

Tipperary County Council Historic Landfill Site Inspection Record

Name of Historic Landfill Site Inspected: Kilsheelan Landfill

Date: 27/04/2022

Time: 11.00

Completed By: G Sweeney & B Quaid

Weather Conditions: Dry & sunny

Instructions: Walk the entire site and site boundary as far as is possible to check for and record any evidence of the items listed below and anything else of interest. Take photographs if appropriate.

- illegal dumping / litter
- odour
- leachate break out
- vegetation die-back
- general condition of the site
- invasive species

Record of findings:

Entrance to landfill was blocked with heavy blocks & clay bank for extra security. Rang overseer to gain access. Have to come back another day

Kilsheelan Landfill Monitoring Report

Date & time: 27/04/2022

Completed by: G Sweeny & B Quaid

Weather Conditions: _____

Dry, sunny

LW1	
CH4	
CO2	
O2	
Comment:	

LW2	
CH4	
CO2	
O2	
Comment:	

GW1	
CH4	
CO2	
O2	
Comment:	

GW2	
CH4	0.0
CO2	0.1
O2	19.9
Comment:	

GW3	
CH4	0.0
CO2	0.3
O2	20.3
Comment:	



Low Flow Water Quality Sampling Record Sheet

Project Name: Kilsheelan Landfill,

Sampled By: G Sweeney & B Quaid

Sampling Location: GW3

Date & Time of Sampling: 27/04/2022

Suite:

Sample Type: Groundwater

Weather: Dry, Sunny

Air Pressure (mm Hg): 768

Low Flow Sampling Setup Details (If $K > 0.2\text{m/d}$ then fill/dischg. ~ 4 to 8 sec each; if $K < 0.2\text{m/d}$ then fill 20 to 30 sec & dischg. ~8 sec)

Hydraulic Conductivity (m/d)	
Ground Level (mOD)	
Datum Level (mOD)	
Datum (D)	Top of 2 inch pipe
Rest Water Level: Date: 27/04/2022; & Time:	12.00
Rest Water Level (mbD) (RWL)	6.72
Min GWL Record (mbD)	
Top of Screen (mbD)	
Total Depth Dip (mbD)	8.92 (2022)
Calc. Screen length below RWL (m)	
Actual Pump Intake Installation Depth (mbD)	
Pump Type, length and intake location	Solinst pump, 0.71m @base,

Field Parameter Record: (Record Every 3 to 5 mins: Stabilisation = all params stable for 3 successive readings)

Stabilisation Criteria:

- Water Quality: +/-0.1 pH units; +/-3% EC; +/-10mV for ORP; +/-10% D.O;
- Level & Flow: Groundwater Level Drawdown <0.1m; Flow Rate 0.1 to 0.5 l/min

Time	T (°C)	pH [-]	EC $\mu\text{S/cm}$	ORP (mV)	D.O. (mg/l O ₂)	D.O. (% Sat)	Water Level (mbD)	Flow Rate (l/min)	Fill Time (Sec)	Discharge Time (Sec)
12.16	10.1	7.17	714		9.3	82	6.70		10	10
12.19	9.8	7.13	716		9.3	80				
12.22	9.8	7.14	717		9.2	81				

Sample Details (record container type and volume; sample filtration (if any); sample preservation (if any), No. of bottle rinses (if any); and, required analysis for each container.)

Comments:

Very dirty sample - grey - No colour.



Low Flow Water Quality Sampling Record Sheet

Project Name: Kilsheelan Landfill,

Sampled By: G Sweeney & B Quaid

Sampling Location: GW2

Date & Time of Sampling: 27/04/2022

Suite:

Sample Type: Groundwater

Weather: Dry, sunny

Air Pressure (mm Hg): 767.9

Low Flow Sampling Setup Details (If K>0.2m/d then fill/dischg. ~ 4 to 8 sec each; if K<0.2m/d then fill 20 to 30 sec & dischg. ~8 sec)

Hydraulic Conductivity (m/d)	
Ground Level (mOD)	
Datum Level (mOD)	
Datum (D)	Top of 2 inch pipe
Rest Water Level: Date: 27/04/2022; & Time:	10.36
Rest Water Level (mbD) (RWL)	9.70
Min GWL Record (mbD)	
Top of Screen (mbD)	
Total Depth Dip (mbD)	15.
Calc. Screen length below RWL (m)	
Actual Pump Intake Installation Depth (mbD)	12.35.
Pump Type, length and intake location	Solinst pump, 0.71m @base,

Field Parameter Record: (Record Every 3 to 5 mins: Stabilisation = all params stable for 3 successive readings)

Stabilisation Criteria:

- Water Quality: +/-0.1 pH units; +/-3% EC; +/-10mV for ORP; +/-10% D.O;
- Level & Flow: Groundwater Level Drawdown <0.1m; Flow Rate 0.1 to 0.5 l/min

Time	T (°C)	pH [-]	EC μ S/cm	ORP (mV)	D.O. (mg/l O ₂)	D.O. (% Sat)	Water Level (mbD)	Flow Rate (l/min)	Fill Time (Sec)	Discharge Time (Sec)
11.00	12.5	6.42	1246		2.0	18	9.8		10	10
11.03	11.1	6.4	1251		0.5	5	9.8			
11.06	11.0	6.4	1248		0.5	4	9.8			

Sample Details (record container type and volume; sample filtration (if any); sample preservation (if any), No. of bottle rinses (if any); and, required analysis for each container.)

Comments:

Slightly cloudy.
No odour.

0.8/5

0.16
5 / 10.8

0.16 l/min

Tipperary County Council Historic Landfill Site Inspection Record

Name of Historic Landfill Site Inspected: Kilsheelan Landfill

Date: 26/05/2022

Time: 09.10.

Completed By: G Sweeney & B Quaid

Weather Conditions: Dry, Overcast.

Instructions: Walk the entire site and site boundary as far as is possible to check for and record any evidence of the items listed below and anything else of interest. Take photographs if appropriate.

- illegal dumping / litter
- odour
- leachate break out
- vegetation die-back
- general condition of the site
- invasive species

Record of findings:

Mick Mullins G.S.S. got J.C.B.
to pull back 3 belly blocks from gate
into dog pound.

Kilsheelan Landfill Monitoring Report

Date & time: 26/05/2022

Completed by: G Sweeney & B Quaid

Weather Conditions: Dry, overcast.

LW1	
CH4	10.1
CO2	12.3
O2	7.4
Comment:	

LW2	
CH4	0.0
CO2	10.8
O2	11.0
Comment:	



Low Flow Water Quality Sampling Record Sheet

Project Name: Kilsheelan Landfill

Sampled By: G.S. & B.Q.

Sampling Location: LW1

Date & Time of Sampling: 26/05/2022

Suite:

Sample Type: Leachate

Weather: Dry, Overcast

Air Pressure (mm Hg): 761.3

Low Flow Sampling Setup Details (If K>0.2m/d then fill/dischg. ~ 4 to 8 sec each; if K<0.2m/d then fill 20 to 30 sec & dischg. ~8 sec)

Hydraulic Conductivity (m/d)	
Ground Level (mOD)	
Datum Level (mOD)	
Datum (D)	Top of 2 inch pipe
Rest Water Level: Date: 26/05/2022; & Time:	09.46
Rest Water Level (mbD) (RWL)	8.85
Min GWL Record (mbD)	
Top of Screen (mbD)	
Total Depth Dip (mbD)	
Calc. Screen length below RWL (m)	
Actual Pump Intake Installation Depth (mbD)	
Pump Type, length and intake location	Solinst pump, 0.71m @base,

Field Parameter Record: (Record Every 3 to 5 mins: Stabilisation = all params stable for 3 successive readings)

Stabilisation Criteria:

- Water Quality: +/-0.1 pH units; +/-3% EC; +/-10mV for ORP; +/-10% D.O;
- Level & Flow: Groundwater Level Drawdown <0.1m; Flow Rate 0.1 to 0.5 l/min

Time	T (°C)	pH [-]	EC μ S/cm	ORP (mV)	D.O. (mg/l O ₂)	D.O. (% Sat)	Water Level (mbD)	Flow Rate (l/min)	Fill Time (Sec)	Discharge Time (Sec)
09.52	11.6	6.67	2497		3.9	36	8.89	0.12		
09.55	11.4	6.67	2526		2.7	25	8.92			
09.58	11.5	6.67	2512		2.6	22	8.93			

Sample Details (record container type and volume; sample filtration (if any); sample preservation (if any), No. of bottle rinses (if any); and, required analysis for each container.)

Comments:

Some small black suspended matter in sample.
Slight greyish colour. Leachate odour.



Low Flow Water Quality Sampling Record Sheet

Project Name: Kilsheelan Landfill

Sampled By: G.S. & B.Q.

Sampling Location: LW2

Date & Time of Sampling: 25/05/2022

Suite:

Sample Type: Leachate

Weather: Dry, overcast

Air Pressure (mm Hg): 761.5

Low Flow Sampling Setup Details (If $K > 0.2\text{m/d}$ then fill/dischg. ~ 4 to 8 sec each; if $K < 0.2\text{m/d}$ then fill 20 to 30 sec & dischg. ~8 sec)

Hydraulic Conductivity (m/d)	
Ground Level (mOD)	
Datum Level (mOD)	
Datum (D)	Top of 2 inch pipe
Rest Water Level: Date: 26/05/2022; & Time:	10.15
Rest Water Level (mbD) (RWL)	6.30
Min GWL Record (mbD)	
Top of Screen (mbD)	
Total Depth Dip (mbD)	
Calc. Screen length below RWL (m)	
Actual Pump Intake Installation Depth (mbD)	
Pump Type, length and intake location	Solinst pump, 0.71m @base,

Field Parameter Record: (Record Every 3 to 5 mins: Stabilisation = all params stable for 3 successive readings)

Stabilisation Criteria:

- Water Quality: +/-0.1 pH units; +/-3% EC; +/-10mV for ORP; +/-10% D.O;
- Level & Flow: Groundwater Level Drawdown <0.1m; Flow Rate 0.1 to 0.5 l/min

Time	T (°C)	pH [-]	EC $\mu\text{S/cm}$	ORP (mV)	D.O. (mg/l O ₂)	D.O. (% Sat)	Water Level (mbD)	Flow Rate (l/min)	Fill Time (Sec)	Discharge Time (Sec)
10.19	12	6.51	2936		2.9	27	6.45	0.1		
10.22	12.1	6.60	2931		3.5	32	6.60			
10.25	12.1	6.63	2935		3.9	38	6.70			

Sample Details (record container type and volume; sample filtration (if any); sample preservation (if any), No. of bottle rinses (if any); and, required analysis for each container.)

Comments:

Very dirty & odorous sample.

Client: Tipperary County Council (Landfill)
 Tipperary County Council
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 Limerick Road
 Nenagh
 Tipperary
 IRELAND

Certificate Code: AR-22-M3-008447-01

Page Number: Page 1 of 4

PO reference:

Certificate of Analysis

Sample number	966-2022-00011417	Received on	27/04/2022
Your sample reference	GW2 Kilsheelan	Analysis started on	28/04/2022
Sample Matrix	Ground water		
Additional Information	Satisfactory	Sample Date	27/04/2022
Time Sampled	11:15		

Test Code Analyte	SUB ⁵ Analysis Started	Method	LOQ ³	SPEC ²	Result	Units	ACCRED ⁴
Sulphate mg/L - Gallery [M300N]							
Sulphate mg/L - Gallery	29/04/22 12:49	EW175	1		59.345	mg/l	CN
Phosphate (Ortho/MRP) as P - Gallery [M300P]							
Phosphate (Ortho/MRP) as P - Gallery	29/04/22 12:49	EW175	0.05		<0.05	mg/l	CN
Chloride mg/L - Gallery [M300S]							
Chloride mg/L - Gallery	29/04/22 12:49	EW175	5		53.575	mg/l	CN
Total Oxidised Nitrogen (TON) as N - Gallery [M300U]							
Total Oxidised Nitrogen (TON) as N - Gallery	29/04/22 12:49	EW175	1		7.298	mg/l	CN
Ammonia as N - Gallery [M300Z]							
Ammonia as N - Gallery	29/04/22 12:49	EW175	0.05		1.96	mg/l	
VOC Full Suite [M3023]							
1,1,1,2-Tetrachloroethane	* 09/05/22 16:24		2		< 0.20	µg/l	
1,1,1-Trichloroethane	* 09/05/22 16:24		0.5		< 0.10	µg/l	
1,1,2-Trichloroethane	* 09/05/22 16:24		0.5		< 0.1	µg/l	
1,1-Dichloroethane	* 09/05/22 16:24		1		< 0.10	µg/l	
1,1-Dichloroethene	* 09/05/22 16:24		0.5		< 0.10	µg/l	
1,1-Dichloropropene	* 09/05/22 16:24		0.5		< 0.10	µg/l	
1,2,3-Trichlorobenzene	* 09/05/22 16:24		0.5		< 0.20	µg/l	
1,2,3-Trichloropropane	* 09/05/22 16:24		2		< 5	µg/l	
1,2,4-Trichlorobenzene	* 09/05/22 16:24		0.5		< 0.10	µg/l	
1,2,4-Trimethylbenzene	* 09/05/22 16:24		0.5		< 0.10	µg/l	
1,2-Dibromo-3-chloropropane	* 09/05/22 16:24		2		< 5	µg/l	
1,2-Dibromoethane	* 09/05/22 16:24		0.5		< 0.50	µg/l	

Signed:



Niamh Ward -

09/05/2022

NOTES

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Certificate Code: AR-22-M3-008447-01

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PO reference:

1,2-dichlorobenzene	*	09/05/22 16:24	0.5	< 0.10	µg/l
1,2-Dichloroethane	*	09/05/22 16:24	0.1	< 0.20	µg/l
1,2-Dichloropropane	*	09/05/22 16:24	0.5	< 0.10	µg/l
1,3,5-Trimethylbenzene	*	09/05/22 16:24	0.5	< 0.10	µg/l
1,3-Dichlorobenzene	*	09/05/22 16:24	0.5	< 0.10	µg/l
1,3-Dichloropropane	*	09/05/22 16:24	0.5	< 0.20	µg/l
1,4-dichlorobenzene	*	09/05/22 16:24	0.5	< 0.10	µg/l
1-Chlorobutane	*	09/05/22 16:24	5	< 1.0	µg/l
2,2-Dichloropropane	*	09/05/22 16:24	0.5	< 1.0	µg/l
2-Butanone (butanone)	*	09/05/22 16:24	5	< 1.0	µg/l
2-Chlorotoluene	*	09/05/22 16:24	0.5	< 0.10	µg/l
2-Hexanone	*	09/05/22 16:24	1	< 1.0	µg/l
4-Chlorotoluene	*	09/05/22 16:24	0.5	< 0.10	µg/l
Acetone	*	09/05/22 16:24	2	< 1.0	µg/l
Benzene	*	09/05/22 16:24	0.1	< 0.10	µg/l
Bromobenzene	*	09/05/22 16:24	0.5	< 0.10	µg/l
Bromochloromethane	*	09/05/22 16:24	0.5	< 0.50	µg/l
Bromodichloromethane	*	09/05/22 16:24	2	< 0.50	µg/l
Bromoform	*	09/05/22 16:24	1	< 1.0	µg/l
Bromomethane	*	09/05/22 16:24	0.5	< 2.0	µg/l
Carbon tetrachloride	*	09/05/22 16:24	0.5	< 1.0	µg/l
Carbondisulphide (CS ₂)	*	09/05/22 16:24	0.5	< 50	µg/l
Chlorobenzene	*	09/05/22 16:24	0.5	< 0.10	µg/l
Chloroform	*	09/05/22 16:24	1	< 1.0	µg/l
Chloromethane	*	09/05/22 16:24	0.5	< 0.10	µg/l
cis-1,2-Dichloroethene	*	09/05/22 16:24	0.5	< 0.10	µg/l
cis-1,3-Dichloropropene	*	09/05/22 16:24	2	< 1.0	µg/l
Dibromochloromethane	*	09/05/22 16:24	1	< 1.0	µg/l
Dibromomethane	*	09/05/22 16:24	0.5	< 0.10	µg/l
Dichlorodifluoromethane	*	09/05/22 16:24	10	< 0.10	µg/l
Dichloromethane	*	09/05/22 16:24	5	< 50	µg/l
Diethylether	*	09/05/22 16:24	0.5	< 1.0	µg/l
Epichlorhydrin	*	09/05/22 16:24	0.1	< 5	µg/l

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09/05/2022

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**ENVIRONMENTAL LABORATORY SERVICES**
EXCELLENCE THROUGH ACCREDITATION**Client:** Tipperary County Council (Landfill)
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IRELAND**Certificate Code:** AR-22-M3-008447-01**Page Number:** Page 3 of 4**PO reference:**

Ethyl Chloride	* 09/05/22 16:24		0.5	< 0.20	µg/l	
Ethylbenzene	* 09/05/22 16:24		0.5	< 0.10	µg/l	
Hexachlorobutadiene	* 09/05/22 16:24		0.5	< 0.10	µg/l	
Hexachloroethane	* 09/05/22 16:24		5	< 1.0	µg/l	
Isopropylbenzene (Cumene)	* 09/05/22 16:24		0.5	< 0.10	µg/l	
m-/p-Xylene	* 09/05/22 16:24		0.5	< 0.10	µg/l	
Methylmethacrylate	* 09/05/22 16:24		0.5	< 0.20	µg/l	
Methyl-tert-butylether (MTBE)	* 09/05/22 16:24		0.5	< 0.10	µg/l	
MIBK/4 Methyl 2 Pentanone	* 09/05/22 16:24		2	< 1.0	µg/l	
Naphthalene	* 09/05/22 16:24		2	< 0.10	µg/l	
n-Butylbenzene	* 09/05/22 16:24		0.5	< 0.10	µg/l	
o-Xylene	* 09/05/22 16:24		0.5	< 0.10	µg/l	
p-Isopropyltoluene	* 09/05/22 16:24		0.5	< 0.10	µg/l	
Propylbenzene	* 09/05/22 16:24		0.5	< 0.10	µg/l	
sec-Butylbenzene	* 09/05/22 16:24		0.5	< 0.10	µg/l	
Styrene	* 09/05/22 16:24		2	< 0.10	µg/l	
tert-Butylbenzene	* 09/05/22 16:24		0.5	< 0.10	µg/l	
Tetrachloroethene	* 09/05/22 16:24		0.1	< 0.10	µg/l	
Tetrahydrofuran	* 09/05/22 16:24		5	< 1.0	µg/l	
Toluene	* 09/05/22 16:24		0.5	< 0.10	µg/l	
trans-1,2-Dichloroethene	* 09/05/22 16:24		0.5	< 0.10	µg/l	
trans-1,3-Dichloropropene	* 09/05/22 16:24		2	< 1.0	µg/l	
Trans-1,4-dichloro-2-butene (2)	* 09/05/22 16:24		2	< 1.0	µg/l	
Trichloroethene	* 09/05/22 16:24		0.1	< 0.10	µg/l	
Trichloromonofluoromethane	* 09/05/22 16:24		0.5	< 0.10	µg/l	
Vinyl chloride	* 09/05/22 16:24		0.5	< 0.10	µg/l	
Aluminium - Dissolved [M3157]						
Aluminium	29/04/22 12:48	EW188		<5	µg/l	CN
Arsenic - Dissolved [M3159]						
Arsenic	29/04/22 12:48	EW188		<0.2	µg/l	CN
Barium - Dissolved [M3160]						
Barium (Ba)	29/04/22 12:48	EW188	1.77	56.552	µg/l	CN
Boron - Dissolved [M3163]						

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09/05/2022

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IRELAND**Certificate Code:** AR-22-M3-008447-01**Page Number:** Page 4 of 4**PO reference:**

Boron (B)	29/04/22 12:48	EW188	0.21	1.008	mg/l	CN
Calcium - Dissolved [M3165]						
Calcium (Ca)	29/04/22 12:48	EW188	1.08	177.76	mg/l	
Copper - Dissolved [M3168]						
Copper (Cu)	29/04/22 12:48	EW188	0.6	<0.6	mg/l	CN
Iron - Dissolved [M3172]						
Iron (Fe)	29/04/22 12:48	EW188	5	6.174	µg/l	CN
Lead - Dissolved [M3173]						
Lead (Pb)	29/04/22 12:48	EW188	0.51	<0.51	µg/l	CN
Magnesium - Dissolved [M3174]						
Magnesium (Mg)	29/04/22 12:48	EW188	1.11	36.492	mg/l	CN
Manganese - Dissolved [M3175]						
Manganese (Mn)	29/04/22 12:48	EW188		28.448	µg/l	CN
Nickel - Dissolved [M3178]						
Nickel (Ni)	29/04/22 12:48	EW188		3.178	µg/l	CN
Potassium - Dissolved [M3180]						
Potassium (K)	29/04/22 12:48	EW188	0.15	21.013	mg/l	
Zinc - Dissolved [M3194]						
Zinc (Zn)	29/04/22 12:48	EW188		58.664	µg/l	CN
Chromium-Total [M3206]						
Chromium-Total	29/04/22 12:53	EW187	3	<3	µg/l	
pH [M3282]						
pH	28/04/22 15:37 ^{7A}	EW158		6.7		
Conductivity [M3283]						
Conductivity	28/04/22 15:37	EW153	100	1139	µS/cm	CN

⁴ Accreditation Information

CN: ISO/IEC 17025:2017 INAB 111-T

Signed: _____

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09/05/2022

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Client: Tipperary County Council (Landfill)
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 Tipperary
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Certificate Code: AR-22-M3-008448-01

Page Number: Page 1 of 4

PO reference:

Certificate of Analysis

Sample number	966-2022-00011418	Received on	27/04/2022
Your sample reference	GW3 Kilsheelan	Analysis started on	28/04/2022
Sample Matrix	Ground water		
Additional Information	Satisfactory	Sample Date	27/04/2022
Time Sampled	12:45		

Test Code Analyte	SUB ⁵ Analysis Started	Method	LOQ ³	SPEC ²	Result	Units	ACCRED ⁴
Sulphate mg/L - Gallery [M300N]							
Sulphate mg/L - Gallery	29/04/22 12:49	EW175	1		20.078	mg/l	CN
Phosphate (Ortho/MRP) as P - Gallery [M300P]							
Phosphate (Ortho/MRP) as P - Gallery	29/04/22 12:49	EW175	0.05		<0.05	mg/l	CN
Chloride mg/L - Gallery [M300S]							
Chloride mg/L - Gallery	29/04/22 12:49	EW175	5		20.136	mg/l	CN
Total Oxidised Nitrogen (TON) as N - Gallery [M300U]							
Total Oxidised Nitrogen (TON) as N - Gallery	29/04/22 12:49	EW175	1		9.113	mg/l	CN
Ammonia as N - Gallery [M300Z]							
Ammonia as N - Gallery	29/04/22 12:49	EW175	0.05		<0.05	mg/l	CN
VOC Full Suite [M3023]							
1,1,1,2-Tetrachloroethane	* 09/05/22 16:26		2		< 0.20	µg/l	
1,1,1-Trichloroethane	* 09/05/22 16:26		0.5		< 0.10	µg/l	
1,1,2-Trichloroethane	* 09/05/22 16:26		0.5		< 0.1	µg/l	
1,1-Dichloroethane	* 09/05/22 16:26		1		< 0.10	µg/l	
1,1-Dichloroethene	* 09/05/22 16:26		0.5		< 0.10	µg/l	
1,1-Dichloropropene	* 09/05/22 16:26		0.5		< 0.10	µg/l	
1,2,3-Trichlorobenzene	* 09/05/22 16:26		0.5		< 0.20	µg/l	
1,2,3-Trichloropropane	* 09/05/22 16:26		2		< 5	µg/l	
1,2,4-Trichlorobenzene	* 09/05/22 16:26		0.5		< 0.10	µg/l	
1,2,4-Trimethylbenzene	* 09/05/22 16:26		0.5		< 0.10	µg/l	
1,2-Dibromo-3-chloropropane	* 09/05/22 16:26		2		< 5	µg/l	
1,2-Dibromoethane	* 09/05/22 16:26		0.5		< 0.50	µg/l	

Signed:



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09/05/2022

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1,2-dichlorobenzene	*	09/05/22 16:26	0.5	< 0.10	µg/l
1,2-Dichloroethane	*	09/05/22 16:26	0.1	< 0.20	µg/l
1,2-Dichloropropane	*	09/05/22 16:26	0.5	< 0.10	µg/l
1,3,5-Trimethylbenzene	*	09/05/22 16:26	0.5	< 0.10	µg/l
1,3-Dichlorobenzene	*	09/05/22 16:26	0.5	< 0.10	µg/l
1,3-Dichloropropane	*	09/05/22 16:26	0.5	< 0.20	µg/l
1,4-dichlorobenzene	*	09/05/22 16:26	0.5	< 0.10	µg/l
1-Chlorobutane	*	09/05/22 16:26	5	< 1.0	µg/l
2,2-Dichloropropane	*	09/05/22 16:26	0.5	< 1.0	µg/l
2-Butanone (butanone)	*	09/05/22 16:26	5	< 1.0	µg/l
2-Chlorotoluene	*	09/05/22 16:26	0.5	< 0.10	µg/l
2-Hexanone	*	09/05/22 16:26	1	< 1.0	µg/l
4-Chlorotoluene	*	09/05/22 16:26	0.5	< 0.10	µg/l
Acetone	*	09/05/22 16:26	2	< 1.0	µg/l
Benzene	*	09/05/22 16:26	0.1	< 0.10	µg/l
Bromobenzene	*	09/05/22 16:26	0.5	< 0.10	µg/l
Bromochloromethane	*	09/05/22 16:26	0.5	< 0.50	µg/l
Bromodichloromethane	*	09/05/22 16:26	2	< 0.50	µg/l
Bromoform	*	09/05/22 16:26	1	< 1.0	µg/l
Bromomethane	*	09/05/22 16:26	0.5	< 2.0	µg/l
Carbon tetrachloride	*	09/05/22 16:26	0.5	< 1.0	µg/l
Carbondisulphide (CS ₂)	*	09/05/22 16:26	0.5	< 50	µg/l
Chlorobenzene	*	09/05/22 16:26	0.5	< 0.10	µg/l
Chloroform	*	09/05/22 16:26	1	< 1.0	µg/l
Chloromethane	*	09/05/22 16:26	0.5	< 0.10	µg/l
cis-1,2-Dichloroethene	*	09/05/22 16:26	0.5	< 0.10	µg/l
cis-1,3-Dichloropropene	*	09/05/22 16:26	2	< 1.0	µg/l
Dibromochloromethane	*	09/05/22 16:26	1	< 1.0	µg/l
Dibromomethane	*	09/05/22 16:26	0.5	< 0.10	µg/l
Dichlorodifluoromethane	*	09/05/22 16:26	10	< 0.10	µg/l
Dichloromethane	*	09/05/22 16:26	5	< 50	µg/l
Diethylether	*	09/05/22 16:26	0.5	< 1.0	µg/l
Epichlorhydrin	*	09/05/22 16:26	0.1	< 5	µg/l

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EXCELLENCE THROUGH ACCREDITATION**Client:** Tipperary County Council (Landfill)
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Ethyl Chloride	* 09/05/22 16:26		0.5	< 0.20	µg/l	
Ethylbenzene	* 09/05/22 16:26		0.5	< 0.10	µg/l	
Hexachlorobutadiene	* 09/05/22 16:26		0.5	< 0.10	µg/l	
Hexachloroethane	* 09/05/22 16:26		5	< 1.0	µg/l	
Isopropylbenzene (Cumene)	* 09/05/22 16:26		0.5	< 0.10	µg/l	
m-/p-Xylene	* 09/05/22 16:26		0.5	< 0.10	µg/l	
Methylmethacrylate	* 09/05/22 16:26		0.5	< 0.20	µg/l	
Methyl-tert-butylether (MTBE)	* 09/05/22 16:26		0.5	< 0.10	µg/l	
MIBK/4 Methyl 2 Pentanone	* 09/05/22 16:26		2	< 1.0	µg/l	
Naphthalene	* 09/05/22 16:26		2	< 0.10	µg/l	
n-Butylbenzene	* 09/05/22 16:26		0.5	< 0.10	µg/l	
o-Xylene	* 09/05/22 16:26		0.5	< 0.10	µg/l	
p-Isopropyltoluene	* 09/05/22 16:26		0.5	< 0.10	µg/l	
Propylbenzene	* 09/05/22 16:26		0.5	< 0.10	µg/l	
sec-Butylbenzene	* 09/05/22 16:26		0.5	< 0.10	µg/l	
Styrene	* 09/05/22 16:26		2	< 0.10	µg/l	
tert-Butylbenzene	* 09/05/22 16:26		0.5	< 0.10	µg/l	
Tetrachloroethene	* 09/05/22 16:26		0.1	< 0.10	µg/l	
Tetrahydrofuran	* 09/05/22 16:26		5	< 1.0	µg/l	
Toluene	* 09/05/22 16:26		0.5	< 0.10	µg/l	
trans-1,2-Dichloroethene	* 09/05/22 16:26		0.5	< 0.10	µg/l	
trans-1,3-Dichloropropene	* 09/05/22 16:26		2	< 1.0	µg/l	
Trans-1,4-dichloro-2-butene (2)	* 09/05/22 16:26		2	< 1.0	µg/l	
Trichloroethene	* 09/05/22 16:26		0.1	< 0.10	µg/l	
Trichloromonofluoromethane	* 09/05/22 16:26		0.5	< 0.10	µg/l	
Vinyl chloride	* 09/05/22 16:26		0.5	< 0.10	µg/l	
Aluminium - Dissolved [M3157]						
Aluminium	29/04/22 12:48	EW188		<5	µg/l	CN
Arsenic - Dissolved [M3159]						
Arsenic	29/04/22 12:48	EW188		<0.2	µg/l	CN
Barium - Dissolved [M3160]						
Barium (Ba)	29/04/22 12:48	EW188	1.77	40.843	µg/l	CN
Boron - Dissolved [M3163]						

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Boron (B)	29/04/22 12:48	EW188	0.21	<0.21	mg/l	CN
Calcium - Dissolved [M3165]						
Calcium (Ca)	29/04/22 12:48	EW188	1.08	130.112	mg/l	
Copper - Dissolved [M3168]						
Copper (Cu)	29/04/22 12:48	EW188	0.6	<0.6	mg/l	CN
Iron - Dissolved [M3172]						
Iron (Fe)	29/04/22 12:48	EW188	5	<5	µg/l	CN
Lead - Dissolved [M3173]						
Lead (Pb)	29/04/22 12:48	EW188	0.51	<0.51	µg/l	CN
Magnesium - Dissolved [M3174]						
Magnesium (Mg)	29/04/22 12:48	EW188	1.11	13.103	mg/l	CN
Manganese - Dissolved [M3175]						
Manganese (Mn)	29/04/22 12:48	EW188		4.429	µg/l	CN
Nickel - Dissolved [M3178]						
Nickel (Ni)	29/04/22 12:48	EW188		<0.5	µg/l	CN
Potassium - Dissolved [M3180]						
Potassium (K)	29/04/22 12:48	EW188	0.15	1.866	mg/l	CN
Zinc - Dissolved [M3194]						
Zinc (Zn)	29/04/22 12:48	EW188		7.026	µg/l	CN
Chromium-Total [M3206]						
Chromium-Total	29/04/22 12:53	EW187	3	4.2	µg/l	
pH [M3282]						
pH	28/04/22 15:37 ^{7A}	EW158		6.9		
Conductivity [M3283]						
Conductivity	28/04/22 15:37	EW153	100	649.2	µS/cm	CN

⁴ Accreditation Information

CN: ISO/IEC 17025:2017 INAB 111-T

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PO reference: 400368805

Certificate of Analysis

Sample number	966-2022-00015215	Received on	26/05/2022
Your sample reference	LW1 Kilsheelan	Analysis started on	27/05/2022
Sample Matrix	Waste water		
Additional Information	Satisfactory	Sample Date	26/05/2022
Time Sampled	10:10		

Test Code Analyte	SUB ⁵ Analysis Started	Method	LOQ ³	SPEC ²	Result	Units	ACCRED ⁴
Sulphate mg/L - Gallery [M300N]							
Sulphate mg/L - Gallery	31/05/22 09:06	EW175	1		<1	mg/l	CN
Phosphate (Ortho/MRP) as P - Gallery [M300P]							
Phosphate (Ortho/MRP) as P - Gallery	31/05/22 08:51 ^{7A}	EW175	0.05		0.602	mg/l	
Chloride mg/L - Gallery [M300S]							
Chloride mg/L - Gallery	31/05/22 08:51	EW175	5		41.438	mg/l	CN
Total Oxidised Nitrogen (TON) as N - Gallery [M300U]							
Total Oxidised Nitrogen (TON) as N - Gallery	31/05/22 09:06 ^{7A}	EW175	1		<1	mg/l	
Ammonia as N - Gallery [M300Z]							
Ammonia as N - Gallery	31/05/22 08:51	EW175	0.05		41.22	mg/l	
VOC Full Suite [M3023]							
1,1,1,2-Tetrachloroethane	* 15/06/22 11:42		2		< 0.20	µg/l	
1,1,1-Trichloroethane	* 15/06/22 11:42		0.5		< 0.10	µg/l	
1,1,2-Trichloroethane	* 15/06/22 11:42		0.5		< 0.1	µg/l	
1,1-Dichloroethane	* 15/06/22 11:42		1		< 0.10	µg/l	
1,1-Dichloroethene	* 15/06/22 11:42		0.5		< 0.10	µg/l	
1,1-Dichloropropene	* 15/06/22 11:42		0.5		< 0.10	µg/l	
1,2,3-Trichlorobenzene	* 15/06/22 11:42		0.5		< 0.20	µg/l	
1,2,3-Trichloropropane	* 15/06/22 11:42		2		< 5	µg/l	
1,2,4-Trichlorobenzene	* 15/06/22 11:42		0.5		< 0.10	µg/l	
1,2,4-Trimethylbenzene	* 15/06/22 11:42		0.5		< 0.10	µg/l	

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15/06/2022

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1,2-Dibromo-3-chloropropane	*	15/06/22 11:42	2	< 5	µg/l
1,2-Dibromoethane	*	15/06/22 11:42	0.5	< 0.50	µg/l
1,2-dichlorobenzene	*	15/06/22 11:42	0.5	< 0.10	µg/l
1,2-Dichloroethane	*	15/06/22 11:42	0.1	< 0.20	µg/l
1,2-Dichloropropane	*	15/06/22 11:42	0.5	< 0.10	µg/l
1,3,5-Trimethylbenzene	*	15/06/22 11:42	0.5	< 0.10	µg/l
1,3-Dichlorobenzene	*	15/06/22 11:42	0.5	< 0.10	µg/l
1,3-Dichloropropane	*	15/06/22 11:42	0.5	< 0.20	µg/l
1,4-dichlorobenzene	*	15/06/22 11:42	0.5	< 0.10	µg/l
1-Chlorobutane	*	15/06/22 11:42	5	< 1.0	µg/l
2,2-Dichloropropane	*	15/06/22 11:42	0.5	< 1.0	µg/l
2-Butanone (butanone)	*	15/06/22 11:42	5	< 1.0	µg/l
2-Chlorotoluene	*	15/06/22 11:42	0.5	< 0.10	µg/l
2-Hexanone	*	15/06/22 11:42	1	< 1.0	µg/l
4-Chlorotoluene	*	15/06/22 11:42	0.5	< 0.10	µg/l
Acetone	*	15/06/22 11:42	2	< 1.0	µg/l
Benzene	*	15/06/22 11:42	0.1	< 0.10	µg/l
Bromobenzene	*	15/06/22 11:42	0.5	< 0.10	µg/l
Bromochloromethane	*	15/06/22 11:42	0.5	< 0.50	µg/l
Bromodichloromethane	*	15/06/22 11:42	2	< 0.50	µg/l
Bromoform	*	15/06/22 11:42	1	< 1.0	µg/l
Bromomethane	*	15/06/22 11:42	0.5	< 2.0	µg/l
Carbon tetrachloride	*	15/06/22 11:42	0.5	< 1.0	µg/l
Carbondisulphide (CS ₂)	*	15/06/22 11:42	0.5	< 50	µg/l
Chlorobenzene	*	15/06/22 11:42	0.5	< 0.10	µg/l
Chloroform	*	15/06/22 11:42	1	< 1.0	µg/l
Chloromethane	*	15/06/22 11:42	0.5	< 0.10	µg/l
cis-1,2-Dichloroethene	*	15/06/22 11:42	0.5	< 0.10	µg/l
cis-1,3-Dichloropropene	*	15/06/22 11:42	2	< 1.0	µg/l
Dibromochloromethane	*	15/06/22 11:42	1	< 1.0	µg/l
Dibromomethane	*	15/06/22 11:42	0.5	< 0.10	µg/l

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Dichlorodifluoromethane	* 15/06/22 11:42	10	< 0.10	µg/l
Dichloromethane	* 15/06/22 11:42	5	< 50	µg/l
Diethylether	* 15/06/22 11:42	0.5	< 1.0	µg/l
Epichlorhydrin	* 15/06/22 11:42	0.1	< 5	µg/l
Ethyl Chloride	* 15/06/22 11:42	0.5	< 0.20	µg/l
Ethylbenzene	* 15/06/22 11:42	0.5	< 0.10	µg/l
Hexachlorobutadiene	* 15/06/22 11:42	0.5	< 0.10	µg/l
Hexachloroethane	* 15/06/22 11:42	5	< 1.0	µg/l
Isopropylbenzene (Cumene)	* 15/06/22 11:42	0.5	< 0.10	µg/l
m-/p-Xylene	* 15/06/22 11:42	0.5	< 0.10	µg/l
Methylmethacrylate	* 15/06/22 11:42	0.5	< 0.20	µg/l
Methyl-tert-butylether (MTBE)	* 15/06/22 11:42	0.5	< 0.10	µg/l
MIBK/4 Methyl 2 Pentanone	* 15/06/22 11:42	2	< 1.0	µg/l
Naphthalene	* 15/06/22 11:42	2	< 0.10	µg/l
n-Butylbenzene	* 15/06/22 11:42	0.5	< 0.10	µg/l
o-Xylene	* 15/06/22 11:42	0.5	< 0.10	µg/l
p-Isopropyltoluene	* 15/06/22 11:42	0.5	< 0.10	µg/l
Propylbenzene	* 15/06/22 11:42	0.5	< 0.10	µg/l
sec-Butylbenzene	* 15/06/22 11:42	0.5	< 0.10	µg/l
Styrene	* 15/06/22 11:42	2	< 0.10	µg/l
tert-Butylbenzene	* 15/06/22 11:42	0.5	< 0.10	µg/l
Tetrachloroethene	* 15/06/22 11:42	0.1	< 0.10	µg/l
Tetrahydrofuran	* 15/06/22 11:42	5	< 1.0	µg/l
Toluene	* 15/06/22 11:42	0.5	< 0.10	µg/l
trans-1,2-Dichloroethene	* 15/06/22 11:42	0.5	< 0.10	µg/l
trans-1,3-Dichloropropene	* 15/06/22 11:42	2	< 1.0	µg/l
Trans-1,4-dichloro-2-butene (2)	* 15/06/22 11:42	2	< 1.0	µg/l
Trichloroethene	* 15/06/22 11:42	0.1	< 0.10	µg/l
Trichloromonofluoromethane	* 15/06/22 11:42	0.5	< 0.10	µg/l
Vinyl chloride	* 15/06/22 11:42	0.5	< 0.10	µg/l

Aluminium-Total [M3198]

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Aluminium-Total	03/06/22 11:36	EW187	15	641.5	µg/l	CN
Arsenic-Total [M3200]						
Arsenic-Total	03/06/22 11:36	EW187	0.6	3.0	µg/l	CN
Barium-Total [M3201]						
Barium-Total	03/06/22 11:36	EW187		1148.8	µg/l	
Boron-Total [M3203]						
Boron-Total	03/06/22 11:36	EW187		3	mg/l	CN
Calcium-Total [M3205]						
Calcium-Total	03/06/22 11:36	EW187		289.5	mg/l	CN
Chromium-Total [M3206]						
Chromium-Total	03/06/22 11:36	EW187	3	6.30	µg/l	CN
Copper-Total [M3208]						
Copper-Total	03/06/22 11:36	EW187		<1.8	mg/l	CN
Iron-Total [M3209]						
Iron-Total	03/06/22 11:36	EW187		21070.816	µg/l	CN
Lead-Total [M3210]						
Lead-Total	03/06/22 11:36	EW187	0.9	19.4	µg/l	CN
Magnesium-Total [M3211]						
Magnesium-Total	03/06/22 11:36	EW187		131.8	mg/l	CN
Manganese-Total [M3212]						
Manganese-Total	03/06/22 11:36	EW187	3	1024.4	µg/l	
Nickel-Total [M3215]						
Nickel-Total	03/06/22 11:36	EW187	1.5	4.50	µg/l	CN
Potassium-Total [M3217]						
Potassium-Total	03/06/22 11:36	EW187		70.5	mg/l	CN
Zinc-Total [M3233]						
Zinc-Total	03/06/22 11:36	EW187	20	63	µg/l	CN
Conductivity [M3283]						
Conductivity	27/05/22 14:56	EW153	100	2187	µS/cm	CN

⁴ Accreditation Information

CN: ISO/IEC 17025:2017 INAB 111-T

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Tipperary County Council
Civic Offices
Limerick Road
Nenagh
Tipperary
IRELAND

Certificate Code: AR-22-M3-012056-01

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PO reference: 400368805

Certificate of Analysis

Sample number	966-2022-00015216	Received on	26/05/2022
Your sample reference	LW2 Kilsheelan	Analysis started on	27/05/2022
Sample Matrix	Waste water		
Additional Information	Satisfactory	Sample Date	26/05/2022
Time Sampled	10:35		

Test Code Analyte	SUB ⁵ Analysis Started	Method	LOQ ³	SPEC ²	Result	Units	ACCRED ⁴
Sulphate mg/L - Gallery [M300N]							
Sulphate mg/L - Gallery	31/05/22 09:06	EW175	1		1045.641	mg/l	
Phosphate (Ortho/MRP) as P - Gallery [M300P]							
Phosphate (Ortho/MRP) as P - Gallery	31/05/22 08:51 ^{7A}	EW175	0.05		0.2	mg/l	
Chloride mg/L - Gallery [M300S]							
Chloride mg/L - Gallery	31/05/22 08:51	EW175	5		26.1	mg/l	CN
Total Oxidised Nitrogen (TON) as N - Gallery [M300U]							
Total Oxidised Nitrogen (TON) as N - Gallery	31/05/22 09:06 ^{7A}	EW175	1		9.859	mg/l	
Ammonia as N - Gallery [M300Z]							
Ammonia as N - Gallery	31/05/22 08:51	EW175	0.05		13.28	mg/l	
VOC Full Suite [M3023]							
1,1,1,2 Tetrachloroethane	* 15/06/22 11:42		2		< 0.20	µg/l	
1,1,1-Trichloroethane	* 15/06/22 11:42		0.5		< 0.10	µg/l	
1,1,2-Trichloroethane	* 15/06/22 11:42		0.5		< 0.1	µg/l	
1,1-Dichloroethane	* 15/06/22 11:42		1		< 0.10	µg/l	
1,1-Dichloroethene	* 15/06/22 11:42		0.5		< 0.10	µg/l	
1,1-Dichloropropene	* 15/06/22 11:42		0.5		< 0.10	µg/l	
1,2,3-Trichlorobenzene	* 15/06/22 11:42		0.5		< 0.20	µg/l	
1,2,3-Trichloropropane	* 15/06/22 11:42		2		< 5	µg/l	
1,2,4-Trichlorobenzene	* 15/06/22 11:42		0.5		< 0.10	µg/l	
1,2,4-Trimethylbenzene	* 15/06/22 11:42		0.5		< 0.10	µg/l	

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1,2-Dibromo-3-chloropropane	*	15/06/22 11:42	2	< 5	µg/l
1,2-Dibromoethane	*	15/06/22 11:42	0.5	< 0.50	µg/l
1,2-dichlorobenzene	*	15/06/22 11:42	0.5	< 0.10	µg/l
1,2-Dichloroethane	*	15/06/22 11:42	0.1	< 0.20	µg/l
1,2-Dichloropropane	*	15/06/22 11:42	0.5	< 0.10	µg/l
1,3,5-Trimethylbenzene	*	15/06/22 11:42	0.5	< 0.10	µg/l
1,3-Dichlorobenzene	*	15/06/22 11:42	0.5	< 0.10	µg/l
1,3-Dichloropropane	*	15/06/22 11:42	0.5	< 0.20	µg/l
1,4-dichlorobenzene	*	15/06/22 11:42	0.5	< 0.10	µg/l
1-Chlorobutane	*	15/06/22 11:42	5	< 1.0	µg/l
2,2-Dichloropropane	*	15/06/22 11:42	0.5	< 1.0	µg/l
2-Butanone (butanone)	*	15/06/22 11:42	5	< 1.0	µg/l
2-Chlorotoluene	*	15/06/22 11:42	0.5	< 0.10	µg/l
2-Hexanone	*	15/06/22 11:42	1	< 1.0	µg/l
4-Chlorotoluene	*	15/06/22 11:42	0.5	< 0.10	µg/l
Acetone	*	15/06/22 11:42	2	< 1.0	µg/l
Benzene	*	15/06/22 11:42	0.1	< 0.10	µg/l
Bromobenzene	*	15/06/22 11:42	0.5	< 0.10	µg/l
Bromochloromethane	*	15/06/22 11:42	0.5	< 0.50	µg/l
Bromodichloromethane	*	15/06/22 11:42	2	< 0.50	µg/l
Bromoform	*	15/06/22 11:42	1	< 1.0	µg/l
Bromomethane	*	15/06/22 11:42	0.5	< 2.0	µg/l
Carbon tetrachloride	*	15/06/22 11:42	0.5	< 1.0	µg/l
Carbondisulphide (CS2)	*	15/06/22 11:42	0.5	< 50	µg/l
Chlorobenzene	*	15/06/22 11:42	0.5	< 0.10	µg/l
Chloroform	*	15/06/22 11:42	1	< 1.0	µg/l
Chloromethane	*	15/06/22 11:42	0.5	< 0.10	µg/l
cis-1,2-Dichloroethene	*	15/06/22 11:42	0.5	< 0.10	µg/l
cis-1,3-Dichloropropene	*	15/06/22 11:42	2	< 1.0	µg/l
Dibromochloromethane	*	15/06/22 11:42	1	< 1.0	µg/l
Dibromomethane	*	15/06/22 11:42	0.5	< 0.10	µg/l

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Dichlorodifluoromethane	*	15/06/22 11:42	10	< 0.10	µg/l
Dichloromethane	*	15/06/22 11:42	5	< 50	µg/l
Diethylether	*	15/06/22 11:42	0.5	< 1.0	µg/l
Epichlorhydrin	*	15/06/22 11:42	0.1	< 5	µg/l
Ethyl Chloride	*	15/06/22 11:42	0.5	< 0.20	µg/l
Ethylbenzene	*	15/06/22 11:42	0.5	< 0.10	µg/l
Hexachlorobutadiene	*	15/06/22 11:42	0.5	< 0.10	µg/l
Hexachloroethane	*	15/06/22 11:42	5	< 1.0	µg/l
Isopropylbenzene (Cumene)	*	15/06/22 11:42	0.5	< 0.10	µg/l
m-/p-Xylene	*	15/06/22 11:42	0.5	< 0.10	µg/l
Methylmethacrylate	*	15/06/22 11:42	0.5	< 0.20	µg/l
Methyl-tert-butylether (MTBE)	*	15/06/22 11:42	0.5	< 0.10	µg/l
MIBK/4 Methyl 2 Pentanone	*	15/06/22 11:42	2	< 1.0	µg/l
Naphthalene	*	15/06/22 11:42	2	< 0.10	µg/l
n-Butylbenzene	*	15/06/22 11:42	0.5	< 0.10	µg/l
o-Xylene	*	15/06/22 11:42	0.5	< 0.10	µg/l
p-Isopropyltoluene	*	15/06/22 11:42	0.5	< 0.10	µg/l
Propylbenzene	*	15/06/22 11:42	0.5	< 0.10	µg/l
sec-Butylbenzene	*	15/06/22 11:42	0.5	< 0.10	µg/l
Styrene	*	15/06/22 11:42	2	< 0.10	µg/l
tert-Butylbenzene	*	15/06/22 11:42	0.5	< 0.10	µg/l
Tetrachloroethene	*	15/06/22 11:42	0.1	< 0.10	µg/l
Tetrahydrofuran	*	15/06/22 11:42	5	< 1.0	µg/l
Toluene	*	15/06/22 11:42	0.5	< 0.10	µg/l
trans-1,2-Dichloroethene	*	15/06/22 11:42	0.5	< 0.10	µg/l
trans-1,3-Dichloropropene	*	15/06/22 11:42	2	< 1.0	µg/l
Trans-1,4-dichloro-2-butene (2)	*	15/06/22 11:42	2	< 1.0	µg/l
Trichloroethene	*	15/06/22 11:42	0.1	< 0.10	µg/l
Trichloromonofluoromethane	*	15/06/22 11:42	0.5	< 0.10	µg/l
Vinyl chloride	*	15/06/22 11:42	0.5	< 0.10	µg/l

Aluminium-Total [M3198]

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Aluminium-Total	03/06/22 11:36	EW187	15	990.3	µg/l	CN
Arsenic-Total [M3200]						
Arsenic-Total	03/06/22 11:36	EW187	0.6	10	µg/l	CN
Barium-Total [M3201]						
Barium-Total	03/06/22 11:36	EW187		181	µg/l	CN
Boron-Total [M3203]						
Boron-Total	03/06/22 11:36	EW187		1.3	mg/l	CN
Calcium-Total [M3205]						
Calcium-Total	03/06/22 11:36	EW187		559.2	mg/l	CN
Chromium-Total [M3206]						
Chromium-Total	03/06/22 11:36	EW187	3	8.10	µg/l	CN
Copper-Total [M3208]						
Copper-Total	03/06/22 11:36	EW187		<1.8	mg/l	CN
Iron-Total [M3209]						
Iron-Total	03/06/22 11:36	EW187		21065.859	µg/l	CN
Lead-Total [M3210]						
Lead-Total	03/06/22 11:36	EW187	0.9	60.6	µg/l	CN
Magnesium-Total [M3211]						
Magnesium-Total	03/06/22 11:36	EW187		144	mg/l	CN
Manganese-Total [M3212]						
Manganese-Total	03/06/22 11:36	EW187	3	1490.1	µg/l	CN
Nickel-Total [M3215]						
Nickel-Total	03/06/22 11:36	EW187	1.5	22.50	µg/l	CN
Potassium-Total [M3217]						
Potassium-Total	03/06/22 11:36	EW187		37.3	mg/l	CN
Zinc-Total [M3233]						
Zinc-Total	03/06/22 11:36	EW187	20	210	µg/l	CN
Conductivity [M3283]						
Conductivity	27/05/22 14:56	EW153	100	2593	µS/cm	CN

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