Facility Information Summary

Licence Register Number	W0169-01
Name of site	Mulleady's Limited
Site Location	Cloonaugh, Drumilish, County Longford
NACE Code	3821
Class of Activity	Principal Class of Activity 3.13
RBME risk category	
National Grid Reference (6E, 6 N)	-7.7835 53.8063
	Mulleady's Ltd is a waste recycling and transfer facility licenced to accept 95,000 tonnes of waste per annum. We

operate three recycling Sheds. Recycling Shed No. 1 deals with all mixed waste from wheelie bins, skips and rollons. Recyclable elements are hand picked off, the waste is then shredded and trommelled. The oversize (over 50 mm) goes to landfill and the undersize (under 50 mm) comprising of waste fines goes to a composting plant for stabilisation. Recycling Shed No. 3 houses newly installed equipment and a picking station for the segregation of mixed dry recyclables loads from domestic, commercial and industrial outlets. New installed equipment and picking station in Shed 3 allowed Mulleady's to accept and process cca 900 tonnes more mixed dry recyclables compare to 2010. In 2011 Mulleady's produced high quality polymer separated PET and HDPE Bottles, Mixed Plastic Trays. Mulleadys accepted 20039.68 tonnes of material in reporting period 2011 of which 36% was sent to lanfill, 47% recycled and 17% stabilised. By continuous introduction of Brown Bin to commercial and household customers we diverted 340 tonnes of Organic Waste from Landfill.

Declaration:

A brief description of the activities/process

include information such as production

infrastructural changes, environmental

performance improvements which were

measured during the reporting year;

increases or decreases on site, any

at the site for the reporting year. This should

.

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. uduilo gatry _24/05/2012_ Date Signature Group/Facility manager (or nominated, suitably qualified and experienced deputy)

please enter details sur site have any rej	ed onto your site for recovery or dis and through PRTR reporting) s in table 1 below jected consignments of waste in the	current reporting year? If yes ple	ase give a brief explanation	in the additional informati	ion	No						
Was wa	ste accepted onto your site that wa	s generated outside the Republic	of ireland? if yes please stat , disposal or treat	ment (do not incl	ude wastes generated at y Quantity of waste accepted in		these will have Reasonfor	Packaging Content (%)-	Disposal/Recovery or		Comments -	
erced annual ge limit for your site (total nnes/annum)			Description of waste accepted Please enter an accurate and detailed description - which <u>European Waste</u> Catalogue EWC codes	accepted in current reporting year (tonnes)	previous reporting year (tonnes)	ease over previous year +/ - %	reduction/increase from previous reporting year	only applies if the waste has a packaging component	treatment operation carried out at your site and the description of this operation	waste remaining on site at the end of reporting year (tonnes)		
	European Waste Catalogue EWC									year (tonnes)		
	07 05 04*	07- WASTES FROM ORGANIC OVEMICAL PROCESSES 20- MUNICIPAL WASTES	other organic solvents, washing liquids and mother liquors	22	12	63%		05	guer		Brought onto site from skiter IPPC plant	
		OF WALLEY AND COMMUN- OPERACAL PROCESSES 26-MUNICIPAL WARTES INCUSENCLO WARTE AND SIMUAR COMMERCIAL INDUSTRIAL AND INSTITUTIONAL WARTES) INCLUDING SEPARATELY										
	.20 03 08	INCLUDING SEPARATELY COLLECTED FRACTIONS 20- MUNICIPAL WASTES (MOUSENOLD WASTE AND SIMILAR COMMERCIAL,	biodegrodable kitchen and canteen waste Mixed residual waste from household and commercial	10	20	-52%		0%	guet			
		SIMLAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTESJ INCLUDING SEPARATELY COLLECTED FRACTIONS	comections						D13- Blending or mixing prior to submission to any of the countries numbered 01 to 012			
	200301	COLLECTED FRACTIONS 20- MUNICIPAL WASTES (MCUSENCLD WASTE AND SIMUAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY	Mixed dry recyclables from household and commercial collections	9642.65	9692.26		-18	NA		190	MDR brouht to	
	200301	INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS		4016.82	2712.67		51%	21%	AS-Recycling/reclamation or ather inarganic materials which includes soil celaning resuling in recovery of the soil and recycling of inarganic construction materials	100	MDR brouht to the site fram other Transfer Stations for oicking	
		DELECTED FRACTIONS 20-MUNICIPAL WASTES (MOUSENOLD WASTE AND SIMULAR COMMERCIAL, INDUSTRIAL AND	Food waste from household and commercial collections								Brown Bin Introduced to mare tawnd	
	202108	INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS 20- MUNICIPAL WASTES	Paper form municipal	228.66	120.44		BIN	Not coolicable	D15-Storage pending any of the aperations numbered D1 to D54		within County Longford and Westmeath	
		25- MENICIPAE WARTS INDUSENGLD WARTS INDUSENGLD WARTS AND SIMULAR COMMISSION, INDUSENULAND INSTITUTIONAL WARTSS INCLUDING SERVENTES COLLECTED FRACTIONS 25- MENICIPAE WARTSS	sources						R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary		Mulleady's last a contract with Local Printing	
	200201	MOUSEHOLD WASTE AND	Not packaging wood (wooden familiare).	234.42	452.54		-625	200%	R1 to R12 (excluding temporary stanaar)	200	Local Printing Company	
		SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES)							R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary			
	200128	INCLUDING SEPARATELY COLLECTED FRACTIONS 26-MUNICIPAL WASTES (NOUSENOLD WASTE AND COMPLEX COMPLETED IN	Metal coming trom municipal collections.	65.46	52.45		12%	0%	stanaari			
	200540	COLLICITE FRACTIONS 204 MUNICANE WARTS MOUSTINGLO WARTS AND SIMULAR COMMERCIAL, INDUSTINGLOWARTSAN INSTITUTIONAL WARTS 204 MUNICIPAL WARTS 205 MUNICIPAL WARTS SIMULAR COMMERCIAL, INDUSTINGLO WARTS AND		GE 3 ^{res}			.10*	~	R13-Starage of waste pending any of the operations numbered R1 to R12 (excluding temporary starage)			
	encond	20-MUNICIPAL WASTES (MOUSENOLD WASTE AND SIMILAR COMMERCIAL,	Street cleaning residues.	94.64	659		-158					
	200302	INSTITUTIONAL WASTES) INCLUDING SEPARATELY	Euler warts root	111.7	242.34		-22%	0%	D15-Storage pending any of the operations numbered D1 to D14	10		
		COLLECTID FORCHORS 26-MUNICIPAL WASTES MOUSINGLD WASTE AND SIMUAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONS WASTES INCLUDING SERVENTELY COLLECTED FORCTIONS	Bulky waste coming from skips.						OI 2. Blood			
	200307	IT WITT DOUGHO		1707.84	10145		5N	0%	013- Blending or mixing prior to submission to any of the approximes numbered 01 to 012	30		
		ABSORBENTS, WIRING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING	Cartboard packaging from municipal collection.						R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary			
	150201	NOT OTHERWISE SPECIFIED 15- WASTE PACKAGING ABSORBENTS, WIRING	Plastic packaging from municipal collection.	95.32	588.64		-95	100%	stanaae) R23-Storage of waste pending			
	150102	ABSORBENTS, WIRING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED	municipal collection.	116.88	267.44		-528	100%	R13-Storage of wate pending any of the operations numbered R1 to R12 (excluding temporary storage)	400	Competition in water collection.	
		15- WASTE PACKAGING ABSORDENTS, WIRING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING	Wood packaging.						R13-Storage of wate pending any of the operations numbered R1 to R12 (excluding temporary			
	150002	NOT OTHERWISE SPECIFIED 15- WASTE PACKAGING; ARSORBENTS, WIRING	Metal packaging.	42.62	22.65		10%	100%	R13-Storage of wate pending	30		
	150104	CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED	and he when	37.54	44.35		-15N	200%	any of the operations numbered R2 to R12 (excluding temporary stanage)	25		
		15- WASTE PACKAGING; ABSORBENTS, WARING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING	Metal packaging.						R13-Starage of wate pending any of the operations numbered R1 to R12 (excluding temporary		Collection of Can Banks commenced in	
	152034	ADT DIMERALSE SECOND	Glass packaging (bottle	47.41	26.93		28%	100%	110/20/	25	2011.	
	150107	ABSORDENTS, MARING CLOTHS, PLTER MATTRIALS AND PROTECTIVE CLOTHING NOT OTMERWISE SPECIFIED 20- MUNICIPAL WASTES	Glass packaging (bottle banks, municipal collection, Civic Amerity).	2015.84	1798.66		14%	100%	R13-Storage of waste pending any of the operations numbered R2 to R12 (excluding temporary storage)	6		
		20-MUNICIPAL WASTES POLISENGLD WASTE AND SIMILAR COMMERCIAL, NOLISTIKAL AND INSTITUTIONAL WASTES] INCLUDING SEPARATELY COLLECTED FRACTIONS	Household White-goods delivered by householders.						R13-Storage of waste pending any of the operations numbered			
	200126	INCLUDING SEPARATELY COLLECTED FRACTIONS		24.5	28.27		-128	0%	any of the operations numbered R2 to R12 (excluding temporary stanaar) R13.Orenae of write rendom	0		
	362302	16- WASTES NOT OTHERWISE SPECIFIED IN THE LIST	Car and tractor tyres.	7.4			-48%	0%	R13-Storage of wate pending any of the operations numbered R1 to R12 (excluding temporary storage)	400		
	170201	17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOL FROM CONTAMINATED STES)	C&D wood.	109.09	99.15		10%		R13-Starage of waste pending any of the operations numbered R1 to R12 (excluding temporary starage)	5		
			Mixed C&D waste coming from construction sites.						D13- Blending or mixing prior to submission to one of the			
	170904	17-CONSTRUCTION AND DEMOLTION WARTES (INCLUDING EXEMINITED SOIL FROM CONTAMINATED SOIL FROM CONTAMINATED SOIL 20- MUNICIPAL WARTES MOUSTROLD WARTE AND INSTRUTTIONAL WARTES] INCLUDING EFMARTES INCLUDING EFMARTES/		288.65	792.1		-64%	0%	submission to any of the operations numbered 01 to 012	20		
	200307	INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY OD LECTED BRACTIONS	Mixed recyclables coming from commercial and industrial sources.	0.0	314 34		-758	35	R13-Storage of wate pending any of the operations numbered R1 to R12 (excluding temporary interval			
		\$1107				10/V/01			guer			
DN C-TO BE O	OMPLETED BY ALL WASTE F	SFLECT ACILITIES (waste transfer	stations, Composters	l , Material recovery !	I facilities etc) EXCEPT LANDFILL	SITES			ISPLACT	1	I	
	frastructure as required by your lices	tce and approved by the Agency i	n place? If no please list wa	ste processing infrastructu	re required onsite	Yes]		
	structure as required by your licence		iace? If no please list waste	storage infrastructure req	uired on site	Yes				1		
have an odour mu maintain a sludge	elevant nuisance controls in place? anagement system in place for your register on site?	facility? if no why?	,			Yes						
	and tonnage-landfill only AuthorizedTiceaced annual		Remaining licensed capacity at end of respecting accord (m3)									
types permitted or disposal old Pesidual al non sus solids	Antheriordilicenced annual intaks for disposal (tpa) 20,000 500	Actual intake for disposal in reporting your (tpa) 22,000 60	reporting year (m3)	t. comente								
3 General inf	ormation-Landfill only				l							
Area ID	Date landfilling commenced	Date landfilling ceased	Carrently landfilling	Private or Public Operated	inert or non-lazardous	Predicted date to cease landfilling	Licence permits asbestas	Is there a separate cell for advector?	Accepted adhestos în reporting year	Total disposal area-occupied by waste	Lized dispecal area occupied by wada	5 C g
						Ladiling				SELECTUNIT	SELECTUNET SELECTU	_
4 Environmen starological sing in	ntal monitorine-landfill only	Landfill Manual Monitorine Dar				Was	Has the statement				,	
4 Environmer storological ring in ance with 1 Directive andred in ing year +	Was leachate monitored in compliance with LD standard in reporting year	Was Landfill Gas monitored in compliance with LD standard in reporting year	Was SW monitored in compliance with LD standard in reporting year	Ilaw GW trigger fewis hera established	Were emission limit values agreed with the Agency (ELVs)	was topography of the site carveyed in reporting year	Has the statement under SS3(A)(5) of WMA heen submitted in reporting year	Comments				
e refer to Landfill 5 Capping-La	Manual linked above for relevant Li ndfill only	indfill Directive monitoring stand	eda						1			
TUNIT	Area with temporary can SELECT UNIT	Area with final cap to LD Standard m2 ba. a	Area cased other	Area with waste that should be permanently capped to date under licence	What materials are used in the can	Consecuto						
6 Leachate-La	s daily cover area andfill only					SELECT	l I					
ate released to u o of leachate in ting year(m3)	e treated in a Waste Water Treatme urface water? If yes please complet Leachate (BOD) mass load	Leachate (COD) mass load	Leachate (NIH) mass	Leachate (Chloride)		SELECT Specify type of leachate						
	(kglasses)	(kg/waxaa) reported in the landfill gas sectio	load (kg/annum)	mass load kg (annum	Leachate treatment on-site in conjunction with PATR returns	treatment	Constants					
7 Landfill Gas	-Landfill only				1							

dro

ins.

Resource usage/ Energy Efficiency

Additional information

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

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 3

Table 1 Energy usage	e on site			
Energy Use	Previous year kWh		Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*
Total				
Electricity	328900	345800	5.14%	
Fossil Fuels:	not applicable	not applicable	not applicable	
Heavy Fuel Oil	not applicable	not applicable	not applicable	
Light Fuel Oil	not applicable	not applicable	not applicable	
Natural gas	not applicable	not applicable	not applicable	
Coal/Solid fuel	not applicable	not applicable	not applicable	
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

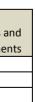
Table 2 Water usage	on site			
			Production +/- %	Energy
			compared to	Consumption +/- %
			previous reporting	vs overall site
Water use	Previous year m3/yr.	Current year m3/yr.	year**	production*
Groundwater	not applicable	not applicable	not applicable	not applicable
Surface water	not applicable	not applicable	not applicable	not applicable
Public supply	2783	276	5 -0.65%	
Total	2783	276	5 -0.65%	

* 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 3: Energy Au	dit finding recommendat	ions						
		Description of		Predicted energy				Status a
Date of audit	Recommendations	Measures proposed	Origin of measures	savings %	Implementation date	Responsibility	Completion date	comme
NA			SELECT					
			SELECT					
			SELECT					

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



Noise Monitoring Report Summary

1	Was noise mo	nitoring a licence	e requirement fo	or the AER period	1?				Yes	
	If yes please fi	ll in table 1 noise	e summary below	N						
2		-	-	A Guidance note Jded in the guida	-	•	the	<u>Draft Noise</u> <u>Guidance</u>	Yes	
3		have a noise re	•	0					No	
4	When was the	noise reduction	n plan last update	ed?						
5	Have there be	en changes rele	vant to site nois	e emissions (e.g. survey?	plant or oper	ational char	nges) since tl	ne last noise	No	
	Table 1: Noise	monitoring sun	nmary							
	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?
	16/09/2011	12.20 am	N1		67.6	61.4	70.5	70.5	No	SELECT
	16/09/2011	10.20 am	N2	NSL	53.9	44.8	59.5	59.5	No	
	16/09/2011	11.10 am	N3	NSL	50.6	41.5	53.4	53.4	No	

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

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

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

Any additional comments? (less than 200 words)

Comments (ex. main noise sources on site, & extraneous noise ex. road traffic)	Is <u>site</u> compliant with noise limits (day/evening/night)?
Recycling Plant in operation	Yes
Traffic Noice. Busy roadway R198.	Yes
Traffic Noise R198.	Yes

SELECT

	Environmental Management Programme	ne (EMP)/Continuous Improven	nent Programme
	Highlighted cells contain dropdown menu click to view		Additional Information
1	Do you maintain an Environmental Mangement System for the site. If yes, please detail in additional		
	information	Yes	Submitted to Agency 28/2/2004
2	Does the EMS reference the most significant environmental aspects and associated impacts on-site	Yes	
	Does the EMS maintain an Environmental Management Programme (EMP) as required in accordance		
3	with the licence requirements	Yes	89 Objectives and Targets, Projects, 3 new Objectives for 2012
	Do you maintain an environmental documentation/communication system to inform the public on		
4	environmental performance of the facility, as required by the licence	Yes	Communication Procedure is part of Facility EMS

Environmental Management Programme (EMP) report				
Objective Category	Target	Status (% completed)	How target was progressed	Responsibility	Intermediate outcomes
	environmental				
	performance and provide				
	assurance on		Quotations from third party		
ISO 14001, ISO 9001 Standards	environmental issues to		consultants has been	Managing Director,	Improved Environmental
Implementation	external stakeholders -	30	obtained.	Environmental Manager	Management Practices
	To improve existing dust				
	and odour system at the				
Dust and Odour Control from Waste Transfer	facility and implement in				
Buildings Upgrade	new Shed 3.	100		Managing Director	Reduced emissions
	- ·· ·				
	To provide safe access to				
	surface water monitoring		Monitoring points were		
	points in every weather		eliminated by Agency in		Improved Environmental
SD1, SW1 and SW2	condition.		MAy2011.	Managing Director	Management Practices
	T				
	To provide an extra roofed		Drenesel levent drewings		
Extension of existing Cheel No. 4. Cheel No. 2	storage at the facility and		Proposal layout drawings		
Extension of existing Shed No.1, Shed No.2,	divert loadings of outgoing		prepared by Turmec		
Shed No. 3	material	10	Engineering.	Managing Director	Installation of infrastructure
	The integrity of the existing		Requests for Quotation		
	tanks to be tested as		submitted to potential	Environmental Manager,	Increased compliance with
Tank, Bund Integrity Testing	required.		contractors.	Managing Director	licence conditions

		To update existing ELRA		Quotations requests		
		report according to Waste		submitted to third party		Improved Environmental
ELF	RA Report update	Licence requirements.	10	consultants.	Environmental Manager	Management Practices
		To extent existing Facility		New Facility office layout in		
Fac	cility Office extention	Office capacity.	50	place.	Managing Director	Installation of infrastructure

	Environmenta	I Liability Risk Assessment
		Commentary
1	Is it a requirement of your licence to complete an ELRA?	Yes
2	Has an initial ELRA been submitted to and approved by the Agency?	Yes
3	Please enter the date of submission of the initial ELRA	Mar-04
4	Date of most recent substantial ELRA update	
5	What financial instrument/s do you have in place to cover unknown liabilities?	Insurance
6	Has this financial instrument/s been verified by the Agency?	Yes
7	What is the date of expiry of this financial instrument?	Jul-12
8	Date of next required review of the ELRA?	Dec-12
9 Pleas	e list the top 10 risks assessed on your site in table 1 below	

Table 1 ELRA summary information lick here to access EPA Operational Risk Assessment Category SELECT idance on ELRA Mitigation measures to reduce risk ELRA Date of Does the current implementation of financial provision Revised Risk score for mitigation (FP) cover the risk Risk ID Potential hazards Environmental effect Previous risk score neasures Comment urrent reporting year ELRA costing score? Action Bund failure resulting in spillage of hazardous Surface water /soil/groundwater Relined all bunds >10years old Chemical storage 6 Infrastructural improvements 31/05/2009 3 €10,000 Yes chemicals on site contamination on site Capital Investment (Fire Alarms), All processes where a fire New Fire alarms installed in Mar-04 €15 Yes Fire/ Explosion resulting from significant fire risks Emission to Air 6 Training and Operational 3 risk occurs 2011 Controls Capital Investment (Fire Alarms), All processes where a fire irewater emissions to receiving water New Fire alarms installed in €15 Fire/ Explosion resulting from significant fire risks 6 Training and Operational Mar-04 3 Yes risk occurs in drains 2011 Controls Wastewater Treatment, Operational controls, Weekly 6 Mar-04 3 €15 Yes Treatment System Leaking Emmisions to Surface Water Storage inspections Operational controls, High Level Emissions to surface water, ground Wastewater Treatment. 2 €15 WTP- uncontrolled discharges 6 Mar-04 Yes Alarm in place, Maitenance Storage water/soil Emergency Response Procedures Mar-04 €15 ncoming Waste Proccesing Any spill in storage area Emissions to surface water 6 2 Yes in place for spillages All processes where Emissions to air which may effect 2 €15 Noise emissions from various sources on site 6 Noice Monitoring Feb-04 Yes significant noise is human receptors produced Daily inspections. Environmental Emission of oil to surface water Monitoring, Bund Intergrity 2 €15 Waste Storage & Disposal Spill from waste oil storage due to bund failure Mar-04 6 Yes Testing Procedure Daily inspections, Environmental Waste Storage & Disposal Lead Batteries Bund Leaking Emisions to surface water 6 Monitoring, Bund Intergrity Mar-04 2 €15 Yes Testing Procedure

SELECT

SELECT

SELECT

SELECT

Management Plan

Yes

SELECT

SELECT

SELECT

SELECT

Increase in risk category

No

previous year

Value of current

cover the risk score? for site

Yes

financial provision

SELECT

SELECT

SELECT

SELECT

	Closure Restoration Aftercare Mana	gement Plan/ Restorat	tion plan (CRAMP/RP	')	
1	Was a closure or restoration plan a requirement of the licence?	Yes		1	
2	Has a closure plan submission been approved by the Agency?	Yes			
3	What is the timescale for submission?				
]	
4	What financial instrument do you have in place to cover known liabilities	? Insurance			
				1	
5	What is the date of expiry of this financial instrument?	Jul-12			
6	What is the status of implementation of the plan?	Site in operation		1	
				_	
Tabl	le 2 CRAMP summary information (NON Landfill)				
				Change in Risk	
			Restoration Aftercare	category since	

Clean closure

Yes

Closure plan in place

3 Yes

SELECT

SELECT

SELECT

SELECT

SELECT

Total

Date of submission of plan Risk category

27/09/2004

Groundwater /Contaminated land summary report

		Comments
1		Groundwater is sampled at groundwater monitoring well, downgradient GW-1 twice a year. Druring 2011 reporting period two set of results were obtained for groundwater point GW- 1. All test parameters
Are you required to carry out groundwater monitoring as part of your licence requirements?	yes	were in compliance with their waste licence limits.
2 Are you required to carry out soil monitoring as part of your licence requirements?	no	
³ Do you extract groundwater for use on site? If yes please specify use in comment section	no	
4 Is there contaminated land and /or groundwater on site? If yes please answer q's 5-12	no	
5 Is the contamination related to operations at the facility (either current and/or historic)	SELECT	
6 Have actions been taken to address contamination issues?If yes please summarise remediation strategies proposed/undertaken for the site	SELECT	
7 Please specify the proposed time frame for the remediation strategy	SELECT	
8 Is there a licence condition to carry out/update ELRA for the site?	yes	
9 Has any type of risk assesment been carried out for the site?10 Has a Conceptual Site Model been developed for the site?	SELECT SELECT	
11 Have potential receptors been identified on and off site?	SELECT	
12 Is there evidence that contamination is migrating offsite?	SELECT	

Table 1: Upgradient Groundwater monitoring results

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration++	Average Concentration+	unit	GTV's*	% change in average	Upward trend in pollutant concentration over last 5 years of monitoring data

-											
	-	-	-	-	-	-	-	-	-	-	-

.+ where average indicates arithmetic mean

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

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration	Average Concentration	unit	GTV's*	SELECT**	% change in average concentration previous year +/-	Upward trend in yearly average pollutant concentration over last 5 years of monitoring data
					<0.2						
		Ammoniacal		Monitored twice a							
01/06/2011	. GW-1	Nitrogen as N		year	<46		mg/l	-			SELECT
		EPH			<40						
01/06/2011	CW 1	Range>C10- C40		Monitored twice a			ug/I				
01/06/2011	. Gw-1	C40		year	<10		μg/l	-			
		EPH Band		Monitored twice a							
01/06/2011	GW-1	.C28-C40(aq)		year			μg/l				
01/00/2011		.020 040(04)		year	<10		PP/ 1				
		EPH Band >		Monitored twice a	-						
01/06/2011	GW-1	C10-C28 (aq)		year			μg/l				SELECT
					<0.2						
		Ammoniacal		Monitored twice a							
20/09/2011	GW-1	Nitrogen as N		year			mg/l				
		EPH			<46						
		Range>C10-		Monitored twice a							
20/09/2011	GW-1	C40		year			μg/l				
					<10						
		EPH Band		Monitored twice a							
20/09/2011	GW-1	.C28-C40(aq)		year			μg/l				
					<10						
		EPH Band >		Monitored twice a							
20/09/2011	. GW-1	C10-C28 (aq)		year			μg/l				
							SELECT				SELECT

* please note exceedance of a relevant Groundwater threshold value (GTV) at a representative monitoring point does not indicate non compliance, an exceedance triggers further investigation to confirm whether the criteria for poor groundwater chemical status are being met.

**Depending on location of the site and proximity to other sensitive receptors alternative Receptor based Water Quality standards should be used in addition to the GTV e.g. if the site is close to surface water compare to Surface Water Environmental Quality Standards (SWEQS), If the site is close to a drinking water supply compare results to the Drinking Water Standards (DWS)

Groundwater Drinking water Surface regulations (private supply) water EQS <u>GTV's</u> standards

Drinking water (public supply) standards

Interim Guideline Values (IGV)

Table 3: Soil results

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

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

Complaints		
		Additional information
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	No	

complaints end of reporting year

Table	e 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
	SELECT				SELECT		
	SELECT				SELECT		
	SELECT				SELECT		
	SELECT				SELECT		
	SELECT				SELECT		
Total complaints open at start of reporting year							
Total new complaints							
received during							
reporting year							
Total complaints							
closed during							
reporting year							
Balance of							

		Incidents							
					Additional information	ition			
Have any incidents	occurred on site in the current repo	rting year? Please list all incide	ents for current reporting						
	year in Tal	le 2 below	_	SELECT					
*For informati	on on how to report and what								
	stitutes an incident	What is an incident							
		•	-						
Table 2 Incidents sur	nmary]						
						Other	Activity in		
			Incident category*please			cause(please	progress at time		
Date of occurrence	Incident nature	Location of occurrence	refer to guidance	Receptor	Cause of incident	specify)	of incident	Communication	Occurrence
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT
Total number of									
incidents current									
year									
Total number of									
incidents previous									
year									
% reduction/									
increase									

	Preventative			
Corrective action<20	action <20		Resolution	Liklihood of
words	words	Resolution status	date	reoccurence
		SELECT		SELECT

Bi	ind/pipe testing report summary ALL IPF	C/WASTE licensed facilities	Intensive agricultu	re facilities please use alternative template			
	d testing	dropdown menu clic			_		Additional information
Are you r	equired by your licence to undertake inti	egrity testing on bunds and contain	ment structures ? if yes plea	se fill out table 1 below listing all bunds and			
1 containm	ent structures on site					Yes	
2 Please pr	ovide integrity testing frequency period					3 years	
		ground pipelines (including stormy	vater and foul), Tanks, sumps	and containers? (containers refers to "Chem	nstore"		
3 type unit	s and mobile bunds)					Yes	

Table	1: Summary details of bu	ind integrity test											
Bund/Containment structure ID	Туре	Specify Other type	Product containment	Actual capacity	Capacity required*	Type of integrity test	Other test type	Test date	Integrity reports maintained on site?	Integrity test failure explanation <50 words	Corrective action taken	Scheduled date	Results of retest(if in current reporting year)
Waste Water Collection Tank	reinforced concrete	Storage Tank (Dim. 3.34m x 5.9 x 1.8 m deep)	Waste Water	35000 Ltr		Structural assessment		Apr-04	No	Weekly checks as per weekly Drainage System Inspections	SELECT		
Surface Water Interceptor Tank	reinforced concrete		Surface Water	46000 Ltr		Structural assessment		Apr-04	No	Weekly checks as per weekly Drainage System Inspections			
Surface Water Silt Tank	reinforced concrete		Surface Water	23000 Ltr		Structural assessment		Apr-04	No	Weekly checks as per weekly Drainage System Inspections			
	Glass Reinforced Polyester		Surface Water	27000 Ltr		Structural assessment		Apr-04	No	Weekly checks as per weekly Drainage System Inspections			
Sewage Treatment Plant	prefabricated	BL 300 Blivet (2.2m wide, 2.2 m high)	Faul Sewer Water			Structural assessment		Apr-04	No	Weekly checks as per weekly Drainage System Inspections			
D20 Wastewater recycling System - Wash Bay	prefabricated	Recyclone D20	Waste Water	2000 m3/h		Structural assessment		Apr-04	No	Weekly checks as per weekly Drainage System Inspections			
Diesel Tank Bund	prefabricated		Waste Water	66000 Ltr		Structural assessment		Apr-07	No	Weekly checks as per weekly Drainage System Inspections	SELECT		

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5 Are channels/transfer systems to remote containment systems tested? 6 Are channels/transfer systems compliant in both integrity and available volume?

7 Do all sumps and chambers have high level liquid alarms? 8 If yes to Q7 are these failsafe systems included in a maintenance and testing programme?

	Commentary
Yes	Last Test 2004, Weekly checks since
Yes	Visually and structualy, Last Test 2004, Weekly checks since
Yes	
	Waste Water Tank has High Level
Yes	Alarm Installed
Yes	

 Pipeline/underground structure testing

 Are your 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 listin

 1 underground structures and pipelines on site

 2 Please provide integrity testing equares, period

ting all	Yes	
	3 years	Test done in 2004

Tabl	e 2: Summary details of u	nderground structures/pipeline int	egrity test							
Structure ID	Type system		Does this structure have Secondary containment?	Type of secondary containment		Integrity reports maintained on site?		Integrity test failure explanation <50 words		Results of retest(if in current reporting year)
Surface water underground pipes	Storm	concrete	No	SELECT	Hydraulic	No	Pass			SELECT
Waste Water underground pipes	Foul	concrete	No		Hydraulic	No	Pass			

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

 Yes
 No
 N/A

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

Ack Monitoring returns summary template-watery wastewater(Sewer)		Additional information
Does your site have licensed emissions direct to surface water or direct to sewer? If yes please complete table 3 and 4 below for the current reporting year and answer further questions. If you do not have licenced emissions you <u>only</u> need to complete table 1 and /table 2 below for ambient monitoring and visual inspections		In 2011 the monitoring of surface water was carried out in accordance with Schedule D4 of the waste Licence. Daily visual inspections are carried out on the surface water poit SD-1. June 2nd 2011 Mulleadys requested review of monitoring requirement of off-site surface water drain. Agency reviewed past 4 years monitoring data for SD-1, SW- 1 and SW-2 and agreed to proposed reduction in monitoring locations under Condition 7.2 of the licence. Mulleadys continued to monitor surface water discharges at the on-site chamber downstream of the interceptors on a quarterly basis as per the licence requirements and visual inspections on a daily basis.
 Was it a requirement of your licence to carry out visual inspections on any surface water discharges or watercourses on or near your site? If yes please complete table 2 below summarising only any evidence of contamination noted during visual inspections 	Yes	No evidence of contamination noted.

Table 1 Ambient monitoring

1

Location reference	Location relative to site activities	PRTR Parameter	Licenced Parameter	date	level in licence or any revision	Licence Compliance	Measured value		Compliant with licence	Comments
	SELECT	SELECT	SELECT			SELECT		SELECT	SELECT	

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

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

Location Referenc	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 3 below	Yes	Additional information
4	Was all monitoring carried out in accordance with EPA guidance and checklists for Quality of Aqueous Monitoring External /Internal Data Reported to the EPA? If no please detail what areas Lab Quality Assessment of require improvement in additional information box checklist results checklist	Yes	

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

Emission reference no:	Emission released to	Parameter/ SubstanceNote 1	Type of sample	Date of Monitoring	Averaging period	ELV or trigger values in licence or any revision therof ^{Note 2}	Compliance	Measured value	Unit of measurement	Compliant with licence		Procedural reference source	Procedural reference standard number	Annual mass load	% change in mass load from previous year +/-	
SD1	Water	Suspended Solids	discrete	07/03/2011	SELECT	≤25 mg/l	All values < ELV	5.5	mg/l	yes	Alcontrol Laboratories Method: TM022, Determination of total suspended solids in waters	B.S. (British Standard)	BS EN 872	0.0020075		
SW-1	Water	Suspended Solids	discrete	07/03/2011		≤25 mg/l	All values < ELV	2	mg/l	yes	Alcontrol Laboratories Method: TM022, Determination of total suspended solids in waters	B.S. (British Standard)	BS EN 872	0.00073		

					[1	
SW-2	Water	Suspended Solids	discrete	07/03/2011	≤25 mg/l	All values < ELV	<2	mg/l	yes	Alcontrol Laboratories Method: TM022, Determination of total suspended solids in waters	B.S. (British Standard)	BS EN 872		
WWT -1	Vastewater/Sewe	Suspended Solids	discrete	07/03/2011	400 mg/l	All values < ELV	112	mg/l	yes	Alcontrol Laboratories Method: TM022, Determination of total suspended solids in waters	B.S. (British Standard)	BS EN 872	0.04088	
SD1	Water	Suspended Solids	discrete	01/06/2011	≤25 mg/l	All values < ELV	9	mg/l	yes	Alcontrol Laboratories Method: TM022, Determination of total suspended solids in waters	B.S. (British Standard)	BS EN 872	0.003285	
SW-1	Water	Suspended Solids	discrete	01/06/2011	≤25 mg/l	All values < ELV	3	mg/l	yes	Alcontrol Laboratories Method: TM022, Determination of total suspended solids in waters	B.S. (British Standard)	BS EN 872	0.001095	
SW-2	Water	Suspended Solids	discrete	01/06/2011	≤25 mg/l	All values < ELV	5	mg/l	yes	Alcontrol Laboratories Method: TM022, Determination of total suspended solids in waters	B.S. (British Standard)	BS EN 872	0.001825	
WWT -1	Wastewater/Sewe	Suspended Solids	discrete	01/06/2011	400 mg/l	All values < ELV	1310	mg/l	no	Alcontrol Laboratories Method: TM022, Determination of	Standard)	BS EN 872	0.47815	Waste Water transported to Longford Sewerage Works and treated as waste water.
SD1	Water	Suspended Solids	discrete	20/09/2011	≤25 mg/l	All values < ELV	22.5	mg/l	yes	Alcontrol Laboratories Method: TM022, Determination of total suspended solids in waters	B.S. (British Standard)	BS EN 872	0.0082125	
WWT -1	Wastewater/Sewe	Suspended Solids	discrete	20/09/2011	400 mg/l	All values < ELV	700	mg/l	no	Alcontrol Laboratories Method: TM022, Determination of	B.S. (British Standard)	BS EN 872	0.2555	Waste Water transported to Longford Sewerage Works and treated as waste water.
SD1	Water	Suspended Solids	discrete	28/11/2011	≤25 mg/l	All values < ELV	16.5	mg/l	yes	Alcontrol Laboratories Method: TM022, Determination of total suspended solids in waters	B.S. (British Standard)	BS EN 872	0.0060225	
WWT -1	Wastewater/Sewe	Suspended Solids	discrete	28/11/2011	400 mg/l	All values < ELV	2100	mg/l	no	Alcontrol Laboratories Method: TM022, Determination of	Standard)	BS EN 872	0.7665	Waste Water transported to Longford Sewerage Works and treated as waste water.
SD1	Water	BOD	discrete	07/03/2011	≤5 mg/l O2	All values < ELV	1.64	mg/l	yes	Alcontrol Laboratories TM045, Determination of BOD5 (ATU) Filtered by Oxigen Meter on liquids	UK SCA "Blue Book" series	Blue Book 130	0.0005986	
SW-1	Water	BOD	discrete	07/03/2011	≤5 mg/l O2	All values < ELV	<1	mg/l	yes	Alcontrol Laboratories TM045, Determination of BOD5 (ATU) Filtered by Oxigen Meter on liquids	UK SCA "Blue Book" series	Blue Book 130		

SW-2	Water	BOD	discrete	07/03/2011	≤5 mg/l O2	All values < ELV	<1	mg/l	yes	Alcontrol Laboratories TM045, Determination of BOD5 (ATU) Filtered by Oxigen Meter on liquids	UK SCA "Blue Book" series	Blue Book 130		
WWT -1	Wastewater/Sewe	BOD	discrete	07/03/2011	400 mg/l	All values < ELV	64.6	mg/l	yes	Alcontrol Laboratories TM045, Determination of BOD5 (ATU) Filtered by Oxigen Meter on liquids	UK SCA "Blue Book" series	Blue Book 130	0.023579	
SD1	Water	BOD	discrete	01/06/2011	≤5 mg/l O2	All values < ELV	2.31	mg/l	yes	Alcontrol Laboratories TM045, Determination of BOD5 (ATU) Filtered by Oxigen Meter on liquids	UK SCA "Blue Book" series	Blue Book 130	0.00084315	
SW-1	Water	BOD	discrete	01/06/2011	≤5 mg/l O2	All values < ELV	1.09	mg/l	yes	Alcontrol Laboratories TM045, Determination of BOD5 (ATU) Filtered by Oxigen Meter on liquids	UK SCA "Blue Book" series	Blue Book 130	0.00039785	
SW-2	Water	BOD	discrete	01/06/2011	≤5 mg/l O2	All values < ELV	1.22	mg/l	yes	Alcontrol Laboratories TM045, Determination of BOD5 (ATU) Filtered by Oxigen Meter on liquids	UK SCA "Blue Book" series	Blue Book 130	0.0004453	
WWT -1	Wastewater/Sewe	BOD	discrete	01/06/2011	400 mg/l	All values < ELV	244	mg/l	yes	Alcontrol Laboratories TM045, Determination of BOD5 (ATU) Filtered by Oxigen Meter on liquids	UK SCA "Blue Book" series	Blue Book 130	0.08906	
SD1	Water	BOD	discrete	20/09/2011	≤5 mg/l O2	All values < ELV	<10	mg/l	yes	Alcontrol Laboratories TM045, Determination of BOD5 (ATU) Filtered by Oxigen Meter on liquids	UK SCA "Blue Book" series	Blue Book 130		
WWT -1	Wastewater/Sewe	BOD	discrete	20/09/2011	400 mg/l	All values < ELV	927	mg/l	no	Alcontrol Laboratories TM045, Determination of BOD5 (ATU) Filtered by Oxigen Meter on liquids	UK SCA "Blue Book" series	Blue Book 130	0.338355	
SD1	Water	BOD	discrete	28/11/2011	≤5 mg/l O2	All values < ELV	13.3	mg/l	yes	Alcontrol Laboratories TM045, Determination of BOD5 (ATU) Filtered by Oxigen Meter on liquids	UK SCA "Blue Book" series	Blue Book 130	0.0048545	
WWT -1	Vastewater/Sewe	BOD	discrete	28/11/2011	400 mg/l	All values < ELV	1720	mg/l	no	Alcontrol Laboratories TM045, Determination of BOD5 (ATU) Filtered	UK SCA "Blue Book" series	Blue Book 130	0.6278	Waste Water transported to Longford Sewerage Works and treated as waste water.

SD1	Water	Ammoniacal Nitrogen as N	discrete	07/03/2011	0.02 mg/l N	All values < ELV	1.31	mg/l	yes	Alcontrol Laboratories, TM099, Determination of Ammonium in Water Samples using Kone Analyser		BS 2690: PArt7: 1968 / BS 6068: Part2.11:1984	0.00047815	
SW-1	Water	Ammoniacal Nitrogen as N	discrete	07/03/2011	0.02 mg/l N	All values < ELV	<0.2	mg/l	yes	Alcontrol Laboratories, TM061, Determination of Extractable Petroleum Hydrocarbons by GC- FID (C10-C40)		BS 2690: PArt7: 1968 / BS 6068: Part2.11:1984		
SW-2	Water	Ammoniacal Nitrogen as N	discrete	07/03/2011	0.02 mg/l N	All values < ELV	0.455	mg/l	yes	Alcontrol Laboratories, TM061, Determination of Extractable Petroleum Hydrocarbons by GC- FID (C10-C40)		BS 2690: PArt7: 1968 / BS 6068: Part2.11:1984	0.000166075	
WWT -1	Wastewater/Sewe	Ammoniacal Nitrogen as N	discrete	07/03/2011	100 mg/l	All values < ELV	2.9	mg/l	yes	Alcontrol Laboratories, TM061, Determination of Extractable Petroleum Hydrocarbons by GC- FID (C10-C40)		BS 2690: PArt7: 1968 / BS 6068: Part2.11:1984	0.0010585	
SD1	Wa	Ammoniacal Nitrogen as N	discrete	01/06/2011	0.02 mg/l N	All values < ELV	1.15	mg/l	yes	Alcontrol Laboratories, TM061, Determination of Extractable Petroleum Hydrocarbons by GC- FID (C10-C40)		BS 2690: PArt7: 1968 / BS 6068: Part2.11:1984	0.00041975	
SW-1	Water	Ammoniacal Nitrogen as N	discrete	01/06/2011	0.02 mg/l N	All values < ELV	0.246	mg/l	yes	Alcontrol Laboratories, TM061, Determination of Extractable Petroleum Hydrocarbons by GC- FID (C10-C40)		BS 2690: PArt7: 1968 / BS 6068: Part2.11:1984	0.00008979	
SW-2	Water	Ammoniacal Nitrogen as N	discrete	01/06/2011	0.02 mg/l N	All values < ELV	0.299	mg/l	yes	Alcontrol Laboratories, TM061, Determination of Extractable Petroleum Hydrocarbons by GC- FID (C10-C40)		BS 2690: PArt7: 1968 / BS 6068: Part2.11:1984	0.000109135	
WWT -1	Wastewater/Sewe	Ammoniacal Nitrogen as N	discrete	01/06/2011	100 mg/l	All values < ELV	6.69	mg/l	yes	Alcontrol Laboratories, TM061, Determination of Extractable Petroleum Hydrocarbons by GC- FID (C10-C40)	B.S. (British Standard)	BS 2690: PArt7: 1968 / BS 6068: Part2.11:1984	0.00244185	
SD1	Water	Ammoniacal Nitrogen as N	discrete	20/09/2011	0.02 mg/l N	All values < ELV	1.97	mg/l	yes	Alcontrol Laboratories, TM061, Determination of Extractable Petroleum Hydrocarbons by GC- FID (C10-C40)	B.S. (British Standard)	BS 2690: PArt7: 1968 / BS 6068: Part2.11:1984	0.00071905	

WWT -1	Wastewater/Sewe	Ammoniacal Nitrogen as N	discrete	20/09/2011	100 mg/l	All values < ELV	30	mg/l	yes	Alcontrol Laboratories, TM061, Determination of Extractable Petroleum Hydrocarbons by GC- FID (C10-C40)	B.S. (British Standard)	BS 2690: PArt7: 1968 / BS 6068: Part2.11:1984	0.01095	
SD1	Water	Ammoniacal Nitrogen as N	discrete	28/11/2011	0.02 mg/l N	All values < ELV	2.1	mg/l	yes	Alcontrol Laboratories, TM061, Determination of Extractable Petroleum Hydrocarbons by GC- FID (C10-C40)		BS 2690: PArt7: 1968 / BS 6068: Part2.11:1984	0.0007665	
WWT -1	Wastewater/Sewe	Ammoniacal Nitrogen as N	discrete	28/11/2011	100 mg/l	All values < ELV	66.4	mg/l	yes	Alcontrol Laboratories, TM061, Determination of Extractable Petroleum Hydrocarbons by GC- FID (C10-C40)		BS 2690: PArt7: 1968 / BS 6068: Part2.11:1984	0.024236	
SD1	Water	COD	discrete	07/03/2011		All values < ELV	44.2	mg/l	yes	Alcontrol Laboratories, TM 107, Determination of Chemical Oxogen Demand using COD Dr Lange Kit	ISO	ISO 6060-1989	0.016133	
SW-1	Water	COD	discrete	07/03/2011		All values < ELV	31.4	mg/l	yes	Alcontrol Laboratories, TM 107, Determination of Chemical Oxogen Demand using COD Dr Lange Kit	ISO	ISO 6060-1989	0.011461	
SW-2	Water	COD	discrete	07/03/2011		All values < ELV	34.7	mg/l	yes	Alcontrol Laboratories, TM 107, Determination of Chemical Oxogen Demand using COD Dr Lange Kit	ISO	ISO 6060-1989	0.0126655	
WWT -1	Wastewater/Sewe	COD	discrete	07/03/2011	1600 mg/l	All values < ELV	205	mg/l	yes	Alcontrol Laboratories, TM 107, Determination of Chemical Oxogen Demand using COD Dr Lange Kit	ISO	ISO 6060-1989	0.074825	
SD1	Wa	COD	discrete	01/06/2011		All values < ELV	43.3	mg/l	yes	Alcontrol Laboratories, TM 107, Determination of Chemical Oxogen Demand using COD Dr Lange Kit	ISO	ISO 6060-1989	0.0158045	
SW-1	Water	COD	discrete	01/06/2011		All values < ELV	37.2	mg/l	yes	Alcontrol Laboratories, TM 107, Determination of Chemical Oxogen Demand using COD Dr Lange Kit	ISO	ISO 6060-1989	0.013578	

SW-2	Water	COD	discrete	01/06/2011		All values < ELV	33.1	mg/l	yes	Alcontrol Laboratories, TM 107, Determination of Chemical Oxogen Demand using COD Dr Lange Kit	ISO	ISO 6060-1989	0.0120815	
WWT -1	Wastewater/Sewe	COD	discrete	01/06/2011	1600 mg/l	All values < ELV	775	mg/l	yes	Alcontrol Laboratories, TM 107, Determination of Chemical Oxogen Demand using COD Dr Lange Kit	ISO	ISO 6060-1989	0.282875	
SD1	Water	COD	discrete	20/09/2011		All values < ELV	46.4	mg/l	yes	Alcontrol Laboratories, TM 107, Determination of Chemical Oxogen Demand using COD Dr Lange Kit	ISO	ISO 6060-1989	0.016936	
WWT -1	Wastewater/Sewe	COD	discrete	20/09/2011	1600 mg/l	All values < ELV	1350	mg/l	yes	Alcontrol Laboratories, TM 107, Determination of Chemical Oxogen Demand using COD Dr Lange Kit	ISO	ISO 6060-1989	0.49275	
SD1	Water	COD	discrete	28/11/2011		All values < ELV	59.7	mg/l	yes	Alcontrol Laboratories, TM 107, Determination of Chemical Oxogen Demand using COD Dr Lange Kit	ISO	ISO 6060-1989	0.0217905	
WWT -1	Wastewater/Sewe	COD	discrete	28/11/2011	1600 mg/l	All values < ELV	3200	mg/l	yes	Alcontrol Laboratories, TM 107, Determination of Chemical Oxogen Demand using COD Dr Lange Kit	ISO	ISO 6060-1989	1.168	
SD1	Water	Conductivity	discrete	07/03/2011	1000 μS/cm	All values < ELV	0.638	mS/cm	yes	Alcontrol Laboratories, TM120, Determination of Electrical Conductivity using a Conductivity Meter	B.S. (British Standard)	BS 2690: Part 9:1970	0.00023287	
SW-1	Water	Conductivity	discrete	07/03/2011	1001 μS/cm	All values < ELV	0.277	mS/cm	yes	Alcontrol Laboratories, TM120, Determination of Electrical Conductivity using a Conductivity Meter	B.S. (British Standard)	BS 2690: Part 9:1971	0.000101105	
SW-2	Water	Conductivity	discrete	07/03/2011	1002 μs/cm	All values < ELV	0.396	mS/cm	yes	Alcontrol Laboratories, TM120, Determination of Electrical Conductivity using a Conductivity Meter	B.S. (British Standard)	BS 2690: Part 9:1972	0.00014454	

SD1	Water	Conductivity	discrete	01/06/2011	1003 μS/cm	All values < ELV	0.607	mS/cm	yes	Alcontrol Laboratories, TM120, Determination of Electrical Conductivity using a Conductivity Meter		0.000221555 BS 2690: Part 9:1973	
SW-1	Water	Conductivity	discrete	01/06/2011	1004 μs/cm	All values < ELV	0.412	mS/cm	yes	Alcontrol Laboratories, TM120, Determination of Electrical Conductivity using a Conductivity Meter		0.00015038 BS 2690: Part 9:1974	
SW-2	Water	Conductivity	discrete	01/06/2011	1005 μs/cm	All values < ELV	0.502	mS/cm	yes	Alcontrol Laboratories, TM120, Determination of Electrical Conductivity using a Conductivity Meter	B.S. (British Standard)	0.00018323 BS 2690: Part 9:1975	
SD1	Water	Conductivity	discrete	20/09/2011	1006 μS/cm	All values < ELV	0.538	mS/cm	yes	Alcontrol Laboratories, TM120, Determination of Electrical Conductivity using a Conductivity Meter	B.S. (British Standard)	0.00019637 BS 2690: Part 9:1976	
SD1	Water	Conductivity	discrete	28/11/2011	1007 μS/cm	All values < ELV	0.52	mS/cm	yes	Alcontrol Laboratories, TM120, Determination of Electrical Conductivity using a Conductivity Meter	B.S. (British Standard)	0.0001898 BS 2690: Part 9:1977	
SD1	Water	Mineral oils	discrete	07/03/2011	5 mg/l	All values < ELV	<10	μ/Ι	yes	Alconrol Laboratories, TM172, EPH in Waters	Analysis of Petroleum Hydrocarbons in Environmental Media - Total petroleum Hydrocarbon Criteria		
SW-1	Water	Mineral oils	discrete	07/03/2011	5 mg/l	All values < ELV	<10	μ/Ι	yes	Alconrol Laboratories, TM172, EPH in Waters	Analysis of Petroleum Hydrocarbons in Environmental Media - Total petroleum Hydrocarbon Criteria		
SW-2	Water	Mineral oils	discrete	07/03/2011	5 mg/l	All values < ELV	<10	μ/Ι	yes	Alconrol Laboratories, TM172, EPH in Waters	Analysis of Petroleum Hydrocarbons in Environmental Media - Total petroleum Hydrocarbon Criteria		
SD1	Water	Mineral oils	discrete	01/06/2011	5 mg/l	All values < ELV	<10	μ/Ι	yes	Alconrol Laboratories, TM172, EPH in Waters	Analysis of Petroleum Hydrocarbons in Environmental Media - Total petroleum Hydrocarbon Criteria		

SW-1	Water	Mineral oils	discrete	01/06/2011	5 mg/l	All values < ELV	<10	μ/Ι	yes	Alconrol Laboratories, TM172, EPH in Waters	Analysis of Petroleum Hydrocarbons in Environmental Media - Total petroleum Hydrocarbon Criteria			
SW-2	Water	Mineral oils	discrete	01/06/2011	5 mg/l	All values < ELV	<10	μ/Ι	yes	Alconrol Laboratories, TM172, EPH in Waters	Analysis of Petroleum Hydrocarbons in Environmental Media - Total petroleum Hydrocarbon Criteria			
SD1	Water	Mineral oils	discrete	20/09/2011	11 mg/l	All values < ELV	0.538	μ/Ι	yes	Alconrol Laboratories, TM172, EPH in Waters	Analysis of Petroleum Hydrocarbons in Environmental Media - Total petroleum Hydrocarbon Criteria		0.00019637	
SD1	Water	Mineral oils	discrete	28/11/2011	5 mg/l	All values < ELV	<10	μ/Ι	yes	Alconrol Laboratories, TM172, EPH in Waters	Analysis of Petroleum Hydrocarbons in Environmental Media - Total petroleum Hydrocarbon Criteria			
WWT -1	Wastewater/Sewe	Sulphate	discrete	07/03/2011	1000 mg/l	All values < ELV	18.8	mg/l	yes	Alcontrol Laboratories, TM184, The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers	ЕРА	Methods 325.1 & 325.2	0.006862	
WWT -1	Wastewater/Sewe	Sulphate	discrete	01/06/2011	1000 mg/l	All values < ELV	46	mg/l	yes	Alcontrol Laboratories, TM184, The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers	EPA	Methods 325.1 & 325.2	0.01679	
WWT -1	Wastewater/Sewe	Sulphate	discrete	20/09/2011	1000 mg/l	All values < ELV	<2	mg/l	yes	Alcontrol Laboratories, TM184, The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers	EPA	Methods 325.1 & 325.2		
WWT -1	Vastewater/Sewe	Sulphate	discrete	28/11/2011	1000 mg/l	All values < ELV	<2	mg/l	yes	Alcontrol Laboratories, TM184, The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers	EPA	Methods 325.1 & 325.2		

								1						[]
WWT -1	Wastewater/Sewe	Ortho-phosphate (as PO4)	discrete	07/03/2011	10 mg/l	All values < ELV	0.202	mg/l	yes	Alcontrol Laboratories, TM184, The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers		Methods 325.1 & 325.2	0.00007373	
WWT -1	Wastewater/Sewe	Ortho-phosphate (as PO4)	discrete	01/06/2011	10 mg/l	All values < ELV	1.71	mg/l	yes	Alcontrol Laboratories, TM184, The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers		Methods 325.1 & 325.2	0.00062415	
WWT -1	Wastewater/Sewe	Ortho-phosphate (as PO4)	discrete	20/09/2011	10 mg/l	All values < ELV	0.559	mg/l	yes	Alcontrol Laboratories, TM184, The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers		Methods 325.1 & 325.2	0.000204035	
WWT -1	Vastewater/Sewe	Ortho-phosphate (as PO4)	discrete	28/11/2011	10 mg/l	All values < ELV	0.355	mg/l	yes	Alcontrol Laboratories, TM184, The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers		Methods 325.1 & 325.2	0.000129575	
WWT -1	Wastewater/Sewe	Fats, Oils and Greases	discrete	07/03/2011	100 mg/l	All values < ELV	9.16	mg/l	yes	Alcontrol	The Determination		0.0033434	
WWT -1	Wastewater/Sewe		discrete	01/06/2011	100 mg/l	All values < ELV	217	mg/l	no	Alcontrol Laboratories, TM235, Determination of Total Petroleum	of Hudrocarbon The Determination of Hydrocarbon Oils in Waters by Solvent Extraction,		0.079205	Waste Water transported to Longford Sewerage Works and treated as waste water.
WWT -1	Vastewater/Sewe	Fats, Oils and Greases	discrete	20/09/2011	100 mg/l	All values < ELV	174	mg/l	no	Alcontrol Laboratories, TM235, Determination of Total Petroleum	The Determination of Hydrocarbon Oils in Waters by Solvent Extraction.		0.06351	Waste Water transported to Longford Sewerage Works and treated as waste water.
WWT -1	Wastewater/Sewe	Fats, Oils and Greases	discrete	28/11/2011	100 mg/l	All values < ELV	1040	mg/l	no	Alcontrol Laboratories, TM235, Determination of Total Petroleum Alcontrol	The Determination of Hydrocarbon Oils in Waters by Solvent Extraction. The measurement		0.3796	Waste Water transported to Longford Sewerage Works and treated as waste water.
SD1	Water	рН	discrete	07/03/2011	6.0 - 9.0	No pri varue shan	8.05	ph Units	yes	Laboratorias TM256	Ine measurement		0.00293825	
SW-1	Water	рН	discrete	07/03/2011	6.0 - 9.0		8.22	ph Units	yes	Alcontrol	The measurement		0.0030003	
SW-2	Water	рН	discrete	07/03/2011	6.0 - 9.0	No pH varue shari	8.16	ph Units	yes				0.0029784	
WWT -1	Wastewater/Sewe	рН	discrete	07/03/2011	6.0 - 9.0	No pH varue shan	7.72	ph Units	yes	Laboratorios TM256	Ine measurement		0.0028178	
SD1	Water	рН	discrete	01/06/2011	6.0 - 9.0	No pH varue shall	7.99	ph Units	yes	Laboratorios TM256 Alcontrol	Ine measurement		0.00291635	
SW-1	Water	рН	discrete	01/06/2011	6.0 - 9.0	No ph várue shan	7.97	ph Units	yes	Laboratorios TM256 Alcontrol	Ine measurement		0.00290905	
SW-2	Water	рН	discrete	01/06/2011	6.0 - 9.0	No pH varue shan	8.01	ph Units	yes	Laboratorias TM256 Alcontrol	Ine measurement		0.00292365	
WWT -1	Wastewater/Sewe	рН	discrete	01/06/2011	6.0 - 9.0	No ph várue shan	7.67	ph Units	yes	Laboratorios TM256 Alcontrol	Ine measurement		0.00279955	
SD1	Water	рН	discrete	20/09/2011	6.0 - 9.0	No pat várue shan	7.39	ph Units	yes	Laboratorios TM256 Alcontrol	Ine measurement		0.00269735	
WWT -1	Wastewater/Sewe	рН	discrete	20/09/2011	6.0 - 9.0	No pH varue shall	6.84	ph Units	yes	Laboratorias TM256 Alcontrol	The measurement		0.0024966	
SD1	Water	рН	discrete	28/11/2011	6.0 - 9.0	dovjat v frae stlan	8.13	ph Units	yes	Laboratoriat TM256	Ineffelastriefflent		0.00296745	
WWT -1	Water/Sewe	рН	discrete	28/11/2011	6.0 - 9.0	кю ратов зна л	7.02	ph Units	yes	Alcontrol	Ine heastrement		0.0025623	
SG-1	Water	Suspended Solids	discrete	12/12/2011	30	All values < ELV	9	mg/l	yes	Alcontrol	of SCAtrinale	Blue Book 130	0.003285	
SG-2	Water	BOD	discrete	12/12/2011	20	All values < ELV	6.75	mg/l	yes	Alcontrol	BRSK"ASBIDE	Blue Book 130	0.00246375	
			2.00.010	,,		STOCO YELV			,	Laboratories TM045	Book" series	DIGC DOOK 130		

SG-3	Water	Ammoniacal Nitrogen as N	discrete	12/12/2011	5	All values < ELV	7.1	mg/l	no (if no please enter details in comments box)	Alcontrol Laboratories, TM061, Determination of Extractable Petroleum Hydrocarbons by GC- FID (C10-C40)		BS 2690: PArt7: 1968 / BS 6068: Part2.11:1984	0.0025915	This result exceeds our licence limit of 5 mg/l. We will continue with applying new operation procedures and Monitoring Amoniacal Nitrogen as N emissions and if necessary more frequent desludging will be applied.
SG-4	Water	Nitrate as NO3	discrete	12/12/2011		All values < ELV	6.92	mg/l	yes	Alcontrol Laboratories, TM184, The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers		Methods 325.1 & 325.2	0.0025258	
SG-5	Water	рН	discrete	12/12/2011		No pH value shall deviate from the specified range.	7.59	ph Units		Alcontrol Laboratories, TM256, Determination of pH in Waters and Leachate using the GLpH pH Meter	The measurement of Electrical Conductivity and the Laboratory determination of pH Value of Natural, Treated and Wastewaters. HMSO, 1978. ISBN 011751428 15		0.00277035	
		luded as a reportable parar												

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

Continuous monitoring

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

Additional Information

If yes please summarise your continuous monitoring data below in Table 4 and compare it to its relevant Emission Limit Value (ELV)

Did continuous monitoring equipment experience downtime? If yes please record downtime in
 table 4 below
 Do you have a proactive service contract for each piece of continuous monitoring equipment on

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

Did abatement system bypass occur during the reporting year? If yes please complete table 5 8 below

Table 4: Summary of average emissions -continuous monitoring

SELECT	
SELECT	
SELECT	

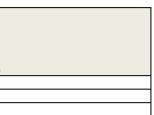
				ELV or trigger				Annual Emission	% change +/- from			
				values in licence or				for current	previous reporting	Monitoring	% compliance	
Emission	n Em	nission		any revision		Compliance	Units of	reporting year	year	Equipment	current reporting	
reference	e no: rele	eased to	Parameter/ Substance	thereof	Averaging Period	Criteria	measurement	(kg)		downtime (hours)	year	Comments
		SELECT	SELECT		SELECT	SELECT	SELECT					
		SELECT	SELECT		SELECT	SELECT	SELECT					
noto 1·V	/olumotric fl	low chall he incl	ludad as a raportable para	motor			•	•		-		

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

Table 5: Abatement system bypass reporting table

Duration (hours)	Location	Resultant	Reason for	Corrective	Was a report	When was this
		emissions	bypass	action*	submitted to the	report
					EPA?	submitted?
					SELECT	
	Duration (hours)				emissions bypass action*	emissions bypass action* submitted to the

*Measures taken or proposed to reduce or limit bypass frequency



AER summary template-AIR emissions

Additional information

During the reporting period three set of results were obtained for dust. Standard method VDI12119 (Measurement of Dustfall, Determination of Dustfall using Bergerhoff Instrument (Standard Method) German Engineering Institute) was utilized for analysis. Dustfall measurements were taken twice during the perio May to September. Sampling points were reduced to three with the agreement of the Agency (D2 was excluded as results from this point are not re-presentative of the waste facility.) No exceedance of licence limit was recorded within monitoring period.

Yes

Table 1 Fugitive emissions

Parameter /Substance	Annual fugitive emission (kg/annum)	Quantificaton method M/C/E
Dust	0.007763	М

Periodic/Non-Continuous Monitoring

2	Are there any results in breach of licence requirements? If yes please provide	de brief details in the commen	t section of Table 2	
	below			No
		Basic air		
3	Was all monitoring carried out in accordance with EPA guidance note AG2	monitoring		
	and using the basic air monitoring checklist?	<u>checklist</u>	AGN2	Yes

Does your site have licensed air emissions? If yes please complete table 1, 2 and 3 below for the current reporting

year and answer further questions. If you do not have licenced emissions and do not complete a solvent

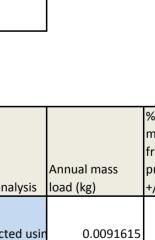
management plan (table 5 and 6) you <u>only</u> need to complete table 1 fugitive emissions on site below

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

										% change in mass load	
			ELV in licence							from	
Emission			or any revision			Unit of	Compliant with		Annual mass	previous year	
reference no:	Parameter/ Substance	Date of Monitoring	therof	Licence Compliance criteria	Measured value	measurement	licence limit	Method of analysis	load (kg)	+/-	Comments
					25.1						
No. 1 D1	Dust	03/05/2011 - 1/06/2011	No	350 mg/m2/day		mg/m2/day	yes	Dust is collected usir	0.0091615	-22.05%	
					26.1						
No. 1 D3	Dust	03/05/2011 - 1/06/2011	No	350 mg/m2/day			yes	Dust is collected usir	0.0095265	34.54%	
					11.8						
No.1 D4	Dust	03/05/2012 - 1/06/2012	No	350 mg/m2/day		mg/m2/day	yes	Dust is collected usir	0.004307	-62.78%	
					31.7						
No.2 D1	Dust	18/08/2011 - 16/09/2011	No	350 mg/m2/day		mg/m2/day	yes	Dust is collected usir	0.0115705	-66.24%	

1

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r	i	c)	d	



					20.6						
No. 2 D3	Dust	18/08/2011 - 16/09/2011	No	350 mg/m2/day		mg/m2/day	yes	Dust is collected usin	0.007519	15.73%	
					25.6						
No. 2 D4	Dust	18/08/2011 - 16/09/2011	No	350 mg/m2/day		mg/m2/day	yes	Dust is collected usin	0.009344	-7.91%	
					33.3						
No.3 D1	Dust	27/10/2011 - 25/11/2011	No	350 mg/m2/day		mg/m2/day	yes	Dust is collected usin	0.0121545	-41.06%	
					13.9						
No 3. D3	Dust	27/10/2011 - 25/11/2011	No	350 mg/m2/day		mg/m2/day	yes	Dust is collected usin	0.0050735	-23.63%	
					3.33						
No 3.D4	Dust	27/10/2011 - 25/11/2011	No	350 mg/m2/day		mg/m2/day	yes	Dust is collected usin	0.00121545	-49.55%	
						mg/m2/day	yes	SELECT			
						mg/m2/day	yes	SELECT			
	SELECT			SELECT		SELECT	SELECT	SELECT			

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

Continuous Monitoring

4 Does your site carry out continuous air emissions monitoring?

If yes please review your continuous monitoring data and report the required fields below in Table 3 and compare it to its

relevant Emission Limit Value (ELV)

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

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

7

Did your site experience any abatement system bypasses? If yes please detail them in table 4 below **Table 3: Summary of average emissions -continuous monitoring**

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

No

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

Table 4: Abatement system bypass reporting table

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

Bypass protocol

* 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

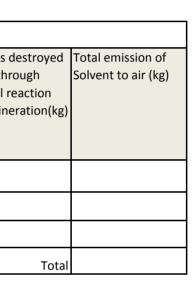
inspections please refer to bypass protocol link

	_	
	_	

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

Reporting year Total solvent input on site (kg) Total VOC emissions to Air from entire site (direct and fugitive) Total VOC emissions as %of solvent input Compliance Total Emission Limit Value (ELV) in licence or any revision theroid Total Emission Limit Value (ELV) in licence or any revision theroid SELECT Image: Compliance of the Compliance				SolventPlease refer to linked solvent regulations toregulationscomplete table 5 and 6					
Image: sector			from entire site (direct and	emissions as %of solvent		Compliance			
Image: Solvent Mass Balance summary SELECT (I) Inputs (kg) (I) Inputs (kg) (I) Inputs (kg) Solvent Organic solvent emission in waste gases(kg) Solvents lost in water (kg) Collected waste solvent (kg) Fugitive Organic Solvent released in other ways e.g. by passes (kg) Solvents destroyed onsite through physical reaction									
Table 6: Solvent Mass Balance summary (I) Inputs (kg) (O) Outputs (kg) Solvent Organic solvent emission in waste gases(kg) Solvents lost in water (kg) Collected waste solvent (kg) Fugitive Organic Solvent released in other ways e.g. by-passes (kg) Solvents destroyed other ways e.g. by-passes (kg)						SELECT			
Image: Construction of the second						SELECT			
Solvent Organic solvent emission in waste gases(kg) Solvents lost in water (kg) Collected waste solvent (kg) Fugitive Organic Solvent released in other ways e.g. by passes (kg) Solvents destroyed	Table	6: Solvent Mass Bala	ance summary						
waste gases(kg) water (kg) Solvent (kg) other ways e.g. by- passes (kg) onsite through physical reaction		(I) Inputs (kg)			(O) Ou	tputs (kg)			
	Solvent	(I) Inputs (kg)					other ways e.g. by-	onsite through	S

SELECT



Total