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> 2013 W0068-03 Youghal Landfill Foxhole, Youghal, co.Cork 3821 5(c), 5(d), 50.1 2100E 0800N

Youghal landfill accepted waste at the facility until February 2012. Since that date only cover material (soil and stones) and road building material (suitable C&D material) has been accepted to allow for a "pre-capping" profile to be constructed on Cell 9. This work is continued into 2013 and a void of 200m3 is still available whenever the management of the facility decide to fill it. A capping design is currently being investigated. The environmental performance of the facility has continued to improve in comparison with previous years. The number of odour complaints plummeted from 76 in 2011 to 4 in 2012. The gas extraction system has continued to perform well with 2 enclosed flares burning off the gas generated. The daily attendance and well leachate removal has ensured increased effective length of the gas wells and, hence, the proper functioning of the system. Minor exceedences have again been measured in the perimeter gas wells but are explained by the estuarine conditions that account for naturally occuring CO2. Both Leachate and groundwater results are similar to previous years. The noise survey was compliant for the year as would be expected with the removal of the 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.

	26/03/2014
Signature	Date
Grc PONell	
experienced deputy)	

AIR-summary template	Lic No:	W0068-03	Year	2013

Answer all questions and complete all tables where relevant

Additional 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 not complete a solvent management plan (table A4 and A5) you <u>do not</u> need to complete the tables

Yes		
res		

	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	
3	Basic air Was all monitoring carried out in accordance with EPA guidance monitoring note AG2 and using the basic air monitoring checklist? checklist AGN2	Yes	

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

										Comments - reason for change in %
			FINCE Researces							mass load
Emission			ELV in licence or			Unit of	Compliant with			from
	Deremeter/ Cubatanaa	Frequency of	any revision	Lissnes Compliance esiteria	Maggurgelug		Compliant with			previous year
reference no:	Parameter/ Substance	Monitoring	therof	Licence Compliance criteria	Measured value		licence limit	Method of analysis		if applicable
					1448820					load refers to
Flare Stack	Methane (CH4)	Continuous	N/A	SELECT		m3	yes	MAB	203755	difference
					1506283					Annual mass
										load refers to
Flare Stack	Carbon dioxide (CO2)	Continuous	N/A	SELECT			yes	ISO 12039:2001	1769598	difference
				No 30min mean can exceed	17.98					
Flare Stack	Carbon monoxide (CO)	Continuous	<50mg/Nm3	the ELV		mg/Nm3	yes	ISO 12039:2001	61.24	
	Nitrogen oxides			No 30min mean can exceed	106.65					
Flare Stack	(NOx/NO2)	Annual	<150mg/Nm3	the ELV		mg/Nm3	yes	EN 14792:2005	365.75	
	Sulphur oxides				99.65					
Flare Stack	(SOx/SO2)	Annual	N/A			mg/Nm3	yes	EN 14791:2005	340.77	

	AIR-summary template	Lic No:	W0068-03	Year	2013
	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 A2 and compare it to its relevant Emission Limit Value (ELV)		-		
5	Did continuous monitoring equipment experience downtime? If yes please record downtime in table A2 below	Yes			
6	Do you have a proactive service agreement for each piece of continuous monitoring equipment?	Yes			
7	Did your site experience any abatement system bypasses? If yes please detail them in table A3 below Table A2: Summary of average emissions -continuous monitoring	No			

Emission	Parameter/ Substance		Averaging Period	Compliance Criteria	Units of	Annual Emission	Annual maximum	Monitoring	Number of ELV	Comments	
reference no:					measurement			Equipment	exceedences in		
								downtime (hours)	current		
		ELV in licence or any							reporting year		
		revision therof									
Flare Stack	PRTR	N/A	12 month	100 % of values < ELV	m3			279.5	0	Have recorded	d the combined annual downtime of both Flares at Youghal Landfill in
	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 1	emplate				Lic No:	W0068-03		Year	2013	-
	Solvent	use and manageme	nt on site								
8 ()o you have a tota	l Emission Limit Value of d	lirect and fugitive emi	ssions on site? if ye	s please fill out tables A4 and A5			No			
		ent Management Pla ssion limit value	an Summary	<u>Solvent</u> 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 (direct and fugitive)	emissions as %of solvent input	Total Emission Limit Value (ELV) in licence or any revision therof	Compliance					
						SELECT					
						SELECT	J				
Ļ	Table A5:	Solvent Mass Balan	ce summary							1	
		(I) Inputs (kg)			(0)	Outputs (kg)					
	Solvent	(I) Inputs (kg)	Organic solvent emission in waste	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			

this section. The emissions totals have been submitted in the above table.

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

Year

2013

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 <u>only</u> need to complete table W1 and or W2 for storm water analysis and visual inspections

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>

Table W1 Storm 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		рН	Quarterly	No ELV or trigger levels	N/A	7.79	pH units	yes	Median Vaulue for 20
SW1	upstream		Temperature	Quarterly	No ELV or trigger levels	N/A	5.8	degrees C	yes	Median Vaulue for 20
SW1	upstream		Conductivity	Quarterly	No ELV or trigger levels	N/A	7,670	μS/cm@25oC	yes	Median vaule for 20: SW1 is infulenced b saline waters.
SW1	upstream		Dissolved Oxygen	Quarterly	No ELV or trigger levels	N/A	10.84	mg/L	yes	Median Vaulue for 2
SW1	upstream	Chlorides (as Cl)		Quarterly	No ELV or trigger levels	N/A	4265.83	mg/L	yes	Median vaule for 20 SW1 is infulenced I saline waters.
SW1	upstream		BOD	Quarterly	No ELV or trigger levels	N/A	1.75	mg/L	yes	Median Vaulue for 2
SW1	upstream		COD	Quarterly	No ELV or trigger levels	N/A	8.5	mg/L	yes	Median Vaulue for 2
SW1	upstream		Ammonia (as N)	Quarterly	No ELV or trigger levels	N/A	0.63	mg/L	yes	Median Vaulue for 2
SW1	upstream		Suspended Solids	Quarterly	No ELV or trigger levels	N/A	30.75	mg/L	yes	Median Vaulue for 2
SW1	upstream	Chromium and compounds (as Cr)		Annual	No ELV or trigger levels	N/A	<20	μg/L	yes	Annual result
SW1	upstream	Copper and compounds (as Cu)		Annual	No ELV or trigger levels	N/A	<20	mg/L	yes	Annual result
SW1		Cadmium and compounds (as Cd)		Annual	No ELV or trigger levels		<20	-		Annual result
SW1	upstream	cadmium and compounds (as cd)	Iron	Annual	No ELV or trigger levels	N/A	98	μg/L	yes	Annual result
SW1	upstream		Iron	Annual	No ELV or trigger levels	N/A	<20	μg/L	yes	Annual result
SW1	upstream	Lead and compounds (as Pb)		Annual	No ELV or trigger levels	N/A	27.9	μg/L	yes	Annual result
SW1	upstream		Magnesium	Annual	No ELV or trigger levels		28	mg/L	yes	Annual result
SW1	upstream		Manganese (as Mn)	Annual	No ELV or trigger levels	N/A	<0.1	μg/L	yes	Annual result
SW1	upstream	Mercury and compounds (as Hg)		Annual	No ELV or trigger levels	N/A	18.5	μg/L	yes	Annual result
SW1	upstream		Potassium	Annual	No ELV or trigger levels	N/A	28.42	mg/L	yes	Annual result
SW1	upstream		Sulphate Total Oxidised Nitrogen	Annual	No ELV or trigger levels	N/A	5.04	mg/L	yes	Annual result
SW1	upstream		(TON)	Annual	No ELV or trigger levels	N/A	<20	mg/L	yes	Annual result
SW1	upstream	Zinc and compounds (as Zn)				N/A	0.16	μg/L	yes	
SW1	upstream	Total phosphorus		Annual Quarterly	No ELV or trigger levels	N/A	7.42	mg/L	yes	Annual result Median Vaulue for 2
SW2	downstream		pH		No ELV or trigger levels	N/A		pH units	yes	
5W2	downstream		Temperature	Quarterly	No ELV or trigger levels	N/A	5	degrees C	yes	Median Vaulue for 2 Median vaule for 20
SW2	downstream		Conductivity	Quarterly	No ELV or trigger levels	N/A	1,800	μS/cm@25oC	yes	SW2 is infulenced saline waters.
SW2	downstream		Dissolved Oxygen	Quarterly	No ELV or trigger levels	N/A	7.82	mg/L	yes	Median Vaulue for 2
SW2	downstream	Chlorides (as Cl)		Quarterly	No ELV or trigger levels	N/A	5955.09	mg/L	yes	Median vaule for 20 SW2 is infulenced saline waters.
SW2	downstream		BOD	Quarterly	No ELV or trigger levels	N/A	5.17	mg/L	yes	Median Vaulue for 2
SW2	downstream		COD	Quarterly	No ELV or trigger levels	N/A	760	mg/L	yes	Median Vaulue for 2
SW2	downstream		Ammonia (as N)	Quarterly			3.85	mg/L	yes	Median Vaulue for 2
SW2	downstream		Suspended Solids	Quarterly			59.75	mg/L	yes	Median Vaulue for 2
					1				,	
SW2	downstream	Chromium and compounds (as Cr)		Annual	No ELV or trigger levels	N/A	<20	μg/L	yes	Annual result

Lic No:

No

W0068-03

Additional information

	ng returns su	mmary template-W	ATER/WASTEW	ATER(SEWER)		Lic No:	W0068-03		Year	2013
SW2	downstream	Cadmium and compounds (as Cd)		Annual	No ELV or trigger levels	N/A	<20	μg/L	yes	Annual result
SW2	downstream		Iron	Annual	No ELV or trigger levels	N/A	272	μg/L	yes	Annual result
SW2	downstream	Lead and compounds (as Pb)		Annual	No ELV or trigger levels	N/A	<20	μg/L	yes	Annual result
SW2	downstream		Magnesium	Annual	No ELV or trigger levels	N/A	247	mg/L	ves	Annual result
SW2	downstream		Manganese (as Mn)	Annual	No ELV or trigger levels	N/A	936	μg/L	ves	Annual result
SW2	downstream	Mercury and compounds (as Hg)		Annual	No ELV or trigger levels	N/A	<0.1	μg/L	ves	Annual result
SW2	downstream		Potassium	Annual	No ELV or trigger levels	N/A	30.1	mg/L	ves	Annual result
SW2	downstream		Sulphate	Annual	No ELV or trigger levels	N/A	413.41	mg/L	ves	Annual result
SW2	downstream		Total Oxidised Nitrogen (TON)	Annual	No ELV or trigger levels	N/A	1.36	mg/L	yes	Annual result
SW2	downstream	Zinc and compounds (as Zn)	(1014)	Annual	No ELV or trigger levels	N/A N/A	<20	μg/L	yes	Annual result
SW2	downstream	Total phosphorus		Annual	No ELV or trigger levels	N/A	0.23	μg/L mg/L		Annual result
SW3	downstream	rotal phosphorus	РН	Quarterly	No ELV or trigger levels	N/A N/A	8.03		yes	Median Vaulue for 2013
SW3			Temperature	Quarterly	No ELV or trigger levels		4.4	pH units	yes	Median Vaulue for 2013
SW3	downstream			Quarterly	No ELV or trigger levels	N/A	3793	degrees C	yes	Median Vaulue for 2013
SW3	downstream		Conductivity Dissolved Oxygen	Quarterly	No ELV or trigger levels	N/A	10.14	μS/cm@25oC	yes	Median Vaulue for 2013
SW3	downstream	Chlorides (as Cl)	Dissolved Oxygen	Quarterly	No ELV or trigger levels	N/A	5354	mg/L	yes	Median Vaulue for 2013
SW3	downstream	Chlorides (as Cl)	BOD	Quarterly	No ELV or trigger levels	N/A	68.33	mg/L	yes	Median Vaulue for 2013
SW3	downstream			Quarterly	No ELV or trigger levels	N/A	859.5	mg/L	yes	Median Vaulue for 2013
SW3	downstream		COD Ammonia (as N)	Quarterly	No ELV or trigger levels	N/A N/A	2.7	mg/L	yes	Median Vaulue for 2013
SW3	downstream			Quarterly	No ELV or trigger levels		132.75	mg/L	yes	Median Vaulue for 2013
SW3	downstream		Suspended Solids	Annual	No ELV or trigger levels	N/A	<20	mg/L	yes	Annual result
SW3	downstream	Chromium and compounds (as Cr)		Annual	No ELV or trigger levels	N/A	<20	μg/L	yes	Annual result
SW3	downstream	Copper and compounds (as Cu)		Annual	No ELV or trigger levels	N/A	<20	mg/L	yes	Annual result
SW3	downstream	Cadmium and compounds (as Cd)		Annual	No ELV or trigger levels	N/A	36	μg/L	yes	Annual result
SW3	downstream		Iron	Annual		N/A	<20	μg/L	yes	Annual result
5W3	downstream	Lead and compounds (as Pb)		Annual	No ELV or trigger levels	N/A	<20	μg/L	yes	Annual result for 2013
SW3	downstream		Magnesium	Annual	No ELV or trigger levels	N/A	1254	mg/L	ves	Annual result for 2013. EQS limit is 50 mg/l.Elevated levels are consistent with previous years and are due to the geology of the site.
SW3	downstream		Manganese (as Mn)	Annual	No ELV or trigger levels	N/A	<20	μg/L	ves	Annual result
SW3	downstream	Mercury and compounds (as Hg)		Annual	No ELV or trigger levels	N/A	<0.1	μg/L	ves	Annual result
SW3	downstream		Potassium	Annual	No ELV or trigger levels	N/A	19.5	mg/L	ves	Annual result
SW3	downstream		Sulphate	Annual	No ELV or trigger levels	N/A	1268.72	mg/L	ves	Annual result
SW3	downstream		Total Oxidised Nitrogen (TON)	Annual	No ELV or trigger levels	N/A	<0.5	mg/L	ves	Annual result
SW3	downstream	Zinc and compounds (as Zn)	(1014)	annual	No ELV or trigger levels	N/A N/A	<20	μg/L	yes	Annual result
SW3	downstream	Total phosphorus		Annual	No ELV or trigger levels	N/A	0.05	μg/L mg/L	yes	Annual result
SW6	downstream	rotal phosphoras	PH	Quarterly	No ELV or trigger levels	N/A	7.87	pH units	yes	Median Vaulue for 2013
SW6	downstream		Temperature	Quarterly	No ELV or trigger levels	N/A	6.61	degrees C	yes	Median Vaulue for 2013
SW6	downstream		Conductivity	Quarterly	No ELV or trigger levels	N/A	3196	μS/cm@25oC	yes	Median Vaulue for 2013
SW6	downstream		Dissolved Oxygen	Quarterly	No ELV or trigger levels	N/A	7.73			Median Vaulue for 2013
SW6	downstream	Chlorides (as Cl)	bissorred oxygen	Quarterly	No ELV or trigger levels	N/A	7414.73	mg/L	yes ves	Median Vaulue for 2013
SW6	downstream	Chiondes (as Ci)	BOD	Quarterly	No ELV or trigger levels	N/A N/A	4.98	mg/L	yes ves	Median Vaulue for 2013
SW6				Quarterly	No ELV or trigger levels		307.25			Median Vaulue for 2013
SW6	downstream		COD	Quarterly	No ELV or trigger levels	N/A	3.43	mg/L	yes	Median Vaulue for 2013
SW6	downstream		Ammonia (as N)	Quarterly	No ELV or trigger levels	N/A	68.5	mg/L	yes	Median Vaulue for 2013
SW6	downstream		Suspended Solids	Annual	No ELV or trigger levels	N/A	<20	mg/L	yes	Annual result
SW6	downstream	Chromium and compounds (as Cr)		Annual	No ELV or trigger levels	N/A	<20	μg/L	yes	Annual result
	downstream	Copper and compounds (as Cu)				N/A		mg/L	yes	
SW6	downstream	Cadmium and compounds (as Cd)		Annual	No ELV or trigger levels	N/A	<20	μg/L	yes	Annual result
SW6	downstream		Iron	Annual	No ELV or trigger levels	N/A	285	μg/L	yes	Annual result

UNITO	ing returns su	mmary template-WA	ATER/WASTEWA	ATER(SEWER)		Lic No:	W0068-03	1	Year	2013
SW6	downstream	Lead and compounds (as Pb)		Annual	No ELV or trigger levels	N/A	<20	μg/L	yes	Annual result
SW6	downstream		Magnesium	Annual	No ELV or trigger levels	N/A	234	mg/L	yes	Annual result for 2013.EQS limit is 50mg/l. Elevated results is consistent and due to the geology of the area.
SW6	downstream		Manganese (as Mn)	Annual	No ELV or trigger levels	N/A	1017	μg/L	yes	Annual result
SW6	downstream	Mercury and compounds (as Hg)		Annual	No ELV or trigger levels	N/A	<0.1	µg/L	yes	Annual result
SW6	downstream		Potassium	Annual	No ELV or trigger levels	N/A	9.35	mg/L	yes	Annual result
SW6	downstream		Sulphate	Annual	No ELV or trigger levels	N/A	390.25	mg/L	yes	Annual result
SW6	downstream		Total Oxidised Nitrogen (TON)	Annual	No ELV or trigger levels	N/A	1.47	mg/L	yes	Annual result
SW6	downstream	Zinc and compounds (as Zn)		Annual	No ELV or trigger levels	N/A	<20	μg/L	yes	Annual result
SW6	downstream	Total phosphorus		Annual	No ELV or trigger levels	N/A	0.24	mg/L	yes	Annual result
GA127	onsite		рН	Quarterly	No ELV or trigger levels	N/A	7.6	pH units	yes	Median Vaulue for 2013
GA127	onsite		Temperature	Quarterly	No ELV or trigger levels	N/A	5.25	degrees C	yes	Median Vaulue for 2013
GA127	onsite		Conductivity	Quarterly	No ELV or trigger levels	N/A	1140.5	μS/cm@25oC	yes	Median Vaulue for 2013
GA127	onsite	Chlorides (as Cl)		Quarterly	No ELV or trigger levels	N/A	602.1	mg/L	yes	Median Vaulue for 2013
GA127	onsite		BOD	Quarterly	No ELV or trigger levels	N/A	5.52	mg/L	yes	Median Vaulue for 2013
GA127	onsite		COD	Quarterly	No ELV or trigger levels	N/A	64.5	mg/L	yes	Median Vaulue for 2013
GA127	onsite		Ammonia (as N)	Quarterly	No ELV or trigger levels	N/A	5.96	mg/L	yes	Median vaule for 2013. Thislocation is very overgrown and prone to algae growth.
GA127	onsite		Suspended Solids	Quarterly	No ELV or trigger levels	N/A	177	mg/L	yes	Median Vaulue for 2013
GA127	onsite	Chromium and compounds (as Cr)		Annual	No ELV or trigger levels	N/A	<20	mg/L	yes	Annual result
GA127	onsite	Copper and compounds (as Cu)		Annual	No ELV or trigger levels	N/A	<20	μg/L	yes	Annual result
GA127	onsite	Cadmium and compounds (as Cd)		Annual	No ELV or trigger levels	N/A	<20	mg/L	yes	Annual result
GA127	onsite		Iron	Annual	No ELV or trigger levels	N/A	1024.35.7	μg/L	yes	Annual result for 2013. Iron levels are elevated - this is a common occurance.
GA127	onsite	Lead and compounds (as Pb)		Annual	No ELV or trigger levels	N/A	<20	μg/L	yes	Annual result
GA127	onsite		Magnesium	Annual	No ELV or trigger levels	N/A	22.3	mg/L	yes	Annual result
GA127	onsite		Manganese (as Mn)	Annual	No ELV or trigger levels	N/A	207	μg/L	yes	Annual result
GA127	onsite	Mercury and compounds (as Hg)		Annual	No ELV or trigger levels	N/A	<0.1	μg/L	yes	Annual result
GA127	onsite		Potassium	Annual	No ELV or trigger levels	N/A	15.4	μg/L	yes	Annual result
GA127	onsite		Sulphate Total Oxidised Nitrogen	Annual	No ELV or trigger levels	N/A	46.8	mg/L	yes	Annual result
GA127	onsite		(TON)	Annual	No ELV or trigger levels	N/A	1.25	mg/L	yes	Annual result
GA127	onsite	Zinc and compounds (as Zn)		Annual	No ELV or trigger levels	N/A	<20	μg/L	yes	Annual result
GA127	onsite	Total phosphorus		Annual	No ELV or trigger levels	N/A	0.59	mg/L	yes	Annual result
	SELECT	SELECT	SELECT		L	SELECT		SELECT	SELECT	

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

Table W2 Visual inspections-Please only enter details where contamination was observed.

Location Reference	Date of inspection	Description of contamination	Source of contamination	Corrective action	Comments
			SELECT		
			SELECT		

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

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

Additional information

AER Monitoring returns summary	y template-WAT	ER/WASTEW	ATER(SEWER)		Lic No:	W0068-03	Year	2013
Was all monitoring carried out in accorda	dance with EPA							
guidance and checklists for Quality of Aque								
Data Reported to the EPA? If no please det	detail what areas La	ab Quality	Assessment of					
4 require improvement in additional infor	formation box ch	hecklist	results checklist	SELECT				

Table W3: Licensed Emissions to water and /or wastewater (sewer)-periodic monitoring (non-continuous)

						ELV or trigger values							Procedural		
Emission	Emission	Parameter/		Frequency of		in licence or any			Unit of	Compliant with		Procedural	reference	Annual mass load	i i
reference no:	released to	SubstanceNote 1	Type of sample	monitoring	Averaging period	revision therof ^{Note 2}	Licence Compliance criteria	Measured value	measurement	licence	Method of analysis	reference source	standard number	(kg)	Comments
	SELECT	SELECT	SELECT		SELECT		SELECT		SELECT	SELECT	SELECT	SELECT			l
															i
Note 1: Volumet	lote 1: Volumetric flow shall be included as a reportable parameter														

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

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)	Lic No:	W0068-03	Year
---	---------	----------	------

SELECT

	Continuous monitoring	
5	Does your site carry out continuous emissions to water/sewer monitoring?	SELECT
	If was please summarise your continuous monitoring data below in Table WA and compare it to	

If yes please sun narise your co nitoring 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 6 table W4 below

7 Do you have a proactive service contract for each piece of continu site?

8 Did abatement system bypass occur during the reporting year? If below

Table W4: Summary of average emissions -contin

inuous monitoring eq					
If yes please complet		SELECT			
		SELECT			
inuous monitorir	ng				

Emission	Emission			Averaging			Annual Emission for current	Equipment	Number of ELV exceedences in	
reference no:	released to	Parameter/ Substance	thereof	Period	Criteria	measurement	reporting year (kg)	downtime (hours)	reporting year	Comments
	SELECT	SELECT		SELECT	SELECT	SELECT				
	SELECT	SELECT		SELECT	SELECT	SELECT				

Additional Information

2013

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

Table W5: Abatement system bypass reporting table

Date	Duration (hours)	 	 action*	Was a report submitted to the EPA?	When was this report submitted?
				SELECT	

*Measures taken or proposed to reduce or limit bypass frequency

Bund/Pipeline testing template	Lic No:	W0068-03		Year	2013	
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 on containment structures on site, in addition to all bunds which failed the integrity test-all bunding structures which failed the table below, please include all bunds outside the licenced testing period (mobile bunds and chemstore included)			Only one bund test is required at the site for the leachate lagoon. The lagoon is used for storage of leachate prior to transport to local			
2 Please provide integrity testing frequency period		3 years				
Does the site maintain a register of bunds, underground pipelines (including stormwater and foul), Tanks, sumps and cor 3 type units and mobile bunds) 4 How many bunds are on site? 5 How many of these bunds have been tested within the required test schedule?	tainers? (containers refers to "Chemstore"	No 1		- - -		
6 How many mobile bunds are on site? 7 Are the mobile bunds included in the bund test schedule?		1 No		T		
8 How many of these mobile bunds have been tested within the required test schedule? 9 How many sumps on site are included in the integrity test schedule?		1		T		
10 How many of these sumps are integrity tested within the test schedule? Please list any sump integrity failures in table B1		N/A		İ		
11 Do all sumps and chambers have high level liquid alarms? 12 If yes to Q11 are these failsafe systems included in a maintenance and testing programme?		No N/A				
13 Is the Fire Water Retention Pond included in your integrity test programme?		SELECT		Ι		

10	inc bit sammary actails of	bana / containinent stractare inte	contractor				T	1		r		-		
Bund/Containment									Integrity reports 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	site?	Results of test	explanation <50 words	Corrective action taken	for retest	reporting year)
Leachate Lagoon	reinforced concrete	Liner covered concrete	Leachate	2000 m3	1500 m3	Structural assessment		Oct-08	Yes	Pass		SELECT		
	SELECT					SELECT			SELECT	SELECT		SELECT		
	mply with 25% or 110% containment						Commentary							
Has integrity testing b	een carried out in accorda	nce with licence requirements and	d are all structures tested in					I						
15 line with BS8007/EPA	Guidance?			bunding and storage guideli	nes	Yes								
16 Are channels/transfer	systems to remote contain	nment systems tested?				SELECT								
17 Are channels/transfer	r systems compliant in both	n integrity and available volume?				SELECT		1						

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 and all which have not been tested withing the integrity test period as specified	SELECT
2 Please provide integrity testing frequency period	SELECT

2 Please provide integrity testing frequency period *please note integrity testing means water tightness testing for process and foul pipelines (as required under your licence)

Table	B2: Summary details of pi	ipeline/underground structures in	tegrity 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

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

Year

2013

		Comments
1 Are you required to carry out groundwater monitoring as part of your licence requirements?	yes	Please provide an interpretation of groundwater monitoring data in the
2 Are you required to carry out soil monitoring as part of your licence requirements?	no	interpretation box below or if you require additional space please
Do you extract groundwater for use on site? If yes please specify use in comment		include a groundwater/contaminated land monitoring results
³ section	no	interpretaion as an additional section in this AER
Do monitoring results show that groundwater generic assessment criteria such as GTVs or IGVs are exceeded or is 4 there an upward trend in results for a substance? If yes, please complete the Groundwater Monitoring Guideline Template Report (link in cell G8) and submit separately through ALDER as a licensee return AND answer questions 5-12 below. template.	no	
5 Is the contamination related to operations at the facility (either current and/or historic)	SELECT	
6 Have actions been taken to address contamination issues? If yes please summarise		
remediation strategies proposed/undertaken for the site	SELECT	
7 Please specify the proposed time frame for the remediation strategy	SELECT	
8 Is there a licence condition to carry out/update ELRA for the site?	SELECT	
9 Has any type of risk assesment been carried out for the site?	SELECT	
10 Has a Conceptual Site Model been developed for the site?	SELECT	
11 Have potential receptors been identified on and off site?	SELECT	The groundwater results at the site are in line with previous years. No
12 Is there evidence that contamination is migrating offsite?	SELECT	upward trend has been observed in 2013 compared with previous years.

Table 1: Upgradient Groundwater monitoring results

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration++	Average Concentration+	unit	GTV's*		Upward trend in pollutant concentration over last 5 years of monitoring data
Quarterly	MW4	рН	Meter	Quarterly	7.64		SELECT		9.5	no
Quarterly	MW4	Temp	Meter	Quarterly	6.8	6.25			25	no
Quarterly	MW4	Elec.Conductivity	Meter	Quarterly	2910	1784			1000	no
Quarterly	MW4	Chlorides	titration	Quarterly	6497	1957			250	no
Quarterly	MW4	Ammoniacal Nitorgen	ISE	Quarterly	19.14		mg/l		80mg/I* (Trigger limit	no
Quarterly	MW4	Iron		Quarterly	5466	2536	ug/l		0.2	no
Quarterly	MW4	TON		Quarterly	15.84	7	ug/l		No abnormal change	no
Quarterly	MW4	тос	HACH	Quarterly	18	13.37	mg/l		30mg/l (Tigger limit)	no
Annual	MW4	Cadmium		Annual	<20	<20	ug/l		0.005	no
Annual	MW4	Chromium (total)		Annual	<20		ug/l		0.03	no
Annual	MW4	Copper		Annual	<20	<20	ug/l		0.03	no
Annual	MW4	Cyanide (Total)		Annual	<0.009	<0.009	ug/l		0.01	no
Annual	MW4	Lead		Annual	<20	<20	ug/l		0.01	no
Annual	MW4	Mangnesium		Annual	40.6	40.6	mg/l		50	no
Annual	MW4	Manganese		Annual	1821	1821	ug/l		0.05	no

Ground	water/Soil m	onitoring template		Lic No:	W0068-03		Year	2013	
nnual	MW4	Mercury	Annual	<0.10	<0.10	ug/l		0.001	no
nnual	MW4	Nickle	Annual	<20		ug/l		0.02	no
Annual	MW4	Potassium	Annual	21.8	21.8	mg/l		5	no
Annual	MW4	Sulphate	Annual	9.78	9.78	mg/l		200	no
Annual	MW4	Total Alkalinity	Annual	738.15	738.15	mg/l			no
				0.08	0.08				
Annual	MW4	Total Phosphorus	Annual	<0.15	<0.15	mg/l			no
Annual	MW4	Phenols	Annual	<0.13	<0.15	ug/l	-	0.5	no
Annual	MW4	Acenaphthylene	Annual	<0.5	<0.5	ug/l			no
Annual	MW4	Anthracene	Annual	<0.5	<0.5	ug/l			no
Annual	MW4	Benzene	Annual	<0.1				1	no
		Bromodichlorome		<2	<2				
Annual	MW4	thane	Annual	<1	-1	ug/l			no
Annual	MW4	Bromoform	Annual			ug/l			no
Annual	MW4	Chloroform	Annual	<1		ug/I	++	12	no
Annual	MW4	Chrysene	Annual	<1		ug/I	+ +		no
Annual	MW4	Dibromochlorome thane	Annual	<1	<1	ug/l			no
Annual	MW4	Fluoranthene	Annual	<1	<1	ug/l	1		no
Annual	MW4	Fluorene	Annual	<1		ug/l	1		no
Annual	MW4	Naphthalene	Annual	<2.0			1		no
		Dibromochlorome		<1			1		
Annual	MW4	thane	Annual			ug/l			no
Annual	MW4	Pentachloropheno I	Annual	<1	<1	ug/l		2	no
Annual	MW4	Phenanthrene	Annual	<1	<1		+	2	no
Annual	MW4	Pyrene	Annual	<1		66/1	+ +		no
				<0.1	<0.1	-or	1		
Annual	MW4	Tetrachloroethene	Annual			ug/l			no
Annual	MW4	Trichloroethene	Annual	<0.1	<0.1	ug/l	I T		no
Annudi	171774	Hexachlorobenzen	Annual	<1	<1	ug/I	++		10
Annual	MW4	e	Annual			ug/l		0.03	no
Annual	MW4	Hexachlorobutadi		<0.5	<0.5				
Annual	11/1 11/14	ene	Annual	<1	<1	ug/l	+	0.1	10
		2,4,6-		<1	<1				
Annual	MW4	Trichlorophenol	Annual			ug/l			no
Annual	MW4	2,4- Dichlorophenol	Annual	<1	<1	ug/l			no
			Aindai	<1	<1	-	+ +		
		2,4-							
Annual	MW4	Dimethylphenol	Annual			ug/l	+ +		no
Annual	MW4	2-Chlorophenol	Annual	<1 <0.5		ug/I	+		no
		1,2,4-		<0.5	<0.5				
Annual	MW4	trichlorobenzene	Annual			ug/l			no
		1.2		<0.5	<0.5				
Annual	MW4	1,2- dichlorobenzene	Annual			ug/l			no
				<0.5	<0.5		+ +		
		1,3-							
Annual	MW4	dichlorobenzene	Annual	<0.5		ug/l	+		no
		1,4-		<0.5	<0.5				
Annual	MW4	dichlorobenzene	Annual			ug/l			no
1		2,4,5-		<1	<1				
Annual	MW4	2,4,5- Trichlorophenol	Annual			ug/l			no
	<u> </u>	Fr							

Ground	water/Soil m	nonitoring template		Lic No:	W0068-03		Year	2013	
nnual	MW4	2,4-Dinitrotoluene	Annual	<1	<1	ug/l			no
Annuar	101004	2,4 Diniti Otolucile	Alliludi	<1	<1	46/1			10
Annual	MW4	2,6-Dinitrotoluene	Annual			ug/I			no
		2- Chloronaphthalen		<1	<1				
Annual	MW4	e	Annual			ug/l			no
		2-		<1	<1				
Annual	MW4	Methylnaphthalen e	Annual			ug/l			no
				<1	<1				
Annual	MW4	2-Methylphenol	Annual			ug/l			no
Annual	MW4	2-Nitrophenol 4-Bromophenyl	Annual	<1		ug/l			no
Annual	MW4	Phenyl Ether	Annual	<1	<1	ug/l			no
		4-Chloro-3-		<1	<1				
Annual	MW4	methylphenol	Annual	-1	-1	ug/I			no
Annual	MW4	4-Chlorophenyl phenyl ether	Annual	<1	<1	ug/I			no
Annual	MW4	4-Nitrophenol	Annual	<5		ug/I			no
Annual	MW4	Acenaphthene	Annual	<1		ug/I			no
		Benzo(a)anthrace		<1	<1				
Annual Annual	MW4 MW4	ne	Annual	<1		ug/l			no
Annual	101004	Benzo(a)pyrene Benzo(b)fluoranth	Annual	<1	<1	ug/l			no
Annual	MW4	ene	Annual			ug/l			no
Annual	MW4	Benzo(g,h,i)peryle ne		<1	<1	ug/l			
Annual	101004	Benzyl Butyl	Annual	<1	<1	ug/i			no
Annual	MW4	Phthalate	Annual			ug/l			no
		Bis(2- chloroethoxy)met		<1	<1				
Annual	MW4	hane	Annual			ug/l			no
				<1	<1				
Annual	MW4	Bis(2- chloroethyl)ether	Annual			ug/l			no
Annual	101004	Bis(2-	Alliludi	<1	<1	ug/i			10
i .		chloroisopropyl)et							
Annual	MW4	her Bis(2-	Annual	<5	<5	ug/l			no
		ethylhexyl)phthala		<.	40				
Annual	MW4	te	Annual			ug/I			no
Annual	MW4	Dibenz(a,h)anthra cene	Annual	<1	<1	ug/l			no
Annual	MW4	Dibenzofuran	Annual	<1		ug/l			no
				<1	<1				
Annual	MW4	Diethylphthalate di-n-	Annual			ug/I			no
Annual	MW4	di-n- Butylphthalate	Annual	<1	<1	ug/l			no
		Di-n-		<1	<1				
Annual	MW4	octylphthalate	Annual	ь.		ug/I			no
Annual	MW4	Diphenylamine	Annual	<1	<1 <1	ug/l			no
Annual	MW4	Hexachloroethane	Annual	<1		ug/I			no
		Indeno(1,2,3-		<1	<1				
Annual	MW4	c,d)pyrene	Annual	<1		ug/l			no
Annual	MW4	Isophorone	Annual	<0.5		ug/I			no
Annual	MW4	Nitrobenzene n-Nitrosodi-n-	Annual	<1	<1	ug/l			no
	MW4	propylamine	Annual			ug/I			no
Annual									
Annual Annual	MW4	Acetone	Annual	<2 <5	<2 <5	ug/I			no

Ground	water/Soi	I monitoring templat	e	Lic No:	W0068-03		Year	2013	
nnual	MW4	Tetrahydrofuran	Annual	<0.5	<0.5	ug/l			no
nnual	MW4	Toluene	Annual	<0.5	<0.5	ug/l		10	no
Annual	MW4	Xylene -o	Annual	0.6	0.6	ug/l		10	no
		Dichlorodifluorom		<10	<10				
Annual	MW4	ethane	Annual	<0.5	-0.5	ug/l			no
Annual	MW4	Chloromethane Ethyl	Annual	<0.5	<0.5	ug/I			no
		Chloride/Chloroet		<0.5	<0.5				
Annual	MW4	hane	Annual			ug/l			no
Annual	MW4	Vinyl Chloride	Annual	<0.5	<0.5				no
Annual	MW4	Bromomethane	Annual	<0.5		ug/I			no
A	MW4	Trichloromonofluo		<0.5	<0.5				
Annual	101004	romethane Ethyl	Annual	<0.5	<0.5	ug/l			no
		Ether/Diethyl		4010	40.0				
Annual	MW4	Ether	Annual			ug/I			no
Annual	MW4	11 Dichloroethene	Annual	<0.5	<0.5	ug/l			no
Ailliudi	141444	Iodomethane/Met	Annual	<0.5	<0.5	ug/1			
Annual	MW4	hyl lodide	Annual			ug/I			no
Annual	N4)4/4	Carbon Disulphido		<0.5	<0.5				
Annual Annual	MW4 MW4	Carbon Disulphide Allyl Chloride	Annual	<0.5	~0 F	ug/l ug/l			no
Annual	IVI W4	Allyl Chloride Chlormethyl	Annual	<0.5	<0.5	ug/i			no
		Cyanide/Chloroac		<0.5	<0.5				
Annual	MW4	etonitrile	Annual			ug/l			no
Annual	MW4	Propanenitrile	Annual	<10		ug/l			no
Annual	MW4	Trans-1,2 Dichloroethene	A	<0.5	<0.5	ug/l			no
Annual	MW4	MtBE	Annual Annual	<0.5	<0.5				no
Annual	101004	1,1-	Alliludi	<0.5	<0.5	ug/1			110
Annual	MW4	dichloroethane	Annual			ug/I		30	no
				<0.5	<0.5				
Annual	MW4	2,2- dichloropropane	Annual			ug/l			no
		cis-12		<0.5	<0.5				
Annual	MW4	Dichloroethene	Annual			ug/l			no
Annual	MW4	2-Butanone	Annual	<5		ug/l			no
Annual	MW4	Methyl Acrylate	Annual	<0.5	<0.5				no
Annual	MW4	Bromochlorometh ane	Annual	<0.5	<0.5	ug/l			no
			Annudi	<0.5	<0.5				
Annual	MW4	Methacrylonitrile	Annual			ug/l			no
		1,1,1-		<0.5	<0.5				
Annual	MW4	1,1,1- trichloroethane	Annual			ug/l		500	no
Annual	MW4	1-Chlorobutane	Annual	<0.5	<0.5			500	no
		Carbon		<0.5	<0.5				-
Annual	MW4	Tetrachloride	Annual			ug/I			no
		11		<0.5	<0.5				
Annual	MW4	Dichloropropene	Annual			ug/l			no
				<0.1	<0.1	-			
Annual	MW4	1,2 dicloroethane	Annual			ug/I			no
		1,2-		<0.5	<0.5				
Annual	MW4	dichloropropane	Annual			ug/l			no
				<0.5	<0.5				
Annual	MW4	Dibromomethane Methyl	Annual	<0.5	<0.5	ug/l			no

Ground	water/Soil	monitoring to	emplate	Lic No:	W0068-03		Year	2013	
		13 Dichloropropene,c		<2	<2				
nnual	MW4	is	Annual			ug/l			no
		MIBK/4 Methyl 2		<2	<2	-			
Annual	MW4	Pentanone	Annual			ug/l			no
		13 Dichloropropene,t		<2	<2				
Annual	MW4	rans	Annual			ug/l			no
		Ethyl		<2	<2				
Annual	MW4	Methacrylate	Annual			ug/l			no
		112		<0.5	<0.5				
Annual	MW4	Trichloroethane	Annual			ug/l			no
				<0.5	<0.5				
Annual	MW4	1,3- dichloropropane	Annual			ug/l			no
Annual	MW4	2-Hexanone		<1		ug/l			no
muai	101004	1,2-	Annual	<0.5	<0.5	06/1			
Annual	MW4	dibromoethane	Annual	40.0	40.0	ug/l			no
Annual	MW4	Chlorobenzene	Annual	<0.5	<0.5	ug/l		1	no
				<2	<2				
house	MW4	1,1,1,2-	A			ug/I			no
Annual Annual	MW4 MW4	tetrachloroethane Ethylbenzene	Annual	0.6		ug/l			
			Annual	<0.5	<0.5	ug/l		10	
nnual	MW4	Xylene P&M	Annual	<0.5					no
nnual	MW4	Styrene	Annual	<0.5	<2	ug/l			no
nnual	MW4	Isopropylbenzene	Annual	<0.5		ug/l			no
nnual	MW4	Bromobenzene	Annual	<0.5	<0.5	ug/l			no
	1			<0.5	<0.5				
		1,1,2,2-							
nnual	MW4	tetrachloroethane	Annual	<2	<2	ug/I			no
		1,2,3-		<2	<2				
nnual	MW4	trichloropropane	Annual			ug/l			no
		Trans 14 Disk		<2	<2				
nnual	MW4	Trans 14 Dichloro 2 Butene, tran	Annual			ug/l			no
nnual	MW4	Propylbenzene	Annual	<0.5	<0.5	ug/l			no
				<0.5	<0.5			1	
nnual	MW4	2-chlorotoluene	Annual			ug/l			no
Annual	MW4	4-chlorotoluene	Appus	<0.5	<0.5	ug/I			no
		- chiorotoluene	Annual	<0.5	<0.5	ug/l			
		1,3,5-			.0.0				
nnual	MW4	trimethylbenzene	Annual			ug/l			no
Annual	MW4	Tert Butyl Benzene	Annual	<0.5	<0.5	ug/l			no
	1		Annua	<0.5	<0.5				
		1,2,4-							
nnual	MW4	trimethylbenzene	Annual	.0 E	-0 F	ug/l	_		no
nnual	MW4	sec-butylbenzene	Annual	<0.5	<0.5	ug/l			no
	ł			<0.5	<0.5				
		P							
	MW4	Isopropyltoluene	Annual	<0.5	<0.5	ug/l			no
Annual		N Butyl Benzene	Annual	<0.5	<0.5	ug/l			no
Annual Annual	MW4	in Dury Delizence							
Annual		1,2-dibromo-3-		<2	<2				
nnual	MW4 MW4		Annual			ug/I			no
		1,2-dibromo-3-		<2 <0.5	<2 <0.5	ug/I			no

nouna	water/Soil n	nonitoring t	emplate		Lic No:	W0068-03		Year	2013	
Quarterly	MW7	рН	Meter	Quarterly	7.6	7.1			9.5	data not available
Quarterly	MW7	Temp	Meter	Quarterly	6.5	4.4			25	data not available
Quarterly	MW7	Elec.Conductivity	Meter	Quarterly	3900	3362			1000	data not available
Quarterly	MW7	Chlorides	titration	Quarterly	12496	3518	mg/l			data not available
Quarterly	MW7	Ammoniacal Nitorgen	ISE	Quarterly	179	61.4	mg/l		0.02	data not available
Quarterly	MW7	Iron		Quarterly	31217	10517	ug/l		0.2	data not available
Quarterly	MW7	TON		Quarterly	0.77	0.47	mg/l		No abnormal change	data not available
Quarterly	MW7	тос	HACH	Quarterly	48	30.67	mg/l			data not available
Annual	MW7	Cadmium		Annual	<20	<20	ug/l		0.005	data not available
Annual	MW7	Chromium (total)		Annual	<20	<20	ug/l			data not available
Annual	MW7	Copper		Annual	<20	<20	ug/l		0.03	data not available
Annual	MW7	Cyanide (Total)		Annual	<0.009	<0.009	ug/l		0.01	data not available
Annual	MW7	Lead		Annual	<20	<20	ug/l		0.01	data not available
Annual	MW7	Mangnesium		Annual	46.9	46.9	mg/l			data not available
Annual	MW7	Manganese		Annual	3853	3853	ug/l			data not available
Annual	MW7	Mercury	1	Annual	<0.10	<0.10	ug/I			data not available
Annual	MW7	Nickle		Annual	<20	<20	ug/l		0.02	data not available
Annual	MW7	Potassium		Annual	6	6	mg/l		5	data not available
Annual	MW7	Sulphate	1	Annual	<2.5	<2.5	mg/l		200	data not available
Annual	MW7	Total Alkalinity		Annual	1286.44	1286.44	mg/l			data not available
Annual	MW7	Total Phosphorus		Annual	0.15	0.15	mg/l			data not available
Annual	MW7	Phenols		Annual	<0.15	<0.15	ug/l		0.5	data not available
				, undu	<0.5	<0.5			0.5	
Annual	MW7	Acenaphthylene		Annual			ug/l			data not available
Annual	MW7	Anthracene		Annual	0.1		ug/l			data not available
Annual	MW7	Benzene		Annual	<2	<2	ug/l		1	data not available
Annual	MW7	Bromodichlorome thane		Annual	<1	<1	ug/l			data not available
Annual	MW7	Bromoform		Annual	<1		ug/I			data not available
Annual	MW7	Chloroform		Annual	<1	<1	ug/l		12	data not available
Annual	MW7	Chrysene		Annual	<1		ug/l			data not available
Annual	MW7	Dibromochlorome thane		Annual	<1	<1	ug/l			data not available
Annual	MW7	Fluoranthene		Annual	<1	<1	ug/l			data not available
Annual	MW7	Fluorene		Annual	<1	<1	ug/l			data not available
Annual	MW7	Naphthalene		Annual	<0.5	37.7	ug/l			data not available
		Dibromochlorome			<1	<1				
Annual	MW7	thane	ļ	Annual			ug/l			data not available
Annual	MW7	Pentachloropheno I		Annual	<1	<1	ug/l		2	data not available
Annual	MW7	Phenanthrene		Annual	<1		ug/l			data not available
Annual	MW7	Pyrene		Annual	<1	<1	ug/l			data not available
Annual	MW7	Tetrachloroethene		Annual	<0.1	<0.1	ug/l			data not available
Annual	MW7	Trichloroethene		Annual	<0.1	<0.1	ug/I			data not available
Annual	MW7	Hexachlorobenzen e		Annual	<1	<1	ug/l		0.03	data not available
Annual	MW7	Hexachlorobutadi ene		Annual	<0.5	<0.5	ug/l		0.1	data not available
		2,4,6-			<1	<1				
Annual	MW7	Trichlorophenol	1	Annual			ug/l		1	data not available

Ground	water/Soi	l monitoring templat	e	Lic No:	W0068-03		Year	2013	
Annual	MW7	2,4- Dichlorophenol	Annual	<1	<1	ug/l			data not available
				<1	<1				
Annual	MW7	2,4- Dimothylphopol	Annual			ug/I			data not available
Annual Annual	MW7 MW7	Dimethylphenol 2-Chlorophenol	Annual	<1	<1	ug/l ug/l			data not available data not available
milludi	171 47 7	2-chlorophenol	Annuai	<0.5	<0.5	ug/i			
		1,2,4-							
Annual	MW7	trichlorobenzene	Annual			ug/l			data not available
		1,2-		<0.5	<0.5				
Annual	MW7	dichlorobenzene	Annual			ug/I			data not available
		1,3-		<0.5	<0.5				
Annual	MW7	1,3- dichlorobenzene	Annual			ug/l			data not available
	1			<0.5	<0.5	-			
Annual	MW7	1,4- dichlorobenzene	Appual			ug/l			data not available
milludi	191 99 7	uichiorobenzene	Annual	<1	<1	ug/l			
		2,4,5-							
Annual	MW7	Trichlorophenol	Annual			ug/l			data not available
Annual	MW7	2,4-Dinitrotoluene	Annual	<1	<1	ug/l			data not available
				<1	<1	-			
Annual	MW7	2,6-Dinitrotoluene	Annual			ug/I			data not available
		2- Chloronaphthalen		<1	<1				
Annual	MW7	e	Annual			ug/l			data not available
		2-		<1	<1				
Annual	MW7	Methylnaphthalen e	Annual			ug/l			data not available
				<1	<1				
Annual	MW7	2-Methylphenol	Annual			ug/I			data not available
Annual	MW7	2-Nitrophenol	Annual	<1	<1	ug/I			data not available
Annual	MW7	4-Bromophenyl Phenyl Ether	Annual	<1	<1	ug/l			data not available
		4-Chloro-3-		<1	<1				
Annual	MW7	methylphenol	Annual			ug/I			data not available
Annual	MW7	4-Chlorophenyl phenyl ether	Annual	<1	<1	ug/l			data not available
Annual	MW7	4-Nitrophenol	Annual	<5	<5	ug/l			data not available
Annual	MW7	Acenaphthene	Annual	<1	<1	ug/l			data not available
		Benzo(a)anthrace		<1	<1				
Annual	MW7	ne	Annual			ug/I			data not available
Annual	MW7	Benzo(a)pyrene	Annual	<1		ug/l			data not available
Annual	MW7	Benzo(b)fluoranth ene	Annual	<1	<1	ug/l			data not available
		Benzo(g,h,i)peryle		<1	<1				
Annual	MW7	ne Boomd Butul	Annual			ug/l			data not available
Annual	MW7	Benzyl Butyl Phthalate	Annual	<1	<1	ug/l			data not available
		Bis(2-		<1	<1				
A	101/7	chloroethoxy)met							dete ant conflicted
Annual	MW7	hane	Annual	<1	<1	ug/I			data not available
		Bis(2-			<1				
Annual	MW7	chloroethyl)ether	Annual			ug/l			data not available
		Bis(2- chloroisopropyl)et		<1	<1				
Annual	MW7	her	Annual			ug/I			data not available
		Bis(2-		<5	<5				
Annual	NA)A/7	ethylhexyl)phthala	Appual			ug/l			data not available
Annual	MW7	te	Annual			ug/l			data not available

Ground	water/Soil ı	monitoring tem	plate	Lic No:	W0068-03		Year	2013	
Annual	MW7	Dibenz(a,h)anthra cene	Annual	<1	<1	ug/l			data not available
Annual	MW7	Dibenzofuran	Annual	<1	<1				data not available
		1		<1	<1	-0/-			
Annual	MW7	Diethylphthalate di-n-	Annual		-1	ug/l			data not available
Annual	MW7	Butylphthalate	Annual	<1	<1	ug/l			data not available
Annual	MW7	Di-n- octylphthalate	Annual	<1	<1	ug/l			data not available
Annual	MW7	Diphenylamine	Annual	<1	<1	ug/l			data not available
A	101/7	line allowed have		<1	<1				data ant surficiels
Annual	MW7	Hexachloroethane Indeno(1,2,3-	Annual	<1	<1	ug/I			data not available
Annual	MW7	c,d)pyrene	Annual			ug/l			data not available
Annual	MW7	Isophorone	Annual	<1	<1	ug/l			data not available
Annual	MW7	Nitrobenzene n-Nitrosodi-n-	Annual	<0.5	<0.5	ug/I			data not available
Annual	MW7	propylamine	Annual	<1	<1	ug/l			data not available
Annual	MW7	Acetone	Annual	<2	<2	ug/l			data not available
Annual	MW7	Dichloromethane	Annual	<5	<5	ug/l			data not available
Annual	MW7	Tetrahydrofuran	Annual	<0.5	<0.5	ug/l			data not available
Annual	MW7	Toluene	Annual	<0.5	<0.5	ug/I		10	data not available
Annual	MW7	Xylene -o	Annual	<0.5	<0.5	ug/l		10	
Annual	MW7	Dichlorodifluorom ethane		<10	<10	ug/l			data not available
Annual	MW7	Chloromethane	Annual	<0.5	<0.5	ug/I			data not available
		Ethyl	Annuar	<0.5	<0.5	чы <i>г</i>			
Appual	MW7	Chloride/Chloroet							data pot svoilable
Annual Annual	MW7 MW7	hane Vinyl Chloride	Annual	<0.5	<0.5	ug/l			data not available data not available
Annual	MW7	Bromomethane	Annual	<0.5	<0.5	ug/i			data not available
		Trichloromonofluo		<0.5	<0.5	5			
Annual	MW7	romethane Ethyl	Annual	<0.5	<0.5	ug/I			data not available
		Ether/Diethyl		<0.5	<0.5				
Annual	MW7	Ether	Annual	0.5		ug/l			data not available
Annual	MW7	11 Dichloroethene	Annual	<0.5	<0.5	ug/l			data not available
A	1017	Iodomethane/Met		<0.5	<0.5				dete ont conflictele
Annual	MW7	hyl Iodide	Annual	<0.5	<0.5	ug/l		<u> </u>	data not available
Annual	MW7	Carbon Disulphide	Annual			ug/l			data not available
Annual	MW7	Allyl Chloride	Annual	<0.5	<0.5	ug/l			data not available
		Chlormethyl Cyanide/Chloroac		<0.5	<0.5				
Annual	MW7	etonitrile	Annual			ug/I			data not available
Annual	MW7	Propanenitrile	Annual	<10	<10	ug/l			data not available
Annual	MW7	Trans-1,2 Dichloroethene	Annual	<0.5	<0.5	ug/l			data not available
Annual	MW7	MtBE	Annual	<0.5	<0.5	ug/l			data not available
A	1017	1,1-		<0.5	<0.5				dete ont surlishing
Annual	MW7	dichloroethane	Annual	<0.5	<0.5	ug/I		30	data not available
		2,2-			40.0				
Annual	MW7	dichloropropane cis-12	Annual	<0.5	<0.5	ug/l			data not available
Annual	MW7	Dichloroethene	Annual	<0.5	<0.5	ug/l			data not available
Annual	MW7	2-Butanone	Annual	<5	<5	ug/I			data not available
Annual	MW7	Methyl Acrylate	Annual	<0.5	<0.5	ug/l			data not available

pround	dwater/So	il monitoring template	9	Lic No:	W0068-03		Year	2013	
		Bromochlorometh		<0.5	<0.5				
Annual	MW7	ane	Annual			ug/l			data not available
				<0.5	<0.5				
Annual	MW7	Methacrylonitrile	Annual			ug/I			data not available
		1,1,1-		<0.5	<0.5				
Annual	MW7	trichloroethane	Annual			ug/l		500	data not available
	MW7			<0.5	<0.5			500	
Annual	MW7	1-Chlorobutane	Annual			ug/l			data not available
Annual	MW7	Carbon Tetrachloride	Amount	<0.5	<0.5				data not available
AIIIIudi		Tetracillonde	Annual	<0.5	<0.5	ug/l			
		11		<0.0	<0.5				
Annual	MW7	Dichloropropene	Annual			ug/l			data not available
				<0.1	<0.1	. 01			
Annual	MW7	1,2 dicloroethane	Annual			ug/l			data not available
				<0.5	<0.5				
		1,2-							
Annual	MW7	dichloropropane	Annual			ug/l			data not available
				<0.5	<0.5				
Annual	MW7	Dibromomethane	Annual			ug/l			data not available
		Methyl		<0.5	<0.5				
Annual	MW7	Methacrylate	Annual			ug/l			data not available
		13		<2	<2				
Annual	MW7	Dichloropropene,c	Annual			ug/I			data not available
Annual	101 00 7	MIBK/4 Methyl 2	Annual	<2	<2	ug/l			
Annual	MW7	Pentanone	Annual	<2	<2	ug/l			data not available
		13	Annuar	<2	<2	-8/			
		Dichloropropene,t							
Annual	MW7	rans	Annual			ug/l			data not available
		Ethyl		<4	<2				
Annual	MW7	Methacrylate	Annual			ug/l			data not available
				<0.5	<0.5				
		112							
Annual	MW7	Trichloroethane	Annual			ug/l			data not available
				<0.5	<0.5				
		1,3-							
Annual	MW7	dichloropropane	Annual			ug/I			data not available
Annual	MW7	2-Hexanone	Annual	<1		ug/l			data not available
		1,2-		<0.5	<0.5				
Annual	MW7	dibromoethane	Annual			ug/l			data not available
Annual	MW7	Chlorobenzene	Annual	<0.5		ug/l		1	data not available
				<2	<2				
	1017	1,1,1,2-							data ant surlishin
Annual	MW7	tetrachloroethane	Annual			ug/l			data not available
Annual	MW7	Ethylbenzene	Annual	<0.5		ug/l		10	data not available
Annual	MW7	Xylene P&M	Annual	<0.5	<0.5	ug/l			data not available
Annual	MW7	Styrene	Annual	<2	<2	ug/l			data not available
	1			2	2			1	
Annual	MW7	Isopropylbenzene	Annual		-	ug/l			data not available
Annual	MW7	Bromobenzene	Annual	<0.5	<0.5	ug/l			data not available
	-		,	<0.5					in the construction of the second sec
		1,1,2,2-			-0.0				
Annual	MW7	tetrachloroethane	Annual			ug/l			data not available
	1			<2	<2				
		1,2,3-							
Annual	MW7	trichloropropane	Annual			ug/l			data not available
				<2	<2				
		Trans 14 Dichloro							
Annual	MW7	2 Butene, tran	Annual			ug/l			data not available
Annual	MW7	Propylbenzene	Annual	<0.5		ug/l			data not available
				<0.5	<0.5				
	MW7	2-chlorotoluene							data not available

Ground	dwater/Soil	monitoring templat	te	Lic No:	W0068-03		Year	2013		
				<0.5	<0.5					
Annual	MW7	4-chlorotoluene	Annual			ug/l			data not available	
				<0.5	<0.5					
		1,3,5-								
Annual	MW7	trimethylbenzene	Annual			ug/l			data not available	
Annual	MW7	Tert Butyl Benzene		<0.5	<0.5	ug/l			data not available	
Annual	101 00 7	Tert Butyi Benzene	Annual	<0.5	<0.5		-			
		1,2,4-		<0.5	<0.5					
Annual	MW7	trimethylbenzene	Annual			ug/l			data not available	
				<0.5	<0.5					
Annual	MW7	sec-butylbenzene	Annual			ug/l			data not available	
				<0.5	<0.5					
		Р								
Annual	MW7	Isopropyltoluene	Annual			ug/l			data not available	
				<0.5	<0.5					
Annual	MW7	N Butyl Benzene	Annual			ug/l			data not available	
Annual	MW7	1,2-dibromo-3-	Amount	<2	<2				data not available	
Annuai	IVI VV 7	chloropropane	Annual	<0.5	<0.5	ug/l	-		data not avallable	
		1,2,3-		<0.5	<0.5					
Annual	MW7	trichlorobenzene	Annual			ug/l			data not available	
						. 0				
L						CELECT			CELECE	
1						SELECT			SELECT	

.+ where average indicates arithmetic mean

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

Table 2: Downgradient Groundwater monitoring results

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration	Average Concentration	unit	GTV's*	SELECT**	Upward trend in yearly average pollutant concentration over last 5 years of monitoring data
Quarterly	MW1		Meter	Quarterly	7.5	7.31	unit	0110		no
Quarterly	MW1	•	1	Quarterly	6.7	6.4				no
Quarteriy	NIVI I	Temp	Wieter	Quarteny	2950	2782			23	110
Quarterly	MW1	Elec.Conductivity	Meter	Quarterly		-			1000	no
Quarterly	MW1	Chlorides	titration	Quarterly	14995	6960.02	mg/l		250	no
Quarterly	MW1	Ammoniacal Nitorgen	ISE	Quarterly	5.17		mg/l		Trigger Limit of 20mg/	no
Quarterly	MW1	Iron		Quarterly	890	408.15			0.2	no
Quarterly	MW1	TON		Quarterly	5.71	2.68	mg/l		No abnormal change	no
Quarterly	MW1	тос	НАСН	Quarterly	7.1		mg/l		Tigger limit 10- 12mg/l	no
Annual	MW1	Cadmium		Annual	1.1	0.1	ug/l		0.005	no
Annual	MW1	Chromium (total)		Annual	34.9		ug/l		0.03	no
Annual	MW1	Copper		Annual	0.118	0.006	ug/l		0.03	no
Annual	MW1	Cyanide (Total)		Annual	10		ug/l		0.01	no
Annual	MW1	Lead		Annual	<0.3	<0.3			0.01	no
Annual	MW1	Mangnesium		Annual	596.1	50.4	mg/l		50	no
Annual	MW1	Manganese		Annual	4870.6	5337.6	ug/l		0.05	no
Annual	MW1	Mercury		Annual	0.1	0.05	ug/I		0.001	no
Annual	MW1	Nickle		Annual	4.3	21.6	ug/I		0.02	no
Annual	MW1	Potassium		Annual	199.3	156.7	mg/l		5	no
Annual	MW1	Sulphate		Annual	1132.2	48.8	mg/l		200	no

Ground	water/Soil m	onitoring te	emplate		Lic No:	W0068-03		Year	2013	
Annual	MW1	Total Alkalinity		Annual	509	1587.7	mg/l			no
Annual	MW1	Total Phosphorus		Annual	5.09		mg/l			no
Annual	MW1	Phenols		Annual	<0.15		ug/l		0.5	no
Annual	MW1	Acenaphthylene		Annual	<0.5	<0.5	ug/l			no
Annual	MW1	Anthracene		Annual	0.1		ug/l			no
Annual	MW1	Benzene		Annual	<2	<2	ug/l		1	no
Annual	MW1	Bromodichlorome thane		Annual	<1	<1	ug/l			no
Annual	MW1	Bromoform		Annual	<1	<1	ug/l			no
Annual	MW1	Chloroform		Annual	<1		ug/I		12	no
Annual	MW1	Chrysene		Annual	<1		ug/l			no
		Dibromochlorome			<1	<1				
Annual	MW1	thane		Annual			ug/l			no
	MW1	Fluoranthene		Annual	<1		ug/I			no
Annual	MW1	Fluorene		Annual	<1	<1	ug/I			no
Annual	MW1	Naphthalene		Annual	<2.0	<2.0	ug/l			no
Annual	MW1	Dibromochlorome thane		Annual	<1		ug/l			no
Annual	MW1	Pentachloropheno I		Annual	<1		ug/l		2	no
Annual	MW1	Phenanthrene		Annual	<1	<1	ug/l			no
Annual	MW1	Pyrene		Annual	<1		ug/I			no
Annual	MW1	Tetrachloroethene		Annual	<0.1	<0.1	ug/l			no
Annual	MW1	Trichloroethene		Annual	<0.1	<0.1	ug/l			no
Annual	MW1	Hexachlorobenzen		Annual	<1	<1	ug/l		0.03	20
Annuai	101001	e Hexachlorobutadi		Annuai	<0.5	<0.5	ug/i		0.03	110
Annual	MW1	ene		Annual	<1	<1	ug/l		0.1	no
		2,4,6-			<1	<1				
Annual	MW1	Trichlorophenol		Annual			ug/l			no
Annual	MW1	2,4- Dichlorophenol		Annual	<1	<1	ug/l			no
					<1	<1				
Annual	MW1	2,4- Dimethylphenol		Annual			ug/l			no
Annual	MW1	2-Chlorophenol		Annual	<1	<1	ug/l			no
					<0.5	<0.5				
Annual	MW1	1,2,4- trichlorobenzene		Annual			ug/l			no
					<0.5	<0.5				
Annual	MW1	1,2- dichlorobenzene		Annual			ug/l			no
		1 2			<0.5	<0.5				
Annual	MW1	1,3- dichlorobenzene		Annual			ug/I			no
					<0.5	<0.5				
Annual	MW1	1,4- dichlorobenzene		Annual			ug/l			no
					<1	<1				
Annual	MW1	2,4,5- Trichlorophenol		Annual			ug/l			no
Annual	MW1	2,4-Dinitrotoluene		Annual	<1	<1	ug/l			no
	1				<1	<1				

Ground	water/Soil m	nonitoring te	emplate		Lic No:	W0068-03		Year	2013	
		2- Chloronaphthalen			<1	<1				
Annual	MW1	e	Annu	al			ug/l			no
		2-			<1	<1				
		Methylnaphthalen								
Annual	MW1	e	Annu	al	<1	<1	ug/l			no
Annual	MW1	2-Methylphenol	Annu	al			ug/l			no
Annual	MW1	2-Nitrophenol	Annu	al	<1	<1	ug/l			no
		4-Bromophenyl			<1	<1				
Annual	MW1	Phenyl Ether 4-Chloro-3-	Annu	al	<1	<1	ug/l			no
Annual	MW1	methylphenol	Annu	al	<1	<1	ug/l			no
		4-Chlorophenyl			<1	<1				
Annual	MW1	phenyl ether	Annu	al			ug/l			no
Annual	MW1	4-Nitrophenol	Annu		<5		ug/l			no
Annual	MW1	Acenaphthene	Annu	al	<1		ug/l			no
Annual	MW1	Benzo(a)anthrace ne	Annu	al	<1	<1	ug/l			no
Annual	MW1	Benzo(a)pyrene	Annu		<1	<1	ug/l			no
		Benzo(b)fluoranth	Aina		<1	<1				
Annual	MW1	ene	Annu	al			ug/l			no
Annual	MW1	Benzo(g,h,i)peryle	Annu	al	<1	<1	ug/l			no
		Benzyl Butyl	Aina	ai	<1	<1				110
Annual	MW1	Phthalate	Annu	al			ug/l			no
		Bis(2- chloroethoxy)met			<1	<1				
Annual	MW1	hane	Annu	al			ug/l			no
				•	<1	<1				-
Annual	MW1	Bis(2- chloroethyl)ether		-1						20
Annual		Bis(2-	Annu	ai	<1	<1	ug/I			no
		chloroisopropyl)et								
Annual	MW1	her	Annu	al			ug/l			no
		Bis(2- ethylhexyl)phthala			<5	<5				
Annual	MW1	te	Annu	al			ug/l			no
		Dibenz(a,h)anthra			<1	<1				
Annual	MW1	cene	Annu		<1	-1	ug/l			no
Annual	MW1	Dibenzofuran	Annu	aı	<1	<1	ug/l			no
Annual	MW1	Diethylphthalate	Annu	al			ug/l			no
		di-n-	İ		<1	<1				
Annual	MW1	Butylphthalate Di-n-	Annu	al	<1	<1	ug/l			no
Annual	MW1	octylphthalate	Annu	al	<1	<1	ug/l			no
Annual	MW1	Diphenylamine	Annu		<1	<1	ug/l			no
					<1	<1				
Annual	MW1	Hexachloroethane	Annu	al			ug/l			no
Annual	MW1	Indeno(1,2,3- c,d)pyrene	Annu	al	<1	<1	ug/l			no
Annual	MW1	Isophorone	Annu		<1	<1	ug/l			no
Annual	MW1	Nitrobenzene	Annu		<0.5	<0.5	ug/l			no
		n-Nitrosodi-n-			<1	<1				
Annual	MW1	propylamine	Annu				ug/l			no
Annual	MW1	Acetone	Annu	al	<2		ug/l			no
Annual	MW1	Dichloromethane	Annu	al	<5	<5	ug/l			no
			Aina		<0.5	<0.5				
Annual	MW1	Tetrahydrofuran	Annu	al			ug/l			no
Annual	MW1	Toluene	Annu	al	<0.5	<0.5	ug/l		10	no

Ground	water/Soil m	nonitoring te	mplate	Lic No:	W0068-03		Year	2013	
Annual	MW1	Xylene -o	Annual	<0.5	<0.5	ug/l		10	no
		Dichlorodifluorom		<10	<10	"			
Annual	MW1 MW1	ethane	Annual	<0.5	<0.5	ug/l			no
Annual	MW1	Chloromethane Ethyl	Annual	<0.5	<0.5	ug/I			no
		Chloride/Chloroet		<0.0	<0.0				
Annual	MW1	hane	Annual			ug/l			no
Annual	MW1	Vinyl Chloride	Annual	<0.5	<0.5	ug/l			no
Annual	MW1	Bromomethane	Annual	<0.5	<0.5	ug/l			no
A	MW1	Trichloromonofluo		<0.5	<0.5				20
Annual	IVIVVI	romethane Ethyl	Annual	<0.5	<0.5	ug/l			no
		Ether/Diethyl		40.0	40.0				
Annual	MW1	Ether	Annual			ug/l			no
Annual	MW1	11 Dichloroethene	Annual	<0.5	<0.5	ug/l			no
Annuar	INI VY I	Iodomethane/Met	Annual	<0.5	<0.5	05/1			110
Annual	MW1	hyl lodide	Annual			ug/l			no
A		Cashag Disulahi i		<0.5	<0.5				
Annual	MW1	Carbon Disulphide	Annual	<0.5	<0.5	ug/l			no
Annual	MW1	Allyl Chloride Chlormethyl	Annual	<0.5	<0.5	ug/I			no
1		Cyanide/Chloroac		<0.5	<0.5				
Annual	MW1	etonitrile	Annual			ug/l			no
Annual	MW1	Propanenitrile	Annual	<10	<10	ug/l			no
Annual	MW1	Trans-1,2 Dichloroethene	Americal	<0.5	<0.5	ug/l			no
	MW1 MW1	Dichloroethene MtBE	Annual	<0.5	<0.5	ug/l			no
Annual	IVI VV 1	MtBE 1,1-	Annual	<0.5	<0.5	ug/1			110
Annual	MW1	dichloroethane	Annual	-0.5	-0.5	ug/l		30	no
	1	1		<0.5	<0.5				
Annual	MW1	2,2- dichloropropane	Annual			ug/l			no
, amuur		cis-12	Annuai	<0.5	<0.5	····			
Annual	MW1	Dichloroethene	Annual			ug/l			no
Annual	MW1	2-Butanone	Annual	<5		ug/l			no
Annual	MW1	Methyl Acrylate	Annual	<0.5	<0.5	ug/l			no
A		Bromochlorometh		<0.5	<0.5				
Annual	MW1	ane	Annual	<0.5	<0.5	ug/l			no
Annual	MW1	Methacrylonitrile	Annual	<0.5	<0.5	ug/l			no
				<0.5	<0.5				
Annual	N4)4/1	1,1,1-				ug/l			20
Annual Annual	MW1 MW1	trichloroethane 1-Chlorobutane	Annual	<0.5	<0.5	ug/l		500	no
Annual	IVI VÝ 1	1-Chlorobutane Carbon	Annual	<0.5	<0.5	ug/I			no
Annual	MW1	Tetrachloride	Annual		<0.5	ug/l			no
				<0.5	<0.5				
Annual	MW1	11 Dichloropropene	Annual			ug/l			no
Amiuai	IVI VV 1	Dichloropropeile	Annual	<0.1	<0.1	ug/1			10
Annual	MW1	1,2 dicloroethane	Annual			ug/I			no
				<0.5	<0.5				
Annual	MW1	1,2- dichloropropane	Annual			ug/l			no
			Ainuai	<0.5	<0.5	-01			
Annual	MW1	Dibromomethane	Annual			ug/l			no
Appual	N4)4/1	Methyl		<0.5	<0.5				20
Annual	MW1	Methacrylate	Annual			ug/l			no
<u> </u>		13		-2	-2				
	MW1	13 Dichloropropene,c		<2	<2				

Ground	water/Soil	monitoring templ	ate	Lic No:	W0068-03		Year	2013	
Annual	MW1	MIBK/4 Methyl 2 Pentanone	Annual	<2	<2	ug/l			no
		13 Dichloropropene,t		<2	<2				
Annual	MW1	rans	Annual			ug/l			no
Appual	MW1	Ethyl		<2	<2				
Annual	IVI VV 1	Methacrylate	Annual	<0.5	<0.5	ug/l			no
		112							
Annual	MW1	Trichloroethane	Annual	<0.5	<0.5	ug/l			no
A	MW1	1,3-							
Annual Annual	MW1	dichloropropane 2-Hexanone	Annual Annual	<1	<1	ug/l ug/l			no no
		1,2-	Allitudi	<0.5	<0.5	ug/1			110
Annual	MW1	dibromoethane	Annual	.0.5	-0.5	ug/l			no
Annual	MW1	Chlorobenzene	Annual	<0.5	<0.5	ug/l		1	no
		1,1,1,2-			14				
Annual	MW1	tetrachloroethane	Annual	<0.5	<0.5	ug/l			no
Annual Annual	MW1 MW1	Ethylbenzene Xylene P&M	Annual Annual	<0.5		ug/I ug/I		10	no no
Annual	MW1	Styrene	Annual	<2	<2	ug/l			no
				<0.5	<0.5				
Annual	MW1	Isopropylbenzene	Annual	<0.5	<0.5	ug/l			no
Annual	MW1	Bromobenzene	Annual	<0.5	<0.5	ug/l			no
		1,1,2,2-							
Annual	MW1	tetrachloroethane	Annual	<2	<2	ug/l			no
		1,2,3-		_	_				
Annual	MW1	trichloropropane	Annual	<2	<2	ug/l			no
		Trans 14 Dichloro		_	_				
Annual	MW1 MW1	2 Butene, tran	Annual	<0.5	<0.5	ug/l			no
Annual	IVI VV 1	Propylbenzene	Annual	<0.5	<0.5	ug/l			no
Annual	MW1	2-chlorotoluene	Annual			ug/l			no
Annual	MW1	4-chlorotoluene	Annual	<0.5	<0.5	ug/l			no
		1.25		<0.5	<0.5				
Annual	MW1	1,3,5- trimethylbenzene	Annual			ug/l			no
A				<0.5	<0.5				
Annual	MW1	Tert Butyl Benzene	Annual	<0.5	<0.5	ug/l			no
		1,2,4-		10.0	10.10	4			
Annual	MW1	trimethylbenzene	Annual	<0.5	<0.5	ug/l			no
Annual	MW1	sec-butylbenzene	Annual			ug/l			no
		Р		<0.5	<0.5				
Annual	MW1	Isopropyltoluene	Annual			ug/l			no
Annual	MW1	N Butyl Benzene	Annual	<0.5	<0.5	ug/l			no
		1,2-dibromo-3-		<2	<2				
Annual	MW1	chloropropane	Annual	<0.5	<0.5	ug/l	_		no
		1,2,3-		<0.5					
Annual	MW1	trichlorobenzene	Annual			ug/l			no
						SELECT			SELECT
	I		1			JLLEUI		I	JLLEUI

Groundwater/Soil monitoring template	Lic No: V	N0068-03	Year	2013			
*please note exceedance of generic assessment criteria (GAC) such as a Groundwatt trend in results for a substance indicates that further interpretation of monitorin complete the Groundwater Monitoring Guideline Template Report at the link pro otherwise instructed	g results is required. In add ovided and submit separat	dition to completing the above table, please		undwater monito	ring template		
More information on the use of soil and groundwater standards/ generic assessment criteria (GAC) and risk assessment tools is available in the EPA published guidance (see the link in G31)		Management of Contaminated Land and	<u>Groundwater</u>	at EPA Licensed Si	tes (EPA 2013).		
**Depending on location of the site and proximity to other sensitive receptors alterr to the GTV e.g. if the site is close to surface water compare to Surface Water Enviror supply compare results to the Drinki	nmental Quality Standards	(SWEQS), If the site is close to a drinking wate		regulations	Drinking water (private supply) standards	Drinking water (public supply) standards	Interim Guideline Values (IGV)

Groundwater	/Soil monitoring	g template
-------------	------------------	------------

W0068-03

03

2013

Year

Table 3: Soil results

	Sample						
Date of	location	Parameter/		Monitoring	Maximum	Average	
sampling	reference	Substance	Methodology	frequency	Concentration	Concentration	unit
							SELECT
							SELECT

Where additional detail is required please enter it here in 200 words or less

Lic No:

Environmental Liabilities template	Lic No:	W0068-03	Year	

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

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

Envir	onmental Management Programme/Continuous Improvement Programme	e template	Lic No:	W0068-03	Year	2013
	Highlighted cells contain dropdown menu click to view		Additional Information		_	
1 Dov	you maintain an Environmental Mangement System (EMS) for the site. If yes, please detail in additional information	Yes		s on Use of manual, Site location and f waste accepted and procedures,		
2 Does	s the EMS reference the most significant environmental aspects and associated impacts on-site	Yes				
Does 1	the EMS maintain an Environmental Management Programme (EMP) as required in accordance with the licence requirements	Yes				
Do ye 4	ou 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							
	10% Reduction in Odour		extraction system and							
Reduction of emissions to Air	Complaints	100	operational controls	Site Staff	Less complaints					
			Improvement of Civic							
			Amenity Site layout and							
	Improve annual recycling		improved maintenance of							
Materials Handling/Storage/Bunding	rate by 5%	80	existing infrastructure	Site Staff & Management	Installation of infrastructure					
			Liasing with Security							
			Company and An Gardaí							
			Síochana to deter would-be		Improved Environmental					
Additional improvements	Improve Site Security	90	intruders	Site Staff & Management	Management Practices					
	To control environmental		Reduction of waste intake,		Increased compliance with					
Additional improvements	nuisances at the facilty	90	improved site practises	Site Staff & Management	licence conditions					
			Improvement of site practise							
	Improve annual		to ensure minimal							
	environmental parameters		interaction with surrounding		Increased compliance with					
Groundwater protection	at the site	70	environment	Site Staff	licence conditions					

Noise monitoring summary report	Lic No:	W0068-03	Year	2013
		Vee		
 Was noise monitoring a licence requirement for the AER period? If yes please fill in table N1 noise summary below 		Yes		
	Noise			
2 Was noise monitoring carried out using the EPA Guidance note, including completion of the	Guidance	Yes		
"Checklist for noise measurement report" included in the guidance note as table 6?	note NG4			
3 Does your site have a noise reduction plan		No		
4 When was the noise reduction plan last updated?		N/A		
5 Have there been changes relevant to site noise emissions (e.g. plant or operational changes) sinc survey?	e the last noise	No		

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)?
09/10/2013	30min	N1		47.8	44.9	49.8	70.1	No	SELECT	No facility emissions audible. N25 traffic to NW and N continuously audible and dominant.Rustling vegetation locally. No other noise apart from bird song/calls and aircraft.	Yes
09/10/2013		N2		51.6		53.8	69.7	No		No facility emissions audible. N25 traffic to NW and N continuously audible and dominant. No other noise apart from bird song/calls and aircraft.	Yes
09/10/2013	30min	N3		46.1	41.3	47.2	65	No		Gas flare plant emissions audible at low level. Continuous emissions also slightly audible from offsite waste management facility. Distant traffic continuously audible and dominant. Bird song/calls and aircraft.	Yes

09/10/2013	30min	N4	47.9	44.7	49.8	68	Yes	No	Noise audible from sporadic vehicle movements through gate and into CAS. Distant road traffic and emissions from vents at adjacent waste management facility audible at continuously low level. Bird song/calls and aircraft.	Yes
09/10/2013	30min	S1	48.3	49.2	49.9	63.7	No		No facility emissions audible and no emissions audible other than N25 traffic	Yes
09/10/2013	30min	52	48.6	50.8	51.2	64.9	No		No emissions audible from site. Continuous road traffic to SW, W and NW dominant. Occasional vehicle movements on access road to site dominant when present. Bird song/calls and aircraft.	Yes

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

SELECT

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

	** please explain the reason for not taking action/resolution of noise issues?
Γ	
	Site fully compliant with WL noise Regulations

Resource Usage/Energy efficiency summary	Lic No:	W0068-03	Year	

Additional in	formation
---------------	-----------

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

 Is the site a member of any accredited programmes for reducing energy usage/water conservation such

 2
 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

table 3 below	Enter date of audit	
SEAI - Large		
Industry Energy		
Network (LIEN)	No	
ite percentage in		
	SELECT	

Table R1 Energy usag	e on site			
Energy Use	Previous year		Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*
Total Energy Used (MWHrs)	166.686	94.214	-43%	
Total Energy Generated (MWHrs)	0	0		
Total Renewable Energy Generated (N	0	0		
Electricity Consumption (MWHrs)	166.686	94.216	-43%	
Fossil Fuels Consumption:				
Heavy Fuel Oil (m3)	0.25	0.2	-20.00%	
Light Fuel Oil (m3)	20	18	-10%	
Natural gas (m3)	0	0	0	
Coal/Solid fuel (metric tonnes)				
Peat (metric tonnes)				
Renewable Biomass				
Renewable energy generated on site				

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

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

Table R2 Water usage on site					Water 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	214	204	-5%	N/A	204	N/A				
Recycled water										
Total	214	204	-5%		204					

* 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	Resource Usage/Energy efficiency summary				Lic No:	W0068-03		Year	2013
	Table R4: Energy Audit finding recommendations								
	Date of audit		Description of Measures proposed	Origin of measures	Predicted energy savings %	Implementation date	Responsibility		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:	W0068-03	Year	2013	
Complaints						
		Additional inform	ation			
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	Yes					
			_			

Activity in

SELECT

SELECT

SELECT

SELECT

SELECT

progress at

time of incident Communication

SELECT

SELECT

SELECT

SELECT

SELECT

Occurrence SELECT

SELECT

SELECT

SELECT

SELECT

words

Table :	1 Complaints summary						
			Brief description of				
			complaint (Free txt <20	Corrective action< 20			Further
Date	Category	Other type (please specify)	words)	words	Resolution status	Resolution date	information
				Gas wells drained of			
				leachate. Improved			
21/03/2014	Odour		Odour at Industrial Estate	effective length	Complete	22/03/2014	
				Gas wells drained of			
				leachate. Improved			
07/06/2014	Odour		Odour at NCT Centre	effective length	Complete	08/06/2014	
				Gas wells drained of			
				leachate. Improved			
17/07/2014	Odour		Odour at Recycling Centre	effective length	Complete	17/07/2014	
				Gas wells drained of			
				leachate. Improved			
14/10/2014	Odour		Odour at Residence	effective length	Complete	15/10/2014	
				Gas wells drained of			
				leachate. Improved			
16/10/2014	Odour		Odour at NCT Centre	effective length	Complete	16/10/2014	
Total complaints							
open at start of							
eporting year		0					
Total new		-					
complaints							
eceived during							
eporting year		5					
Total complaints		-					
closed during							
reporting year		5					
Balance of		-					
complaints end of							
reporting year		0					
		-					

		Incidents				
					Additional information	ation
Have any incidents	occurred on site in the current rep	01	dents for current reporting	SEL FOT		
	year in 1	able 2 below	-	SELECT		J
*For informati	on on how to report and what					
	stitutes an incident	What is an incident				
	bitteres an indicent					
Table 2 Incidents su	mmary	-	<u> </u>			
						Other
			Incident category*please			cause(please
Date of occurrence	Incident nature	Location of occurrence	refer to guidance	Receptor	Cause of incident	specify)
	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 Preventative

words

Resolution

date

Resolution status

SELECT

SELECT

SELECT

SELECT

SELECT

Likelihood of

reoccurence

SELECT

SELECT

SELECT

SELECT

SELECT

Corrective action<20 action <20

Complaints and Incidents summ	ary template	Lic No:	W0068-03	Year	2013	
Total number of						
incidents previous						
year						
% reduction/						
increase						

WASTE SUMMARY	Lic No:	W0068-03	Year	2013
SECTION A-PRTR ON SITE WASTE TREATMENT AND WASTE TRANSFERS TAB- TO BE COMPLETED BY	ALL IPPC AND WASTE FACILITIES	PRTR facility logon	dropdown list	click to see options

	CTOR SPECIFIC PRTR POLLUTANTS	ELEASES TO AIR			Please enter all quantities in this	antion in KCo		
	POLLUTANT	ELEASES TO AIR	METHOD		Please enter all quantities in this	section in KGS	QUANTITY	
	FOLLOTANI			ethod Used			QUANTITI	1
			N	ethod Used				
						T (Total)	A (Accidental)	
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	KG/Year	KG/Year	F (Fugitive) KG/Year
				Measured through				
				analysis of flue gas				
1	Methane (CH4)	M	OTH	emissions monitoring	(0.0 203755.	0.0	20375
				Measured through				
				analysis of flue gas				
3	Carbon dioxide (CO2)	M	ISO 12039:2001	emissions monitoring		0.0 1769598.0	0.0	176959
				Measured through				
				analysis of flue gas				
2	Carbon monoxide (CO)	M	ISO 12039:2001	emissions monitoring	(0.0 61.2	4 0.0	61
				Measured through				
				analysis of flue gas				
7	Non-methane volatile organic compounds	M	EN 13649:2001	emissions monitoring	(0.0 9.5	в 0.0	9
				Measured through				
				analysis of flue gas				
8	Nitrogen oxides (NOx/NO2)	M	EN 14792:2005	emissions monitoring	(0.0 365.7	5 0.0	365
				Measured through				
				analysis of flue gas				
1	Sulphur oxides (SOx/SO2)	м	EN 14791:2005	emissions monitoring		0.0 340.7	7 0.0	340

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

SECTION B : REMAINING PRTR POLLUTANTS

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

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

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

	F	RELEASES TO AIR			Please enter all quantities in this se	ction in KGs			
	POLLUTANT		METHOD			QUANTITY			
			Met	thod Used					
						T (Total)	A (Accidental)		
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	KG/Year	KG/Year	F (Fugitive) KG/Year	
					0.0) (0.0	0 0.0	

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

Landfill:	Youghal Landfill					
Please enter]	
summary data on the quantities of						
methane flared and /						
or utilised			Meth	nod Used		
				Designation or		
	T (Total) kg/Year	M/C/E	Method Code	Description	Facility Total Capacity m3 per hour	
Total estimated						
methane generation						
(as per site model)	1191229.0	С	OTH	GasSim Model	N/A	
				Measured through analysis of flue gas		
Methane flared	987474.0	м	ОТН	emissions monitoring	1380.0	(Total Flaring Capac
hane utilised in engine/s			0.111			(Total Utilising Capa
nane acinoca in engine/o	0.0				0.0	(Total othising capa
Net methane emission				Measured through		
(as reported in Section				analysis of flue gas		
(as reported in Section A above)	203755.0	c	отн	emissions monitoring and GasSim Model	N/A	

Please enter all quantities on this sheet in Tonnes

WASTE SUMMARY	1				Lic No:	W0068-03		Year	2013			
			Quantity (Tonnes per Year)			м	ethod Used		Haz Waste : Name and Licence/Permit No of Next Destination Facility <u>Nor. Haz Waste</u> : Name and Licence/Permit No of Recover/Disposer	Haz Waste : Address of Next Destination Facility <u>Non</u> Haz Waste: Address of Recover/Disposer	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address (Destination i.e. Recovery / Dis Site (HAZARD WASTE ON
Transfer Destination	European Waste Code	Hazardous		Description of Waste	Waste Treatment Operation	M/C/E	Method Used	Location of Treatment				
Vithin the Country	13 02 05	Yes	3.22	mineral-based non- chlorinated engine, gear and lubricating oils		M	Weighed	Offsite in Ireland	Enva Ltd,W0184-01	Clonminam Industrial Estate,Portlaoise ,Co Laois,.,Ireland		
/ithin the Country	15 01 01	No	65.9	paper and cardboard packaging	R3	м	Weighed	Offsite in Ireland	Greenstar Ltd,W0136-01	Sarsfield Court Industrial Estate,Glanmire, Cork,.,Ireland Corbally		
Vithin the Country	15 01 02	No	20.08	plastic packaging	R5	м	Weighed	Offsite in Ireland	Green Dragon Recycling,CK/09/0629/01	North,Glanmire, Cork,.,Ireland		
Vithin the Country	15 01 04	No	3.3	metallic packaging	R4	М	Weighed	Offsite in Ireland	Green Dragon Recycling,CK/09/0629/01	Corbally North,Glanmire, Cork,.,Ireland		
lithin the Country	15 01 07	No	45.68	glass packaging	R5	м	Weighed	Offsite in Ireland	Mr. Binman,W0061-01	Luddenmore,Gra nge,Kilmalock,Co Limerick,Ireland		
Vithin the Country	16 06 01	Yes	1.5	landfill leachate other	R4	м	Weighed	Offsite in Ireland	KMK Metals Ltd, W0133-03	Carrigtohill Wastewater Treatment Plant,Tullagreen,	Ltd,W0133- 03,Cappincur Industrial Estate,Tullamore, Co Offlay,.,Ireland	
Vithin the Country	19 07 03	No	3784.6	than those mentioned in 19 07 02	D8	м	Weighed	Offsite in Ireland	Cork County Council,.	Carrigtohill ,Co Cork,Ireland Sarsfield Court		
Vithin the Country	20 01 01	No	102.32	paper and cardboard	R3	м	Weighed	Offsite in Ireland	Greenstar Ltd,W0136-01	Industrial Estate,Glanmire, Cork,.,Ireland 41-42 Cookstown Industrial Estate,Tallaght,D		
Vithin the Country	20 01 02	No	6.98	glass	R5	м	Weighed	Offsite in Ireland	MSM Recycling, W0079-01	ublin,D 24,Ireland		
/ithin the Country	20 01 11	No	11.72	textiles	R5	М	Weighed	Offsite in Ireland	Textile Recycling Ltd,WCP-DC- 08-1225-01	Glen Abbey Business Park,Tallaght,Du blin,D24,Ireland Clonminam	Enva Ltd, W0184-	
/ithin the Country	20 01 27	Yes		paint, inks, adhesives and resins containing dangerous substances	81	м	Weighed	Offsite in Ireland	Enva Ltd,W0184-01	Industrial Estate,Portlaoise ,Co Laois,.,Ireland	01,Clonminam Industrial Estate,Portlaoise, Co Laois,.,Ireland	
and the obuility	200121		5.4	dangerous substances			Togriou	Strate in relatiu	21113 210,00104-01	cools,,,irelanu	co coois,,,ireianu	5 6015,.,11

WASTE SUMMAR	Y			Lic No:	W0068-03		Year	2013	
			discarded electrical and						Cappinacur
			electronic equipment						Industrial
			other than those						Estate, Tullamore
			mentioned in 20 01 21,						,Co
Within the Country	20 01 36	No	184.74 20 01 23 and 20 01 35	R4	м	Weighed	Offsite in Ireland	KMK Metals Ltd, W0133-03	Offlay,.,Ireland
									Rostellan,Midlet
			wood other than that					CTO Environmental Solutions	on,Co
Within the Country	20 01 38	No	67.2 mentioned in 20 01 37	R13	м	Weighed	Offsite in Ireland	Ltd,CK/09/0068/02	Cork,.,Ireland
									Pouladuff
								Pouladuff Dismantlers Ltd,CK(S)	
Within the Country	20 01 40	No	45.36 metals	R4	м	Weighed	Offsite in Ireland	478/07	k ,.,Ireland
									Kilberry,Athy,Co
									Kildare,Kildare,Ir
Within the Country	20 02 01	No	50.42 biodegradable waste	D 2	м	Weighed	Offsite in Ireland	Bord na Mona,W0198-01	eland
within the Country	20 02 01	NO	50.42 biodegradable waste	K5	IVI	weigheu	Onsite in relatio	Bord na Wona, W0198-01	elanu

SECTION B	3- WASTE ACCEPTED ONTO SITE-TO BE COMPLETED BY ALL IPPC AND WASTE FACILITIES		
1 to be capture	stes accepted onto your site for recovery or disposal or treatment prior to recovery or disposal within the boundaries of your facility ?; (waste generated within your boundaries is ad through PRTR reporting) enter details in table 1 below	No	Additional Information
	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	No	

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

Licenced annual	EWC code	Source of waste accepted		Quantity of waste	Quantity of waste accepted in	Reduction/		Packaging Content (%)-	Disposal/Recovery or	Quantity of	Comments -
tonnage limit for your			accepted	accepted in current	previous reporting year (tonnes)	Increase 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	
			applies to relevant EWC							year (tonnes)	
			code								
	European Waste Catalogue EWC codes		European Waste								
			Catalogue EWC codes								

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

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

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

6 Does your facility have relevant nuisance controls in place?

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

8 Do you maintain a sludge register on site?

SELECT	
SELECT	
SELECT	
SELECT	
SELECT	

WASTE SUMMARY

SECTION D-TO BE O	COMPLETED BY LANDFILL SITES O	NLY		
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 & Commercial	128,000	0		Void Area is almost completely filled. Waste has ceased to be accepted but managemnt of Cork County Council have yet to decide when to fill the remaining void
Industrial non-haz	27,000	0	200	
Construction&Demoliti on Waste	5,300	0		

Table 3 General information-Landfill only

Area ID	Date landfilling commenced	Date landfilling ceased	Currently landfilling	Private or Public Operated	Inert or non-hazardous	Predicted date to cease landfilling	Licence permits asbestos	Is there a separate cell for asbestos?		Total disposal area occupied by waste	Lined disposal area occupied by waste	Unlined area
										m2	m2	m2
Cell 9	Dec-08	Temporary Cease Feb 2012	Yes	Public	Non Hazardous	2015	No	No	No	80000	40000	40000

W0068-03

Year

Lic No:

NASTE SUMMARY					Lic No:	W0068-03		Year	
able 4 Environment	able 4 Environmental monitoring-landfill only Landfill Manual-Monitoring Standards								
	Vas leachate monitored in compliance	Was Landfill Gas monitored in compliance with LD standard in	standard in reporting		Were emission limit values agreed with	Was topography of the site surveyed in	Has the statement under S53(A)(5) of WMA been submitted in reporting year	Comments	
'es Ye	'es	Yes	Yes	Yes	Yes	Yes	Yes	All license conditions being met under current monitoring regime	

 Yes
 Yes

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

Table 5 Capping-Landfill only

Area uncapped* SELECT UNIT	Area with temporary cap SELECT UNIT	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
					1mm HDPE welded liner, geotextile drainage layer and protection barrier covered with 1m of suitable, screened	
0	17,000 square metres	81,800 square metres	0	0	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

olume of leachate in reporting year(m3)			Leachate (NH4) mass load (kg/annum)	Leachate (Chloride) mass load kg/annum		Specify type of leachate treatment	Comments
							Values lower than
							previous years due
						Wastewater	to reduced quantity
						Treatment Plant	of leachate taken
						with Mixing tank,	off-site and a
						Oxidation ditch	reduction in
						& Settlement	parameter results in
3784.6	84.02	769.4	45.79	6413	No	tanks	the leachate.

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
				staff. Well heads and
				flanked areas are
				repaired to improve
				gas system coverage at
987474 kg CH4/Annum	0	0	Yes	the site.

