waste accepted in previous reporting year (tonnes)	Reduction/Incr ease over previous year +/-%	Reason for reduction/increase from previous reporting year	Packaging Content (%)- only applies if the waste has a packaging component	Disposal/Recovery or treatment operation carried out at your site and the description of this operation	Quantity of waste remaining on site at the end of reporting year (tonnes)	Comments -
tonnesyamianiy			which applies to			1,7 = 76	reporting year	component	орегасіон	(tornies)	
	European Waste Catalogue EWC codes		European Waste Catalogue EWC codes								
	<u>coucy</u>		<u>catalogue evve todes</u>								
	+										
	•	•			•				•		
SECTION C.TO BE	COMPLETED BY ALL WASTE	EACH ITIES (waste transfe	er stations Composte	re Material recove	ery facilities etc) EXCEPT LANDF	III SITES					
SECTION C-10 BE	COMPLETED DI ALL WASIL	TACILITIES (Waste transit	ar stations, composte	ers, iviaterial recove	ery racingles etc/ Excel i LANDI	ILL SITES					
							ı			٦	
4 Is all waste processing i	infrastructure as required by your lic	ence and approved by the Agenc	in place? If no please list w	raste processing infrastru	icture required onsite	SELECT					
					,	SELECT				1	
5 Is all waste storage infr	astructure as required by your licence	e and approved by the Agency in	place? If no please list wast	e storage infrastructure	required on site	SELECT]	
6. Door your facility have	relevant nuisance controls in place?					SELECT	1			1	
	management system in place for you					SELECT				1	
8 Do you maintain a slud						SELECT		-			

 WASTE SUMMARY
 Lic No:
 W0022-01
 Year
 2012

SECTION D-TO BE COMPLETED BY LANDFILL SITES ONLY

Table 2 Waste type and tonnage-landfill only

Waste types permitted for disposal	Authorised/licenced annual intake for disposal (tpa)	Actual intake for disposal in reporting year (tpa)	Remaining licensed capacity at end of reporting year (m3)	Comments
Household	68,200	0		Site Closed Feb 2007
Commercial	21,400	0	0	
Construction & Dem	13,800	0		
Industrial	7.800	0	1	

Table 3 General information-Landfill only

Area ID	Date landfilling commenced	Date landfilling commenced Date landfilling ceased	Currently landfilling	Private or Public Operated	Inert or non-hazardous	Predicted date to cease landfilling	Licence permits asbestos	Is there a separate cell for asbestos?	Accepted asbestos in reporting year	Total disposal area occupied by waste	Lined disposal area occupied by waste	Unlined area
										SELECT UNIT	SELECT UNIT	SELECT UNIT
ite Closed Feb 2007												

WASTE SUMMARY Lic No: W0022-01 Year 2012

Table 4 Environmental monitoring-landfill onl Landfill Manual-Monitoring Standards

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

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

Table 5 Capping-Landfill only

r	**	Area with temporary cap m2	Area with final cap to LD Standard m2 ha, a	Area capped other	Area with waste that should be permanently capped to date under licence	What materials are used in the cap	Comments
Г						1mm HDPE welded liner, geotextile	
						drainage layer and protection barrier	
ı						covered with 1m of suitable, screened	
L	0	0	65760m2	0	65760m2	soil.	

*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

Yes No

			Leachate (NH4) mass	Leachate (Chloride)		Specify type of leachate	
reporting year(m3)	(kg/annum)	(kg/annum)	load (kg/annum)	mass load kg/annum	Leachate treatment on-site	treatment	Comments
						Wastewater	
						Treatment	
						Plant with	
						Mixing tank,	
						Oxidation ditch	
						& Settlement	
6541.4	399.03	10891.43	3206.59	8955.18	No	tanks	

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
	_			
				Gas captured figure is
				Annual Methane burn-
				off in kg/annum. Areas
				of elevated VOC's are
				identified by the
				surveys and are
				attended to by site
361334 kg CH4/annum	0	0	Yes	staff.