

**Facility Information Summary**

AER Reporting Year	2018
Licence Register Number	P0050-02
Name of site	Guerbet Ireland ULC
Site Location	Damastown Industrial Estate, Mulhuddart, Dublin 15, D15 YE36
NACE Code	2120
Class/Classes of Activity	Manufacture of Pharmaceutical Products and their intermediates
National Grid Reference (6E, 6 N)	304712E, 241390.6N

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

This is the 2018 Annual Environmental Report for Guerbet Ireland Unlimited Company as per Condition 2.9.2 of the Industrial Emissions License No P0050-02. As specified in the EPA AER guidance document all summary information is presented for the previous calendar year of 2018.

Production decreased in 2018 at the facility by 10% on the previous year (2017). The company completed two successful audits by Certification Europe for ISO 14001:2015 Standard during the year. The EMS ensures that the company accomplishes best practice in the area of environmental management and compliance. Guerbet changed to a MCERTS accredited Air Emission Contractor for the quarterly compliance emissions. Air emissions results did fluctuate in comparison to 2017 results due to the change in laboratory analysis and an increase in limit of detections. Wastewater to sewer results decreased in 2018 due to the lower production yields and less chemical usage. No bund testing or environmental noise testing was due for completion in 2018.

Groundwater monitoring was completed in 2019 and all parameters indicated any changes to the local groundwater. Energy usage has decreased again in 2018 based on the kg of product produced. Waste generated on-site decreased in 2018 with no chemical waste removed via road tanker. Lower production yields along with changes in the plant process has decreased the waste generation on-site. No environmental complaints were received in 2018. There were 8 environmental incidents reported to the EPA in 2018 with one compliance investigation instigated.

**Declaration:**

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

Signature	Sharon Lahart & Conor Cooney	Date	29/03/2019
Group/Facility manager	EHS Manager & EHS Engineer		
(or nominated, suitably qualified and experienced deputy)			

AIR-summary template	Lic No: P0050-02	Year: 2018
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Answer all questions and complete all tables where relevant

- 1 Does your site have licensed air emissions? If yes please complete table A1 and A2 below for the current reporting year and answer further questions. If **you do not have** licenced emissions and **do not complete a solvent management plan** (table A4 and A5) you do not need to complete the tables

Additional information	
Yes	<p><b>Licensed Emissions Points P0050-02</b>            AB-02 Vent Dryer D-300            AB-06 Vent Dryer D-301 (Known on site as D1300)</p> <p>AB-03 - Vent - Scrubber SC-991 (Tank Farm)            ABAS-01 Vent - EtO Abator (SC2051)            ABAS-02 Chlorides Scrubber (SC2011)</p> <p>AB-04 Old Boiler            AB-05 New Boiler</p>

### 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	
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- 3 Was all monitoring carried out in accordance with EPA guidance [Basic air monitoring](#) note AG2 and using the basic air monitoring checklist? [checklist](#)

[AGN2](#)

Yes	All air emissions monitoring is carried out by a contractor accredited to ISO17025. Checklist completed and available for inspection on site
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**Table A1: Licensed Mass Emissions/Ambient data-periodic monitoring (non-continuous)**

Emission reference no:	Parameter/ Substance	Frequency of Monitoring	ELV in licence or any revision thereof	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence limit	Method of analysis	Annual mass load (kg)	Comments - reason for change in % mass load from previous year if applicable
AB-03 Vent Scrubber SC-991 (T-964 Tank)	volumetric flow	Quarterly	35m <sup>3</sup> /hr	No 30min mean can exceed the ELV	35.18	m <sup>3</sup> /hr	yes	N/A	N/A	-
AB-03 Vent Scrubber SC-991 (T-964 Tank Farm)	TA Luft Vaporous or Gaseous Inorganic Substances Class III	Quarterly	30mg/m <sup>3</sup>	No 30min mean can exceed the ELV	0.44	mg/m <sup>3</sup>	yes	EN1911:2010, EN 14791:2010	0.127	Ammonia and HCl was measured.
AB-04 Vent Old Boiler	volumetric flow	Quarterly	11000 m <sup>3</sup>	No 30min mean can exceed the ELV	3416.5	m <sup>3</sup> /hr	yes	N/A	N/A	Boiler used as back up - running time 15% of the year
AB-04 Vent Old Boiler	Total Particulates	Quarterly	5mg/m <sup>3</sup>	No 30min mean can exceed the ELV	0.735	mg/m <sup>3</sup>	yes	EN13284:2002	1.54	Boiler used as back up - running time 15% of the year
AB-04 Vent Old Boiler	Carbon monoxide (CO)	Quarterly	100mg/m <sup>3</sup>	No 30min mean can exceed the ELV	2.76	mg/m <sup>3</sup>	yes	EN15058-2006	6.77	Boiler used as back up - running time 15% of the year
AB-04 Vent Old Boiler	Nitrogen oxides (NOx/NO2)	Quarterly	200mg/m <sup>3</sup>	No 30min mean can exceed the ELV	43.63	mg/m <sup>3</sup>	yes	EN14792:2006	276.93	Boiler used as back up - running time 15% of the year

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		Lic No:		P0050-02		Year		2018		
AB-04 Vent Old Boiler	Sulphur oxides (SOx/SO2)	Quarterly	35mg/m <sup>3</sup>	No 30min mean can exceed the ELV	16.5	mg/m <sup>3</sup>	yes	TGN-21	137.43	Boiler used as back up - running time 15% of the year
AB-05 New Boiler	volumetric flow	Quarterly	11000 m <sup>3</sup>	No 30min mean can exceed the ELV	6173	m <sup>3</sup> /hr	yes	N/A	N/A	Main Boiler in use - running time 85% of the year
AB-05 New Boiler	Total Particulates	Quarterly	5mg/m <sup>3</sup>	No 30min mean can exceed the ELV	0.74	mg/m <sup>3</sup>	yes	EN13284:2002	32.81	Main Boiler in use - running time 85% of the year
AB-05 New Boiler	Carbon monoxide (CO)	Quarterly	100mg/m <sup>3</sup>	No 30min mean can exceed the ELV	2.3	mg/m <sup>3</sup>	yes	EN15058-2006	95.37	Main Boiler in use - running time 85% of the year
AB-05 New Boiler	Nitrogen oxides (NOx/NO2)	Quarterly	200mg/m <sup>3</sup>	No 30min mean can exceed the ELV	123.13	mg/m <sup>3</sup>	yes	EN14792:2006	5318.2	Main Boiler in use - running time 85% of the year
AB-05 New Boiler	Sulphur oxides (SOx/SO2)	Quarterly	35mg/m <sup>3</sup>	No 30min mean can exceed the ELV	0.37	mg/m <sup>3</sup>	yes	TGN-21	401.94	Main Boiler in use - running time 85% of the year
ABAS-01 Vent - Ethylene Oxide Abator	TA Luft carcinogenic substances Class 3	Quarterly	5mg/m <sup>3</sup>	No 30min mean can exceed the ELV	<1.34	mg/m <sup>3</sup>	yes	EN 13649:2014	<3.53	Measured Value equal average of four quarterly values.
ABAS-01 Vent - Ethylene Oxide Abator	volumetric flow	Quarterly	5500m <sup>3</sup> /hr	No 30min mean can exceed the ELV	318.25	m <sup>3</sup> /hr	yes	N/A	N/A	Measured Value equal average of four quarterly values.
ABAS-01 Vent - Ethylene Oxide Abator	Ethylene oxide	Quarterly	5mg/m <sup>3</sup>	No 30min mean can exceed the ELV	<1.32	mg/m <sup>3</sup>	yes	EN 13649:2014	<0.72	Measured Value equal average of four quarterly values.
ABAS-02 - Chlorides Scrubber	volumetric flow	Quarterly	5000m <sup>3</sup> /hr	No 30min mean can exceed the ELV	96.25	m <sup>3</sup> /hr	yes	N/A	N/A	Measured Value equal average of four quarterly values.
ABAS-02 - Chlorides Scrubber	TA Luft organic substances class 1	Quarterly	20mg/m <sup>3</sup>	No 30min mean can exceed the ELV	38.77	mg/Nm <sup>3</sup>	yes	EN 13649:2014	30.806	Measured Value equal average of four quarterly values.
ABAS-02 - Chlorides Scrubber	TA Luft organic substances class 2	Quarterly	100mg/m <sup>3</sup>	No 30min mean can exceed the ELV	15.193	mg/Nm <sup>3</sup>	yes	EN 13649:2014	12.328	Measured Value equal average of four quarterly values.
ABAS-02 - Chlorides Scrubber	TA Luft organic substances class 3	Quarterly	150mg/m <sup>3</sup>	No 30min mean can exceed the ELV	7.46	mg/Nm <sup>3</sup>	yes	EN 13649:2014	5.75	Measured Value equal average of four quarterly values.

AIR-summary template		Lic No:		P0050-02		Year		2018		
AB-02 Vent (D-300) - Dryer	volumetric flow	Quarterly	2600 m3/hr	No 30min mean can exceed the ELV	2713	m3/hr	yes	N/A	N/A	Measured Value equal average of four quarterly values.
AB-02 Vent (D-300) - Dryer	General Dust	Quarterly	150mg/m3	No 30min mean can exceed the ELV	0.62	mg/m <sup>3</sup>	yes	EN13284-1:2002	9.55	Measured Value equal average of four quarterly values.
AB-06 (D-1300) - Dryer	volumetric flow	Quarterly	2600 m3/hr	No 30min mean can exceed the ELV	5689	m3/hr	yes	N/A	N/A	Measured Value equal average of four quarterly values.
AB-06 (D-1300) - Dryer	General Dust	Quarterly	150mg/m3	No 30min mean can exceed the ELV	0.53	mg/m <sup>3</sup>	yes	EN13284-1:2002	9.58	Measured Value equal average of four quarterly values.

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

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<b>AIR-summary template</b>	Lic No: P0050-02	Year: 2018
<b>Continuous Monitoring</b>		

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 A2 and compare it to its relevant Emission Limit Value (ELV)	Yes	
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	Quarterly monitoring carried out by the calibration company
7	Did your site experience any abatement system bypasses? If yes please detail them in table A3 below	Yes	This bypass was reported to the EPA as an incident (see table A3)

**Table A2: Summary of average emissions -continuous monitoring**

Emission reference no:	Parameter/ Substance	ELV in licence or any revision thereof	Averaging Period	Compliance Criteria	Units of measurement	Annual Emission	Annual maximum	Monitoring Equipment downtime (hours)	Number of ELV exceedences in current reporting year	Comments
ABAS-01	Ethylene Oxide	5 mg/m3	1min	100 % of values < ELV	ppm	0.46 ppm	N/A	0	0	Any exceedence above the ELV was determined as an equipment error as no ETO production processes were running at the

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

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Additional information	
<p>1 Does your site have licensed emissions direct to surface water or direct to sewer? If yes please complete table W2 and W3 below for the current reporting year and answer further questions. If <b>you do not have</b> licensed emissions you <b>only</b> need to complete table W1 and or W2 for storm water analysis and visual inspections</p>	<p>We have one licenced emission to Surface Water, Emission Point Reference SW1 and we have one licensed emission point to Sewer WWT-01. The Trigger Level and Action Level for SW1 for TOC is 30mg/l and 40mg/l respectively.</p> <p>SW2 is not a licensed emission point but an agreement was made with the EPA in 2014 to carry out monitoring at this location biannually and results are compared with the limits set out in the Surface Water Environmental Objectives (Surface Water) Regulations 2009 (SI 272 of 2009). The Data for SW2 has been included in Table W1 of this report .</p>
<p>2 Was it a requirement of your licence to carry out visual inspections on any surface water discharges or watercourses on or near your site? If yes please complete table W2 below summarising <u>only any evidence of contamination noted during visual inspections</u></p>	<p>Visual inspections are carried out weekly on SW1 and a sample taken for analysis in our in house laboratory for Visual Appearance, logged on Guerbet's STARLIMS (Laboratory Information Management System)</p>

**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	onsite	Total organic carbon (TOC) (as total C or COD/3)	Total Organic Carbon (as C)	Continuous Monitoring of TOC and pH	40mg/l	No flow value shall exceed the specific limit.	All values were below agreed Trigger level.	ng/L	yes	Please see full details in Complaints and Incidents
SW2	onsite	Chromium	Chromium	26/04/2018	32	N/A	<3	ug/l	yes	MAC-EQS is included in Column G, means that for each representative monitoring point within the waterbody no measured concentration exceeds the standard.
SW2	onsite	Copper	Copper	26/04/2018	NE	N/A	2.4	ug/l	yes	MAC-EQS is included in Column G, means that for each representative monitoring point within the waterbody no measured concentration exceeds the standard.
SW2	onsite	Arsenic	Arsenic	26/04/2018	NE	N/A	<2	ug/l	yes	MAC-EQS is included in Column G, means that for each representative monitoring point within the waterbody no measured concentration exceeds the standard.

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AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)										
						Lic No:	P0050-02	Year		2018
SW2	onsite	Boron	Boron	26/04/2018	NE	N/A	23.7	ug/l	yes	MAC-EQS is included in Column G, means that for each representative monitoring point within the waterbody no measured concentration exceeds the standard.
SW2	onsite	Cadmium	Cadmium	26/04/2018	0.6	N/A	<0.5	ug/l	yes	MAC-EQS is included in Column G, means that for each representative monitoring point within the waterbody no measured concentration exceeds the standard.
SW2	onsite	Nickel	Nickel	26/04/2018	20	N/A	2.07	ug/l	yes	MAC-EQS is included in Column G, means that for each representative monitoring point within the waterbody no measured concentration exceeds the standard.
SW2	onsite	Lead	Lead	26/04/2018	7.2	N/A	<1	ug/l	yes	MAC-EQS is included in Column G, means that for each representative monitoring point within the waterbody no measured concentration exceeds the standard.
SW2	onsite	Zinc	Zinc	26/04/2018	NE	N/A	47.8	ug/l	yes	MAC-EQS is included in Column G, means that for each representative monitoring point within the waterbody no measured concentration exceeds the standard.

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						Lic No:	P0050-02	Year	2018	
SW2	onsite	Selenium	Selenium	26/04/2018	NE	N/A	7.53	ug/l	yes	MAC-EQS is included in Column G, means that for each representative monitoring point within the waterbody no measured concentration exceeds the standard.
SW2	onsite	Magnesium	Magnesium	26/04/2018	NE	N/A	8.84	mg/l	yes	MAC-EQS is included in Column G, means that for each representative monitoring point within the waterbody no measured concentration exceeds the standard.
SW2	onsite	Mercury	Mercury	26/04/2018	0.07	N/A	<0.02	ug/l	yes	MAC-EQS is included in Column G, means that for each representative monitoring point within the waterbody no measured concentration exceeds the standard.
SW2	onsite	Calcium	Calcium	26/04/2018	NE	N/A	155	mg/l	yes	MAC-EQS is included in Column G, means that for each representative monitoring point within the waterbody no measured concentration exceeds the standard.
SW2	onsite	Iron	Iron	26/04/2018	NE	N/A	0.039	mg/l	yes	MAC-EQS is included in Column G, means that for each representative monitoring point within the waterbody no measured concentration exceeds the standard.

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AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)										Lic No:	P0050-02	Year	2018
SW2	onsite	EPH	EPH	26/04/2018	NE	N/A	<10	ug/l	yes	MAC-EQS is included in Column G, means that for each representative monitoring point within the waterbody no measured concentration exceeds the standard.			
SW2	onsite	VOC (range)	VOC (range)	26/04/2018	NE	N/A	<1	ug/l	yes	MAC-EQS is included in Column G, means that for each representative monitoring point within the waterbody no measured concentration exceeds the standard.			
SW2	onsite	Potassium	Potassium	26/04/2018	NE	N/A	1.9	mg/l	yes	MAC-EQS is included in Column G, means that for each representative monitoring point within the waterbody no measured concentration exceeds the standard.			
SW2	onsite	Sodium	Sodium	26/04/2018	NE	N/A	30.4	mg/l	yes	MAC-EQS is included in Column G, means that for each representative monitoring point within the waterbody no measured concentration exceeds the standard.			
SW2	onsite	Chromium	Chromium	26/09/2018	32	N/A	<3	ug/l	yes	MAC-EQS is included in Column G, means that for each representative monitoring point within the waterbody no measured concentration exceeds the standard.			

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AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)									
Lic No: P0050-02 Year 2018									
SW2	onsite	Copper	Copper	NE	N/A	1.13	ug/l	yes	MAC-EQS is included in Column G, means that for each representative monitoring point within the waterbody no measured concentration exceeds the standard.
SW2	onsite	Arsenic	Arsenic	NE	N/A	<2	ug/l	yes	MAC-EQS is included in Column G, means that for each representative monitoring point within the waterbody no measured concentration exceeds the standard.
SW2	onsite	Boron	Boron	NE	N/A	26.8	ug/l	yes	MAC-EQS is included in Column G, means that for each representative monitoring point within the waterbody no measured concentration exceeds the standard.
SW2	onsite	Cadmium	Cadmium	0.6	N/A	<0.5	ug/l	yes	MAC-EQS is included in Column G, means that for each representative monitoring point within the waterbody no measured concentration exceeds the standard.
SW2	onsite	Nickel	Nickel	20	N/A	1.34	ug/l	yes	MAC-EQS is included in Column G, means that for each representative monitoring point within the waterbody no measured concentration exceeds the standard.

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AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)										
Lic No: P0050-02 Year 2018										
SW2	onsite	Lead	Lead	7.2		N/A	<1	ug/l	yes	MAC-EQS is included in Column G, means that for each representative monitoring point within the waterbody no measured concentration exceeds the standard.
SW2	onsite	Zinc	Zinc	NE		N/A	22.1	ug/l	yes	MAC-EQS is included in Column G, means that for each representative monitoring point within the waterbody no measured concentration exceeds the standard.
SW2	onsite	Selenium	Selenium	NE		N/A	11	ug/l	yes	MAC-EQS is included in Column G, means that for each representative monitoring point within the waterbody no measured concentration exceeds the standard.
SW2	onsite	Magnesium	Magnesium	NE		N/A	10.5	mg/l	yes	MAC-EQS is included in Column G, means that for each representative monitoring point within the waterbody no measured concentration exceeds the standard.
SW2	onsite	Mercury	Mercury	0.07		N/A	<0.02	ug/l	yes	MAC-EQS is included in Column G, means that for each representative monitoring point within the waterbody no measured concentration exceeds the standard.

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AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)											
				Lic No:		P0050-02		Year		2018	
SW2	onsite	Calcium	Calcium	NE	N/A	157	mg/l	yes	MAC-EQS is included in Column G, means that for each representative monitoring point within the waterbody no measured concentration exceeds the standard.		
SW2	onsite	Iron	Iron	NE	N/A	0.044	mg/l	yes	MAC-EQS is included in Column G, means that for each representative monitoring point within the waterbody no measured concentration exceeds the standard.		
SW2	onsite	EPH	EPH	NE	N/A	15.4	ug/l	yes	MAC-EQS is included in Column G, means that for each representative monitoring point within the waterbody no measured concentration exceeds the standard.		
SW2	onsite	VOC (range)	VOC (range)	NE	N/A	<1	ug/l	yes	MAC-EQS is included in Column G, means that for each representative monitoring point within the waterbody no measured concentration exceeds the standard.		
SW2	onsite	Potassium	Potassium	NE	N/A	4.27	mg/l	yes	MAC-EQS is included in Column G, means that for each representative monitoring point within the waterbody no measured concentration exceeds the standard.		

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AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)									
		Lic No:		P0050-02		Year		2018	
SW2	onsite	Sodium	Sodium	NE		53.8	mg/l	yes	MAC-EQS is included in Column G, means that for each representative monitoring point within the waterbody no measured concentration exceeds the standard.
26/09/2018	N/A								

\*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

No	N/A
Yes	Continuous monitoring for operational reasons is carried out on site in our own internal laboratory for critical parameters to ensure the WWTP operates at optimum conditions. External monitoring is carried out monthly where a split sample is divided with Fincham County Council and sent for external analysis in an approved laboratory. No exceedance in emission limit values as set down in licence P0050-02 were detected in 2018.

4 Was all monitoring carried out in accordance with EPA guidance and checklists for Quality of Aqueous Monitoring Data Reported to the EPA? If no please detail what areas require improvement in additional information box

[External/Internal Lab Quality checklist](#) [Assessment of results checklist](#)

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

Emission reference no:	Emission released to	Parameter/ SubstanceNote 1	Type of sample	Frequency of monitoring	Averaging period	ELV or trigger values in licence or any revision thereof <sup>Note 2</sup>	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence	Method of analysis	Procedural reference source	Procedural reference standard number	Annual mass load (kg)	Comments
WWT-01	Wastewater/Sewer	volumetric flow	continuous	Monthly	Monthly	2200	All values < ELV	25320.28	m3/day	yes	Other (please describe)	Ultrasonic	FT-564-02 Flow Transmitter FE-564-02 Flow Meter Calibration Interval 180 Days	N/A	The volume emitted in any one day is below our discharge limit from the site's licence. Height of the water in the flume outlet channel is measured using the instruments listed and calibrated.
WWT-01	Wastewater/Sewer	BOD	composite	Monthly	Monthly	600	All results < 1.2 x ELV	73.38	mg/L	yes	Other (please describe)	ALHA, 2012, 22ND Edition, Method 5210BB, TCMP Nitrification Inhibition	DO Probe	40948.69	External Testing - Independent Laboratory
WWT-01	Wastewater/Sewer	COD	composite	Monthly	Monthly	1200	All results < 1.2 x ELV (except one incident - see section 3 above)	632.38	mg/L	yes	Other (please describe)	G/03 APHA, 2012, 22ND Edition, Method 5220D	UV Spectrometry	241528.09	External Testing - Independent Laboratory
WWT-01	Wastewater/Sewer	Suspended Solids	composite	Monthly	Monthly	600	All results < 1.2 x ELV	147.79	mg/L	yes	Gravimetric analysis	G/19 APHA, 2012, 22nd Edition, Method 2540D	G/19 APHA, 2012, 22nd Edition, Method 2540D	93036.09	External Testing - Independent Laboratory

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)															
		Lic No:		P0050-02		Year		2018							
WWT-01	Wastewater/Se wer	Sulphates SO <sub>4</sub>	composite	Monthly	Monthly	300	All results < 1.2 x ELV	50.5	mg/L	yes	ISE (Ion Selective Electrode)	G/39 APHA 2012, 22ND Edition. Method 4110B	G/39 APHA 2012, 22ND Edition. Method 4110B	18224.77	External Testing - Independent Laboratory
WWT-01	Wastewater/Se wer	Copper Cu	composite	Monthly	Monthly	5	All results < 1.2 x ELV	8.99	µg/L	yes	Other (please describe)	ICPMS - EPA Method 200.8	ICPMS	3.09	External Testing - Independent Laboratory
WWT-01	Wastewater/Se wer	Fats, Oils, Greases	composite	Monthly	Monthly	20	All results < 1.2 x ELV	2	mg/L	yes	Gravimetric analysis	G/32 APHA, 2012, 22nd Edition, Method 5520B	G/32 APHA, 2012, 22nd Edition, Method 5520B	900.29	External Testing - Independent Laboratory
WWT-01	Wastewater/Se wer	Phosphates PO <sub>4</sub> -P	composite	Monthly	Monthly	20	All results < 1.2 x ELV	6.63	mg/L	yes	Other (please describe)	G/39 APHA 2012, 22ND Edition. Method 4110B	IC- Ion Chromtogra	1531.60	External Testing - Independent Laboratory
WWT-01	Wastewater/Se wer	Iodinated Compounds	composite	Monthly	Monthly	300	All results < 1.2 x ELV	165.13	mg/L	yes	Other (please describe)	In house Method done in Lab on site - UV	UV spectrophotometr ic	48403.80	Internal Method - In house Method Used. We run the sample against a set of Ioversol standards made up in water and calculate the Iodinated compounds in the flume against these standards.
WWT-01	Wastewater/Se wer	Chlorides Cl	composite	Monthly	Monthly	4500	All results < 1.2 x ELV	3102.86	mg/L	yes	Other (please describe)	G/39 APHA 2012, 22ND Edition. Method 4110B	IC- Ion Chromtogra	971103.72	External Testing - Independent Laboratory
WWT-01	Wastewater/Se wer	Ammonia NH <sub>3</sub> -N	composite	Monthly	Monthly	100	All results < 1.2 x ELV	50.09	mg/L	yes	Other (please describe)	G/67 APHA 2012, 22ND Edition, 4500-NH <sub>3</sub> and bluebook ammonia in waters 1981	UV vis spectrometr	30,985.78	External Testing - Independent Laboratory
WWT-01	Wastewater/Se wer	Nitrates NO <sub>3</sub> -N	composite	Monthly	Monthly	25	All results < 1.2 x ELV	5.35	mg/L	yes	Other (please describe)	G/67 APHA 2012, 22ND Edition, 4500-NO <sub>2</sub> B. Colorimetric Method	UV vis spectrometr	893.55	External Testing - Independent Laboratory
WWT-01	Wastewater/Se wer	Kjeldahl Nitrogen (TKN)	composite	Monthly	Monthly	200	All results < 1.2 x ELV	69.1	mg/L	yes	Other (please describe)	In house Method of External Lab based on calculation (TK- TON)	Calculation	45091.83	External Testing - Independent Laboratory
WWT-01	Wastewater/Se wer	Total Nitrogen (N)	composite	Monthly	Monthly	300	All results < 1.2 x ELV	86.96	mg/L	yes	Other (please describe)	G/93 Based on ENV 12260 2003	Flame Analysis	48457.70	External Testing - Independent Laboratory

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

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

**AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)** Lic No: P0050-02 Year 2018

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

Additional Information	
Yes	There is continuous monitoring on Temperature, PH and flow to the sewer

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

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

No	There was no downtime experience for continuous monitoring to the sewer in 2017
----	---

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

Yes	All Environmental Critical Monitoring Equipment is recorded in our preventative maintenance programme Maximo where external or internal.
-----	--

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

No	No Abatement system Bypass
----	----------------------------

**Table W4: Summary of average emissions -continuous monitoring**

Emission reference no:	Emission released to	Parameter/ Substance	ELV or trigger values in licence or any revision thereof	Averaging Period	Compliance Criteria	Units of measurement	Annual Emission for current reporting year (kg)	% change +/- from previous reporting year	Monitoring Equipment downtime (hours)	Number of ELV exceedences in reporting year	Comments
WWT-01	Wastewater/Se wer	pH	6 -10	24 hour	No pH value. shall deviate from the .specified range	pH units	8.30 Units Average for Year	No Change - same pH of wastewater to sewer	0	0	Continuous Monitoring is linked to central control system on site with monitoring alarms in built
WWT-01	Wastewater/Se wer	Temperature	42°C	24 hour	No temperature . value shall exceed the limit value	Degrees C	24.0 °C Average for the Year	Marginally Difference - 25.2°C in 2017	0	0	Continuous Monitoring is linked to central control system on site with monitoring alarms in built
WWT-01	Wastewater/Se wer	Volumetric flow	2200m <sup>3</sup>	24 hour	No flow value shall exceed the specific limit.	m3/day	373473.5 m <sup>3</sup> for the Year	10,048 m <sup>3</sup> increase in flow out from the site (2.6%) in 2018 compared to 2017	0	0	Continuous Monitoring is linked to central control system on site with monitoring alarms in built

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

**Table W5: Abatement system bypass reporting table**

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

\*Measures taken or proposed to reduce or limit bypass frequency

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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 out table B1 below listing all new bunds and containment structures on site, in addition to all bunds which failed the integrity test-all bunding structures which failed including mobile bunds must be listed in the table below, please include all bunds outside the licenced testing period (mobile bunds and chemstore included)

Yes	
3 years	
Yes	
98	Approximately
All have been tested	
20	Some bunds have been decommissioned
Yes	where applicable
All have been tested	
Separate Schedule	16 Sumps in Total - Sump Matrix 2018
All	
Yes	As per condition 9.4.4 of our licence those of which are required so have these in place
Yes	Maximo Programme
Yes	Tested every 3 years. Last test in 2018.

- 1 Please provide integrity testing frequency period
- 2 Does the site maintain a register of bunds, underground pipelines (including stormwater and foul), Tanks, sumps and containers? (containers refers to "Chemstore" type units and mobile bunds)
- 3 How many bunds are on site?
- 4 How many of these bunds have been tested within the required test schedule?
- 5 How many mobile bunds are on site?
- 6 Are the mobile bunds included in the bund test schedule?
- 7 How many of these mobile bunds have been tested within the required test schedule?
- 8 How many sumps on site are included in the integrity test schedule?
- 9 How many of these sumps are integrity tested within the test schedule?
- 10 Please list any sump integrity failures in table B1
- 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?
- 13 Is the Fire Water Retention Pond included in your integrity test programme?

Table B1: Summary details of bund /containment structure integrity test

Bund/Containment structure ID	Type	Specify Other type	Product containment	Actual capacity	Capacity required*	Type of integrity test	Other test type	Test date	Integrity reports maintained on site?	Results of test	Integrity test failure explanation <50 words	Corrective action taken	Scheduled date for retest	Results of retest (if in current reporting year)
B1	reinforced concrete	N/A	Tank Farm (MeOH)	T-960	34453	Hydrostatic	Hydrostatic	Sept 2016 -Passed Hydrostatic	02.09.2016	Yes	Pass	N/A	N/A	N/A
B2	reinforced concrete	N/A	Tank Farm (Waste MeOH)	T-288	35074	Hydrostatic	Hydrostatic	Sept 2016 -Passed Hydrostatic	02.09.2016	Yes	Pass	N/A	N/A	N/A
B3	reinforced concrete	N/A	Tank Farm (Caustic)	T-962	112000	Structural	Structural	Structural Assessment carried out by Independent suitably qualified person May 2016	19.05.2016	Yes	Pass	N/A	N/A	N/A
B4	reinforced concrete	N/A	Tank Farm (HCL)	T-964	35700	Hydrostatic	Hydrostatic	Sept 2016 - Passed Hydrostatic	05.09.2016	Yes	Pass	N/A	N/A	N/A
B5	reinforced concrete	N/A	ASI (High Stength Waste)	T-940	12960	Hydrostatic	Hydrostatic	Sept 2016 -Passed Hydrostatic Structural Assessment passed	05.09.2016	Yes	Pass	N/A	N/A	N/A
B6	reinforced concrete	N/A	Utility Building (Low Strength Waste)	T-912	12807	Hydrostatic	Hydrostatic	Sept 2016 -Passed Hydrostatic	06.09.2016	Yes	Pass	N/A	N/A	N/A
B7	reinforced concrete	N/A	ASI (Methanol Recovery)	T-850	20540	Hydrostatic	Hydrostatic	Sept 2016 -Passed Hydrostatic Structural Assessment passed	05.09.2016	Yes	Pass	N/A	N/A	N/A
B8	reinforced concrete	N/A	ASI (Methanol Recovery)	T-871	19430	Hydrostatic	Hydrostatic	Sept 2016 -Passed Hydrostatic Structural Assessment passed	05.09.2016	Yes	Pass	N/A	N/A	N/A
B9	reinforced concrete	N/A	Tank Farm CAC (Unsuitable for Hydrostatic testing)	TA-5031	35700	Structural	Structural	No Action	13/11/2016	Yes	Pass	N/A	N/A	N/A
B10	reinforced concrete	N/A	Tank Farm (DMAC Storage)	TA-5011	103750	Hydrostatic	Hydrostatic	Sept 2016 -MEA Structural Assessment passed	05.09.2016	Yes	Pass	N/A	N/A	N/A
B11	reinforced concrete	N/A	Tank Farm (DMAC Virgin)	TA-5021 (Virgin)	103750	Hydrostatic	Hydrostatic	Sept 2016 -MEA Structural Assessment passed	05.06.2016	Yes	Pass	N/A	N/A	N/A

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Bund/Pipeline testing template			Lic No: P0050-02				Year 2018								
								McElroy on site for inspection May 2016 - Received Certificate	19.05.2016			N/A	N/A	N/A	
B11A	reinforced concrete	N/A	Tank Farm (DMAC Waste)	TA-5121 (Waste)	103750		37850	Structural	Sept 2016 -Passed Hydrostatic Structural Assessment identified repairs	06.09.2016	Yes	Pass	Passed Hydrostatic	Engineers report from visual inspection has identified minor repairs. To be Scheduled	Passed Hydrostatic
B12	reinforced concrete	N/A	Process Building External (West - Scrubber SC 2011)	SC-2011	7735		4000	Hydrostatic	Sept 2016 -Passed Hydrostatic Structural Assessment passed	07.09.2016	Yes	Pass	N/A	N/A	N/A
B13	reinforced concrete	N/A	ASI (Process Sumps)	Process Pumps under TA-2021	18616		8000	Hydrostatic	Sept 2016 -Passed Hydrostatic Structural Assessment identified repairs	07.09.2016	Yes	Pass	Passed Hydrostatic	Engineers report from visual inspection has identified minor repairs. To be scheduled	Passed Hydrostatic
B14	reinforced concrete	N/A	ASI (DMAC Recovery)	DMAC Recovery	16836		7400	Hydrostatic	No Action	13/11/2017	Yes	Pass	N/A	N/A	N/A
B15	reinforced concrete	N/A	SC-2051	Scrubber		N/A		Structural	Sept 2016 -Passed Hydrostatic Structural Assessment passed	07.09.2016	Yes	Pass	N/A	N/A	N/A
B16	reinforced concrete	N/A	West of Process Building (RO Make up Tanks)	RO Make-Up Tanks	35200		30000	Hydrostatic	Sept 2016 - Structural Assessment Passed	16.09.2016	Yes	Pass	N/A	N/A	N/A
B17	reinforced concrete	N/A	Drumstore Plinth	Drumstore Hard Standing		N/A		Structural	Repairs required re MEA Report Dated Oct 2016 - Crack In Floor	16.09.2016	Yes	Pass	Crack in Floor of Plinth	Visual inspection identified one crack - Repairs to be scheduled	Hydrostatic not possible visual inspection to be scheduled following repairs
B17A	reinforced concrete	N/A	Drumstore - New extension Plinth Sept 2015	Drumstore Hard Standing		N/A		Structural	Repairs required re MEA Report Dated Oct 2016 - Tanker Loading Area	16.09.2016	Yes	Pass	Visual Inspection identified repairs	Visual Inspection identified repairs. Repairs to be scheduled	Hydrostatic not possible visual inspection to be scheduled following repairs
B18	reinforced concrete	N/A	Drumstore/ Tanker Loading Area Plinth	Drumstore Hard Standing/ Tanker Loading Area		N/A		Structural	Sept 2016 -Passed Hydrostatic Structural Assessment passed	07.09.2016	Yes	Pass	N/A	N/A	N/A
B19	reinforced concrete	N/A	Rear of Warehouse (Diesel Generator Bund)	Diesel Generator	756		100	Hydrostatic	No Action	25.08.2016	Yes	Pass	N/A	N/A	N/A
B20	other (please specify)	Mobile Plastic Bund	CE Charging (Portable)	Portable Bund	200		25	Hydrostatic	Sept 2016 - Structural Assessment Passed. Aco Drain requires sealing	16.09.2016	Yes	Pass	Eco Drain in area requires sealing	Visual inspection identified repairs. Repairs to be scheduled	Hydrostatic not possible visual inspection to be scheduled following repairs
B21	reinforced concrete	N/A	CE Charging	Internal at scales		N/A		Structural	No Action	18.01.2016	Yes	Pass	N/A	N/A	N/A
B22	other (please specify)	Chemstore Unit	Drumstore	Rack 4		N/A		Hydrostatic	No Action	25.08.2016	Yes	Pass	N/A	N/A	N/A
B23	reinforced concrete	N/A	Blower/Polymer Room (Fixed Bund - Foamtrol)	Polymer Room	1000		250	Hydrostatic	No Action	18.01.2016	Yes	Pass	N/A	N/A	N/A
B24	other (please specify)	Mobile Plastic Bund	Utility Building (Portable Steamate)	Fixed Bund (Boiler Chemical Dosing)Steamate	412.5		375	Hydrostatic	No Action	18.01.2016	Yes	Pass	N/A	N/A	N/A
B25	other (please specify)	Mobile Plastic Bund	Utility Building (Portable - Optisperse)	Fixed Bund (Boiler Chemical Dosing) Optisperse	412.5		375	Hydrostatic	No Action	18.01.2016	Yes	Pass	N/A	N/A	N/A
B26	other (please specify)	Mobile Plastic Bund	Utility Building (Portable)	Fixed Bund (Boiler Chemical Dosing) Ctrlol	412.5		375	Hydrostatic	No Action	25.08.2016	Yes	Pass	N/A	N/A	N/A
B29	other (please specify)	Chemstore Unit	Drumstore	Rack 1 - Waste Oil Blue Bund				Hydrostatic	No Action	25.08.2016	Yes	Pass	N/A	N/A	N/A
B30	other (please specify)	Mobile Plastic Bund	Blower Room	Polymer Room - Foamtrol	500		1000	Hydrostatic	No Action	25.08.2016	Yes	Pass	N/A	N/A	N/A

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Bund/Pipeline testing template			Lic No: P0050-02		Year 2018									
B31	other (please specify)	Chemstore Unit	Drumstore	Rack 4	N/A	N/A	Hydrostatic	No Action	18.01.2016	Yes	Pass	N/A	N/A	N/A
B32	other (please specify)	Chemstore Unit	Drumstore	Rack 4	N/A	N/A	Hydrostatic	No Action	18.01.2016	Yes	Pass	N/A	N/A	N/A
B33	reinforced concrete	N/A	ASI	Transformer	200	23	Structural	Sept 2016 - Structural Assessment Passed	16.09.2016	Yes	Pass	N/A	N/A	N/A
B34	other (please specify)	Chemstore Unit	Drumstore	Rack 4	N/A	N/A	Hydrostatic	No Action	18.01.2016	Yes	Pass	N/A	N/A	N/A
B35	reinforced concrete	Chemstore Unit	Tanker Unloading Polychannel	Tank Farm	N/A	N/A	Structural	16th Sept 2016 - Structural Assessment identified repairs, Cracking along polychannel	17.09.2016	Yes	Pass	Cracking along polychannel repairs completed during Shutdown 2016. Visual inspection to be organised	Cracking along polychannel repairs completed during Shutdown 2016. Visual inspection to be organised	Hydrostatic not possible visual inspection to be scheduled following repairs
B36	other (please specify)	Chemstore Unit	Drumstore	Rack 4	N/A	N/A	Hydrostatic	No Action	18.01.2016	Yes	Pass	N/A	N/A	N/A
B37	other (please specify)	Chemstore Unit	Drumstore	Rack 4	N/A	N/A	Hydrostatic	No Action	18.01.2016	Yes	Pass	N/A	N/A	N/A
B38	other (please specify)	Chemstore Unit	Drumstore	Rack 4	N/A	N/A	Hydrostatic	No Action	18.01.2016	Yes	Pass	N/A	N/A	N/A
B39	other (please specify)	Chemstore Unit	Drumstore	Rack 4	N/A	N/A	Hydrostatic	No Action	18.01.2016	Yes	Pass	N/A	N/A	N/A
B40	other (please specify)	Chemstore Unit	Drumstore	Rack 4	N/A	N/A	Hydrostatic	No Action	18.01.2016	Yes	Pass	N/A	N/A	N/A
B41	other (please specify)	Chemstore Unit	Drumstore	Rack 4	N/A	N/A	Hydrostatic	No Action	18.01.2016	Yes	Pass	N/A	N/A	N/A
B42	other (please specify)	Chemstore Unit	Drumstore	Rack 4	N/A	N/A	Hydrostatic	No Action	18.01.2016	Yes	Pass	N/A	N/A	N/A
B43	other (please specify)	Chemstore Unit	Drumstore	Rack 4	N/A	N/A	Hydrostatic	No Action	18.01.2016	Yes	Pass	N/A	N/A	N/A
B44	other (please specify)	Chemstore Unit	Drumstore	Rack 4	N/A	N/A	Hydrostatic	No Action	18.01.2016	Yes	Pass	N/A	N/A	N/A
B45	other (please specify)	Chemstore Unit	Drumstore	Rack 4	N/A	N/A	Hydrostatic	No Action	18.01.2016	Yes	Pass	N/A	N/A	N/A
B46	other (please specify)	Chemstore Unit	Drumstore	Rack 4	N/A	N/A	Hydrostatic	No Action	18.01.2016	Yes	Pass	N/A	N/A	N/A
B47	other (please specify)	Chemstore Unit	Drumstore	Rack 4	N/A	N/A	Hydrostatic	No Action	18.01.2016	Yes	Pass	N/A	N/A	N/A
B48	other (please specify)	Chemstore Unit	Drumstore	Rack 4	N/A	N/A	Hydrostatic	No Action	18.01.2016	Yes	Pass	N/A	N/A	N/A
B49	other (please specify)	Chemstore Unit	Drumstore	Rack 4	N/A	N/A	Hydrostatic	No Action	18.01.2016	Yes	Pass	N/A	N/A	N/A
B50	other (please specify)	Chemstore Unit	Drumstore	Rack 4	N/A	N/A	Hydrostatic	No Action	18.01.2016	Yes	Pass	N/A	N/A	N/A
B51	other (please specify)	Chemstore Unit	Drumstore	Rack 4	N/A	N/A	Hydrostatic	No Action	18.01.2016	Yes	Pass	N/A	N/A	N/A
B52	other (please specify)	Chemstore Unit	Drumstore	Rack 2	N/A	N/A	Hydrostatic	No Action	18.01.2016	Yes	Pass	N/A	N/A	N/A
B53	other (please specify)	Chemstore Unit	Drumstore	Rack 2	N/A	N/A	Hydrostatic	No Action	18.01.2016	Yes	Pass	N/A	N/A	N/A
B54	other (please specify)	Chemstore Unit	Drumstore	Rack 2	N/A	N/A	Hydrostatic	No Action	18.01.2016	Yes	Pass	N/A	N/A	N/A
B55	other (please specify)	Chemstore Unit	Drumstore	Rack 2	N/A	N/A	Hydrostatic	No Action	18.01.2016	Yes	Pass	N/A	N/A	N/A
B56	other (please specify)	Chemstore Unit	Drumstore	Rack 2	N/A	N/A	Hydrostatic	No Action	18.01.2016	Yes	Pass	N/A	N/A	N/A
B57	other (please specify)	Chemstore Unit	Drumstore	Rack 2	N/A	N/A	Hydrostatic	No Action	18.01.2016	Yes	Pass	N/A	N/A	N/A
B58	other (please specify)	Chemstore Unit	Drumstore	Rack 2	N/A	N/A	Hydrostatic	No Action	22.02.2016	Yes	Pass	N/A	N/A	N/A
B59	other (please specify)	Chemstore Unit	Drumstore	Rack 2	N/A	N/A	Hydrostatic	No Action	22.02.2016	Yes	Pass	N/A	N/A	N/A
B60	other (please specify)	Chemstore Unit	Drumstore	Rack 2	N/A	N/A	Hydrostatic	No Action	18.01.2016	Yes	Pass	N/A	N/A	N/A
B61	other (please specify)	Chemstore Unit	Drumstore	Rack 2	N/A	N/A	Hydrostatic	No Action	22.02.2016	Yes	Pass	N/A	N/A	N/A
B62	other (please specify)	Chemstore Unit	Drumstore	Rack 2	N/A	N/A	Hydrostatic	No Action	18.01.2016	Yes	Pass	N/A	N/A	N/A
B63	other (please specify)	Chemstore Unit	Drumstore	Rack 2	N/A	N/A	Hydrostatic	No Action	18.01.2016	Yes	Pass	N/A	N/A	N/A
B64	other (please specify)	Chemstore Unit	Drumstore	Rack 2	N/A	N/A	Hydrostatic	No Action	18.01.2016	Yes	Pass	N/A	N/A	N/A
B65	other (please specify)	Chemstore Unit	Drumstore	Rack 2	N/A	N/A	Hydrostatic	No Action	18.01.2016	Yes	Pass	N/A	N/A	N/A
B66	other (please specify)	Chemstore Unit	Drumstore	Rack 2	N/A	N/A	Hydrostatic	No Action	22.02.2016	Yes	Pass	N/A	N/A	N/A
B67	other (please specify)	Chemstore Unit	Drumstore	Rack 2	N/A	N/A	Hydrostatic	No Action	18.01.2016	Yes	Pass	N/A	N/A	N/A
B68	other (please specify)	Chemstore Unit	Drumstore	Rack 2	N/A	N/A	Hydrostatic	No Action	18.01.2016	Yes	Pass	N/A	N/A	N/A
B69	other (please specify)	Chemstore Unit	Drumstore	Rack 2	N/A	N/A	Hydrostatic	No Action	18.01.2016	Yes	Pass	N/A	N/A	N/A
B70	other (please specify)	Chemstore Unit	Drumstore	Rack 2	N/A	N/A	Hydrostatic	No Action	18.01.2016	Yes	Pass	N/A	N/A	N/A
B71	other (please specify)	Chemstore Unit	Drumstore	Rack 2	N/A	N/A	Hydrostatic	No Action	18.01.2016	Yes	Pass	N/A	N/A	N/A
B72	other (please specify)	Chemstore Unit	Drumstore	Rack 1	N/A	N/A	Hydrostatic	No Action	18.01.2016	Yes	Pass	N/A	N/A	N/A
B73	other (please specify)	Chemstore Unit	Drumstore	Rack 1	N/A	N/A	Hydrostatic	No Action	18.01.2016	Yes	Pass	N/A	N/A	N/A
B74	other (please specify)	Chemstore Unit	Drumstore	Rack 1	N/A	N/A	Hydrostatic	No Action	18.01.2016	Yes	Pass	N/A	N/A	N/A
B75	other (please specify)	Chemstore Unit	Drumstore	Rack 1	N/A	N/A	Hydrostatic	No Action	18.01.2016	Yes	Pass	N/A	N/A	N/A
B76	other (please specify)	Chemstore Unit	Drumstore	Rack 1	N/A	N/A	Hydrostatic	No Action	18.01.2016	Yes	Pass	N/A	N/A	N/A
B77	other (please specify)	Chemstore Unit	Drumstore	Rack 1	N/A	N/A	Hydrostatic	No Action	18.01.2016	Yes	Pass	N/A	N/A	N/A
B78	other (please specify)	Chemstore Unit	Drumstore	Rack 1	N/A	N/A	Hydrostatic	No Action	18.01.2016	Yes	Pass	N/A	N/A	N/A
B79	other (please specify)	Chemstore Unit	Drumstore	Rack 1	N/A	N/A	Hydrostatic	No Action	18.01.2016	Yes	Pass	N/A	N/A	N/A
B80	other (please specify)	Chemstore Unit	Drumstore	Rack 1	N/A	N/A	Hydrostatic	No Action	18.01.2016	Yes	Pass	N/A	N/A	N/A
B81	other (please specify)	Chemstore Unit	Drumstore	Rack 1	N/A	N/A	Hydrostatic	No Action	18.01.2016	Yes	Pass	N/A	N/A	N/A
B82	other (please specify)	Mobile Plastic Bund	Drumstore (oil)	Rack 1 - Waste Oil Orange Bund	N/A	N/A	Hydrostatic	No Action	25.08.2016	Yes	Pass	N/A	N/A	N/A
B83	other (please specify)	Mobile Plastic Bund	Fire pump house	Portable Bund - Spectrus	220	245	Hydrostatic	No Action	18.01.2016	Yes	Pass	N/A	N/A	N/A
B84	other (please specify)	Mobile Plastic Bund	Fire pump house	Portable Bund - Genggaard	220	245	Hydrostatic	No Action	18.01.2016	Yes	Pass	N/A	N/A	N/A
B85	other (please specify)	Mobile Plastic Bund	Fire pump house	Portable Bund - Blomate	220	245	Hydrostatic	No Action	18.01.2016	Yes	Pass	N/A	N/A	N/A
B86	other (please specify)	Mobile Plastic Bund	Fire pump house	Portable Bund - Slimicide	220	245	Hydrostatic	No Action	18.01.2016	Yes	Pass	N/A	N/A	N/A
B87	other (please specify)	Mobile Plastic Bund	Fire pump house	Plastic portable - Alcosseal	N/A	N/A	Hydrostatic	No Action	18.01.2016	Yes	Pass	N/A	N/A	N/A
B88	other (please specify)	Mobile Plastic Bund	Fire pump house	Plastic portable - Flufoam	N/A	N/A	Hydrostatic	No Action	18.01.2016	Yes	Pass	N/A	N/A	N/A
B89	other (please specify)	Mobile Plastic Bund	Polymer Room	Nutrifeed Bund	3000	3500	Hydrostatic	No Action	18.01.2016	Yes	Pass	N/A	N/A	N/A
B90	other (please specify)	Mobile Plastic Bund	Utility Building	Fixed Bund (Boiler Chemical Dosing)	449	1000	Hydrostatic	No Action	25.08.2016	Yes	Pass	N/A	N/A	N/A

Bund/Pipeline testing template				Lic No: P0050-02		Year 2018								
B91	reinforced concrete	Redundant Not in Use	South side of development Lab.	2 IBCs Methanol and Water	1100	1000	Hydrostatic	Bund to be made Redundant Maximo Work order raised - MK 15.10.15 - Completed and closed off	26.06.2014	Yes	Pass	N/A	Bund is redundant. No further testing is required.	N/A
B92	reinforced concrete	WWTP Bund Area	High Strength Waste Tanks	TS20 & TS30 TS40 (HSW &LSW Tanks)	TBC	TBC	Structural	Sept 2016 - MEA Structural Assessment identified repairs	10/10/2017	Yes	Pass	N/A	N/A	N/A
B93	other (please specify)	Mobile Plastic Bund	SW TOC Hut	Mobile Pallet	40 Litre		Hydrostatic	No Action	18.01.2016	Yes	Pass	N/A	N/A	N/A
B94	other (please specify)	Mobile Plastic Bund	SW TOC Hut	Mobile Pallet			Hydrostatic	No Action	18.01.2016	Yes	Pass	N/A	N/A	N/A
B95	other (please specify)	Mobile Plastic Bund	Spare in Drumstore	Mobile Spare -Blue			Hydrostatic	No Action	18.01.2016	Yes	Pass	N/A	N/A	N/A
B96	other (please specify)	Mobile Plastic Bund	DMAC Hut	Mobile Pallet			Hydrostatic	No Action	25.08.2016	Yes	Pass	N/A	N/A	N/A
B97	other (please specify)	Mobile Plastic Bund	DMAC Hut	Mobile Pallet			Hydrostatic	No Action	25.08.2016	Yes	Pass	N/A	N/A	N/A
B98	other (please specify)	Mobile Plastic Bund	Maintenance Cleaning	Galtec Slicksol use			Hydrostatic	No Action	21.11.2016	Yes	Pass	N/A	N/A	N/A
B99	other (please specify)	Quipo Pallet	Oil Storage Container	Quipo Pallet	200 Litre		Hydrostatic	Awaiting Certificate from Supplier in English	New	Yes	Pass	N/A	N/A	N/A
B100	other (please specify)	Quipo Pallet	Oil Storage Container	Quipo Pallet	201 Litre		Hydrostatic	Awaiting Certificate from Supplier in English	New	Yes	Pass	N/A	N/A	N/A
B101	other (please specify)	Quipo Pallet	Oil Storage Container	Quipo Pallet	202 Litre		Hydrostatic	Awaiting Certificate from Supplier in English	New	Yes	Pass	N/A	N/A	N/A
N/A	other (please specify)	Fire Water Retention Pond	Fire Water Retention Pond	FWRP	1328m <sup>3</sup>	See Report	Hydrostatic and structural reports	PM Carried out inspection and testing in Oct 2015	Fire Water Retention Pond structural inspection in July and Hydrostatic Test in Oct 2015 - Reports on File	Yes	Pass	N/A	N/A	N/A

\* Capacity required should comply with 25% or 110% containment rule as detailed in your licence  
 Has integrity testing been carried out in accordance with licence requirements and are all structures tested in line with BS8007/EPA Guidance?  
 16 Are channels/transfer systems to remote containment systems tested?  
 17 Are channels/transfer systems compliant in both integrity and available volume?

[bundling and storage guidelines](#)

Yes	
Yes	
Yes	

Pipeline/underground structure testing

Yes	Commentary
Yes	CCTV surveys were carried out in Dec 2015 and Sept 2016. All repairs identified and full reports maintained on site detailing that all pipelines have been integrity testing completed. Repairs completed in 2016. No testing completed in 2018. Scheduled work for 2019.
3 years	

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  
 1 underground structures and pipelines on site which failed the integrity test and all which have not been tested within the integrity test period as specified  
 2 Please provide integrity testing frequency period  
 \*please note integrity testing means water tightness testing of all underground pipelines (as required under your licence)

Table B2: Summary details of pipeline/underground structures integrity test											
Structure ID	Type system	Material of construction:	Does this structure have Secondary containment?	Type of secondary containment	Type integrity testing	Integrity reports maintained on site?	Results of test	Integrity test failure explanation <50 words	Corrective action taken	Scheduled date for retest	Results of retest(if in current reporting year)
	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT				SELECT

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

Groundwater/Soil monitoring template		Lic No:	P0050-02	Year	2018
			Comments		
1	Are you required to carry out groundwater monitoring as part of your licence requirements?	yes	P0050-02 Condition 9.3.4 requires	groundwater monitoring data in the interpretation box below or if you require additional space please include a groundwater/contaminated land monitoring results interpretation as an additional section in	
2	Are you required to carry out soil monitoring as part of your licence requirements?	no	N/A		
3	Do you extract groundwater for use on site? If yes please specify use in comment section	no	N/A		
4	Do monitoring results show that groundwater generic assessment criteria such as GTVs or IGVs are exceeded or is 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.	no	N/A	<p><b>Inorganics</b> - The results of in-organic chemical analysis indicate the following: The Calcium concentration displayed exceedances at borehole MW-2 (315mg/l), MW-3 (267mg/l) and MW-6 (225mg/l). The remaining boreholes MW-1, MW-4 and MW-5 all increased in concentration compared to the previous report in 2016 but are within the IGTV limit of 200 mg/l.</p> <p><b>Heavy Metals</b> - The Manganese level displayed a significant increase at MW-1 (&lt;2→772µg/l) MW-2 (&lt;2→1410µg/l) MW-3 (&lt;2→17.7µg/l) MW-4 (&lt;2→820µg/l) MW-6 (&lt;2→1870µg/l). MW-5 showed a slight reduction (67→53.3µg/l) but still is exceeding its IGTV limit (50µg/l). MW-1, MW-2, MW-4, and MW-6 also exceeding its IGTV limit (50µg/l).</p>	
5	Is the contamination related to operations at the facility (either current and/or historic)	N/A	N/A	The Arsenic concentration displays an increase at MW-1 (<2→3.49µg/l) and MW-4 (<2→1.76µg/l) but all boreholes are within the respective GTV limit (7.5 µg/l).	
6	Have actions been taken to address contamination issues? If yes please summarise remediation strategies proposed/undertaken for the site	N/A	N/A	The Barium concentration displays an increase at MW-4 (<89→114µg/l) and is now in exceedance the respective GTV limit (100 µg/l). All remaining boreholes are within the respective GTV limit (100 µg/l).	
7	Please specify the proposed time frame for the remediation strategy	N/A	N/A	All remaining heavy metal parameters were within their respective GTV/IGTV limit values.	
8	Is there a licence condition to carry out/update ELRA for the site?	yes	ELRA Submitted and agreed with EPA in 2018		
9	Has any type of risk assessment been carried out for the site?	yes	As per ELRA		
10	Has a Conceptual Site Model been developed for the site?	no	N/A		
11	Have potential receptors been identified on and off site?	yes	N/A		
12	Is there evidence that contamination is migrating offsite?	no	N/A	<p><b>Volatile Organic Compounds (VOC)</b> - No VOCs were analysis are presented in Table 5.4 of the GW report. No VOC's were detected for the 2018 monitoring event.</p> <p><b>Hydrocarbons</b> - The results of Total Petroleum Hydrocarbon (TPH) analysis are presented in Table 5.5. TPH parameters were detected at location MW-3 and MW-4.</p> <p>MW-3 is located to the west of the Guerbet facility approximately 20m west of the site car park. The presence of Hydrocarbons in this well, would suggest that the Diesel/Gas or lube oil contamination originates from off-site sources travelling in the underlying groundwater's flowing from the west (see Appendix 1 for Piezometric flow and site layout map).</p> <p>It is worth noting that the Total Aliphatics (&lt;10→29µg/l) have displayed an increase when compared to the 2018 monitoring event. MW-4 is located west of the Guerbet facility approximately 80 meters up gradient of the nearest boundary in a green field area. The presence of Hydrocarbons in this well, would suggest that the Diesel/Gas or lube oil contamination originates from off-site sources travelling in the underlying groundwater's</p>	

Table 1: Upgradient Groundwater monitoring results

Groundwater/Soil monitoring template				Lic No:	P0050-02	Year	2018			
Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration++	Average Concentration+	unit	GTV's*	IGV	Upward trend in pollutant concentration over last 5 years of monitoring data
26/04/2018	MW-1	<b>Total Alkalinity</b>	G/20: Based on APHA, 2012, 22nd edition, method 2320D	2 Years	331	N/A	mg/L CaCO <sub>3</sub>	-	none	no
26/04/2018	MW-1	<b>COD</b>	Based on APHA, 2012, 22nd edition, 5220D, Closed reflux, colourimetric method (G/03)	2 Years	<10	N/A	mg/l O <sub>2</sub>	-	none	no
26/04/2018	MW-1	<b>Chloride</b>	G/67 Konelab based on APHA, 2012, 22nd edition, Ortho-P method 4500-PE Ascorbic acid, Nitrate/Nitrite/TON-method 4500-NO2B Colourimetric method, Chloride-method 4500Cl-E Ferricyanide Method	2 Years	12	N/A	mg/l	24-187.5	none	no

Groundwater/Soil monitoring template				Lic No:	P0050-02	Year	2018		
26/04/2018	MW-1	<b>N02-N</b>	G/67 Konelab based on APHA, 2012, 22nd edition, Ortho-P method 4500-PE Ascorbic acid, Nitrate/Nitrite/TON-method 4500-NO2B Colourimetric method, Chloride-method 4500Cl-E Ferricyanide Method	2 Years	<0.03	N/A	none	no	
26/04/2018	MW-1	<b>N03-N</b>	G/67 Konelab based on APHA, 2012, 22nd edition, Ortho-P method 4500-PE Ascorbic acid, Nitrate/Nitrite/TON-method 4500-NO2B Colourimetric method, Chloride-method 4500Cl-E Ferricyanide Method	2 Years	<0.03	N/A	8.47	none	no

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Groundwater/Soil monitoring template				Lic No:	P0050-02	Year	2018			
26/04/2018	MW-1	<b>PO4-P</b>	G/67 Konelab based on APHA, 2012, 22nd edition, Ortho-P method 4500-PE Ascorbic acid, Nitrate/Nitrite/TON-method 4500-NO2B Colourimetric method, Chloride-method 4500Cl-E Ferricyanide Method	2 Years	1.77	N/A	mg/l	5	no	
26/04/2018	MW-1	<b>Beryllium (diss)</b>	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<0.1	N/A	µg/l	-	none	no
26/04/2018	MW-1	<b>Aluminium (diss)</b>	G/57 ICP-MS Based on EPA Method 200.8	2 Years	150	N/A	µg/l	150	none	no
26/04/2018	MW-1	<b>Chromium (diss)</b>	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<1	N/A	µg/l	37.5	none	no
26/04/2018	MW-1	<b>Manganese (diss)</b>	G/57 ICP-MS Based on EPA Method 200.8	2 Years	772	N/A	µg/l	-	50	Yes
26/04/2018	MW-1	<b>Cobalt (diss)</b>	G/57 ICP-MS Based on EPA Method 200.8	2 Years	0.58	N/A	µg/l	-	none	no
26/04/2018	MW-1	<b>Nickel (diss)</b>	G/57 ICP-MS Based on EPA Method 200.8	2 Years	1.53	N/A	µg/l	15	none	no
26/04/2018	MW-1	<b>Copper (diss)</b>	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<0.3	N/A	µg/l	1500	none	no
26/04/2018	MW-1	<b>Zinc (diss)</b>	G/57 ICP-MS Based on EPA Method 200.8	2 Years	3.05	N/A	µg/l	-	100	no
26/04/2018	MW-1	<b>Arsenic (diss)</b>	G/57 ICP-MS Based on EPA Method 200.8	2 Years	3.49	N/A	µg/l	7.5	none	no
26/04/2018	MW-1	<b>Selenium (diss)</b>	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<1	N/A	µg/l	-	none	no

Groundwater/Soil monitoring template				Lic No:	P0050-02	Year	2018			
26/04/2018	MW-1	Silver (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<0.5	N/A	µg/l	-	none	no
26/04/2018	MW-1	Cadmium (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<0.08	N/A	µg/l	3.75	none	no
26/04/2018	MW-1	Tin (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<1	N/A	µg/l	-	none	no
26/04/2018	MW-1	Antimony (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<1	N/A	µg/l	-	none	no
26/04/2018	MW-1	Barium (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	84.7	N/A	µg/l		100	no
26/04/2018	MW-1	Lead (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<0.2	N/A	µg/l	18.75	none	no
26/04/2018	MW-1	Sodium (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	20.2	N/A	mg/l	150	none	no
26/04/2018	MW-1	Magnesium (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	25.9	N/A	mg/l		50	no
26/04/2018	MW-1	Potassium (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	77	N/A	mg/l		5	no
26/04/2018	MW-1	Calcium (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	139	N/A	mg/l		200	no
26/04/2018	MW-1	Iron (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<0.02	N/A	mg/l	0.2	none	no
26/04/2018	MW-1	Mercury (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<0.01	N/A	µg/l	0.75	none	no
26/04/2018	MW-1	pH	G/05 based on APHA 2012 4500 H&B	2 Years	7.5	N/A	pH units	6.5-9.5	none	no
26/04/2018	MW-1	GRO (C8-C12) **		2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-1	GRO (C4-C12) **		2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-1	MTBE**		2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-1	Benzene**		2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-1	Toluene**		2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-1	Ethylbenzene**		2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-1	p/m Xylene**		2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-1	o -Xylene **		2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-1	>C5-C6 Aliphatic**	C5-8 fractions by headspace GC-FID (0365)	2 Years	<10	N/A	µg/l		< 10	no

Groundwater/Soil monitoring template				Lic No:	P0050-02	Year	2018		
26/04/2018	MW-1	>C6-C8 Aliphatic**	C5-8 fractions by headspace GC-FID (036S)	2 Years	<10	N/A	µg/l	< 10	no
26/04/2018	MW-1	>C8-C10 Aliphatic**	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (005S)	2 Years	<10	N/A	µg/l	< 10	no
26/04/2018	MW-1	>C10-C12 Aliphatic**	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (005S)	2 Years	<10	N/A	µg/l	< 10	no
26/04/2018	MW-1	>C12-C16 Aliphatic**	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (005S)	2 Years	<10	N/A	µg/l	< 10	no

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Groundwater/Soil monitoring template				Lic No:	P0050-02	Year	2018		
26/04/2018	MW-1	>C16-C21 Aliphatic**	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (005S)	2 Years	<10	N/A	µg/l	< 10	no
26/04/2018	MW-1	>C21-C35 Aliphatic**	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (005S)	2 Years	<10	N/A	µg/l	< 10	no
26/04/2018	MW-1	Total Aliphatics C12-C35**	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (005S)	2 Years	<10	N/A	µg/l	< 10	yes
26/04/2018	MW-1	>C5-C7 Aromatic**	C5-8 fractions by	2 Years	<10	N/A	µg/l	< 10	no
26/04/2018	MW-1	>C7-C8 Aromatic**	C5-8 fractions by	2 Years	<10	N/A	µg/l	< 10	no
26/04/2018	MW-1	>C8-C10 Aromatic**	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (005S)	2 Years	<10	N/A	µg/l	< 10	no

Groundwater/Soil monitoring template				Lic No:	P0050-02	Year	2018		
26/04/2018	MW-1	>C10-C12 Aromatic**	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (0055)	2 Years	<10	N/A	µg/l	< 10	no
26/04/2018	MW-1	>C12-C16 Aromatic**	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (0055)	2 Years	<10	N/A	µg/l	< 10	no
26/04/2018	MW-1	>C16-C21 Aromatic**	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (0055)	2 Years	<10	N/A	µg/l	< 10	no
26/04/2018	MW-1	>C21-C35 Aromatic**	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (0055)	2 Years	<10	N/A	µg/l	< 10	no

Groundwater/Soil monitoring template				Lic No:	P0050-02	Year	2018		
26/04/2018	MW-1	<b>Total Aromatics C12-C35**</b>	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (0055)	2 Years	<10	N/A		< 10	no
26/04/2018	MW-3	<b>Total Alkalinity</b>	G/20: Based on APHA, 2012, 22nd edition, method 2320D	2 Years	289	N/A	-	none	no
26/04/2018	MW-3	<b>COD</b>	Based on APHA, 2012, 22nd edition, 5220D, Closed reflux, colourimetric method (G/03)	2 Years	70	N/A	-	none	no
26/04/2018	MW-3	<b>Chloride</b>	G/67 Konelab based on APHA, 2012, 22nd edition, Ortho-P method 4500-PE Ascorbic acid, Nitrate/Nitrite/TON-method 4500-NO2B Colourimetric method, Chloride-method 4500Cl-E Ferricyanide Method	2 Years	14	N/A	24-187.5	none	no

Groundwater/Soil monitoring template				Lic No:	P0050-02	Year	2018		
26/04/2018	MW-3	<b>N02-N</b>	G/67 Konelab based on APHA, 2012, 22nd edition, Ortho-P method 4500-PE Ascorbic acid, Nitrate/Nitrite/TON-method 4500-NO2B Colourimetric method, Chloride-method 4500Cl-E Ferricyanide Method	2 Years	0.22	N/A	none	no	
26/04/2018	MW-3	<b>N03-N</b>	G/67 Konelab based on APHA, 2012, 22nd edition, Ortho-P method 4500-PE Ascorbic acid, Nitrate/Nitrite/TON-method 4500-NO2B Colourimetric method, Chloride-method 4500Cl-E Ferricyanide Method	2 Years	0.22	N/A	8.47	none	no

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Groundwater/Soil monitoring template				Lic No:	P0050-02	Year	2018			
26/04/2018	MW-3	<b>PO4-P</b>	G/67 Konelab based on APHA, 2012, 22nd edition, Ortho-P method 4500-PE Ascorbic acid, Nitrate/Nitrite/TON-method 4500-NO2B Colourimetric method, Chloride-method 4500Cl-E Ferricyanide Method	2 Years	0.312	N/A	mg/l	5	no	
26/04/2018	MW-3	<b>Beryllium (diss)</b>	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<0.1	N/A	µg/l	-	none	no
26/04/2018	MW-3	<b>Aluminium (diss)</b>	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<10	N/A	µg/l	150	none	no
26/04/2018	MW-3	<b>Chromium (diss)</b>	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<1	N/A	µg/l	37.5	none	no
26/04/2018	MW-3	<b>Manganese (diss)</b>	G/57 ICP-MS Based on EPA Method 200.8	2 Years	17.7	N/A	µg/l	-	50	no
26/04/2018	MW-3	<b>Cobalt (diss)</b>	G/57 ICP-MS Based on EPA Method 200.8	2 Years	0.58	N/A	µg/l	-	none	no
26/04/2018	MW-3	<b>Nickel (diss)</b>	G/57 ICP-MS Based on EPA Method 200.8	2 Years	1.38	N/A	µg/l	15	none	no
26/04/2018	MW-3	<b>Copper (diss)</b>	G/57 ICP-MS Based on EPA Method 200.8	2 Years	0.64	N/A	µg/l	1500	none	no
26/04/2018	MW-3	<b>Zinc (diss)</b>	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<1	N/A	µg/l	-	100	no
26/04/2018	MW-3	<b>Arsenic (diss)</b>	G/57 ICP-MS Based on EPA Method 200.8	2 Years	0.5	N/A	µg/l	7.5	none	no
26/04/2018	MW-3	<b>Selenium (diss)</b>	G/57 ICP-MS Based on EPA Method 200.8	2 Years	2.19	N/A	µg/l	-	none	no

Groundwater/Soil monitoring template				Lic No:	P0050-02	Year	2018			
26/04/2018	MW-3	Silver (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<0.5	N/A	µg/l	-	none	no
26/04/2018	MW-3	Cadmium (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<0.08	N/A	µg/l	3.75	none	no
26/04/2018	MW-3	Tin (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<1	N/A	µg/l	-	none	no
26/04/2018	MW-3	Antimony (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<1	N/A	µg/l	-	none	no
26/04/2018	MW-3	Barium (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	37.2	N/A	µg/l		100	no
26/04/2018	MW-3	Lead (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<0.2	N/A	µg/l	18.75	none	no
26/04/2018	MW-3	Sodium (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	7.78	N/A	mg/l	150	none	no
26/04/2018	MW-3	Magnesium (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	12.1	N/A	mg/l		50	no
26/04/2018	MW-3	Potassium (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	9.31	N/A	mg/l		5	no
26/04/2018	MW-3	Calcium (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	267	N/A	mg/l		200	no
26/04/2018	MW-3	Iron (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	0.02	N/A	mg/l	0.2	none	no
26/04/2018	MW-3	Mercury (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<0.01	N/A	µg/l	0.75	none	no
26/04/2018	MW-3	pH	G/05 based on APHA 2012 4500 H&B	2 Years	7.3	N/A	pH units	6.5-9.5	none	no
26/04/2018	MW-3	GRO (C8-C12) **		2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-3	GRO (C4-C12) **		2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-3	MTBE**		2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-3	Benzene**		2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-3	Toluene**		2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-3	Ethylbenzene**		2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-3	p/m Xylene**		2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-3	o -Xylene **		2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-3	>C5-C6 Aliphatic**	C5-8 fractions by headspace GC-FID (0365)	2 Years	<10	N/A	µg/l		< 10	no

Groundwater/Soil monitoring template				Lic No:	P0050-02	Year	2018		
26/04/2018	MW-3	>C6-C8 Aliphatic**	C5-8 fractions by headspace GC-FID (036S)	2 Years	<10	N/A	µg/l	< 10	no
26/04/2018	MW-3	>C8-C10 Aliphatic**	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (005S)	2 Years	<10	N/A	µg/l	< 10	no
26/04/2018	MW-3	>C10-C12 Aliphatic**	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (005S)	2 Years	<10	N/A	µg/l	< 10	no
26/04/2018	MW-3	>C12-C16 Aliphatic**	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (005S)	2 Years	<10	N/A	µg/l	< 10	no

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Groundwater/Soil monitoring template				Lic No:	P0050-02	Year	2018			
26/04/2018	MW-3	>C16-C21 Aliphatic**	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (0055)	2 Years	<10	N/A	µg/l	< 10	no	
26/04/2018	MW-3	>C21-C35 Aliphatic**	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (0055)	2 Years	29	N/A	µg/l	< 10	no	
26/04/2018	MW-3	Total Aliphatics C12-C35**	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (0055)	2 Years	29	N/A	µg/l	< 10	no	
26/04/2018	MW-4	Total Alkalinity	G/20: Based on APHA, 2012, 22nd edition, method 2320D	2 Years	290	N/A	mg/L CaCO3	-	none	no

Groundwater/Soil monitoring template			Lic No:	P0050-02	Year	2018				
26/04/2018	MW-4	<b>COD</b>	Based on APHA, 2012, 22nd edition, 5220D, Closed reflux, colourimetric method (G/03)	2 Years	<10	N/A	mg/l O2	-	none	no
26/04/2018	MW-4	<b>Chloride</b>	G/67 Konelab based on APHA, 2012, 22nd edition, Ortho-P method 4500-PE Ascorbic acid, Nitrate/Nitrite/TON-method 4500-NO2B Colourimetric method, Chloride-method 4500Cl-E Ferricyanide Method	2 Years	13	N/A	mg/l	24-187.5	none	no
26/04/2018	MW-4	<b>N02-N</b>	G/67 Konelab based on APHA, 2012, 22nd edition, Ortho-P method 4500-PE Ascorbic acid, Nitrate/Nitrite/TON-method 4500-NO2B Colourimetric method, Chloride-method 4500Cl-E Ferricyanide Method	2 Years	0.06	N/A	mg/l		none	no

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Groundwater/Soil monitoring template				Lic No:	P0050-02	Year	2018			
26/04/2018	MW-4	<b>N03-N</b>	G/67 Konelab based on APHA, 2012, 22nd edition, Ortho-P method 4500-PE Ascorbic acid, Nitrate/Nitrite/TON-method 4500-NO2B Colourimetric method, Chloride-method 4500Cl-E Ferricyanide Method	2 Years	0.06	N/A	mg/l	8.47	none	no
26/04/2018	MW-4	<b>PO4-P</b>	G/67 Konelab based on APHA, 2012, 22nd edition, Ortho-P method 4500-PE Ascorbic acid, Nitrate/Nitrite/TON-method 4500-NO2B Colourimetric method, Chloride-method 4500Cl-E Ferricyanide Method	2 Years	1.45	N/A	mg/l		5	no
26/04/2018	MW-4	<b>Beryllium (diss)</b>	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<0.1	N/A	µg/l	-	none	no
26/04/2018	MW-4	<b>Aluminium (diss)</b>	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<10	N/A	µg/l	150	none	no
26/04/2018	MW-4	<b>Chromium (diss)</b>	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<1	N/A	µg/l	37.5	none	no
26/04/2018	MW-4	<b>Manganese (diss)</b>	G/57 ICP-MS Based on EPA Method 200.8	2 Years	820	N/A	µg/l		50	no

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Groundwater/Soil monitoring template				Lic No:	P0050-02	Year	2018			
26/04/2018	MW-4	<b>Cobalt (diss)</b>	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<0.5	N/A	µg/l	-	none	no
26/04/2018	MW-4	<b>Nickel (diss)</b>	G/57 ICP-MS Based on EPA Method 200.8	2 Years	2.23	N/A	µg/l	15	none	no
26/04/2018	MW-4	<b>Copper (diss)</b>	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<1	N/A	µg/l	1500	none	no
26/04/2018	MW-4	<b>Zinc (diss)</b>	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<1	N/A	µg/l		100	no
26/04/2018	MW-4	<b>Arsenic (diss)</b>	G/57 ICP-MS Based on EPA Method 200.8	2 Years	1.76	N/A	µg/l	7.5	none	no
26/04/2018	MW-4	<b>Selenium (diss)</b>	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<1	N/A	µg/l	-	none	no
26/04/2018	MW-4	<b>Silver (diss)</b>	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<0.5	N/A	µg/l	-	none	no
26/04/2018	MW-4	<b>Cadmium (diss)</b>	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<0.08	N/A	µg/l	3.75	none	no
26/04/2018	MW-4	<b>Tin (diss)</b>	G/57 ICP-MS Based on EPA Method 200.8	2 Years		N/A	µg/l	-	none	no
26/04/2018	MW-4	<b>Antimony (diss)</b>	G/57 ICP-MS Based on EPA Method 200.8	2 Years	2.11	N/A	µg/l	-	none	no
26/04/2018	MW-4	<b>Barium (diss)</b>	G/57 ICP-MS Based on EPA Method 200.8	2 Years	114	N/A	µg/l		100	no
26/04/2018	MW-4	<b>Lead (diss)</b>	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<0.2	N/A	µg/l	18.75	none	no
26/04/2018	MW-4	<b>Sodium (diss)</b>	G/57 ICP-MS Based on EPA Method 200.8	2 Years	9.14	N/A	mg/l	150	none	no
26/04/2018	MW-4	<b>Magnesium (diss)</b>	G/57 ICP-MS Based on EPA Method 200.8	2 Years	10.5	N/A	mg/l		50	no
26/04/2018	MW-4	<b>Potassium (diss)</b>	G/57 ICP-MS Based on EPA Method 200.8	2 Years	1.45	N/A	mg/l		5	no
26/04/2018	MW-4	<b>Calcium (diss)</b>	G/57 ICP-MS Based on EPA Method 200.8	2 Years	128	N/A	mg/l		200	no

Groundwater/Soil monitoring template				Lic No:	P0050-02	Year	2018			
26/04/2018	MW-4	Iron (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<0.02	N/A	mg/l	0.2	none	no
26/04/2018	MW-4	Mercury (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<0.01	N/A	µg/l	0.75	none	no
26/04/2018	MW-4	pH	G/05 based on APHA 2012 4500 H&B	2 Years	7.5	N/A	pH units	6.5-9.5	none	no
26/04/2018	MW-4	GRO (C8-C12) **		2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-4	GRO (C4-C12) **		2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-4	MTBE**		2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-4	Benzene**		2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-4	Toluene**		2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-4	Ethylbenzene**		2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-4	p/m Xylene**		2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-4	o -Xylene **		2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-4	>C5-C6 Aliphatic**	C5-8 fractions by headspace GC-FID (036S)	2 Years	<10	N/A	µg/l		< 10	no
26/04/2018	MW-4	>C6-C8 Aliphatic**	C5-8 fractions by headspace GC-FID (036S)	2 Years	<10	N/A	µg/l		< 10	no
26/04/2018	MW-4	>C8-C10 Aliphatic**	C8-35 fractions on a received sample extracted with hexane/aceton e, aliphatic/rom atic splits run by GC-FID (005S)	2 Years	<10	N/A	µg/l		< 10	no
26/04/2018	MW-4	>C10-C12 Aliphatic**	C8-35 fractions on a received sample extracted with hexane/aceton e, aliphatic/rom atic splits run by GC-FID (005S)	2 Years	<10	N/A	µg/l		< 10	no

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Groundwater/Soil monitoring template				Lic No:	P0050-02	Year	2018		
26/04/2018	MW-4	>C12-C16 Aliphatic**	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (005S)	2 Years	<10	N/A		< 10	no
26/04/2018	MW-4	>C16-C21 Aliphatic**	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (005S)	2 Years	<10	N/A		< 10	no
26/04/2018	MW-4	>C21-C35 Aliphatic**	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (005S)	2 Years	78	N/A		< 10	no
26/04/2018	MW-4	Total Aliphatics C12-C35**	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (005S)	2 Years	78	N/A		< 10	yes
26/04/2018	MW-4	>C5-C7 Aromatic**	C5-8 fractions by	2 Years	<10	N/A		< 10	no
26/04/2018	MW-4	>C7-C8 Aromatic**	C5-8 fractions by	2 Years	<10	N/A		< 10	no

Groundwater/Soil monitoring template				Lic No:	P0050-02	Year	2018		
26/04/2018	MW-4	>C8-C10 Aromatic**	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (0055)	2 Years	<10	N/A	µg/l	< 10	no
26/04/2018	MW-4	>C10-C12 Aromatic**	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (0055)	2 Years	<10	N/A	µg/l	< 10	no
26/04/2018	MW-4	>C12-C16 Aromatic**	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (0055)	2 Years	<10	N/A	µg/l	< 10	no
26/04/2018	MW-4	>C16-C21 Aromatic**	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (0055)	2 Years	<10	N/A	µg/l	< 10	no

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Groundwater/Soil monitoring template				Lic No:	P0050-02	Year	2018		
26/04/2018	MW-4	>C21-C35 Aromatic**	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (005S)	2 Years	<10	N/A	µg/l	< 10	no
26/04/2018	MW-4	Total Aromatics C12-C35**	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (005S)	2 Years	<10	N/A	µg/l	< 10	no
26/04/2018	MW-4	Total Aliphatics & Aromatics C5-35**	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (005S)	2 Years	<10	N/A	µg/l	none	no
26/04/2018	MW-4	Total Aliphatics C5 -C12 **	C5-8 fractions by	2 Years	<10	N/A	µg/l	none	no
26/04/2018	MW-4	Total Aromatics C5 - C12 **	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (005S)	2 Years	<10	N/A	µg/l	none	no

Groundwater/Soil monitoring template				Lic No:	P0050-02	Year	2018			
26/04/2018	MW-4	Dichlorodifluoromethane**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no	
26/04/2018	MW-4	Chloromethane**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no	
26/04/2018	MW-4	Vinyl chloride**	GC-MS Based on USEPA 524.2 method	26/04/2018	<10	N/A	µg/l	none	no	
26/04/2018	MW-4	Bromomethane**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no	
26/04/2018	MW-4	Chloroethane**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no	
26/04/2018	MW-4	Trichlorofluoromethane**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no	
26/04/2018	MW-4	1,1-Dichloroethene**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no	
26/04/2018	MW-4	Dichloromethane**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	-	none	no
26/04/2018	MW-4	trans-1,2-Dichloroethene**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no	
26/04/2018	MW-4	1,1-Dichloroethane**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no	
26/04/2018	MW-4	2,2-Dichloropropane**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no	
26/04/2018	MW-4	cis-1,2-Dichloroethene**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no	
26/04/2018	MW-4	Bromochloromethane**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no	
26/04/2018	MW-4	Chloroform**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no	
26/04/2018	MW-4	1,1,1-Trichloroethane**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no	
26/04/2018	MW-4	Carbon Tetrachloride**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no	

Groundwater/Soil monitoring template				Lic No:	P0050-02	Year	2018		
26/04/2018	MW-4	1,1-Dichloropropene**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no
26/04/2018	MW-4	1,2-Dichloroethane**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no
26/04/2018	MW-4	Trichloroethene**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no
26/04/2018	MW-4	1,2-Dichloropropane**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no
26/04/2018	MW-4	Dibromomethane**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no
26/04/2018	MW-4	Bromodichloromethane**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no
26/04/2018	MW-4	1,1,2-Trichloroethane**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no
26/04/2018	MW-4	1,2-Dibromoethane**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no
26/04/2018	MW-4	1,1,1,2-Tetrachloroethane**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no
26/04/2018	MW-4	m,p-Xylene**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no
26/04/2018	MW-4	Styrene**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no
26/04/2018	MW-4	Isopropylbenzene**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no
26/04/2018	MW-4	n-propylbenzene**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no
26/04/2018	MW-4	2-Chlorotoluene**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no
26/04/2018	MW-4	4-Chlorotoluene**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no
26/04/2018	MW-4	1,2,4-Trimethylbenzene**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no

Groundwater/Soil monitoring template				Lic No:	P0050-02	Year	2018		
26/04/2018	MW-4	<b>4-Isopropyltoluene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no
26/04/2018	MW-4	<b>1,4-Dichlorobenzene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no
26/04/2018	MW-4	<b>1,2-Dichlorobenzene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no
26/04/2018	MW-4	<b>Naphthalene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no
26/04/2018	MW-4	<b>1,3-Dichloropropane**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no
26/04/2018	MW-4	<b>cis-1,3-Dichloropropene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no
26/04/2018	MW-4	<b>trans-1,3-Dichloropropene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no
26/04/2018	MW-4	<b>Dibromochloromethane**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no
26/04/2018	MW-4	<b>Chlorobenzene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no
26/04/2018	MW-4	<b>Ethyl Benzene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no
26/04/2018	MW-4	<b>o-Xylene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no
26/04/2018	MW-4	<b>Bromoform**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no
26/04/2018	MW-4	<b>1,2,3-Trichloropropane**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no
26/04/2018	MW-4	<b>Bromobenzene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no
26/04/2018	MW-4	<b>Tert-Butylbenzene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no
26/04/2018	MW-4	<b>Sec-Butylbenzene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no

Groundwater/Soil monitoring template			Lic No:		P0050-02		Year		2018	
26/04/2018	MW-4	1,3,5-Trimethylbenzene**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-4	1,2- Dibromo-3-chloropropane**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-4	Hexachlorobutadiene**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-4	1,2,3-Trichlorobenzene**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-4	1,3-Dichlorobenzene**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-4	Tetrachloroethene**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-4	n-butylbenzene**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-4	1,2,4-Trichlorobenzene**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-4	Methanol	Based on ASTM Method D3695 (G/14)	2 Years	<10	N/A	mg/l	-	none	no
26/04/2018	MW-4	Acetonitrile	Based on ASTM Method D3695 (G/14)	2 Years	<10	N/A	mg/l	-	none	no
26/04/2018	MW-4	Ethanol	Based on ASTM Method D3695 (G/14)	2 Years	<10	N/A	mg/l	-	none	no
26/04/2018	MW-4	Acetone	Based on ASTM Method D3695 (G/14)	2 Years	<10	N/A	mg/l	-	none	no
26/04/2018	MW-4	Isopropanol	Based on ASTM Method D3695 (G/14)	2 Years	<10	N/A	mg/l	-	none	no
26/04/2018	MW-4	GRO C4-C8 **	C5-8 fractions by	2 Years	<10	N/A	µg/l		none	no

.+ 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

Groundwater/Soil monitoring template										
					Lic No:	P0050-02		Year	2018	
Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration	Average Concentration	unit	GTV's*	IGV	Upward trend in yearly average pollutant concentration over last 5 years of monitoring data
26/04/2018	MW-2	<b>Total Alkalinity</b>	G/20: Based on APHA, 2012, 22nd edition, method 2320D	2 Years	272	N/A	mg/L CaCO3	-	none	no
26/04/2018	MW-2	<b>COD</b>	Based on APHA, 2012, 22nd edition, 5220D, Closed reflux, colourimetric method (G/03)	2 Years	<10	N/A	mg/l O2	-	none	no
26/04/2018	MW-2	<b>Chloride</b>	G/67 Konelab based on APHA, 2012, 22nd edition, Ortho-P method 4500-PE Ascorbic acid, Nitrate/Nitrite/TON-method 4500-NO2B Colourimetric method, Chloride-method 4500Cl-E Ferricyanide Method	2 Years	14	N/A	mg/l	24-187.5	none	no

Groundwater/Soil monitoring template				Lic No:	P0050-02	Year	2018			
26/04/2018	MW-2	<b>N02-N</b>	G/67 Konelab based on APHA, 2012, 22nd edition, Ortho-P method 4500-PE Ascorbic acid, Nitrate/Nitrite/TON-method 4500-NO2B Colourimetric method, Chloride-method 4500Cl-E Ferricyanide Method	2 Years	0.22	N/A	mg/l	none	no	
26/04/2018	MW-2	<b>N03-N</b>	G/67 Konelab based on APHA, 2012, 22nd edition, Ortho-P method 4500-PE Ascorbic acid, Nitrate/Nitrite/TON-method 4500-NO2B Colourimetric method, Chloride-method 4500Cl-E Ferricyanide Method	2 Years	0.22	N/A	mg/l	8.47	none	no

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Groundwater/Soil monitoring template				Lic No:	P0050-02	Year	2018			
26/04/2018	MW-2	PO4-P	G/67 Konelab based on APHA, 2012, 22nd edition, Ortho-P method 4500-PE Ascorbic acid, Nitrate/Nitrite/TON-method 4500-NO2B Colourimetric method, Chloride-method 4500Cl-E Ferricyanide Method	2 Years	1.22	N/A	mg/l		5	no
26/04/2018	MW-2	Berylium (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<0.1	N/A	µg/l	-	none	no
26/04/2018	MW-2	Aluminium (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<10	N/A	µg/l	150	none	no
26/04/2018	MW-2	Chromium (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<1	N/A	µg/l	37.5	none	no
26/04/2018	MW-2	Manganese (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	1410	N/A	µg/l		50	no
26/04/2018	MW-2	Cobalt (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<0.5	N/A	µg/l	-	none	no
26/04/2018	MW-2	Nickel (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	1.26	N/A	µg/l	15	none	no
26/04/2018	MW-2	Copper (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	0.45	N/A	µg/l	1500	none	no
26/04/2018	MW-2	Zinc (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	2.67	N/A	µg/l		100	no
26/04/2018	MW-2	Arsenic (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<0.5	N/A	µg/l	7.5	none	no
26/04/2018	MW-2	Selenium (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<1	N/A	µg/l	-	none	no

Groundwater/Soil monitoring template			Lic No:	P0050-02	Year	2018				
26/04/2018	MW-2	Silver (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<0.5	N/A	µg/l	-	none	no
26/04/2018	MW-2	Cadmium (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	0.25	N/A	µg/l	3.75	none	no
26/04/2018	MW-2	Tin (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<1	N/A	µg/l	-	none	no
26/04/2018	MW-2	Antimony (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<1	N/A	µg/l	-	none	no
26/04/2018	MW-2	Barium (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	49.3	N/A	µg/l		100	no
26/04/2018	MW-2	Lead (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<0.1	N/A	µg/l	18.75	none	no
26/04/2018	MW-2	Sodium (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	14.3	N/A	mg/l	150	none	no
26/04/2018	MW-2	Magnesium (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	24.0	N/A	mg/l		50	no
26/04/2018	MW-2	Potassium (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	1.22	N/A	mg/l		5	no
26/04/2018	MW-2	Calcium (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	315	N/A	mg/l		200	no
26/04/2018	MW-2	Iron (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<0.02	N/A	mg/l	0.2	none	no
26/04/2018	MW-2	Mercury (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<0.01	N/A	µg/l	0.75	none	no
26/04/2018	MW-2	pH	G/05 based on APHA 2012 4500 H&B	2 Years	7.4	N/A	pH units	6.5-9.5	none	no
26/04/2018	MW-2	GRO (C8-C12) **		2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-2	GRO (C4-C12) **		2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-2	MTBE**		2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-2	Benzene**		2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-2	Toluene**		2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-2	Ethylbenzene**		2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-2	p/m Xylene**		2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-2	o -Xylene **		2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-2	>C5-C6 Aliphatic**	C5-8 fractions by headspace GC-FID (0365)	2 Years	<10	N/A	µg/l		< 10	no

Groundwater/Soil monitoring template				Lic No:	P0050-02	Year	2018		
26/04/2018	MW-2	>C6-C8 Aliphatic**	C5-8 fractions by headspace GC-FID (036S)	2 Years	<10	N/A	µg/l	< 10	no
26/04/2018	MW-2	>C8-C10 Aliphatic**	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (005S)	2 Years	<10	N/A	µg/l	< 10	no
26/04/2018	MW-2	>C10-C12 Aliphatic**	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (005S)	2 Years	<10	N/A	µg/l	< 10	no
26/04/2018	MW-2	>C12-C16 Aliphatic**	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (005S)	2 Years	<10	N/A	µg/l	< 10	no

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Groundwater/Soil monitoring template				Lic No:	P0050-02	Year	2018		
26/04/2018	MW-2	>C16-C21 Aliphatic**	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (0055)	2 Years	<10	N/A	µg/l	< 10	no
26/04/2018	MW-2	>C21-C35 Aliphatic**	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (0055)	2 Years	<10	N/A	µg/l	< 10	no
26/04/2018	MW-2	Total Aliphatics C12-C35**	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (0055)	2 Years	<10	N/A	µg/l	< 10	no
26/04/2018	MW-2	>C5-C7 Aromatic**	C5-8 fractions by	2 Years	<10	N/A	µg/l	< 10	no
26/04/2018	MW-2	>C7-C8 Aromatic**	C5-8 fractions by	2 Years	<10	N/A	µg/l	< 10	no
26/04/2018	MW-2	>C8-C10 Aromatic**	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (0055)	2 Years	<10	N/A	µg/l	< 10	no

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Groundwater/Soil monitoring template				Lic No:	P0050-02	Year	2018		
26/04/2018	MW-2	>C10-C12 Aromatic**	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (0055)	2 Years	<10	N/A	µg/l	< 10	no
26/04/2018	MW-2	>C12-C16 Aromatic**	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (0055)	2 Years	<10	N/A	µg/l	< 10	no
26/04/2018	MW-2	>C16-C21 Aromatic**	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (0055)	2 Years	<10	N/A	µg/l	< 10	no
26/04/2018	MW-2	>C21-C35 Aromatic**	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (0055)	2 Years	<10	N/A	µg/l	< 10	no

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Groundwater/Soil monitoring template				Lic No:	P0050-02	Year	2018		
26/04/2018	MW-2	<b>Total Aromatics C12-C35**</b>	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (0055)	2 Years	<10	N/A	µg/l	< 10	no
26/04/2018	MW-2	<b>Total Aliphatics &amp; Aromatics C5-35**</b>	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (0055)	2 Years	<10	N/A	µg/l	none	no
26/04/2018	MW-2	<b>Total Aliphatics C5 -C12 **</b>	C5-8 fractions by	2 Years	<10	N/A	µg/l	none	no
26/04/2018	MW-2	<b>Total Aromatics C5 - C12 **</b>	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (0055)	2 Years	<10	N/A	µg/l	none	no
26/04/2018	MW-2	<b>Dichlorodifluoromethane**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no
26/04/2018	MW-2	<b>Chloromethane**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no
26/04/2018	MW-2	<b>Vinyl chloride**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no
26/04/2018	MW-2	<b>Bromomethane**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no

Groundwater/Soil monitoring template			Lic No:		P0050-02		Year		2018	
26/04/2018	MW-2	Chloroethane**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-2	Trichlorofluoromethane**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-2	1,1-Dichloroethene**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-2	Dichloromethane**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	-	none	no
26/04/2018	MW-2	trans-1,2-Dichloroethene**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-2	1,1-Dichloroethane**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-2	2,2-Dichloropropane**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-2	cis-1,2-Dichloroethene**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-2	Bromochloromethane**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-2	Chloroform**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-2	1,1,1-Trichloroethane**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-2	Carbon Tetrachloride**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-2	1,1-Dichloropropene**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-2	1,2-Dichloroethane**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-2	Trichloroethene**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-2	1,2-Dichloropropane**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no

Groundwater/Soil monitoring template			Lic No:		P0050-02		Year		2018	
26/04/2018	MW-2	<b>Dibromomethane**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-2	<b>Bromodichloromethane**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-2	<b>1,1,2-Trichloroethane**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-2	<b>1,2-Dibromoethane**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-2	<b>1,1,1,2-Tetrachloroethane**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-2	<b>m,p-Xylene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-2	<b>Styrene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-2	<b>Isopropylbenzene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-2	<b>n-propylbenzene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-2	<b>2-Chlorotoluene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-2	<b>4-Chlorotoluene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-2	<b>1,2,4-Trimethylbenzene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-2	<b>4-Isopropyltoluene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-2	<b>1,4-Dichlorobenzene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-2	<b>1,2-Dichlorobenzene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-2	<b>Naphthalene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no

Groundwater/Soil monitoring template			Lic No:		P0050-02		Year		2018	
26/04/2018	MW-2	<b>1,3-Dichloropropane**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-2	<b>cis-1,3-Dichloropropene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-2	<b>trans-1,3-Dichloropropene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-2	<b>Dibromochloromethane**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-2	<b>Chlorobenzene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-2	<b>Ethyl Benzene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-2	<b>o-Xylene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-2	<b>Bromoform**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-2	<b>1,2,3-Trichloropropane**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-2	<b>Bromobenzene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-2	<b>Tert-Butylbenzene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-2	<b>Sec-Butylbenzene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-2	<b>1,3,5-Trimethylbenzene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-2	<b>1,2- Dibromo-3-chloropropane**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-2	<b>Hexachlorobutadiene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-2	<b>1,2,3-Trichlorobenzene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no

Groundwater/Soil monitoring template			Lic No:	P0050-02	Year	2018			
26/04/2018	MW-2	<b>1,3-Dichlorobenzene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no
26/04/2018	MW-2	<b>Tetrachloroethene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no
26/04/2018	MW-2	<b>n-butylbenzene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no
26/04/2018	MW-2	<b>1,2,4-Trichlorobenzene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no
26/04/2018	MW-2	<b>Methanol</b>	Based on ASTM Method D3695 (G/14)	2 Years	<10	N/A	mg/l	-	none
26/04/2018	MW-2	<b>Acetonitrile</b>	Based on ASTM Method D3695 (G/14)	2 Years	<10	N/A	mg/l	-	none
26/04/2018	MW-2	<b>Ethanol</b>	Based on ASTM Method D3695 (G/14)	2 Years	<10	N/A	mg/l	-	none
26/04/2018	MW-2	<b>Acetone</b>	Based on ASTM Method D3695 (G/14)	2 Years	<10	N/A	mg/l	-	none
26/04/2018	MW-2	<b>Isopropanol</b>	Based on ASTM Method D3695 (G/14)	2 Years	<10	N/A	mg/l	-	none
26/04/2018	MW-2	<b>GRO C4-C8 **</b>	C5-8 fractions by	2 Years	<10	N/A	µg/l	none	no
26/04/2018	MW-5	<b>Total Alkalinity</b>	G/20: Based on APHA, 2012, 22nd edition, method 2320D	2 Years	63	N/A	mg/L CaCO3	-	none
26/04/2018	MW-5	<b>COD</b>	Based on APHA, 2012, 22nd edition, 5220D, Closed reflux, colourimetric method (G/03)	2 Years	<10	N/A	mg/l O2	-	none

Groundwater/Soil monitoring template				Lic No:	P0050-02	Year	2018			
26/04/2018	MW-5	Chloride	G/67 Konelab based on APHA, 2012, 22nd edition, Ortho-P method 4500-PE Ascorbic acid, Nitrate/Nitrite/TON-method 4500-NO2B Colourimetric method, Chloride-method 4500Cl-E Ferricyanide Method	2 Years	29	N/A	mg/l	24-187.5	none	no
26/04/2018	MW-5	N02-N	G/67 Konelab based on APHA, 2012, 22nd edition, Ortho-P method 4500-PE Ascorbic acid, Nitrate/Nitrite/TON-method 4500-NO2B Colourimetric method, Chloride-method 4500Cl-E Ferricyanide Method	2 Years	0.05	N/A	mg/l		none	no

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Groundwater/Soil monitoring template				Lic No:	P0050-02	Year	2018			
26/04/2018	MW-5	<b>N03-N</b>	G/67 Konelab based on APHA, 2012, 22nd edition, Ortho-P method 4500-PE Ascorbic acid, Nitrate/Nitrite/TON-method 4500-NO2B Colourimetric method, Chloride-method 4500Cl-E Ferricyanide Method	2 Years	0.05	N/A	mg/l	8.47	none	no
26/04/2018	MW-5	<b>PO4-P</b>	G/67 Konelab based on APHA, 2012, 22nd edition, Ortho-P method 4500-PE Ascorbic acid, Nitrate/Nitrite/TON-method 4500-NO2B Colourimetric method, Chloride-method 4500Cl-E Ferricyanide Method	2 Years	0.39	N/A	mg/l		5	no
26/04/2018	MW-5	<b>Beryllium (diss)</b>	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<0.1	N/A	µg/l	-	none	no
26/04/2018	MW-5	<b>Aluminium (diss)</b>	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<10	N/A	µg/l	150	none	no
26/04/2018	MW-5	<b>Chromium (diss)</b>	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<1	N/A	µg/l	37.5	none	no
26/04/2018	MW-5	<b>Manganese (diss)</b>	G/57 ICP-MS Based on EPA Method 200.8	2 Years	53.3	N/A	µg/l		50	no

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Groundwater/Soil monitoring template				Lic No:	P0050-02	Year	2018			
26/04/2018	MW-5	<b>Cobalt (diss)</b>	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<0.5	N/A	µg/l	-	none	no
26/04/2018	MW-5	<b>Nickel (diss)</b>	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<0.4	N/A	µg/l	15	none	no
26/04/2018	MW-5	<b>Copper (diss)</b>	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<0.3	N/A	µg/l	1500	none	no
26/04/2018	MW-5	<b>Zinc (diss)</b>	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<1	N/A	µg/l		100	no
26/04/2018	MW-5	<b>Arsenic (diss)</b>	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<0.5	N/A	µg/l	7.5	none	no
26/04/2018	MW-5	<b>Selenium (diss)</b>	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<1	N/A	µg/l	-	none	no
26/04/2018	MW-5	<b>Silver (diss)</b>	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<0.5	N/A	µg/l	-	none	no
26/04/2018	MW-5	<b>Cadmium (diss)</b>	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<0.08	N/A	µg/l	3.75	none	no
26/04/2018	MW-5	<b>Tin (diss)</b>	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<1	N/A	µg/l	-	none	no
26/04/2018	MW-5	<b>Antimony (diss)</b>	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<1	N/A	µg/l	-	none	no
26/04/2018	MW-5	<b>Barium (diss)</b>	G/57 ICP-MS Based on EPA Method 200.8	2 Years	14.5	N/A	µg/l		100	no
26/04/2018	MW-5	<b>Lead (diss)</b>	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<0.2	N/A	µg/l	18.75	none	no
26/04/2018	MW-5	<b>Sodium (diss)</b>	G/57 ICP-MS Based on EPA Method 200.8	2 Years	16.2	N/A	mg/l	150	none	no
26/04/2018	MW-5	<b>Magnesium (diss)</b>	G/57 ICP-MS Based on EPA Method 200.8	2 Years	7.08	N/A	mg/l		50	no
26/04/2018	MW-5	<b>Potassium (diss)</b>	G/57 ICP-MS Based on EPA Method 200.8	2 Years	0.39	N/A	mg/l		5	no
26/04/2018	MW-5	<b>Calcium (diss)</b>	G/57 ICP-MS Based on EPA Method 200.8	2 Years	60.8	N/A	mg/l		200	no

Groundwater/Soil monitoring template			Lic No:	P0050-02	Year	2018				
26/04/2018	MW-5	Iron (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<0.02	N/A	mg/l	0.2	none	no
26/04/2018	MW-5	Mercury (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<0.01	N/A	µg/l	0.75	none	no
26/04/2018	MW-5	pH	G/05 based on APHA 2012 4500 H&B	2 Years	7.9	N/A	pH units	6.5-9.5	none	no
26/04/2018	MW-5	GRO (C8-C12) **		2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-5	GRO (C4-C12) **		2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-5	MTBE**		2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-5	Benzene**		2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-5	Toluene**		2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-5	Ethylbenzene**		2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-5	p/m Xylene**		2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-5	o -Xylene **		2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-5	>C5-C6 Aliphatic**	C5-8 fractions by headspace GC-FID (036S)	2 Years	<10	N/A	µg/l		< 10	no
26/04/2018	MW-5	>C6-C8 Aliphatic**	C5-8 fractions by headspace GC-FID (036S)	2 Years	<10	N/A	µg/l		< 10	no
26/04/2018	MW-5	>C8-C10 Aliphatic**	C8-35 fractions on a received sample extracted with hexane/aceton e, aliphatic/arom atic splits run by GC-FID (005S)	2 Years	<10	N/A	µg/l		< 10	no
26/04/2018	MW-5	>C10-C12 Aliphatic**	C8-35 fractions on a received sample extracted with hexane/aceton e, aliphatic/arom atic splits run by GC-FID (005S)	2 Years	<10	N/A	µg/l		< 10	no

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Groundwater/Soil monitoring template				Lic No:	P0050-02	Year	2018		
26/04/2018	MW-5	>C12-C16 Aliphatic**	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (0055)	2 Years	<10	N/A	µg/l	< 10	no
26/04/2018	MW-5	>C16-C21 Aliphatic**	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (0055)	2 Years	<10	N/A	µg/l	< 10	no
26/04/2018	MW-5	>C21-C35 Aliphatic**	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (0055)	2 Years	<10	N/A	µg/l	< 10	no
26/04/2018	MW-5	Total Aliphatics C12-C35**	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (0055)	2 Years	<10	N/A	µg/l	< 10	no
26/04/2018	MW-5	>C5-C7 Aromatic**	C5-8 fractions by	2 Years	<10	N/A	µg/l	< 10	no
26/04/2018	MW-5	>C7-C8 Aromatic**	C5-8 fractions by	2 Years	<10	N/A	µg/l	< 10	no

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Groundwater/Soil monitoring template				Lic No:	P0050-02	Year	2018		
26/04/2018	MW-5	>C8-C10 Aromatic**	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (0055)	2 Years	<10	N/A	µg/l	< 10	no
26/04/2018	MW-5	>C10-C12 Aromatic**	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (0055)	2 Years	<10	N/A	µg/l	< 10	no
26/04/2018	MW-5	>C12-C16 Aromatic**	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (0055)	2 Years	<10	N/A	µg/l	< 10	no
26/04/2018	MW-5	>C16-C21 Aromatic**	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (0055)	2 Years	<10	N/A	µg/l	< 10	no

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Groundwater/Soil monitoring template				Lic No:	P0050-02	Year	2018		
26/04/2018	MW-5	>C21-C35 Aromatic**	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (0055)	2 Years	<10	N/A	µg/l	< 10	no
26/04/2018	MW-5	Total Aromatics C12-C35**	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (0055)	2 Years	<10	N/A	µg/l	< 10	no
26/04/2018	MW-5	Total Aliphatics & Aromatics C5-35**	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (0055)	2 Years	<10	N/A	µg/l	none	no
26/04/2018	MW-5	Total Aliphatics C5 -C12 **	C5-8 fractions by	2 Years	<10	N/A	µg/l	none	no
26/04/2018	MW-5	Total Aromatics C5 - C12 **	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (0055)	2 Years	<10	N/A	µg/l	none	no

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Groundwater/Soil monitoring template			Lic No:		P0050-02		Year		2018	
26/04/2018	MW-5	Dichlorodifluoromethane**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-5	Chloromethane**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-5	Vinyl chloride**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-5	Bromomethane**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-5	Chloroethane**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-5	Trichlorofluoromethane**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-5	1,1-Dichloroethene**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-5	Dichloromethane**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-5	trans-1,2-Dichloroethene**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-5	1,1-Dichloroethane**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-5	2,2-Dichloropropane**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-5	cis-1,2-Dichloroethene**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-5	Bromochloromethane**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-5	Chloroform**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-5	1,1,1-Trichloroethane**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-5	Carbon Tetrachloride**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no

Groundwater/Soil monitoring template			Lic No:		P0050-02		Year		2018	
26/04/2018	MW-5	1,1-Dichloropropene**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-5	1,2-Dichloroethane**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-5	Trichloroethene**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-5	1,2-Dichloropropane**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-5	Dibromomethane**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-5	Bromodichloromethane**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-5	1,1,2-Trichloroethane**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-5	1,2-Dibromoethane**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-5	1,1,1,2-Tetrachloroethane**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-5	m,p-Xylene**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-5	Styrene**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-5	Isopropylbenzene**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-5	n-propylbenzene**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-5	2-Chlorotoluene**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-5	4-Chlorotoluene**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-5	1,2,4-Trimethylbenzene**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no

Groundwater/Soil monitoring template			Lic No:		P0050-02		Year		2018	
26/04/2018	MW-5	<b>4-Isopropyltoluene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-5	<b>1,4-Dichlorobenzene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-5	<b>1,2-Dichlorobenzene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-5	<b>Naphthalene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-5	<b>1,3-Dichloropropane**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-5	<b>cis-1,3-Dichloropropene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-5	<b>trans-1,3-Dichloropropene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-5	<b>Dibromochloromethane**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-5	<b>Chlorobenzene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-5	<b>Ethyl Benzene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-5	<b>o-Xylene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-5	<b>Bromoform**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-5	<b>1,2,3-Trichloropropane**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-5	<b>Bromobenzene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-5	<b>Tert-Butylbenzene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-5	<b>Sec-Butylbenzene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no

Groundwater/Soil monitoring template				Lic No:	P0050-02	Year	2018			
26/04/2018	MW-5	1,3,5-Trimethylbenzene**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no	
26/04/2018	MW-5	1,2- Dibromo-3-chloropropane**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no	
26/04/2018	MW-5	Hexachlorobutadiene**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no	
26/04/2018	MW-5	1,2,3-Trichlorobenzene**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no	
26/04/2018	MW-5	1,3-Dichlorobenzene**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no	
26/04/2018	MW-5	Tetrachloroethene**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no	
26/04/2018	MW-5	n-butylbenzene**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no	
26/04/2018	MW-5	1,2,4-Trichlorobenzene**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no	
26/04/2018	MW-5	Methanol	Based on ASTM Method D3695 (G/14)	2 Years	<10	N/A	mg/l	-	none	no
26/04/2018	MW-5	Acetonitrile	Based on ASTM Method D3695 (G/14)	2 Years	<10	N/A	mg/l	-	none	no
26/04/2018	MW-5	Ethanol	Based on ASTM Method D3695 (G/14)	2 Years	<10	N/A	mg/l	-	none	no
26/04/2018	MW-5	Acetone	Based on ASTM Method D3695 (G/14)	2 Years	<10	N/A	mg/l	-	none	no
26/04/2018	MW-5	Isopropanol	Based on ASTM Method D3695 (G/14)	2 Years	<10	N/A	mg/l	-	none	no
26/04/2018	MW-5	GRO C4-C8 **	C5-8 fractions by	2 Years	<10	N/A	µg/l	none	no	

Groundwater/Soil monitoring template				Lic No:	P0050-02	Year	2018			
26/04/2018	MW-6	<b>Total Alkalinity</b>	G/20: Based on APHA, 2012, 22nd edition, method 2320D	2 Years	298	N/A	mg/L CaCO3	-	none	no
26/04/2018	MW-6	<b>COD</b>	Based on APHA, 2012, 22nd edition, 5220D, Closed reflux, colourimetric method (G/03)	2 Years	<10	N/A	mg/l O2	-	none	no
26/04/2018	MW-6	<b>Chloride</b>	G/67 Konelab based on APHA, 2012, 22nd edition, Ortho-P method 4500-PE Ascorbic acid, Nitrate/Nitrite/TON-method 4500-NO2B Colourimetric method, Chloride-method 4500Cl-E Ferricyanide Method	2 Years	16	N/A	mg/l	24-187.5	none	no

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Groundwater/Soil monitoring template				Lic No:	P0050-02	Year	2018			
26/04/2018	MW-6	N02-N	G/67 Konelab based on APHA, 2012, 22nd edition, Ortho-P method 4500-PE Ascorbic acid, Nitrate/Nitrite/TON-method 4500-NO2B Colourimetric method, Chloride-method 4500Cl-E Ferricyanide Method	2 Years	0.09	N/A	mg/l	none	no	
26/04/2018	MW-6	N03-N	G/67 Konelab based on APHA, 2012, 22nd edition, Ortho-P method 4500-PE Ascorbic acid, Nitrate/Nitrite/TON-method 4500-NO2B Colourimetric method, Chloride-method 4500Cl-E Ferricyanide Method	2 Years	0.09	N/A	mg/l	8.47	none	no

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Groundwater/Soil monitoring template				Lic No:	P0050-02	Year	2018			
26/04/2018	MW-6	PO4-P	G/67 Konelab based on APHA, 2012, 22nd edition, Ortho-P method 4500-PE Ascorbic acid, Nitrate/Nitrite/TON-method 4500-NO2B Colourimetric method, Chloride-method 4500Cl-E Ferricyanide Method	2 Years	1.5	N/A	mg/l	5	no	
26/04/2018	MW-6	Berylium (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<0.1	N/A	µg/l	-	none	no
26/04/2018	MW-6	Aluminium (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<10	N/A	µg/l	150	none	no
26/04/2018	MW-6	Chromium (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<1	N/A	µg/l	37.5	none	no
26/04/2018	MW-6	Manganese (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	1870	N/A	µg/l	50	none	no
26/04/2018	MW-6	Cobalt (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<0.5	N/A	µg/l	-	none	no
26/04/2018	MW-6	Nickel (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	1.52	N/A	µg/l	15	none	no
26/04/2018	MW-6	Copper (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<0.3	N/A	µg/l	1500	none	no
26/04/2018	MW-6	Zinc (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	4.36	N/A	µg/l	100	none	no
26/04/2018	MW-6	Arsenic (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<0.5	N/A	µg/l	7.5	none	no
26/04/2018	MW-6	Selenium (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<1	N/A	µg/l	-	none	no

Groundwater/Soil monitoring template				Lic No:	P0050-02	Year	2018			
26/04/2018	MW-6	Silver (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<0.5	N/A	µg/l	-	none	no
26/04/2018	MW-6	Cadmium (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<0.08	N/A	µg/l	3.75	none	no
26/04/2018	MW-6	Tin (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<1	N/A	µg/l	-	none	no
26/04/2018	MW-6	Antimony (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<1	N/A	µg/l	-	none	no
26/04/2018	MW-6	Barium (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	88.5	N/A	µg/l	100		no
26/04/2018	MW-6	Lead (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<0.2	N/A	µg/l	18.75	none	no
26/04/2018	MW-6	Sodium (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	20.9	N/A	mg/l	150	none	no
26/04/2018	MW-6	Magnesium (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	24	N/A	mg/l	50		no
26/04/2018	MW-6	Potassium (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	1.5	N/A	mg/l	5		no
26/04/2018	MW-6	Calcium (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	225	N/A	mg/l	200		no
26/04/2018	MW-6	Iron (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<0.02	N/A	mg/l	0.2	none	no
26/04/2018	MW-6	Mercury (diss)	G/57 ICP-MS Based on EPA Method 200.8	2 Years	<0.01	N/A	µg/l	0.75	none	no
26/04/2018	MW-6	pH	G/05 based on APHA 2012 4500 H&B	2 Years	7.4	N/A	pH units	6.5-9.5	none	no
26/04/2018	MW-6	GRO (C8-C12) **		2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-6	GRO (C4-C12) **		2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-6	MTBE**		2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-6	Benzene**		2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-6	Toluene**		2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-6	Ethylbenzene**		2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-6	p/m Xylene**		2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-6	o -Xylene **		2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-6	>C5-C6 Aliphatic**	C5-8 fractions by headspace GC-FID (0365)	2 Years	<10	N/A	µg/l		< 10	no

Groundwater/Soil monitoring template				Lic No:	P0050-02	Year	2018		
26/04/2018	MW-6	>C6-C8 Aliphatic**	C5-8 fractions by headspace GC-FID (036S)	2 Years	<10	N/A	µg/l	< 10	no
26/04/2018	MW-6	>C8-C10 Aliphatic**	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (005S)	2 Years	<10	N/A	µg/l	< 10	no
26/04/2018	MW-6	>C10-C12 Aliphatic**	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (005S)	2 Years	<10	N/A	µg/l	< 10	no
26/04/2018	MW-6	>C12-C16 Aliphatic**	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (005S)	2 Years	<10	N/A	µg/l	< 10	no

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Groundwater/Soil monitoring template				Lic No:	P0050-02	Year	2018		
26/04/2018	MW-6	>C16-C21 Aliphatic**	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (0055)	2 Years	<10	N/A	µg/l	< 10	no
26/04/2018	MW-6	>C21-C35 Aliphatic**	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (0055)	2 Years	<10	N/A	µg/l	< 10	no
26/04/2018	MW-6	Total Aliphatics C12-C35**	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (0055)	2 Years	<10	N/A	µg/l	< 10	no
26/04/2018	MW-6	>C5-C7 Aromatic**	C5-8 fractions by	2 Years	<10	N/A	µg/l	< 10	no
26/04/2018	MW-6	>C7-C8 Aromatic**	C5-8 fractions by	2 Years	<10	N/A	µg/l	< 10	no
26/04/2018	MW-6	>C8-C10 Aromatic**	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (0055)	2 Years	<10	N/A	µg/l	< 10	no

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Groundwater/Soil monitoring template				Lic No:	P0050-02	Year	2018		
26/04/2018	MW-6	>C10-C12 Aromatic**	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (0055)	2 Years	<10	N/A	µg/l	< 10	no
26/04/2018	MW-6	>C12-C16 Aromatic**	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (0055)	2 Years	<10	N/A	µg/l	< 10	no
26/04/2018	MW-6	>C16-C21 Aromatic**	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (0055)	2 Years	<10	N/A	µg/l	< 10	no
26/04/2018	MW-6	>C21-C35 Aromatic**	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (0055)	2 Years	<10	N/A	µg/l	< 10	no

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Groundwater/Soil monitoring template				Lic No:	P0050-02	Year	2018		
26/04/2018	MW-6	<b>Total Aromatics C12-C35**</b>	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (0055)	2 Years	<10	N/A	µg/l	< 10	no
26/04/2018	MW-6	<b>Total Aliphatics &amp; Aromatics C5-35**</b>	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (0055)	2 Years	<10	N/A	µg/l	none	no
26/04/2018	MW-6	<b>Total Aliphatics C5 -C12 **</b>	C5-8 fractions by	2 Years	<10	N/A	µg/l	none	no
26/04/2018	MW-6	<b>Total Aromatics C5 - C12 **</b>	C8-35 fractions on a received sample extracted with hexane/acetone, aliphatic/aromatic splits run by GC-FID (0055)	2 Years	<10	N/A	µg/l	none	no
26/04/2018	MW-6	<b>Dichlorodifluoromethane**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no
26/04/2018	MW-6	<b>Chloromethane**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no
26/04/2018	MW-6	<b>Vinyl chloride**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no
26/04/2018	MW-6	<b>Bromomethane**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no

Groundwater/Soil monitoring template			Lic No:		P0050-02		Year		2018	
26/04/2018	MW-6	Chloroethane**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-6	Trichlorofluoromethane**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-6	1,1-Dichloroethene**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-6	Dichloromethane**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-6	trans-1,2-Dichloroethene**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-6	1,1-Dichloroethane**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-6	2,2-Dichloropropane**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-6	cis-1,2-Dichloroethene**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-6	Bromochloromethane**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-6	Chloroform**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-6	1,1,1-Trichloroethane**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-6	Carbon Tetrachloride**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-6	1,1-Dichloropropene**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-6	1,2-Dichloroethane**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-6	Trichloroethene**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-6	1,2-Dichloropropane**	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no

Groundwater/Soil monitoring template			Lic No:		P0050-02		Year		2018	
26/04/2018	MW-6	<b>Dibromomethane**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-6	<b>Bromodichloromethane**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-6	<b>1,1,2-Trichloroethane**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-6	<b>1,2-Dibromoethane**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-6	<b>1,1,1,2-Tetrachloroethane**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-6	<b>m,p-Xylene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-6	<b>Styrene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-6	<b>Isopropylbenzene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-6	<b>n-propylbenzene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-6	<b>2-Chlorotoluene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-6	<b>4-Chlorotoluene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-6	<b>1,2,4-Trimethylbenzene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-6	<b>4-Isopropyltoluene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-6	<b>1,4-Dichlorobenzene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-6	<b>1,2-Dichlorobenzene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-6	<b>Naphthalene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no

Groundwater/Soil monitoring template			Lic No:		P0050-02		Year		2018	
26/04/2018	MW-6	<b>1,3-Dichloropropane**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-6	<b>cis-1,3-Dichloropropene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-6	<b>trans-1,3-Dichloropropene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-6	<b>Dibromochloromethane**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-6	<b>Chlorobenzene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-6	<b>Ethyl Benzene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-6	<b>o-Xylene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-6	<b>Bromoform**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-6	<b>1,2,3-Trichloropropane**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-6	<b>Bromobenzene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-6	<b>Tert-Butylbenzene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-6	<b>Sec-Butylbenzene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-6	<b>1,3,5-Trimethylbenzene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-6	<b>1,2- Dibromo-3-chloropropane**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-6	<b>Hexachlorobutadiene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no
26/04/2018	MW-6	<b>1,2,3-Trichlorobenzene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l		none	no

Groundwater/Soil monitoring template				Lic No:	P0050-02	Year	2018			
26/04/2018	MW-6	<b>1,3-Dichlorobenzene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no	
26/04/2018	MW-6	<b>Tetrachloroethene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no	
26/04/2018	MW-6	<b>n-butylbenzene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no	
26/04/2018	MW-6	<b>1,2,4-Trichlorobenzene**</b>	GC-MS Based on USEPA 524.2 method	2 Years	<10	N/A	µg/l	none	no	
26/04/2018	MW-6	<b>Methanol</b>	Based on ASTM Method D3695 (G/14)	2 Years	<10	N/A	mg/l	-	none	no
26/04/2018	MW-6	<b>Acetonitrile</b>	Based on ASTM Method D3695 (G/14)	2 Years	<10	N/A	mg/l	-	none	no
26/04/2018	MW-6	<b>Ethanol</b>	Based on ASTM Method D3695 (G/14)	2 Years	<10	N/A	mg/l	-	none	no
26/04/2018	MW-6	<b>Acetone</b>	Based on ASTM Method D3695 (G/14)	2 Years	<10	N/A	mg/l	-	none	no
26/04/2018	MW-6	<b>Isopropanol</b>	Based on ASTM Method D3695 (G/14)	2 Years	<10	N/A	mg/l	-	none	no
26/04/2018	MW-6	<b>GRO C4-C8 **</b>	C5-8 fractions by	2 Years	<10	N/A	µg/l	none	no	
<p>*please note exceedance of generic assessment criteria (GAC) such as a Groundwater Threshold Value (GTV) or an Interim Guideline Value (IGV) or an upward trend in results for a substance indicates that further interpretation of monitoring results is required. In addition to completing the above table, please complete the Groundwater Monitoring Guideline Template Report at the link provided and submit separately through ALDER as a licensee return or as otherwise instructed by the EPA.</p>								<a href="#">Groundwater monitoring template</a>		
<p>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)</p>								<a href="#">Guidance on the Management of Contaminated Land and Groundwater at EPA Licensed Sites (EPA 2013).</a>		
<p>**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)</p>								<a href="#">Groundwater</a> <a href="#">Drinking water</a> <a href="#">Surface</a> <a href="#">regulations</a> <a href="#">(private supply)</a> <a href="#">water EQS</a> <a href="#">GTV's</a> <a href="#">standards</a>		

## Groundwater/Soil monitoring template

Lic No: P0050-02

Year

2018

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

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<b>Environmental Liabilities template</b>	Lic No:	P0050-02	Year	2018
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[Click here to access EPA guidance on Environmental Liabilities and Financial provision](#)

		Commentary
1	ELRA initial agreement status	Submitted and agreed by EPA
2	ELRA review status	Review required and completed
3	Amount of Financial Provision cover required as determined by the latest ELRA	€2,808,316
4	Financial Provision for ELRA status	Submitted and agreed by EPA
5	Financial Provision for ELRA - amount of cover	€4,742,515
6	Financial Provision for ELRA - type	bond
7	Financial provision for ELRA expiry date	13/06/2019
8	Closure plan initial agreement status	Closure plan submitted and agreed by EPA
9	Closure plan review status	Review required and completed
10	Financial Provision for Closure status	Submitted and agreed by EPA
11	Financial Provision for Closure - amount of cover	€1,934,199
12	Financial Provision for Closure - type	bond
13	Financial provision for Closure expiry date	13/06/2019

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Environmental Management Programme/Continuous Improvement Programme template		Lic No:	P0050-02	Year	2018
Highlighted cells contain dropdown menu click to view					
1	Do you maintain an Environmental Management System (EMS) for the site. If yes, please detail in additional information	Yes	Additional Information Our EMS went through a successful surveillance audit by Certification Europe in June 2017 to bring the EMS in line with ISO 14001: 2015. All SOP's, Manuals, forms etc have been updated in line with the new standard.		
2	Does the EMS reference the most significant environmental aspects and associated impacts on-site	Yes	All plant changes which occurred during the year of 2018 where assessed by EHS through the Change Control Procedure to ascertain if changes would have any impact on the environmental aspects and impacts register and the register updated accordingly. An annual review of the aspects and impacts register was completed.		
3	Does the EMS maintain an Environmental Management Programme (EMP) as required in accordance with the licence requirements	Yes	Yes :We have on site a five year plan as detailed below as per conditions of our licence but we also compile annual objectives for EHS to include Environmental, Health and Safety, Corporate, CSR and Sustainability Objectives for the year.		
4	Do you maintain an environmental documentation/communication system to inform the public on environmental performance of the facility, as required by the licence	Yes	We have in place an SOP 10000172 Public access to Environmental Performance information which sets out how the public can access environmental documentation		

Environmental Management Programme (EMP) report					
Objective Category	Target	Status (% completed)	How target was progressed	Responsibility	Intermediate outcomes
Reduction of emissions to Air	Investigate the possibility of Green Technology use on site e.g. Electric Charge Points, Solar Power, Alternative fuels, CHP etc. 2016 & 2017 – Identify and Assess, 2018 & 2019 – Project Approval, Capex and Scope, 2020 – Installation of one	15%	Initial Contact with a company to install an electric car charger on-site. Rough price estimate received for same which doesn't include cost of cabling or civils. Contact made with SEAI re grants etc	Individual	Improved Environmental Management Practices

Environmental Management Programme/Continuous Improvement Programme template				Lic No:	P0050-02	Year	2018
Reduction of emissions to Air	Maintain CO <sub>2</sub> emission allowances as per 2015 baseline of 7812 tonnes of CO <sub>2</sub> per 596 Kgs of Ioversol of production in 2015 by 100% in 2016	19% increase	Production has increased by 8.5% in 2017, which has resulted in efficiencies in the process. CO <sub>2</sub> mass per kg of product produced has decreased. 2017 = 12.18 Tonnes CO <sub>2</sub> per 1,000 kgs Production = 762Kg Ioversol = 9282 Tonnes CO <sub>2</sub> 2016 = 12.69 Tonnes CO <sub>2</sub> per 1,000 kgs Production = 703Kg Ioversol = 8927 Tonnes CO <sub>2</sub>	Section Head	Reduced emissions		
Waste reduction/Raw material usage efficiency	To increase the recycling and recovery of all waste rate to 77% in 2016	58% of all waste recycled in 2017	The recycling and recovery rate increased on site in 2017. Waste week was held on site which included a waste Quiz, talks on incineration and hazardous wastes, workshops on binning the correct wastes into correct bins.	Section Head	Improved Environmental Management Practices		
Reduction of emissions to Wastewater	Reduce the civic water usage on-site from 2016 figures of 375,676m <sup>3</sup> of water used based on 702 kgs of Ioversol produced (0.53 m <sup>3</sup> /kg) by 2%	3.77% reduction achieved	Reduce the civic water usage on-site from 2016 figures of 375,676m <sup>3</sup> of water used based on 702kgs of Ioversol produced (0.61 m <sup>3</sup> /kg) 2017 = 385,313m <sup>3</sup> water used per 762kg Ioversol = 0.51 m <sup>3</sup> /kg Reduced by 0.02 m <sup>3</sup> /kg = 3.77% reduction 2016 = 375,676 m <sup>3</sup> water used per 703kg Ioversol = 0.53 m <sup>3</sup> /kg 2015 = 362,185 m <sup>3</sup> water used per 596kg Ioversol = 0.61 m <sup>3</sup> /kg Reduced by 0.08 m <sup>3</sup> /kg = 13.1% reduction	Section Head	Improved Environmental Management Practices		

Environmental Management Programme/Continuous Improvement Programme template				Lic No:	P0050-02	Year	2018
Energy Efficiency/Utility conservation	Investigate the potential options of alternative energy resources Solar, CHP, Wind, heat recovery, rainwater harvesting, steam utilisation, use on site including the evaluation of possible groundwater abstraction which could be used in Cooling Towers and Utilities Operations on site with installation on site by 2020	20%	Work commenced in 2016 on a water mapping project for the site completed end of quarter 1/beginning of quarter 2 2017. Actions are being followed up with our Energy Engineer.	Section Head	Reduced emissions		
Energy Efficiency/Utility conservation	Reduce the Electricity usage on-site from 2016 figures of 11,413,479 KWh of electricity based on 702 kgs of loversol produced (16.2 KWh Usage/ Kg) by 1% in 2016:	3.09% reduction achieved	Increased efficiencies achieved in 2017 = 11,961,482 KWh used per 762kg loversol = 15.7 KWh/kg 2016 = 11,413,479 KWh used per 703kg loversol = 16.2 KWh/kg Reduced by 0.5KWh/kg = 3.09%	Section Head	Reduced emissions		
Energy Efficiency/Utility conservation	Reduce the gas consumption on site from 2016 figures of 48,464,775 KWh of gas used based on 703 kgs of loversol produced (68.9KWh/ kg) by 1%:	14.2% reduction achieved	Increased efficiencies achieved on site for gas consumption. The aim was to reduce the gas consumption on site from 2016 figures of 48,464,775 KWh of gas used based on 703 kgs of loversol produced (68.9KWh/ kg) 2017 = 45,971,995 KWh used per 762kg loversol = 60.33 KWh/kg Reduced by 8.60 KWh/kg = 14.2% reduction.	Section Head	Reduced emissions		

Environmental Management Programme/Continuous Improvement Programme template				Lic No:	P0050-02	Year	2018
Energy Efficiency/Utility conservation	Develop a plan for an Energy Management System on site in line ISO50001	10%	2017 – Completed training for five personnel on site in relation to electrical management system and opportunities register developed. Energy projects now assessed by projects team on site. Please see Tab on Resource - Energy for individual projects with energy savings made on site	Section Head	Improved Environmental Management Practices		
Additonal Improvements	IEL Licence Training	100%	Completed IEL Licence Training for all staff on site which included critical elements of the Industrial Emissions Licence on site	Individual	Improved Environmental Management Practices		
Additonal Improvements	ISO14001: 2015	100%	Completed successful surveillance audit training on site to meet the requirements of environmental management system in line with ISO14001:2015	Individual	Improved Environmental Management Practices		
Additonal Improvements	BAT Review	100%	Completed a full BAT review against six relevant BREF documents for the site	Individual	Improved Environmental Management Practices		
Additonal Improvements	WWTP Upgrade	100%	Upgrade and maintenance of WWTP to benefit nitrification and decrease outlet concentrations of ammonia.	Individual	Improved Environmental Management Practices		
Additonal Improvements	Bunds and Sumps	100%	Review of all bunds and sumps completed. Repairs carried out, hydrostatic testing and independent assessments by a qualified person. Matrix up to date	Individual	Improved Environmental Management Practices		
Additonal Improvements	Energy Department	100%	New position as Energy Engineer created and filled in 2017 to develop energy efficiency throughout the plant.	Individual	Improved Environmental Management Practices		
Additonal Improvements	CCTV underground pipelines	100%	CCTV survey carried out all drains, repairs carried out and independently assessed. No further repairs required	Individual	Improved Environmental Management Practices		
Additonal Improvements	DMAC arm installed	100%	The DMAC Arm was installed in January 2017 to ensure environmentally safe loading of DMAC waste.	Individual	Improved Environmental Management Practices		

**Noise monitoring summary report** Lic No: P0050-02 Year 2018

1 Was noise monitoring a licence requirement for the AER period?

No

If yes please fill in table N1 noise summary below

2 Was noise monitoring carried out using the EPA Guidance note, including completion of the "Checklist for noise measurement report" included in the guidance note as table 6?

[Noise Guidance note NG4](#)

Yes

3 Does your site have a noise reduction plan

SELECT

4 When was the noise reduction plan last updated?

Enter date

5 Have there been changes relevant to site noise emissions (e.g. plant or operational changes) since the last noise survey?

SELECT

**Table N1: Noise monitoring summary**

Date of monitoring	Time period	Noise location (on site)	Noise sensitive location -NSL (if applicable)	LA <sub>eq</sub>	LA <sub>90</sub>	LA <sub>10</sub>	LA <sub>max</sub>	Tonal or Impulsive noise*(Y/N)	If tonal /impulsive noise was identified was 5dB penalty applied?	Comments (ex. main noise sources on site, & extraneous noise ex. road traffic)	Is site compliant with noise limits (day/evening/night)?
								SELECT	SELECT		SELECT

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

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

N/A

N/A

Any additional comments? 3 Yearly Periodic Environmental Noise Monitoring will be completed in 2019.

- 1 When did the site carry out the most recent energy efficiency audit? Please list the recommendations in table 3 below
- 2 Is the site a member of any accredited programmes for reducing energy usage/water conservation such as the SEAI programme linked to the right? If yes please list them in additional information
- 3 Where Fuel Oil is used in boilers on site is the sulphur content compliant with licence conditions? Please state percentage in additional information

Additional information	
01/09/2017	Guerbet Energy Engineer
Yes	Yes part of Water/Wastewater group
No	N/A - Both boilers are fueled from natural gas

Energy Use	Previous year	Current year	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*
Total Energy Used (MWHrs)	11952.2	10782.7	There was a 10% decrease in total production on-site in 2018 compared to 2017.	Electricity usage decreased by 2.8% in 2018 compared to 2017 based on electricity usage per kg of product produced
Total Energy Generated (MWHrs)	0	0	N/A	N/A
Total Renewable Energy Generated (MWHrs)	0	0	N/A	N/A
Electricity Consumption (MWHrs)	11952.2	10782.7	There was a 10% decrease in total production on-site in 2018 compared to 2017.	Electricity usage decreased by 2.8% in 2018 compared to 2017 based on electricity usage per kg of product produced.
Fossil Fuels Consumption:				
Heavy Fuel Oil (m3)	0	0	-	-
Light Fuel Oil (m3)	0.96	1.24	There was a 10% decrease in total production on-site in 2018 compared to 2017.	-
Natural gas (m3)	50184026	44682601	There was a 10% decrease in total production on-site in 2018 compared to 2017.	Natural Gas usage decreased by 5% in 2018 compared to 2017 based on natural gas usage per kg of product produced.

<b>Resource Usage/Energy efficiency summary</b>	Lic No: P0050-02	Year	2018
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Coal/Solid fuel (metric tonnes)	0	0	0	0
Peat (metric tonnes)	0	0	0	0
Renewable Biomass	0	0	0	0
Renewable energy generated on site	0	0	0	0

\* 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		
Water use	Water extracted Previous year m3/yr.	Water extracted Current year m3/yr.	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*	Volume Discharged back to environment(m <sup>3</sup> /yr):	Volume used i.e not discharged to environment e.g. released as steam m3/yr	Unaccounted for Water:
Groundwater	0	0	N/A	N/A	N/A	N/A	N/A
Surface water	0	0	N/A	N/A	N/A	N/A	N/A
Public supply	385,313 m3	345374	10% decrease	Increase of 0.68 m3 of water per kg of product produced	303,884	Water Mapping Project Commenced in 2016	Water Mapping Project findings reported and actions to be completed.
Recycled water	0	0	N/A	N/A	N/A	N/A	N/A
<b>Total</b>	<b>385,313 m3</b>	<b>345374</b>	<b>10% decrease</b>		<b>303,884</b>	<b>-</b>	<b>see above cell</b>

\* 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 Summary					
	Total	Landfill	Incineration	Recycled	Other
Hazardous (Tonnes)	106.85	8.3	98.46	0	0
Non-Hazardous (Tonnes)	114.26	5.02	0	114.26	0

<b>Resource Usage/Energy efficiency summary</b>	Lic No: P0050-02	Year 2018
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Date of audit	Recommendations	Description of Measures proposed	Origin of measures	Predicted energy savings %	Implementation date	Responsibility	Completion date	Status and comments
12/10/2017	HVAC systems	Only one unit	Electricity	18.5 kW reduction	08/12/2017	Energy Engineer	22/12/2017	Complete
10/12/2017	Cooling Towers - P918	Running P918 and	Electricity	75%	20/12/2017	Energy Engineer	22/12/2017	Complete
18/10/2017	Blowers set at high	Reduce settings on	Electricity	TBC	07/11/2017	Energy Engineer	07/11/2017	Complete

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

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**Complaints and Incidents summary template** Lic No: P0050-02 Year 2018

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

Date	Category	Other type (please specify)	Brief description of complaint (Free txt <20 words)	Corrective action < 20 words	Resolution status	Resolution date	Further information
	SELECT				SELECT		
	SELECT				SELECT		
	SELECT				SELECT		
	SELECT				SELECT		
	SELECT				SELECT		
Total complaints open at start of reporting year	N/A						
Total new complaints received during reporting year	N/A						
Total complaints closed during reporting year	N/A						
Balance of complaints end of reporting year	N/A						

Incidents Additional information

Have any incidents occurred on site in the current reporting year? Please list all incidents for current reporting year in Table 2 below

Yes

\*For information on how to report and what constitutes an incident [What is an incident](#)

Date of occurrence	Incident nature	Location of occurrence	Incident category*please refer to guidance	Receptor	Cause of incident	Other cause(please specify)	Activity in progress at time of incident	Communication	Occurrence	Corrective action<20 words	Preventative action <20 words	Resolution status	Resolution date	Likelihood of reoccurrence
28/02/2018	Monitoring equipment offline	Licensed discharge point (WWT-01)	1. Minor	No Uncontrolled release	Other	Extreme cold weather conditions prevented the monthly sample from being collected within the month period.	Other (Shutdown)	EPA	New	Lab sample stored and analysed externally when plant re-opened.	New procedures introduced to avoid sampling before poor weather is forecasted.	Complete	31/07/2018	Low
01/03/2018	Monitoring equipment offline	Licensed discharge point (WWT-01)	1. Minor	No Uncontrolled release	Other	Extreme cold weather conditions caused the TOC Analyser to freeze over.	Other (Shutdown)	EPA	New	TOC Analyser re-set after the plant re-opened.	The outlet of the TOC Analyser was insulated which prevents the analyser blocking up due to condensation freezing in extreme weather	Complete	30/04/2018	Low

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Complaints and Incidents summary template														
		Lic No:		P0050-02		Year		2018						
23/04/2018	Abatement equipment offline	Licensed discharge point (ABAS-02)	1. Minor	Air	Operational controls	Dilution of the scrubber solution due to a water leak into the scrubber	Normal activities	EPA	New	Stop the leak of water into the scrubber	Continue weekly scrubber solution sampling and review volume levels in the scrubber daily	Complete	09/05/2018	Low
04/05/2018	Abatement equipment offline	Licensed discharge point (ABAS-01)	1. Minor	Air	Plant or equipment issues	Failure of PLC Controller card on the abator	Normal activities	EPA	New	PLC Controller Card on the abator replaced	Periodic maintenance continued including inspections, catalyst bed change out.	Complete	29/05/2018	Low
04/06/2018	Uncontrolled release	Other location (WWTP Aeration Basin)	1. Minor	Ground	Operational controls	Overflow of foam from the aeration basin onto the ground in different parts around the Aeration Basin	Routine maintenance	EPA	New	Added anti-foaming agents to the basin and reduced the blower output.	Foam detection level indicators installed and visibility to control room.	Complete	06/03/2019	Low
26/06/2018	No Uncontrolled release	Other location Chemical Drumstore)	1. Minor	No Uncontrolled release	Not related to site activities	Damaged drum of Chloro-ethanol received on site. A puncture to the drum occurred off-site.	Normal activities	EPA & the HSA	NEW	Chemical drum emptied of any remaining residue.	A full audit of our suppliers to ensure compliance with chemical movement and storage.	Complete	17/07/2018	Low
21/09/2018	Uncontrolled release	Other location (Process Sump S2)	1. Minor	Ground	Plant or equipment issues	Process sump failed its 3 yearly Hydrostatic Test	Normal activities	EPA	New	Repairs to sump lining completed and a hydrostatic test confirmed its operation.	Carry out annual hydrostatic tests to confirm the integrity of the bund.	Complete	08/11/2018	Low
01/10/2018	Monitoring equipment offline	Licensed discharge point (WWT-01)	1. Minor	No Uncontrolled release	Operational controls	Missed a September monthly sample at WWT-01	Routine maintenance	EPA	New	Monthly sample at WWT-01 in October was collected.	Automated reminders for monthly sampling is sent to staff required to complete the monitoring.	Complete	30/11/2018	Low
Total number of incidents current year		8												
Total number of incidents previous year		6												
% reduction/increase		33% increase based on 2017 incidents												

<b>WASTE SUMMARY</b>	Lic No:	P0050-02	Year	2018
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**SECTION A- WASTE MANAGEMENT RECORD FOR WASTE TRANSFERRED OFF SITE**

Please insert details of waste transferred off site in the adjoining Waste Management Record tab.

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

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

No	Additional Information
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If yes please enter details in table 1 below

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

No	Additional Information
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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	Additional Information
----	------------------------

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

Licensed annual tonnage limit for your site (total tonnes/annum)	EWC code <a href="#">European Waste Catalogue EWC codes</a>	Source of waste accepted	Description of waste accepted <b>Please enter an accurate and detailed description - which applies to relevant EWC code</b> <a href="#">European Waste Catalogue EWC codes</a>	Quantity of waste accepted in current reporting year (tonnes)	Quantity of waste accepted in previous reporting year (tonnes)	Reduction/ Increase over previous year +/- %	Reason for reduction/ increase from previous reporting year	Packaging Content (%)- only applies if the waste has a packaging component	Disposal/Recovery or treatment operation carried out at your site and the description of this operation	Quantity of waste remaining on site at the end of reporting year (tonnes)	Comments -

**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 on site

Yes	
-----	--

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

Yes	
-----	--

6 Does your facility have relevant nuisance controls in place?

N/A	
-----	--

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

N/A	
-----	--

8 Do you maintain a sludge register on site?

N/A	
-----	--

**SECTION D-TO BE COMPLETED BY LANDFILL SITES ONLY**

**Table 2 Waste type and tonnage-landfill only**

Waste types permitted for disposal	Authorised/licenced annual intake for disposal (tpa)	Actual intake for disposal in reporting year (tpa)	Remaining licensed capacity at end of reporting year (m3)	Comments

**Table 3 General information-Landfill only**

Area ID	Date landfilling commenced	Date landfilling ceased	Currently landfilling	Private or Public Operated	Inert or non-hazardous	Predicted date to cease landfilling	Licence permits asbestos	Is there a separate cell for asbestos?	Accepted asbestos in reporting year	Total disposal area occupied by waste	Lined disposal area occupied by waste	Unlined area
										SELECT UNIT	SELECT UNIT	SELECT UNIT
Cell 8												

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<b>WASTE SUMMARY</b>	Lic No:	P0050-02	Year	2018
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**Table 4 Environmental monitoring-landfill only** [Landfill Manual-Monitoring Standards](#)

Was meteorological monitoring in compliance with Landfill Directive (LD) standard in reporting 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	Have GW trigger levels been established	Were emission limit values agreed with the Agency (ELVs)	Was topography of the site surveyed in reporting year	Has the statement under S53(A)(5) of WMA been submitted in reporting year	Comments

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

**Table 5 Capping-Landfill only**

Area uncapped*	Area with temporary cap	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
SELECT UNIT	SELECT UNIT					

\*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

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

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

**Table 7 Landfill Gas-Landfill only**

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

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Waste Summary Continued

Please insert a copy of your Waste Management Record for waste transferred off site

Co	Date of Collection	Transaction Type	Container Quantity	Container Type	EWG Code	Material Class	Material - Waste Type	Tonnage	Hauler Details	Hauler Collection Permit	Recovery Facility Licence	Recovery/ Disposal Code
Shredit	10.01.2018	Shredding	Time	Shredit	20 01 01	9030288893	N/A	0.5207	Time	NWCPO-13-11223-01	WFP-DC-09-0011-02	R3
Shredit	19.01.2018	Shredding	Time	Shredit	20 01 01	9030288893	N/A	0.1905	Time	NWCPO-13-11223-01	WFP-DC-09-0011-02	R3
Rilta	09.01.2018	Collection	39	Used drums	15 01 10	139692	Steel Drums	0.702	8	NWCPO-09-01190=02	W0192-03	R4
Rilta	09.01.2018	Collection	2	Used drums	15 01 10	139692	Plastic Drums	0.048	8	NWCPO-09-01190=02	W0192-03	R3
Rilta	23.01.2018	Collection	44	Used drums	15 01 10	139692	steeldrums	0.702	8	NWCPO-09-01190=02	W0192-03	R3
Rilta	23.01.2018	Collection	39	Used drums	15 01 10	139692	Plastic Drums	0.213	8	NWCPO-09-01190=02	W0192-03	R4
AES	03/01/2018	Lift	1	140 Litre Wheelie Bin	20 01 08	Organic	Organic	0.04	AES	NWCPO-08-10601-05	W0044-02	R3
AES	11/01/2018	Lift	1	140 Litre Wheelie Bin	20 01 08	Organic	Organic	0.063	AES	NWCPO-08-10601-05	W0044-02	R3
AES	18/01/2018	Lift	1	140 Litre Wheelie Bin	20 01 08	Organic	Organic	0.0625	AES	NWCPO-08-10601-05	W0044-02	R3
AES	25/01/2018	Lift	1	140 Litre Wheelie Bin	20 01 08	Organic	Organic	0.073	AES	NWCPO-08-10601-05	W0044-02	R3
AES	12/01/2018	Exch	1	Mobile Compactor 35	15 01 01	MDR	MDR	2.18	AES	NWCPO-08-10601-05	WFP-DC-10-0021-02	R3
AES	26/01/2018	Exch	1	Mobile Compactor 35	15 01 01	MDR	MDR	2.06	AES	NWCPO-08-10601-05	WFP-DC-10-0021-02	R3
AES	02/01/2018	Exch	1	Mobile Compactor 35	20 03 01	MDR	MDR	1.48	AES	NWCPO-08-10601-05	WFP-DC-10-0021-02	R1
AES	03/01/2018	Exch	1	35 cubic yard open skip	20 01 38	Wood	Wood	1.6	AES	NWCPO-08-10601-05	W0222-01	R1
AES	08/01/2018	Exchange	1	10 Cubic Yard Closed Skip	20 01 40	Metals	Metals	0.31	AES	NWCPO-08-10601-05	W0222-01	R4
Indaver	43104	Collection	Drums	120 litre wheelie bin	15 01 07	Glass	Glass	0.042	Rehab	NWCPO-08-01150-02	W0279-02	R5
Indaver	43110	Collection	5	Drums	07 05 04*	Non-Halogenated Solvents	Mixed lab waste containing sample jars, winchesters, pipettes, wipes, nitrile gloves, syringes and glass vials contaminated with Ioversol, DMAC, methanol, acetonitrile, sodium hydroxide and stannous c	0.314	WM. Cyril	NWCPO-08-01139-02	D10	D10
Indaver	43110	Collection	Drums	Drums	07 05 13*	BagHouse Socks	BagHouse Socks	0.11	WM. Cyril	NWCPO-08-01139-02	0427973304 - Reg No	D10
Indaver	43110	Collection	Drums	Drums	07 05 13*	Catalyst Bed Resin	Catalyst Bed Resin	0.271	WM. Cyril	NWCPO-08-01139-02	0427973304 - Reg No	D10
Indaver	43110	Collection	56	Drums	07 05 13*	Hazardous - Pharma Solid Waste	070513* PHARMA WASTE SOLID	1.285	WM. Cyril	NWCPO-08-01139-02	IB2234/AVG-GENB-2	D10
Indaver	43110	Collection	Drums	Drums	16 03 03*	Off Spec Liquid	Phosphoric acid	0.184	WM. Cyril	NWCPO-08-01139-02	0427973304 - Reg No	D10
Indaver	43110	Collection	Drums	Drums	15 02 02*	Absorbants contaminated with Chloroacetyl chloride	Absorbants contaminated with Chloroacetyl chloride	0.01	WM. Cyril	NWCPO-08-01139-03	0427973304 - Reg No	D11
Indaver	43110	Collection	1	Drums	15 02 02*	PPE contaminated with Ethylene chlorohydrin	PPE contaminated with Ethylene chlorohydrin	0.047	WM. Cyril	NWCPO-08-01139-04	0427973304 - Reg No	D12
Indaver	43111	Collection	Drums	120 litre wheelie bin	15 01 07	Glass	Glass	0.04	Rehab	NWCPO-08-01150-02	W0279-02	R5
Indaver	43116	152 d 182		Coffin	20 01 21*	FLUORESCENT TUBES	FLUORESCENT TUBES	0.031	Kmk	NWCPO-08-10607-02	W0113-04	R4
Indaver	43125	Collection	Drums	120 litre wheelie bin	15 01 07	Glass	Glass	0.085	Rehab	NWCPO-08-01150-02	W0279-02	R5
Enva	43126	Collection	88	Drums	15 02 02*	Spent Carbon	Spent Carbon	13.08	WM. Cyril	McGuinness Ltd	W0211-01	R1
Shredit	16.02.2018	Shredding	Time	Shredit	20 01 01	9030288893	N/A	0.5842	Time	NWCPO-13-11223-01	WFP-DC-09-0011-02	R3
Rilta	08.02.2018	Collection	48	Used drums	15 01 10	139692	Steel Drums	0.864	8	NWCPO-09-01190=02	W0192-03	R4
Rilta	08.02.2018	Collection	6	Used drums	15 01 10	139692	Plastic Drums	0.048	8	NWCPO-09-01190=02	W0192-03	R3
Rilta	22.02.2018	Collection	7	Used drums	15 01 10	139692	Steel Drums	0.028	8	NWCPO-09-01190=02	W0192-03	R4
AES	08/02/2018	Lift	1	140 Litre Wheelie Bin	20 01 08	Organic	Organic	0.1125	AES	NWCPO-08-10601-05	W0044-02	R3
AES	15/02/2018	Lift	1	140 Litre Wheelie Bin	20 01 08	Organic	Organic	0.06	AES	NWCPO-08-10601-05	W0044-02	R3
AES	22/02/2018	Lift	1	140 Litre Wheelie Bin	20 01 08	Organic	Organic	0.0665	AES	NWCPO-08-10601-05	W0044-02	R3
AES	09/02/2018	Exch	1	Mobile Compactor 35	15 01 01	MDR	MDR	1.82	AES	NWCPO-08-10601-05	WFP-DC-10-0021-02	R3
AES	23/02/2018	Exch	1	Mobile Compactor 35	15 01 01	MDR	MDR	2	AES	NWCPO-08-10601-05	WFP-DC-10-0021-02	R3
AES	07/02/2018	Exchange	1	10 Cubic Yard Closed Skip	20 01 40	Metals	Metals	1.4	AES	NWCPO-08-10601-05	W0222-01	R4
Indaver	43132	Collection	Drums	120 litre wheelie bin	15 01 07	Glass	Glass	0.1	Rehab	NWCPO-08-01150-02	W0279-02	R5
Indaver	43139	Collection	Drums	120 litre wheelie bin	15 01 07	Glass	Glass	0.108	Rehab	NWCPO-08-01150-02	W0279-02	R5
Indaver	43146	Collection	Drums	120 litre wheelie bin	15 01 07	Glass	Glass	0.121	Rehab	NWCPO-08-01150-02	W0279-02	R5
Indaver	43153	Collection	Drums	120 litre wheelie bin	15 01 07	Glass	Glass	0.111	Rehab	NWCPO-08-01150-02	W0279-02	R5
Enva	43153	Collection	96	Drums	15 02 02*	Spent Carbon	Spent Carbon	13.16	WM. Cyril	McGuinness Ltd	W0211-01	R1
Shredit	16.03.2018	Shredding	Time	Shredit	20 01 01	9030288893	N/A	0.4699	Time	NWCPO-13-11223-01	WFP-DC-09-0011-02	R3
Rilta	43174	Collection	48	Used drums	15 01 10	139692	Steel Drums	0.864	8	NWCPO-09-01190=02	W0192-03	R4
Rilta	43174	Collection	55	Used drums	15 01 10	139692	Plastic Drums	0.22	8	NWCPO-09-01190=02	W0192-03	R3
Rilta	43188	Collection	39	Used drums	15 01 10	139692	Steel Drums	0.702	8	NWCPO-09-01190=02	W0192-03	R4
Rilta	43188	Collection	13	Used drums	15 01 10	139692	Plastic Drums	0.052	8	NWCPO-09-01190=02	W0192-03	R3
AES	05/03/2018	Lift	1	140 Litre Wheelie Bin	20 01 08	Organic	Organic	0.315	AES	NWCPO-08-10601-05	W0044-02	R3
AES	08/03/2018	Lift	1	140 Litre Wheelie Bin	20 01 08	Organic	Organic	0.1165	AES	NWCPO-08-10601-05	W0044-02	R3
AES	15/03/2018	Lift	1	140 Litre Wheelie Bin	20 01 08	Organic	Organic	0.068	AES	NWCPO-08-10601-05	W0044-02	R3
AES	22/03/2018	Lift	1	140 Litre Wheelie Bin	20 01 08	Organic	Organic	0.0435	AES	NWCPO-08-10601-05	W0044-02	R3
AES	31/03/2018	Lift	1	140 Litre Wheelie Bin	20 01 08	Organic	Organic	0.111	AES	NWCPO-08-10601-05	W0044-02	R3
AES	09/03/2018	Exch	1	Mobile Compactor 35	15 01 01	MDR	MDR	1.46	AES	NWCPO-08-10601-05	WFP-DC-10-0021-02	R3
AES	23/03/2018	Exch	1	Mobile Compactor 35	15 01 01	MDR	MDR	1.74	AES	NWCPO-08-10601-05	WFP-DC-10-0021-02	R3
AES	06/03/2018	Exchange	1	10 Cubic Yard Closed Skip	20 01 40	Metals	Metals	0.84	AES	NWCPO-08-10601-05	W0222-01	R4
Indaver	43167	Collection	Drums	120 litre wheelie bin	15 01 07	Glass	Glass	0.05	Rehab	NWCPO-08-01150-02	W0279-02	R5
Indaver	43174	Collection	Drums	120 litre wheelie bin	15 01 07	Glass	Glass	0.048	Rehab	NWCPO-08-01150-02	W0279-02	R5
Indaver	43188	Collection	Drums	120 litre wheelie bin	15 01 07	Glass	Glass	0.046	Rehab	NWCPO-08-01150-02	W0279-02	R5
ENVA	PAINT	Collection	Paint Cans	660 litre & 205 litre wheelie bin	08 01 11	Paint	Paint & Paint cans	0.7	ENVA	NWCPO-10-05649-02	W0211-02	D10
Shredit	43203	Shredding	Time	Shredit	20 01 01	9030288893	N/A	0.5842	Time	NWCPO-13-11223-01	WFP-DC-09-0011-02	R3

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Rilta	43202	Collection	48	Used drums	15 01 10	139692	Steel Drums	0.864	8	NWCPO-09-01190=02	W0192-03	R4
Rilta	43202	Collection	3	Used drums	15 01 10	139692	Plastic Drums	0.012	8	NWCPO-09-01190=02	W0192-03	R3
AES	05/04/2018	Lift	1	140 Litre Wheelie Bin	20 01 08	Organic	Organic	0.111	AES	NWCPO-08-10601-05	W0044-02	R3
AES	12/04/2018	Lift	1	140 Litre Wheelie Bin	20 01 08	Organic	Organic	0.1615	AES	NWCPO-08-10601-05	W0044-02	R3
AES	19/04/2018	Lift	1	140 Litre Wheelie Bin	20 01 08	Organic	Organic	0.099	AES	NWCPO-08-10601-05	W0044-02	R3
AES	26/04/2018	Lift	1	140 Litre Wheelie Bin	20 01 08	Organic	Organic	0.055	AES	NWCPO-08-10601-05	W0044-02	R3
AES	04/04/2018	Exch	1	Mobile Compactor 35	15 01 01	MDR	MDR	1.56	AES	NWCPO-08-10601-05	WFP-DC-10-0021-02	R3
AES	19/04/2018	Exch	1	Mobile Compactor 35	15 01 01	MDR	MDR	2.14	AES	NWCPO-08-10601-05	WFP-DC-10-0021-02	R3
AES	11/04/2018	Exch	1	Mobile Compactor 35	15 01 01	MDR	MDR	4.2	AES	NWCPO-08-10601-05	WFP-DC-10-0021-02	R3
AES	06/04/2018	Exchange	1	10 Cubic Yard Closed Skip	20 01 40	Metals	Metals	0.46	AES	NWCPO-08-10601-05	W0222-01	R4
Indaver	43202	Collection	Drums	120 litre wheelie bin	15 01 07	Glass	Glass	0.049	Rehab	NWCPO-08-01150-02	W0279-02	R5
Indaver	43209	Collection	Drums	120 litre wheelie bin	15 01 07	Glass	Glass	0.051	Rehab	NWCPO-08-01150-02	W0279-02	R5
Indaver	43216	Collection	Drums	120 litre wheelie bin	15 01 07	Glass	Glass	0.037	Rehab	NWCPO-08-01150-02	W0279-02	R5
Shredit	43231	Shredding c	Time	Shredit	20 01 01	9030288893	N/A	0.3556	Time	NWCPO-13-11223-01	WFP-DC-09-0011-02	R3
Rilta	43221	Collection	48	Used drums	15 01 10	139692	Steel Drums	0.864	8	NWCPO-09-01190=02	W0192-03	R4
Rilta	43221	Collection	25	Used drums	15 01 10	139692	Plastic Drums	0.2	8	NWCPO-09-01190=02	W0192-03	R3
Rilta	43229	Collection	16	Used drums	15 01 10	139692	Steel drums	0.288	8	NWCPO-09-01190=02	W0192-03	R4
Rilta	43229	Collection	92	Used drums	15 01 10	139692	Plastic Drums	0.368	8	NWCPO-09-01190=02	W0192-03	R3
Rilta	43244	Collection	51	Used drums	15 01 10	139692	Steel drums	0.918	8	NWCPO-09-01190=02	W0192-03	R4
Rilta	43244	Collection	18	Used drums	15 01 10	139692	Plastic Drums	0.072	8	NWCPO-09-01190=02	W0192-03	R3
AES	24/05/2018	Lift	1	140 Litre Wheelie Bin	20 01 08	Organic	Organic	0.0595	AES	NWCPO-08-10601-05	W0044-02	R3
AES	31/05/2018	Lift	1	140 Litre Wheelie Bin	20 01 08	Organic	Organic	0.0645	AES	NWCPO-08-10601-05	W0044-02	R3
AES	17/05/2018	Lift	1	140 Litre Wheelie Bin	20 01 08	Organic	Organic	0.112	AES	NWCPO-08-10601-05	W0044-02	R3
AES	09/05/2018	Lift	1	140 Litre Wheelie Bin	20 01 08	Organic	Organic	0.116	AES	NWCPO-08-10601-05	W0044-02	R13
AES	09/05/2018	Lift	1	140 Litre Wheelie Bin	20 01 08	Organic	Organic	0.116	AES	NWCPO-08-10601-05	W0044-02	R13
AES	18/05/2018	Exch	1	Mobile Compactor 35	15 01 01	MDR	MDR	1.48	AES	NWCPO-08-10601-05	WFP-DC-10-0021-02	R3
AES	04/05/2018	Exch	1	Mobile Compactor 35	15 01 01	MDR	MDR	1.7	AES	NWCPO-08-10601-05	WFP-DC-10-0021-02	R3
AES	11/05/2018	Exch	1	35 cubic yard open skip	20 01 38	Wood	Wood	1.5	AES	NWCPO-08-10601-05	W0222-01	R1
AES	22/05/2018	Exchange	1	10 Cubic Yard Closed Skip	20 01 40	Metals	Metals	0.5	AES	NWCPO-08-10601-05	W0222-01	R4
AES	30/05/2018	Exchange	1	Rolopak 35 Cubic Yard	20 03 01	General Waste	Commercial Mixed Municipal Waste	2.1	AES	NWCPO-08-10601-05	W0222-01	R1
Indaver	43235	Collection	10	Drums	07 05 04*	Non-Halogenated Solvents	Mixed lab waste containing sample jars, winchesters, pipette	0.645	WM. Cyl	NWCPO-08-01139-02	D10	D10
Indaver	43235	Collection	Drums	Drums	07 05 13*	BagHouse Socks	BagHouse Socks	0.093	WM. Cyl	NWCPO-08-01139-02	0427973304 - Reg No o	D10
Indaver	43235	Collection	Drums	Drums	07 05 13*	BagHouse Socks contaminated with loversol	BagHouse Socks	0.141	WM. Cyl	NWCPO-08-01139-02	0427973304 - Reg No o	D10
Indaver	43235	Collection	75	Drums	07 05 13*	MP-104 Pharmaceutical Intermediate	070513* PHARMA WASTE SOLID	1.679	WM. Cyl	NWCPO-08-01139-02	IB2234/AVG-GENB-2	D10
Indaver	43235	Collection	1	Drums	07 05 13	Absorbents, filters, PPE contaminated with Hydrochloric acid	070513* PHARMA WASTE liquid	0.03	WM. Cyl	NWCPO-08-01139-03	IB2234/AVG-GENB-3	D11
Indaver	43235	Collection	Drums	Drums	15 02 02*	Absorbents contaminated with Chloroacetyl chloride	Absorbents contaminated with Chloroacetyl chloride	0.097	WM. Cyl	NWCPO-08-01139-03	0427973304 - Reg No o	D11
Indaver	43235	Collection	1	Drums	15 02 02*	PPE contaminated with Ethylene chlorohydrin	PPE contaminated with Ethylene chlorohydrin	0.047	WM. Cyl	NWCPO-08-01139-04	0427973304 - Reg No o	D12
Indaver	43223	Collection	Drums	120 litre wheelie bin	15 01 07	Glass	Glass	0.051	Rehab	NWCPO-08-01150-02	W0279-02	R5
Indaver	43230	Collection	Drums	120 litre wheelie bin	15 01 07	Glass	Glass	0.036	Rehab	NWCPO-08-01150-02	W0279-02	R5
Indaver	43237	Collection	Drums	120 litre wheelie bin	15 01 07	Glass	Glass	0.049	Rehab	NWCPO-08-01150-02	W0279-02	R5
Indaver	43244	Collection	Drums	120 litre wheelie bin	15 01 07	Glass	Glass	0.051	Rehab	NWCPO-08-01150-02	W0279-02	R5
Indaver	43251	Collection	Drums	120 litre wheelie bin	15 01 07	Glass	Glass	0.051	Rehab	NWCPO-08-01150-02	W0279-02	R5
Indaver	43244	Collection	3	Cage Collection	16 02 13*	WEEE	WEEE	1.247	Ravenhi	NWCPO-08-10607-02	W0113-04	R4
Enva	43207	Collection	72	Drums	15 02 02*	Spent Carbon	Spent Carbon	9.7	WM. Cyl	NWCPO-10-05649-02	W0211-01	R1
Enva	43210	Collection	24	Drums	15 02 02*	Spent Carbon	Spent Carbon	3.1	WM. Cyl	NWCPO-10-05649-02	W0211-01	R1
Enva	43237	Collection	96	Drums	15 02 02*	Spent Carbon	Spent Carbon	12.08	WM. Cyl	NWCPO-10-05649-02	W0211-01	R1
Shredit	43259	Shredding c	Time	Shredit	20 01 01	9030288893	N/A	0.4445	Time	NWCPO-13-11223-01	WFP-DC-09-0011-02	R3
Rilta	43263	Collection	39	Used drums	15 01 10	139692	Steel Drums	1.008	8	NWCPO-09-01190=02	W0192-03	R4
Rilta	43263	Collection	39	Used drums	15 01 10	139692	Plastic Drums	0.04	8	NWCPO-09-01190=02	W0192-03	R3
AES	13/06/2018	Lift	1	140 Litre Wheelie Bin	20 01 08	Organic	Organic	0.211	AES	NWCPO-08-10601-05	W0044-02	R3
AES	01/06/2018	Exch	1	Mobile Compactor 35	15 01 01	MDR	MDR	1.92	AES	NWCPO-08-10601-05	WFP-DC-10-0021-02	R3
AES	15/06/2018	Exch	1	Mobile Compactor 35	15 01 01	MDR	MDR	1.82	AES	NWCPO-08-10601-05	WFP-DC-10-0021-02	R3
AES	28/06/2018	Exch	1	Mobile Compactor 35	15 01 01	MDR	MDR	1.68	AES	NWCPO-08-10601-05	WFP-DC-10-0021-02	R3
Indaver	43258	Collection	Drums	120 litre wheelie bin	15 01 07	Glass	Glass	0.041	Rehab	NWCPO-08-01150-02	W0279-02	R5
Indaver	43272	Collection	Drums	120 litre wheelie bin	15 01 07	Glass	Glass	0.041	Rehab	NWCPO-08-01150-02	W0279-02	R5
Enva	43277	Collection	96	Drums	15 02 02*	Spent Carbon	Spent Carbon	12.6	WM. Cyril McGuinness Ltd	W0211-01	W0211-01	R1
Shredit	43287	Shredding c	Time	Shredit	10.01.2018	9030288893	N/A	0.3683	Time	NWCPO-13-11223-01	WFP-DC-09-0011-02	R3
Rilta	43284	Collection	39	Used drums	15 01 10	139692	Steel Drums	1.296	8	NWCPO-09-01190=02	W0192-03	R4
Rilta	43284	Collection	39	Used drums	15 01 10	139692	Plastic Drums	0.048	8	NWCPO-09-01190=02	W0192-03	R3
Rilta	43297	Collection	39	Used drums	15 01 10	139692	Steel Drums	0.702	8	NWCPO-09-01190=02	W0192-03	R4
Rilta	43297	Collection	39	Used drums	15 01 10	139692	Plastic Drums	0.18	8	NWCPO-09-01190=02	W0192-03	R3
Rilta	43312	Collection	39	Used drums	15 01 10	139692	Steel drums	1.08	8	NWCPO-09-01190=02	W0192-03	R4
Rilta	43312	Collection	39	Used drums	15 01 10	139692	Plastic Drums	0.232	8	NWCPO-09-01190=02	W0192-03	R3
AES	05/07/2018	Lift	1	140 Litre Wheelie Bin	20 01 08	Organic	Organic	0.093	AES	NWCPO-08-10601-05	W0044-02	R3
AES	12/07/2018	Lift	1	140 Litre Wheelie Bin	20 01 08	Organic	Organic	0.199	AES	NWCPO-08-10601-05	W0044-02	R3
AES	26/07/2018	Lift	1	140 Litre Wheelie Bin	20 01 08	Organic	Organic	0.188	AES	NWCPO-08-10601-05	W0044-02	R3
AES	13/07/2018	Exch	1	Mobile Compactor 35	15 01 01	MDR	MDR	1.94	AES	NWCPO-08-10601-05	WFP-DC-10-0021-02	R3
AES	26/07/2018	Exch	1	Mobile Compactor 35	15 01 01	MDR	MDR	1.8	AES	NWCPO-08-10601-05	WFP-DC-10-0021-02	R3
AES	43282	Exchange	1	10 Cubic Yard Closed Skip	20 01 40	Metals	Metals	9.8	AES	NWCPO-08-10601-05	W0222-01	R4
AES	10/07/2018	Exchange	1	10 Cubic Yard Closed Skip	20 01 40	Metals	Metals	0.48	AES	NWCPO-08-10601-05	W0222-01	R4
Indaver	43293	Collection	Drums	120 litre wheelie bin	15 01 07	Glass	Glass	0.052	Rehab	NWCPO-08-01150-02	W0279-02	R3

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Indaver	43300	Collection	Drums	120 litre wheelie bin	15 01 07	Glass	Glass	0.036	Rehab	NWCPO- 08-01150-02	W0279-02	R3
Indaver	43307	Collection	Drums	120 litre wheelie bin	15 01 07	Glass	Glass	0.051	Rehab	NWCPO- 08-01150-02	W0279-02	R3
Shredit	43315	Shredding	Time	Shredit	10.01.2018	9030288893	N/A	0.47	Time	NWCPO-13-11223-01	WFP-DC-09-0011-02	R3
Shredit	43343	Shredding	Time	Shredit	10.01.2018	9030288893	N/A	0.394	Time	NWCPO-13-11223-01	WFP-DC-09-0011-02	R3
Rilta	43325	Collection	39	Used drums	15 01 10	139692	Steel Drums	0.846		NWCPO-09-01190=02	W0192-03	R4
Rilta	43325	Collection	39	Used drums	15 01 10	139692	Plastic Drums	0.056		NWCPO-09-01190=02	W0192-03	R3
Rilta	43342	Collection	39	Used drums	15 01 10	139692	Steel Drums	1.008		NWCPO-09-01190=02	W0192-03	R4
Rilta	43342	Collection	39	Used drums	15 01 10	139692	Plastic Drums	0.18		NWCPO-09-01190=02	W0192-03	R3
AES	16/08/2018	Lift	1	140 Litre Wheelie Bin	20 01 08	Organic	Organic	0.054	AES	NWCPO-08-10601-05	W0044-02	R3
AES	30/08/2018	Lift	1	140 Litre Wheelie Bin	20 01 08	Organic	Organic	0.121	AES	NWCPO-08-10601-05	W0044-02	R3
AES	07/08/2018	Exch	1	Mobile Compactor 35	15 01 01	MDR	MDR	1.92	AES	NWCPO-08-10601-05	WFP-DC-10-0021-02	R3
AES	20/08/2018	Exch	1	Mobile Compactor 35	15 01 01	MDR	MDR	1.5	AES	NWCPO-08-10601-05	WFP-DC-10-0021-02	R3
AES	31/08/2018	Exch	1	Mobile Compactor 35	15 01 01	MDR	MDR	1.6	AES	NWCPO-08-10601-05	WFP-DC-10-0021-02	R3
AES	07/08/2018	Exchange	1	10 Cubic Yard Closed Skip	20 01 40	Metals	Metals	0.93	AES	NWCPO-08-10601-05	W0222-01	R4
Indaver	August	Collection	Drums	120 litre wheelie bin	15 01 07	Glass	Glass	0.238	Rehab	NWCPO- 08-01150-02	W0279-02	R3
Indaver	September	Collection	Drums	120 litre wheelie bin	15 01 07	Glass	Glass	0.105	Rehab	NWCPO- 08-01150-02	W0279-02	R3
Erva	43333	Collection	96	Drums	15 02 02*	Spent Carbon	Spent Carbon	12.26	WM. Cynl McGuinness Ltd		W0211-01	R1
AES	06/09/2018	Lift		140 Litre Wheelie Bin	20 01 08	Organic	Organic	0.048	AES Lus	NWCPO-08-10601-06	W0044-02	R3
AES	13/09/2018	Lift		140 Litre Wheelie Bin	20 01 08	Organic	Organic	0.0525	AES Lus	NWCPO-08-10601-06	W0044-02	R3
AES	13/09/2018	Lift		140 Litre Wheelie Bin	20 01 08	Organic	Organic	0.0525	AES Lus	NWCPO-08-10601-06	W0044-02	R3
AES	19/09/2018	Lift		140 Litre Wheelie Bin	20 01 08	Organic	Organic	0.087	AES Lus	NWCPO-08-10601-06	W0044-02	R3
AES	26/09/2018	Lift		140 Litre Wheelie Bin	20 01 08	Organic	Organic	0.078	AES Lus	NWCPO-08-10601-06	W0044-02	R3
AES	11/09/2018	Exchange		35 Cubic Yard Open Skip	20 01 38	General Waste	General Waste	1.9	AES Lus	NWCPO-08-10601-06	NWCPO	R1
AES	18/09/2018	Exchange		10 Cubic Yard Closed Skip	20 01 40	Metals	Metals	0.4	AES Lus	NWCPO-08-10601-06		R4
AES	14/09/2018	Exchange		Rolopak 35 Cubic Yard	20 03 01	General Waste	General Waste	4.52	AES Lus	NWCPO-08-10601-06	W0044-02	R1
AES	05/10/2018			Mobile Compactor 35	15 01 01	Cardboard/Paper	Cardboard/Paper	2.44	AES Lus	NWCPO-08-10601-06	W0044-02	R3
AES	19/10/2018			Mobile Compactor 35	15 01 01	Cardboard/Paper	Cardboard/Paper	1.74	AES Lus	NWCPO-08-10601-06	W0044-02	R3
AES	04/10/2018			140 Litre Wheelie Bin	20 01 08	Organic	Organic	0.081	AES Lus	NWCPO-08-10601-06	W0044-02	R3
AES	04/10/2018			140 Litre Wheelie Bin	20 01 08	Organic	Organic	0.081	AES Lus	NWCPO-08-10601-06	W0044-02	R3
AES	11/10/2018			140 Litre Wheelie Bin	20 01 08	Organic	Organic	0.111	AES Lus	NWCPO-08-10601-06	W0044-02	R3
AES	11/10/2018			140 Litre Wheelie Bin	20 01 08	Organic	Organic	0.111	AES Lus	NWCPO-08-10601-06	W0044-02	R3
AES	18/10/2018			140 Litre Wheelie Bin	20 01 08	Organic	Organic	0.0525	AES Lus	NWCPO-08-10601-06	W0044-02	R3
AES	25/10/2018			140 Litre Wheelie Bin	20 01 08	Organic	Organic	0.07	AES Lus	NWCPO-08-10601-06	W0044-02	R3
AES	31/10/2018			140 Litre Wheelie Bin	20 01 08	Organic	Organic	0.044	AES Lus	NWCPO-08-10601-06	W0044-02	R3
AES	31/10/2018			140 Litre Wheelie Bin	20 01 08	Organic	Organic	0.044	AES Lus	NWCPO-08-10601-06	W0044-02	R3
AES	30/10/2018			10 Cubic Yard Closed Skip	20 01 40	Metals	Metals	1.2	AES Lus	NWCPO-08-10601-06	W0044-02	R4
AES	30/11/2018	Exch	1	Artic	070514	General Waste	Spent Resin	4.32	AES Lus	NWCPO-08-10601-06	W0044-02	D1
AES	02/11/2018	Exch	1	Mobile Compactor 35	150101	Cardboard/Paper	Cardboard/Paper	1.2	AES Lus	NWCPO-08-10601-06	W0044-02	R12
AES	19/11/2018	Exch	1	Mobile Compactor 35	150101	Cardboard/Paper	Cardboard/Paper	1.8	AES Lus	NWCPO-08-10601-06	W0044-02	R12
AES	08/11/2018	Lift	2	140 Litre Wheelie Bin	200108	Organic	Organic	0.0715	AES Lus	NWCPO-08-10601-06	W0044-02	R3
AES	15/11/2018	Lift	2	140 Litre Wheelie Bin	200108	Organic	Organic	0.061	AES Lus	NWCPO-08-10601-06	W0044-02	R3
AES	22/11/2018	Lift	2	140 Litre Wheelie Bin	200108	Organic	Organic	0.058	AES Lus	NWCPO-08-10601-06	W0044-02	R3
AES	29/11/2018	Lift	2	140 Litre Wheelie Bin	200108	Organic	Organic	0.0615	AES Lus	NWCPO-08-10601-06	W0044-02	R3
AES	05/12/2018	Lift	2	140 Litre Wheelie Bin	200108	Organic	Commercial biodegradable kitchen and canteen waste	0.054	AES Lus	NWCPO-08-10601-06	W0044-02	R3
AES	13/12/2018	Lift	2	140 Litre Wheelie Bin	200108	Organic	Commercial biodegradable kitchen and canteen waste	0.078	AES Lus	NWCPO-08-10601-06	W0044-02	R3
AES	20/12/2018	Lift	2	140 Litre Wheelie Bin	200108	Organic	Commercial biodegradable kitchen and canteen waste	0.0545	AES Lus	NWCPO-08-10601-06	W0044-02	R3
AES	13/12/2018	Exch	1	Mobile Compactor 35	150101	Cardboard/Paper	Mixed Paper 150101	3.42	AES Lus	NWCPO-08-10601-06	W0044-02	R12
AES	13/12/2018	Exchange	1	Rolopak 35 Cubic Yard	200301	General Waste	Commercial Mixed Municipal Waste	5.32	AES Lus	NWCPO-08-10601-06	W0044-02	R1
Shredit	43371			Shredit	10.01.2018	9030288893	N/A	0.431	Time	NWCPO-13-11223-01	WFP-DC-09-0011-02	R3
Shredit	43399			Shredit	10.01.2018	9030288893	N/A	0.0127	Time	NWCPO-13-11223-01	WFP-DC-09-0011-02	R3
Shredit	43427			Shredit	10.01.2018	9030288893	N/A	0.393	Time	NWCPO-13-11223-01	WFP-DC-09-0011-02	R3
Shredit	43455			Shredit	10.01.2018	9030288893	N/A	0.546	Time	NWCPO-13-11223-01	WFP-DC-09-0011-02	R3
Rilta	43375	Collection	39	Used drums	15 01 10	139692	Steel Drums	0.828		NWCPO-09-01190=02	W0192-03	R4
Rilta	43375	Collection	39	Used drums	15 01 10	139692	Plastic Drums	0.296		NWCPO-09-01190=02	W0192-03	R3
Rilta	43375	Collection	39	Used drums	15 01 10	139692	Plastic Drums	0.001		NWCPO-09-01190=02	W0192-03	R3
Rilta	43382	Collection	39	Used drums	13 02 05*	Waste Oil	Waste Oil	0.6		NWCPO-09-01190=02	W0192-03	R1
Rilta	43396	Collection	39	Used drums	15 01 10	139692	Steel Drums	1.044		NWCPO-09-01190=02	W0192-03	R4
Rilta	43396	Collection	39	Used drums	15 01 10	139692	Plastic Drums	0.056		NWCPO-09-01190=02	W0192-03	R3
Rilta	43396	Collection	39	Used drums	15 01 10	139692	Plastic Drums	0.0016		NWCPO-09-01190=02	W0192-03	R3
Rilta	43396	Collection	39	Used drums	15 01 10	139692	Plastic Drums	0.0001		NWCPO-09-01190=02	W0192-03	R3
Rilta	43420	Collection	39	Used drums	15 01 10	139692	Steel Drums	1.026		NWCPO-09-01190=02	W0192-03	R4
Rilta	43420	Collection	39	Used drums	15 01 10	139692	Plastic Drums	0.072		NWCPO-09-01190=02	W0192-03	R3
Rilta	43420	Collection	39	Used drums	15 01 10	139692	Plastic Drums	0.001		NWCPO-09-01190=02	W0192-03	R3
Rilta	43420	Collection	39	Used drums	15 01 10*	139692	IBC	0.078		NWCPO-09-01190=02	W0192-03	R3/R4
Rilta	43438	Collection	39	Used drums	15 01 10	139692	Steel Drums	0.936		NWCPO-09-01190=02	W0192-03	R4
Rilta	43438	Collection	39	Used drums	15 01 10	139692	Plastic Drums	0.124		NWCPO-09-01190=02	W0192-03	R3
Rilta	43438	Collection	39	Used drums	15 01 10	139692	Plastic Drums	0.04		NWCPO-09-01190=02	W0192-03	R3
Rilta	43453	Collection	39	Used drums	15 01 10	139692	Steel Drums	0.846		NWCPO-09-01190=02	W0192-03	R4
Rilta	43453	Collection	39	Used drums	15 01 10	139692	Plastic Drums	0.124		NWCPO-09-01190=02	W0192-03	R3
Indaver	43377	Collection		120 litre wheelie bin	15 01 07	Glass	Glass	0.055	Rehab	NWCPO- 08-01150-02	W0279-02	R3
Indaver	43384	Collection		120 litre wheelie bin	15 01 07	Glass	Glass	0.05	Rehab	NWCPO- 08-01150-02	W0279-02	R3

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Indaver	43389	Collection	10	Drums	07 05 04*	Non-Halogenated Solvents	Mixed lab waste containing sample jars, winchesters, pipette	0.801	WM, Cyl	NWCPO-08-01139-02	0427973304 - Reg No	D10
Indaver	43389	Collection	Drums	Drums	07 05 13*	Bag House Socks/Filters contaminated with Loversol	Bag House Socks/Filters contaminated with Loversol	0.232	WM, Cyl	NWCPO-08-01139-02	0427973304 - Reg No	D10
Indaver	43389	Collection	Drums	Drums	07 05 13*	MP104 Pharmaceutical intermediate	MP104 Pharmaceutical intermediate	0.887	WM, Cyl	NWCPO-08-01139-02	0427973304 - Reg No	D10
Indaver	43389	Collection	Drums	Drums	07 05 13*	MP104 Pharmaceutical intermediate	MP104 Pharmaceutical intermediate	0.811	WM, Cyl	NWCPO-08-01139-02	0427973304 - Reg No	D10
Indaver	43389	Collection	Drums	Drums	15 02 02*	Absorbents Organic Solid	Absorbent /filter material contaminated with non regulated it	0.16	WM, Cyl	NWCPO-08-01139-03	0427973304 - Reg No	D10
Indaver	43389	Collection	Drums	Drums	15 02 02*	Absorbent /filter material contaminated with non regulated items	Absorbent /filter material contaminated with non regulated it	0.236	WM, Cyl	NWCPO-08-01139-03	0427973304 - Reg No	D10
Indaver	43389	Collection	Drums	Drums	08 03 12*	Used print cartridges (toner)	Used print cartridges (toner)	0.1	WM, Cyl	NWCPO-08-01139-02	W0036-02	D10
Indaver	43389	Collection	Drums	Drums	15 02 02*	Filters/Absorbents (Critical)	Absorbents contaminated with Chloroacetyl chloride	0.08	WM, Cyl	NWCPO-08-01139-03	0427973304 - Reg No	D10
Indaver	43389	Collection	Drums	Drums	15 02 02*	Filters/Absorbents (Critical)	PPE contaminated with Ethylene chlorohydrin	0.09	WM, Cyl	NWCPO-08-01139-03	0427973304 - Reg No	D10
Indaver	43391	Collection	120 litre whee	120 litre wheelie bin	15 01 07	Glass	Glass	0.041	Rehab	NWCPO-08-01150-02	W0279-02	R3
Indaver	43395	Collection	Coffin	Coffin	20 01 21*	FLUORESCENT TUBES	FLUORESCENT TUBES	0.035	KMK Re	NWCPO-08-10607-02	W0113-04	R4
Indaver	43398	Collection	120 litre whee	120 litre wheelie bin	15 01 07	Glass	Glass	0.046	Rehab	NWCPO-08-01150-02	W0279-02	R3
Indaver	43405	Collection	120 litre whee	120 litre wheelie bin	15 01 07	Glass	Glass	0.055	Rehab	NWCPO-08-01150-02	W0279-02	R3
Indaver	43409	Collection	Cage	Cage	16 02 13*	Mixed WEEE	Mixed WEEE	0.619	KMK Re	NWCPO-08-10607-02	W0113-04	R4
Indaver	43412	Collection	120 litre whee	120 litre wheelie bin	15 01 07	Glass	Glass	0.048	Rehab	NWCPO-08-01150-02	W0279-02	R3
Indaver	43419	Collection	120 litre whee	120 litre wheelie bin	15 01 07	Glass	Glass	0.056	Rehab	NWCPO-08-01150-02	W0279-02	R3
Indaver	43426	Collection	120 litre whee	120 litre wheelie bin	15 01 07	Glass	Glass	0.05	Rehab	NWCPO-08-01150-02	W0279-02	R3
Indaver	43426	Collection	Lab Smalls	Lab Smalls Packed by Indaver	16 05 06*	Lab Smalls	Drum Y Lab smalls not regulated for transport.	0.032	WM, Cyl	NWCPO-08-01139-02	0427973304 - Reg No	D10
Indaver	43433	Collection	120 litre whee	120 litre wheelie bin	15 01 07	Glass	Glass	0.045	Rehab	NWCPO-08-01150-02	W0279-02	R3
Indaver	43440	Collection	120 litre whee	120 litre wheelie bin	15 01 07	Glass	Glass	0.051	Rehab	NWCPO-08-01150-02	W0279-02	R3
Indaver	43447	Collection	120 litre whee	120 litre wheelie bin	15 01 07	Glass	Glass	0.041	Rehab	NWCPO-08-01150-02	W0279-02	R3
Indaver	43454	Collection	120 litre whee	120 litre wheelie bin	15 01 07	Glass	Glass	0.056	Rehab	NWCPO-08-01150-02	W0279-02	R3
Enva	43403	Collection	96	Drums	15 02 02*	Spent Carbon	Spent Carbon	11.02	WM, Cyl	NWCPO-08-01116-02	W0211-01	R1
Enva	43449	Collection	67	Drums	15 02 02*	Spent Carbon	Spent Carbon	8.86	WM, Cyl	NWCPO-08-01116-02	W0211-01	R1

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