Leitrim County Council

2008 Annual Environmental Report

for

Mohill Landfill

WL 0065-1

MOHILL LANDFILL
WASTE LICENCE W0065-01

ANNUAL ENVIRONMENTAL REPORT 2008

1. Reporting Period

1st January 2008 – 31st December 2008

2. Waste Activities Carried out at the Facility

The facility is licensed under the Waste Management Acts 1996 to 2003 under Class 1, 4, and 13 of the third Schedule and Class 13 of the fourth Schedule of the 1996 Act. The disposal of municipal waste and non-hazardous industrial wastes ceased on 30th April 2002. Selected soil and boulder clay waste only from local construction projects was used in the capping and restoration of the landfill.

A Civic Amenity Recycling Facility has been built on a site between the public road and the landfill and is fully operational. This recycling centre is open to the public on Wednesdays and Saturdays and provides a full range collection of household recyclables.

3. Quantity and Composition of Waste Received for capping/restoration during the reporting period and each previous year.

No municipal waste and non-hazardous industrial waste was received or disposed of at this facility as per condition 1.4 of Waste Licence W0065-01 during the reporting period.

No clays were used as capping in the reporting period. Capping completed in the previous reporting period.

4 and 5. Summary Report on Emissions and Summary of results and interpretation of environmental monitoring

Please see attached spreadsheet, which trends results for various parameters required to be monitored and analysed as per Waste Licence W0065-01. Results of monitoring of all emissions required by licence W0065-01 for the reporting period are contained in Appendix 1.

6. Resource and Energy Consumption Summary

There was no resource or energy consumption associated with waste activities at this landfill site during the reporting period. The Civic amenity site is connected to mains ESB supply for the day to day running of the recycling activity.

7. Volume of leachate produced and volume transported/discharged off-site

The leachate collection system is complete and piped to the Mohill town foul sewer.

Leitrim County Council have budgeted to allow for monitoring of the landfill in accordance with the requirements of the license. Staff resources are allocated towards carrying out and overseeing this work

16. Other items Specified by the Agency

There are no other items specified by the Agency for inclusion in this Report

2008 Quarterly Test Events at Mohill Landfill - Groundwater

Note - **It was not possible to sample from MW-03 as this borehole has been damaged**

Ground water level (Metres) at each sampling location

Date	22-Jan-08	15-May-08	15-Jul-08	20-Oct-08
MW 03				
MW 05 - S	2.7	2.0	3.2	0.5
MW 05 - D	3.3	2.7	5.2	2
MW 06 - S	1.8	1.1	2.3	2.9
MW 06 - D	4.5	3.1	4.0	1
MW 08 - S	2.6	4.0	2.6	1.3
MW 08 - D	4.2	1.5	2.2	3.1

Ammonia Nitrogen (mg/l N) at each sampling location

Date	22-Jan-08	15-May-08	15-Jul-08	20-Oct-08
EPA GW Interim Guideline Value	0.15	0.15	0.15	0.15
MW 03				
MW 05 - S	0.09	<0.09	<0.09	0.1
MW 05 - D	<0.09	<0.09	**0.56**	**0.25**
MW 06 - S	**0.24**	<0.09	<0.09	**0.41**
MW 06 - D	**0.47**	<0.09	<0.09	**3**
MW 08 - S	<0.09	<0.09	<0.09	**2.3**
MW 08 - D	**0.27**	<0.09	0.10	<0.06

2008 Quarterly Test Events at Mohill Landfill - Groundwater

Conductivity (υS/cm) at each sampling location

Date	22-Jan-08	15-May-08	15-Jul-08	20-Oct-08
EPA Guideline	1000	1000	1000	1000
MW 03				
MW 05 - S	662	641	684	686
MW 05 - D	891	988	964	**1012**
MW 06 - S	664	663	668	966
MW 06 - D	1191	**1068**	**1006**	666
MW 08 - S	840	814	918	**1058**
MW 08 - D	633	**1076**	**1445**	979

* Possible Matrix interference

pH at each sampling location

Date	22-Jan-08	15-May-08	15-Jul-08	20-Oct-08
EPA upper limit	9.5	9.5	9.5	9.5
EPA lower limit	6.5	6.5	6.5	6.5
MW 03				
MW 05 - S	7.1	7.4	7.2	7.3
MW 05 - D	7.5	7.9	8.1	7.8
MW 06 - S	7.2	7.6	7.2	7.6
MW 06 - D	7.6	7.7	7.6	7.1
MW 08 - S	7.2	7.5	7.3	7.1
MW 08 - D	7.3	7.4	7.0	7.3

Gas Monitoring at Mohill Landfill - January 2008 to December 2008

Methane (CH_4) Monitoring (% v/v) at Mohill Landfill - January 2008 to December 2008

Date	29-Jan-08	26-Feb-08	25-Mar-08	24-Apr-08	26-May-08	26-Jun-08	28-Jul-08	27-Aug-08	29-Sep-08	29-Oct-08	20-Nov-08	11-Dec-08
GP9	0	0	0	0	0	0	0	0	0	0	0	0
GP10	3.3	3	2.7	2.2	1.6	1.2	0.8	0.5	0.9	3	0.8	0.8
GP11	0	0	0	0	0	0	0	0	0	0	0	0
GP15	**60**	**66.8**	**66.3**	**65.7**	**58.9**	**50.8**	**59.5**	**60.8**	**62.3**	**63.3**	**50.3**	**60.8**
GP16	0	0	0	0	0	0	0	0	0	0	0	0
Licence Limit	1	1	1	1	1	1	1	1	1	1	1	1

Note[1]: It is not feasible to monitor at GP 5, 13, 14 and 16.

Carbon Dioxide (CO_2) Monitoring (% v/v) at Mohill Landfill - January 2008 to December 2008

Date	29-Jan-08	26-Feb-08	25-Mar-08	24-Apr-08	26-May-08	26-Jun-08	28-Jul-08	27-Aug-08	29-Sep-08	29-Oct-08	20-Nov-08	11-Dec-08
GP9	0	0	0.1	0.2	0.2	0.1	0.1	0	0.4	0	0	0
GP10	0	0	0	0	0	0	0	0	0	0	0	0
GP11	7.8	7.3	6.2	**7**	**7.6**	**8.4**	**8.1**	**8.4**	**7.8**	**6.5**	**5.5**	**5.9**
GP15	**24**	**30.9**	**30.2**	**30**	**30**	**29.5**	**31.3**	**31.7**	**31.3**	**31.7**	**24**	**27.4**
GP16	0.7	1.1	0.5	1.3	1.9	1.7	1.3	1.8	1.6	1.1	0	0.4
Licence Limit	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5

Gas Monitoring at Mohill Landfill - January 2008 to December 2008

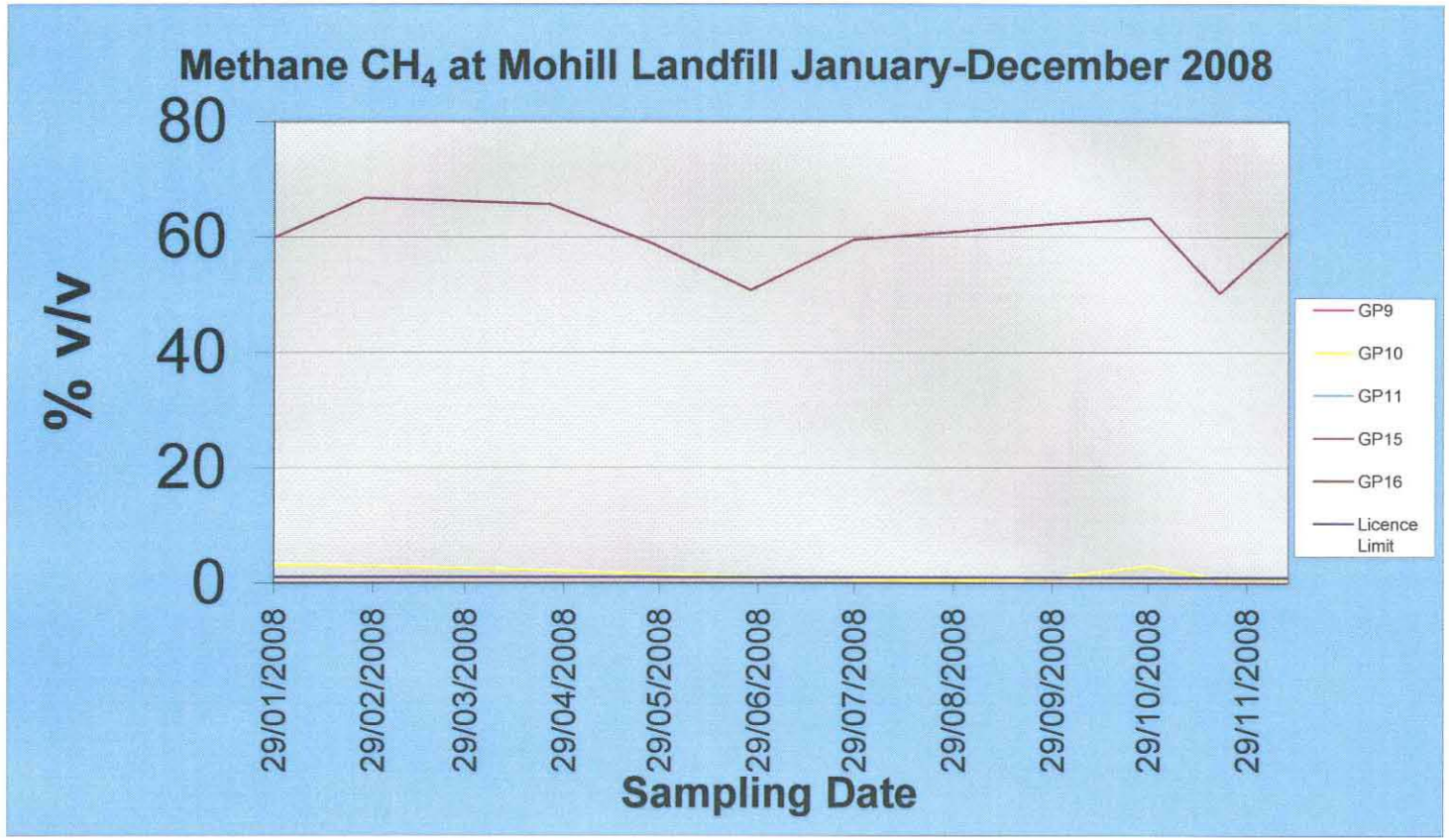
Oxygen (O_2) Monitoring (% v/v) at Mohill Landfill - January 2008 to December 2008

Date	29-Jan-08	26-Feb-07	25-Mar-07	24-Apr-08	26-May-07	26-Jun-08	28-Jul-08	27-Aug-08	29-Sep-08	29-Oct-08	20-Nov-08	11-Dec-08
GP9	21.2	20.8	20.9	20.5	20.7	20.5	20.9	20.8	20.2	20.6	20.7	19.9
GP10	8.4	7.6	8.4	10.8	9.6	7.6	8.1	7.8	8.3	7.8	17.4	16.5
GP11	7.6	4.7	5.5	7.6	11	9.9	10.3	3.6	1.5	4.1	4.7	6
GP15	2.7	0	0	0.1	0.2	0	0.1	0	0	0.2	4.4	2.1
GP16	19.3	19.4	19.4	18	19	18.8	19.4	18.7	19.3	18.8	20.6	19.3

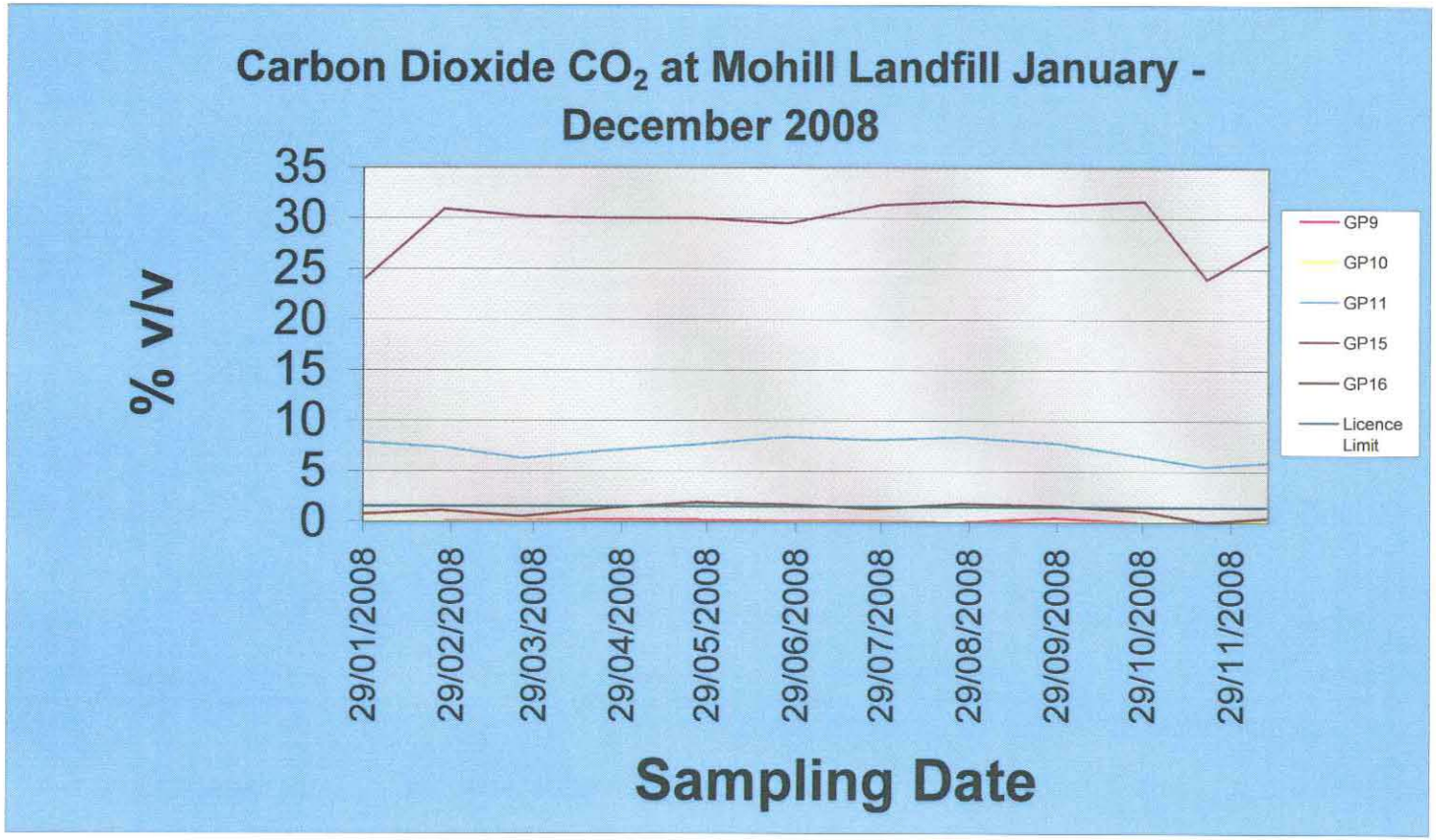
Ambient Temperature (^{o}C) & Atmospheric Pressure (mb) Monitoring at Mohill Landfill - January 2008 to December 2008

Date	29-Jan-08	26-Feb-08	25-Mar-08	24-Apr-08	26-May-08	26-Jun-08	28-Jul-08	27-Aug-08	29-Sep-08	29-Oct-08	20-Nov-08	11-Dec-08
Ambient Temperature	9	9	9	10	18	14	25	19	13	7	11	9
Atmospheric Pressure	1001	998	999	1008	1013	1003	1006	1014	1009	988	1014	1004

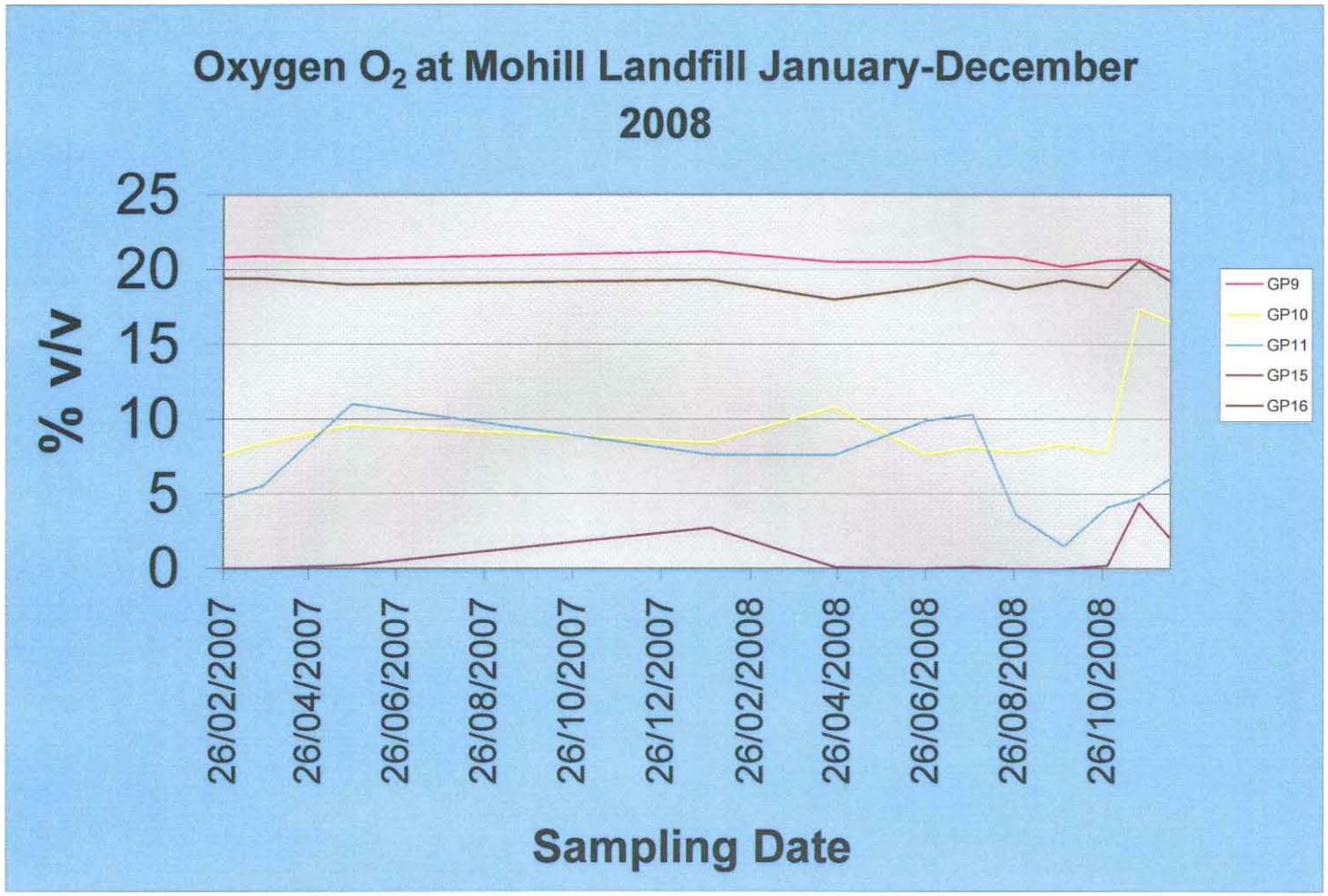
Mohill Landfill - Monthly Gas Monitoring 2008 - Methane



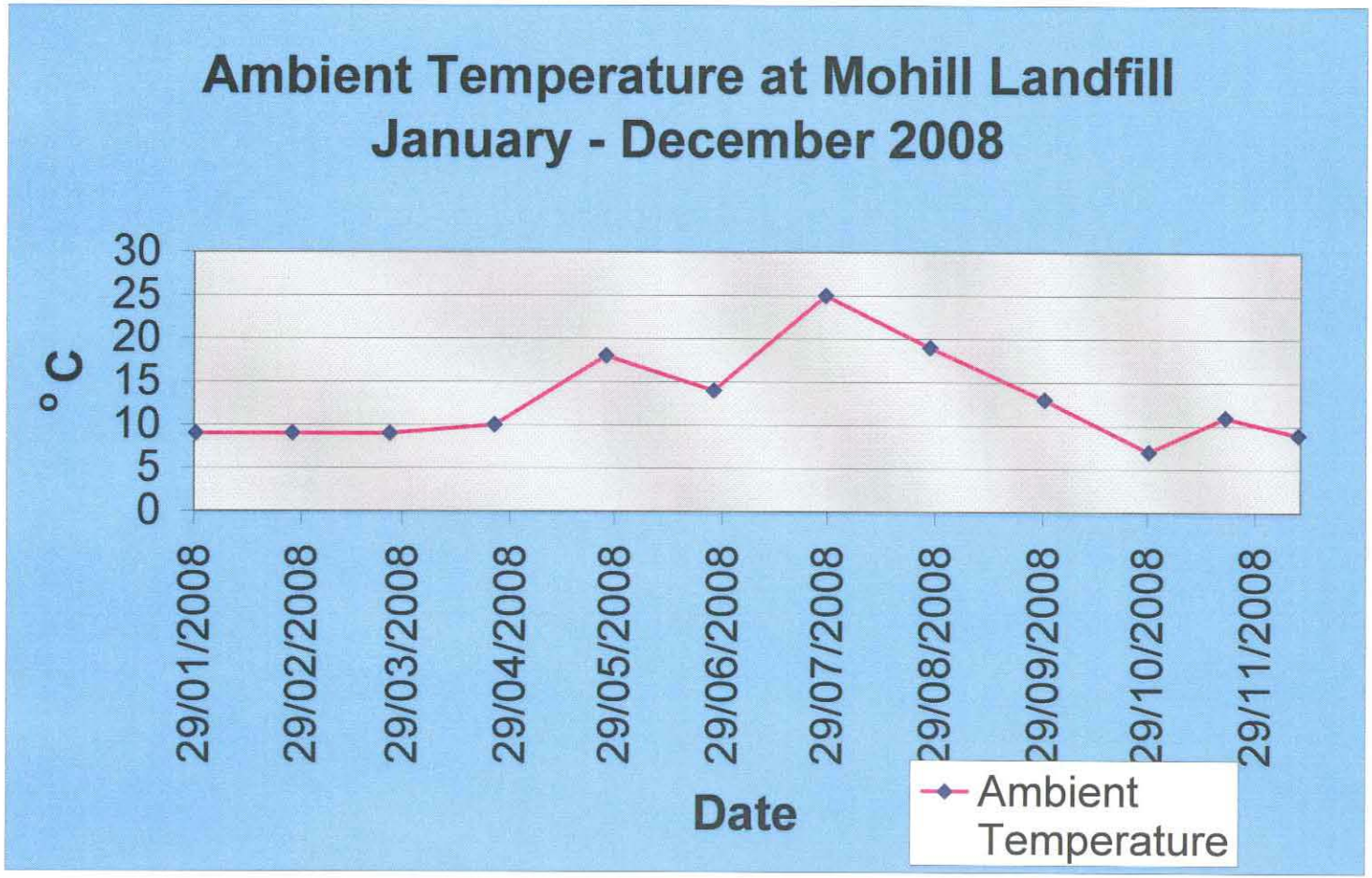
Mohill Landfill - Monthly Gas Monitoring 2008 - Carbon Dioxide



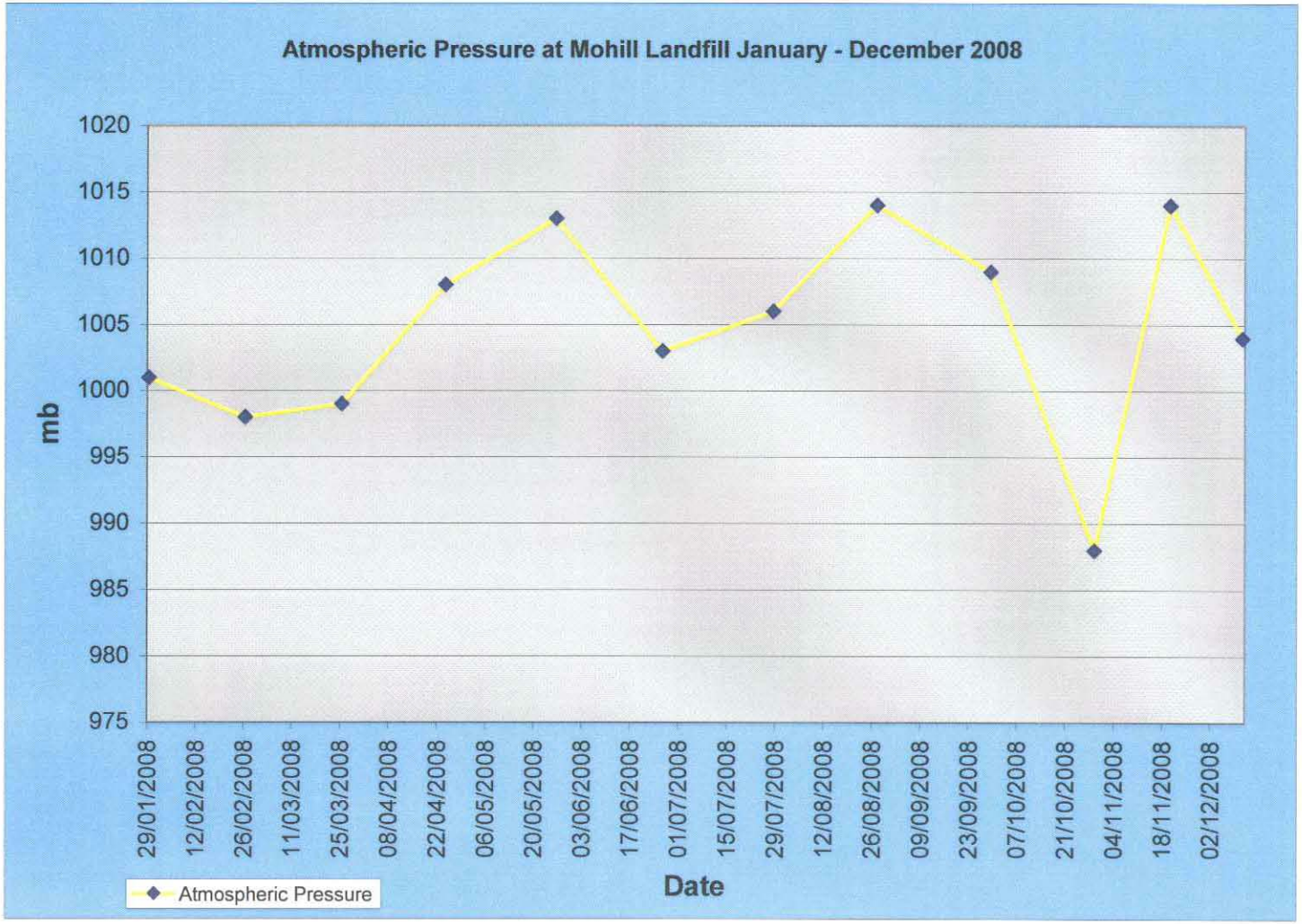
Mohill Landfill - Monthly Gas Monitoring 2008 - Oxygen



Mohill Landfill - Monthly Gas Monitoring 2008 - Ambient Temperature



Mohill Landfill - Monthly Gas Monitoring 2008 - Atmospheric Pressure



2008 Quarterly Test Events at Mohill Landfill - Groundwater

TOC at each sampling location

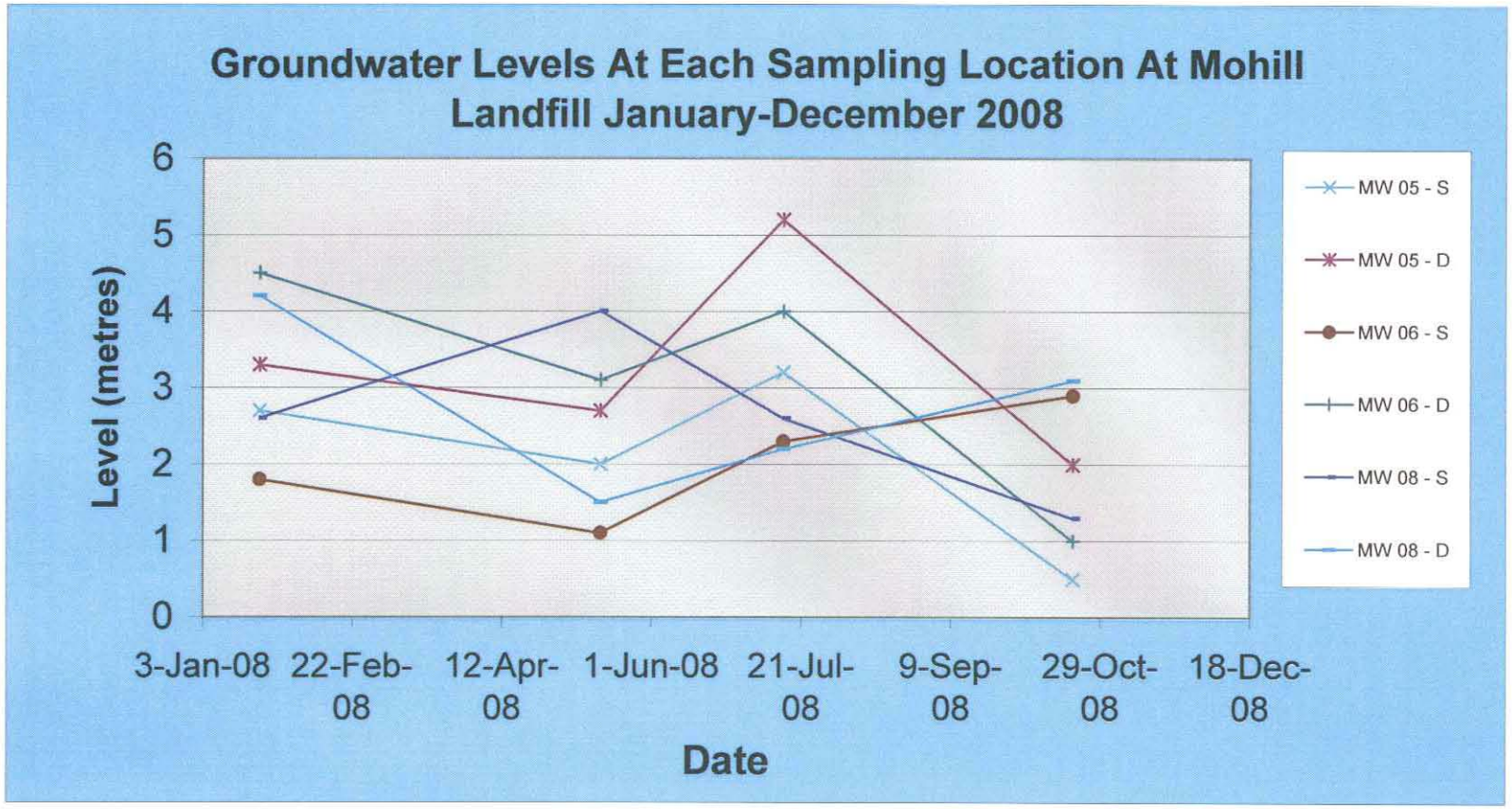
Date	22-Jan-08	15-May-08	15-Jul-08	20-Oct-08
EPA Guideline	No abnormal change[Note 1]			
MW 03				
MW 05 - S	2.24	1.71	2.36	2.87
MW 05 - D	2.1	2.83	2.44	2.83
MW 06 - S	**17.9**	**5.81**	2.79	1.86
MW 06 - D	2.48	2.62	3.13	2.08
MW 08 - S	1.59	2.11	2.50	4.00
MW 08 - D	**3.54**	**4.6**	2.39	2.25

Note 1: No abnormal change refers to no significant change compared to background concentrations

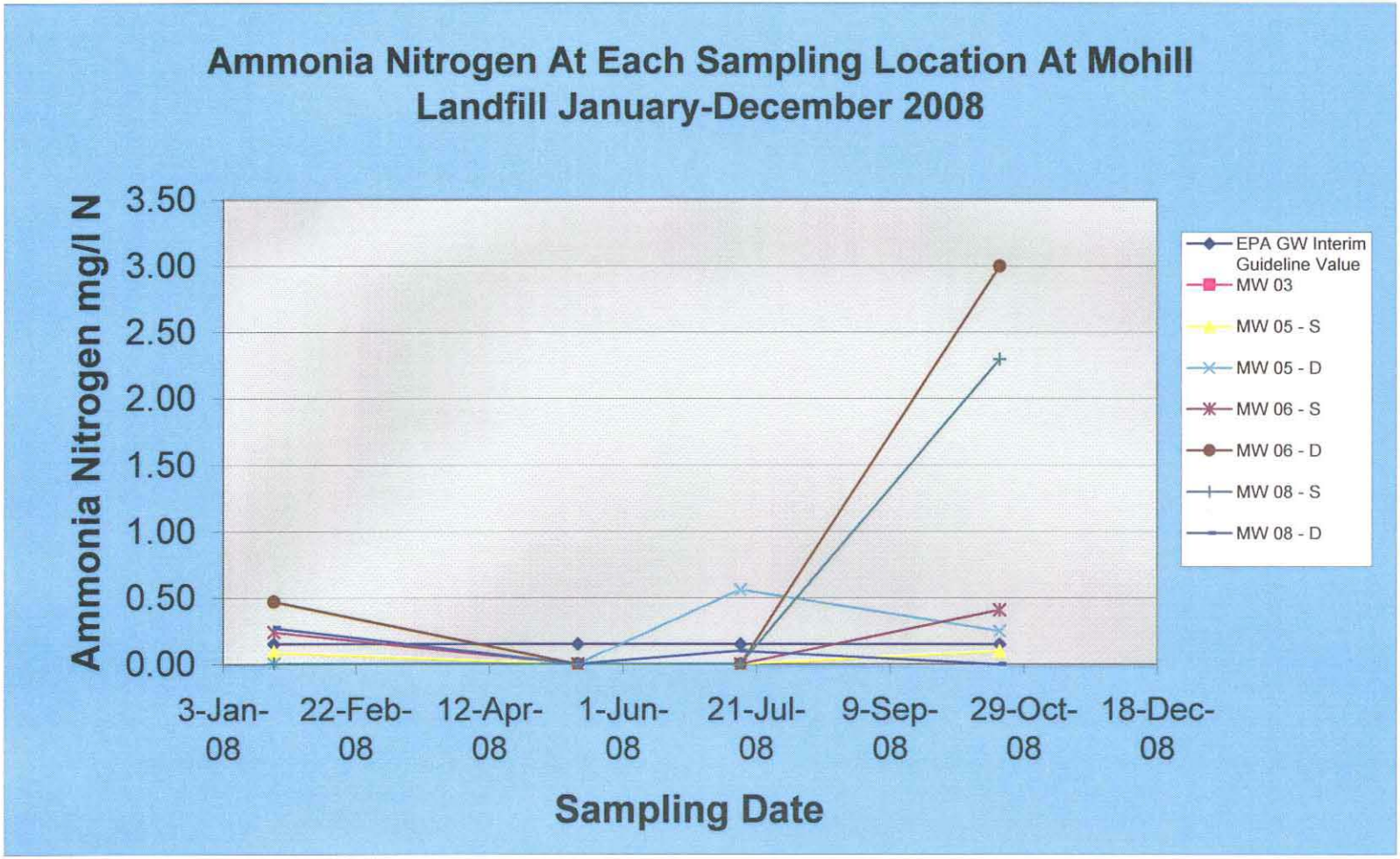
Temperature (^{0}C) at each sampling location

Date	22-Jan-08	15-May-08	15-Jul-08	20-Oct-08
EPA GW Interim Guideline Value	25	25	25	25
MW 03				
MW 05 - S	11	12.5	12.9	11.8
MW 05 - D	11	11.8	13.1	11.9
MW 06 - S	11	12.4	12.8	12.1
MW 06 - D	11	11.8	12.8	12
MW 08 - S	10.7	11.3	12.9	11.9
MW 08 - D	10.5	12.0	13.0	12.1

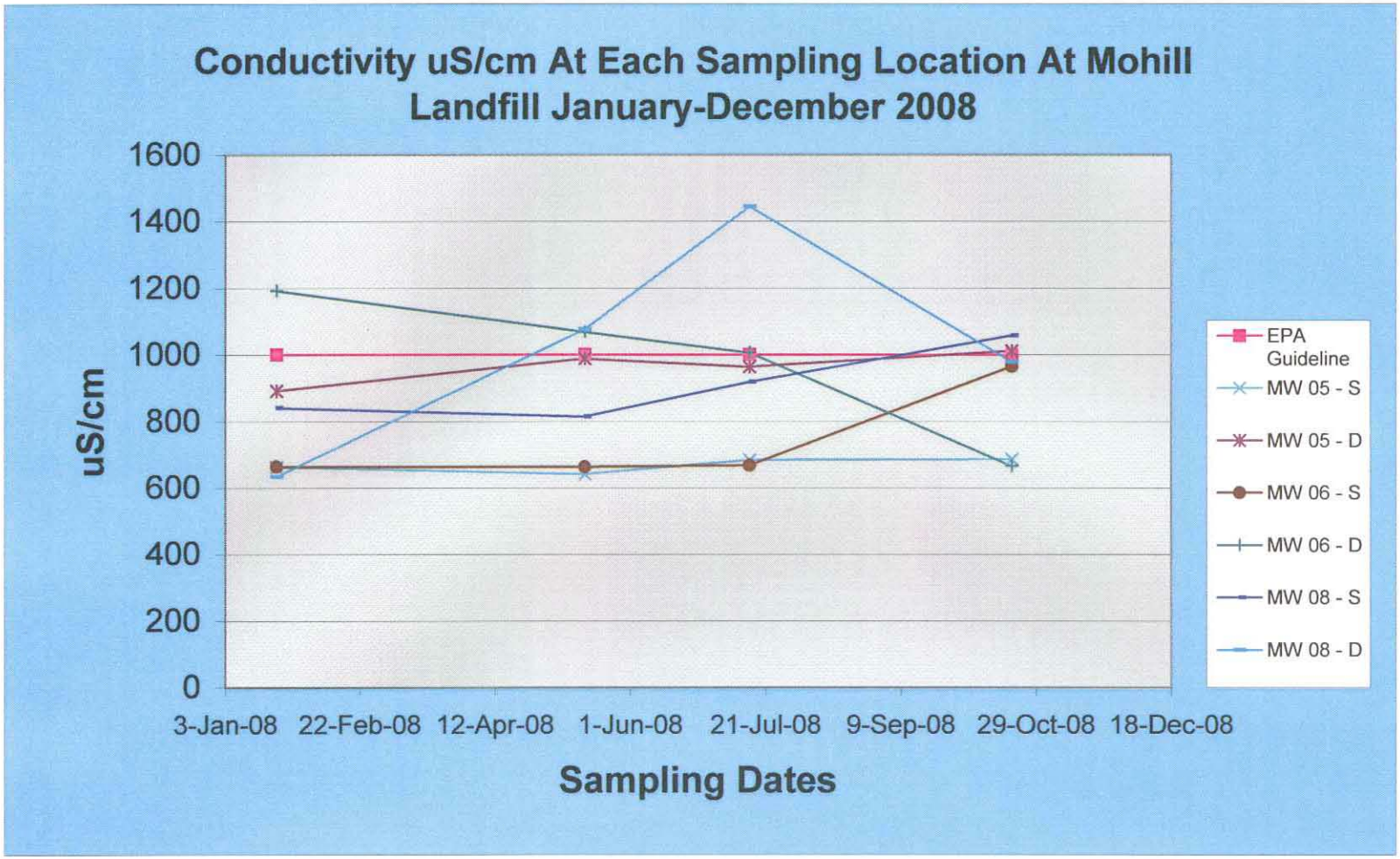
Mohill Landfill Quarterly Groundwater Monitoring 2008 - Groundwater Level



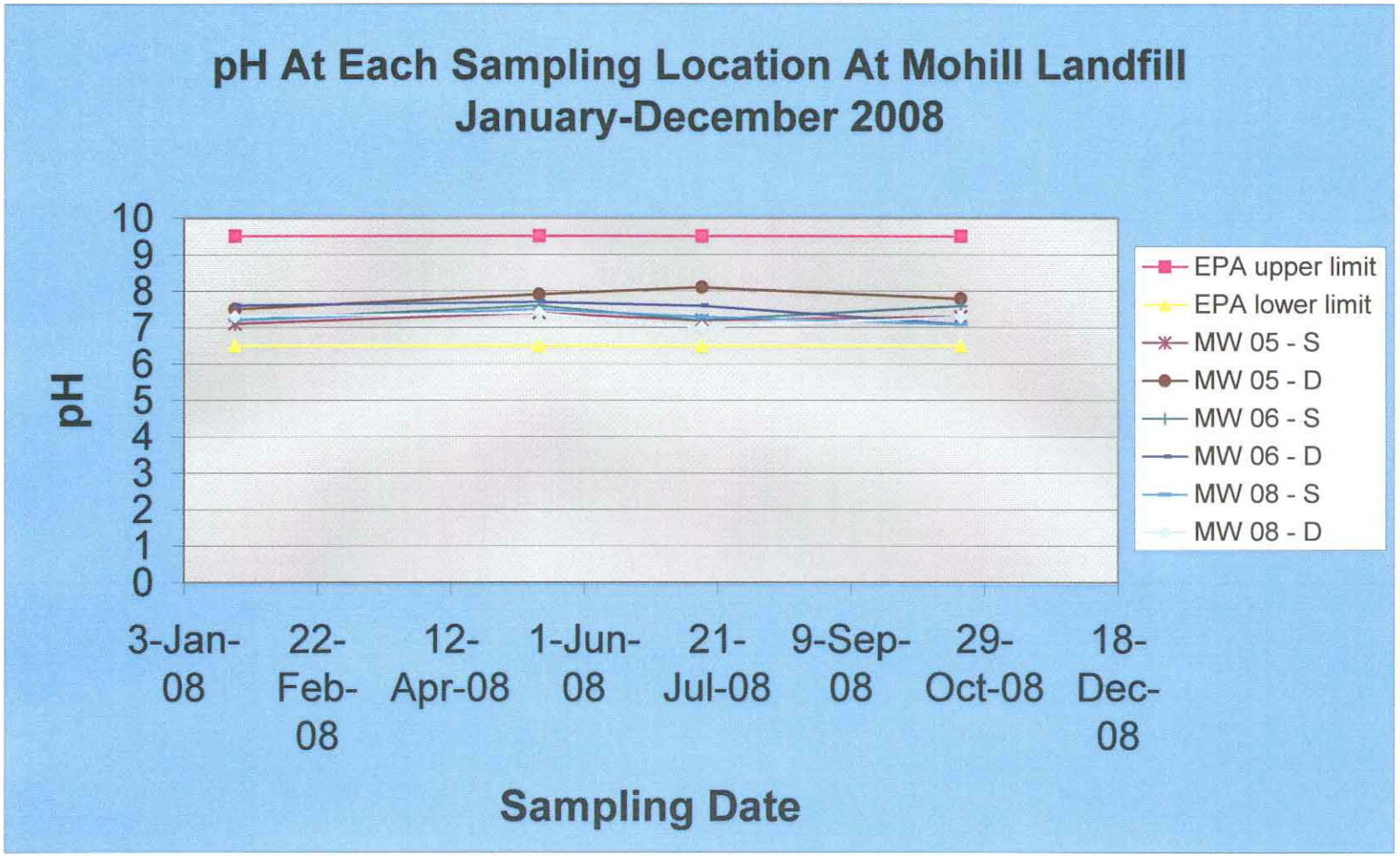
Mohill Landfill Quarterly Groundwater Monitoring 2008 - Ammonical Nitrogen



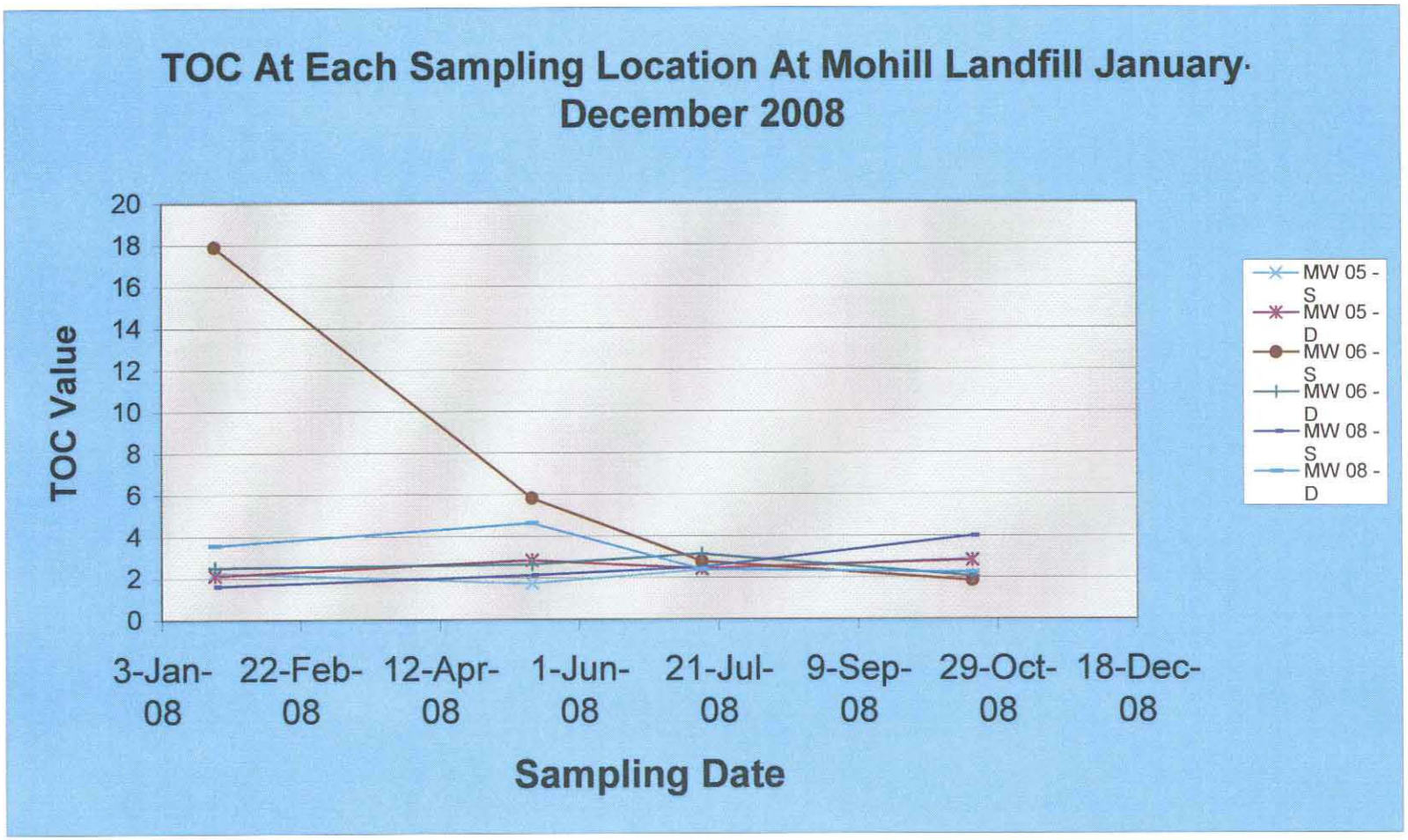
Mohill Landfill Quarterly Groundwater Monitoring 2008 - Conductivity



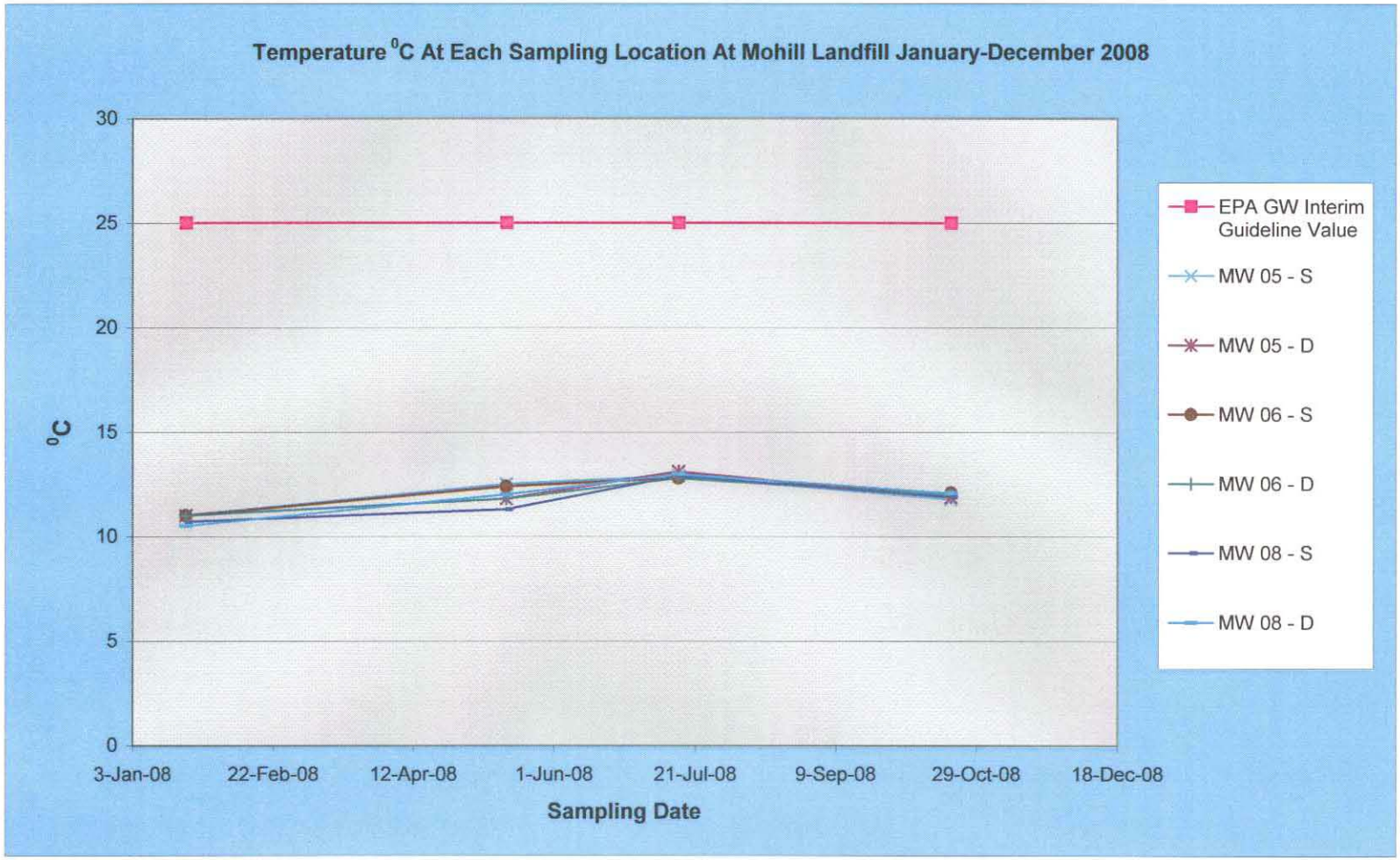
Mohill Landfill Quarterly Groundwater Monitoring 2008 - pH



Mohill Landfill Quarterly Groundwater Monitoring 2008 - Total Organic Carbon



Mohill Landfill Quarterly Groundwater Monitoring 2008 - Temperature



Quarterly Test Events at Mohill Landfill - Surface water

Ammoniacal Nitrogen (mg/l N) at each sampling location

EPA Annua

Surface Water Regulations, 1989			Date	22-Jan-08	15-May-08	15-Jul-08	9-Oct-08	20-Sep-07	
Class A1	Class A2	Class A3							
0.16	0.17	3.1	SW 04	<0.9	<0.09	0.18	0.07	0.03	
0.16	0.17	3.1	SW 06	0.15	<0.09	<0.09	0.08	0.04	

BOD (mg/l) at each sampling location

Surface Water Regulations, 1989			Date	22-Jan-08	15-May-08	15-Jul-08	9-Oct-08	20-Sep-07	
Class A1	Class A2	Class A3							
5	5	7	SW 04	<2	<2	<2	<2	<1.5	
5	5	7	SW 06	<2	<2	<2	<2	<1.5	

COD (mg/l) at each sampling location

Surface Water Regulations, 1989			Date	22-Jan-08	15-May-08	15-Jul-08	9-Oct-08	20-Sep-07	
Class A1	Class A2	Class A3							
-	-	40	SW 04	45	23	212	67	48	
-	-	40	SW 06	54	56	56	76	65	

Chloride (mg/l) at each sampling location

Surface Water Regulations, 1989			Date	22-Jan-08	15-May-08	15-Jul-08	9-Oct-08	20-Sep-07	
Class A1	Class A2	Class A3							
250	250	250	SW 04	16.3	10.51	15.71	12.28	14	
250	250	250	SW 06	24.07	30.65	31.78	13.68	23	

Dissolved Oxygen (% O_2) at each sampling location

Surface Water Regulations, 1989			Date	22-Jan-08	15-May-08	15-Jul-08	9-Oct-08	20-Sep-07	
Class A1	Class A2	Class A3							
>60	>50	>30	SW 04	48	85	39	24	89	
>60	>50	>30	SW 06	32	78	36	28	82	

Conductivity (uS/cm) at each sampling location

Surface Water Regulations, 1989			Date	22-Jan-08	15-May-08	15-Jul-08	9-Oct-08	20-Sep-07	
Class A1	Class A2	Class A3							
1000	1000	1000	SW 04	369	616	631	234	417	
1000	1000	1000	SW 06	328	490	480	226	473	

pH at each sampling location

Surface Water Regulations, 1989			Date	22-Jan-08	15-May-08	15-Jul-08	9-Oct-08	20-Sep-07	
Class A1	Class A2	Class A3							
5.5 - 8.5	5.5 - 9.0	5.5 - 9.0	SW 04	7.6	7.8	7.6	7.3	7.7	
5.5 - 8.5	5.5 - 9.0	5.5 - 9.0	SW 06	7.6	7.8	7.5	7.3	8	

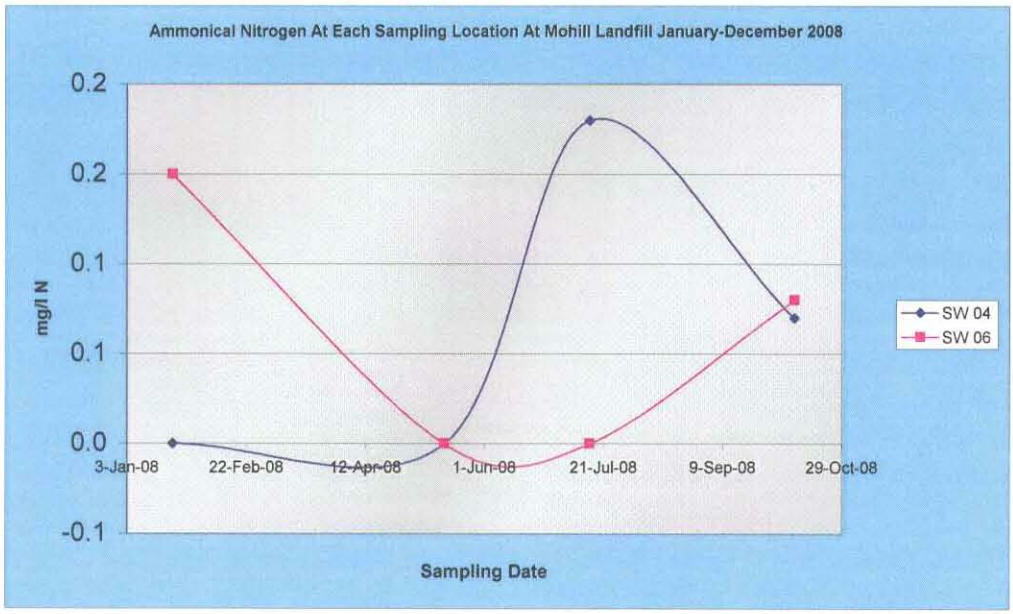
Suspended Solids (mg/l) at each sampling location

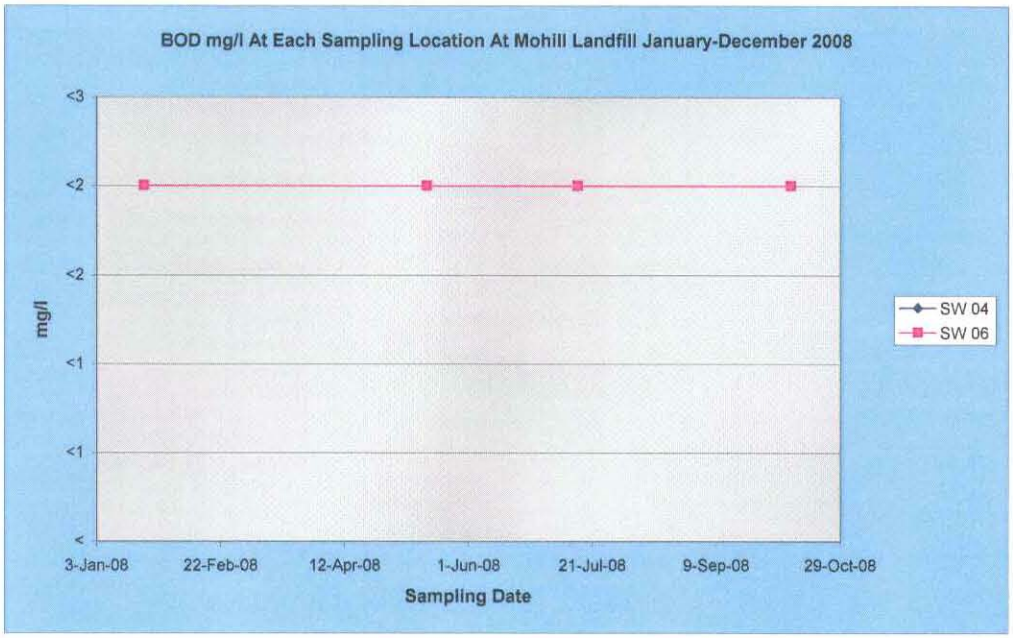
Surface Water Regulations, 1989			Date	22-Jan-08	15-May-08	15-Jul-08	9-Oct-08	20-Sep-07	
Class A1	Class A2	Class A3							
50	-	-	SW 04	6	<3	375	4	<5.0	
50	-	-	SW 06	9	3	144	24	10	

Temperature (^{0}C) at each sampling location

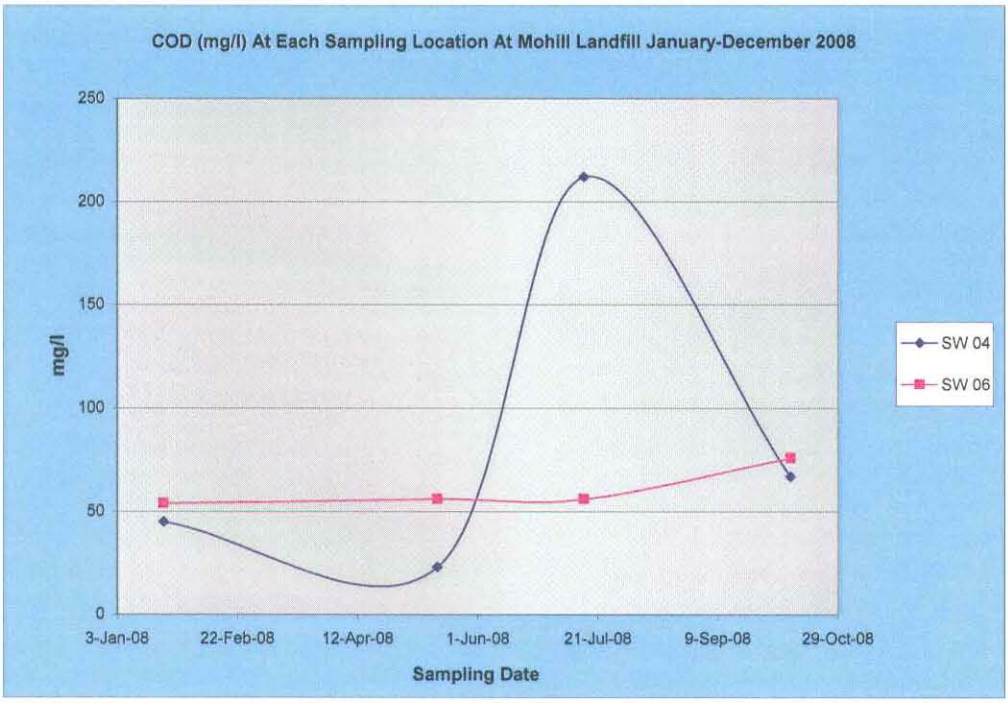
Surface Water Regulations, 1989			Date	22-Jan-08	15-May-08	15-Jul-08	9-Oct-08	20-Sep-07	
Class A1	Class A2	Class A3							
25	25	25	SW 04	9.6	12.3	16.0	13.5	12.1	
25	25	25	SW 06	9.8	12	15.8	13.1	12.3	

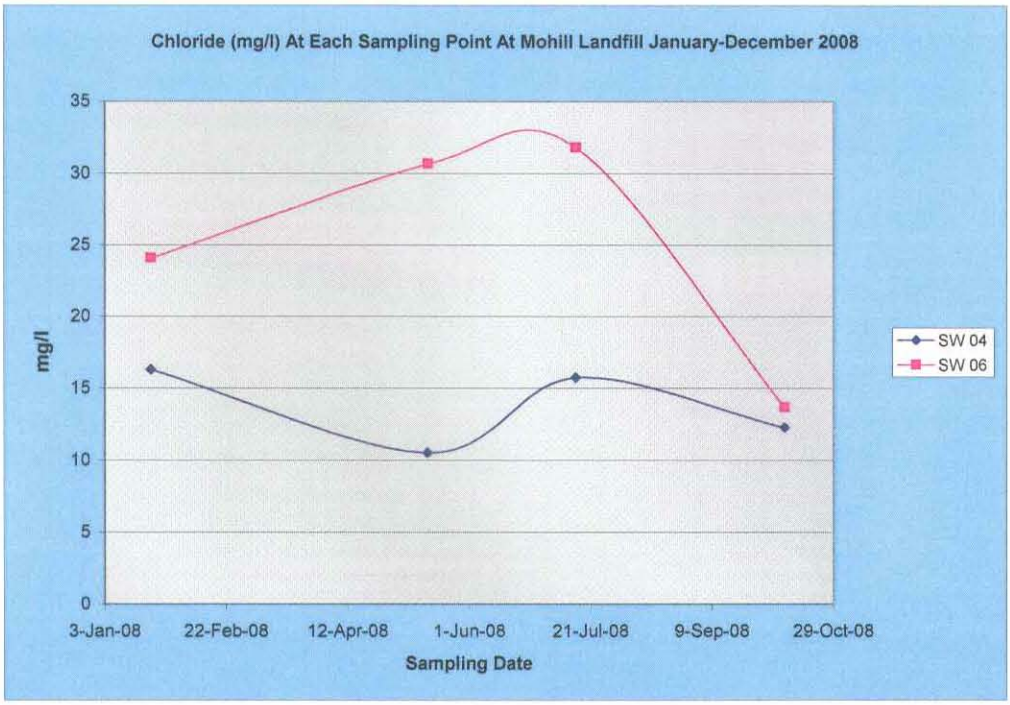
Quarterly Surface Water monitoring 2008 - Ammoniacal Nitrogen and BOD



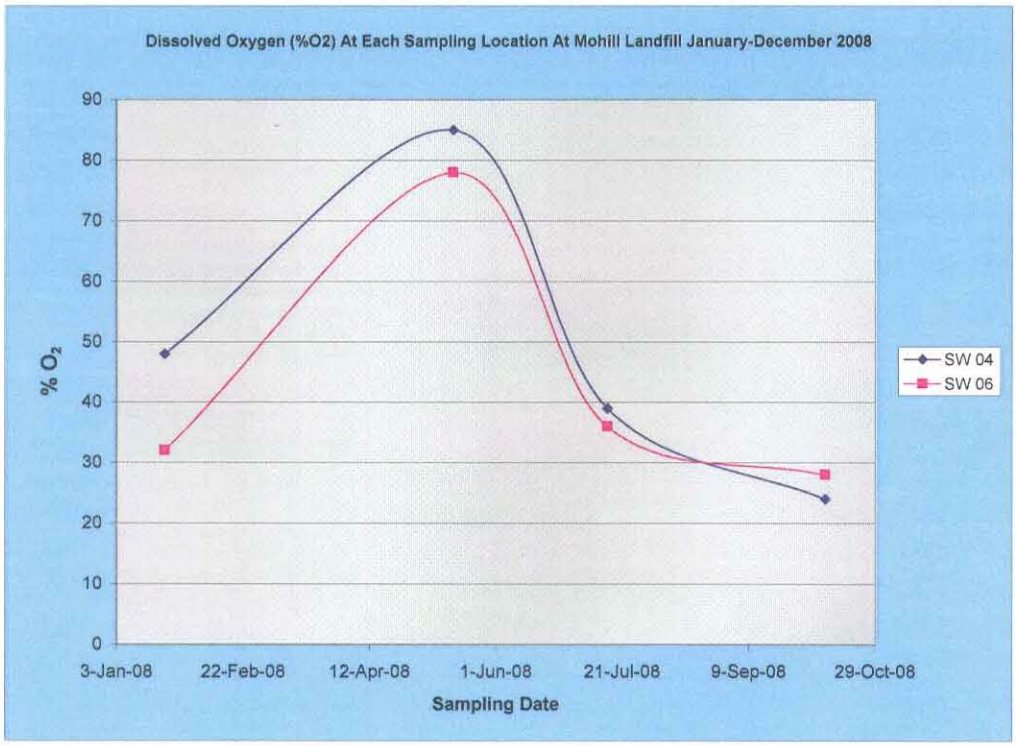


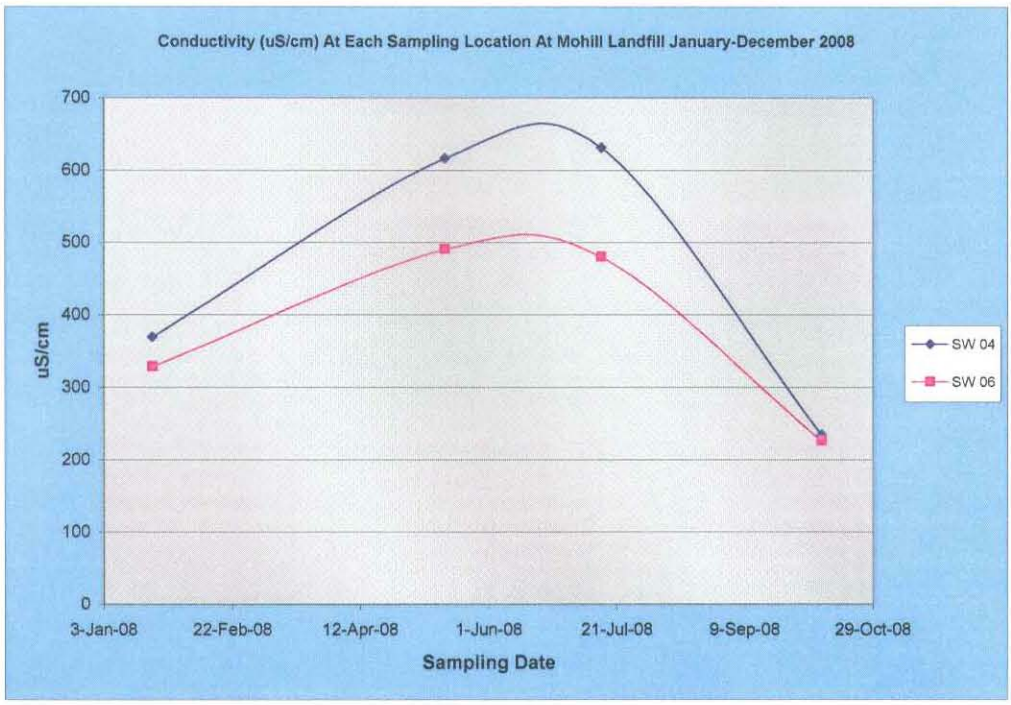
Quarterly Surface Water Monitoring 2008 - COD and Chloride



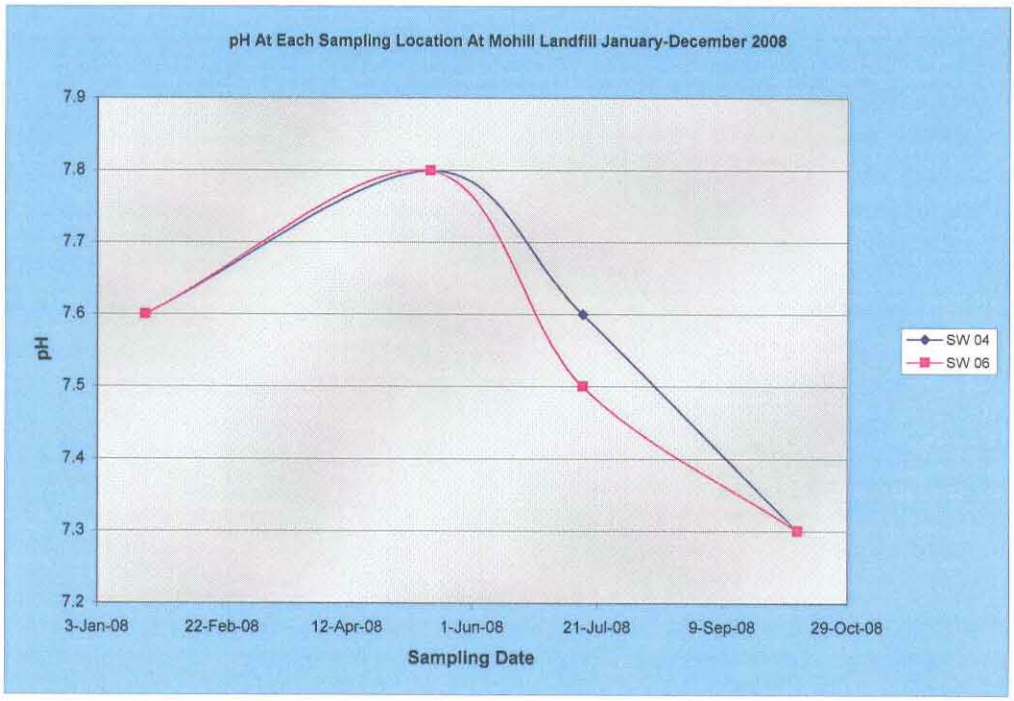


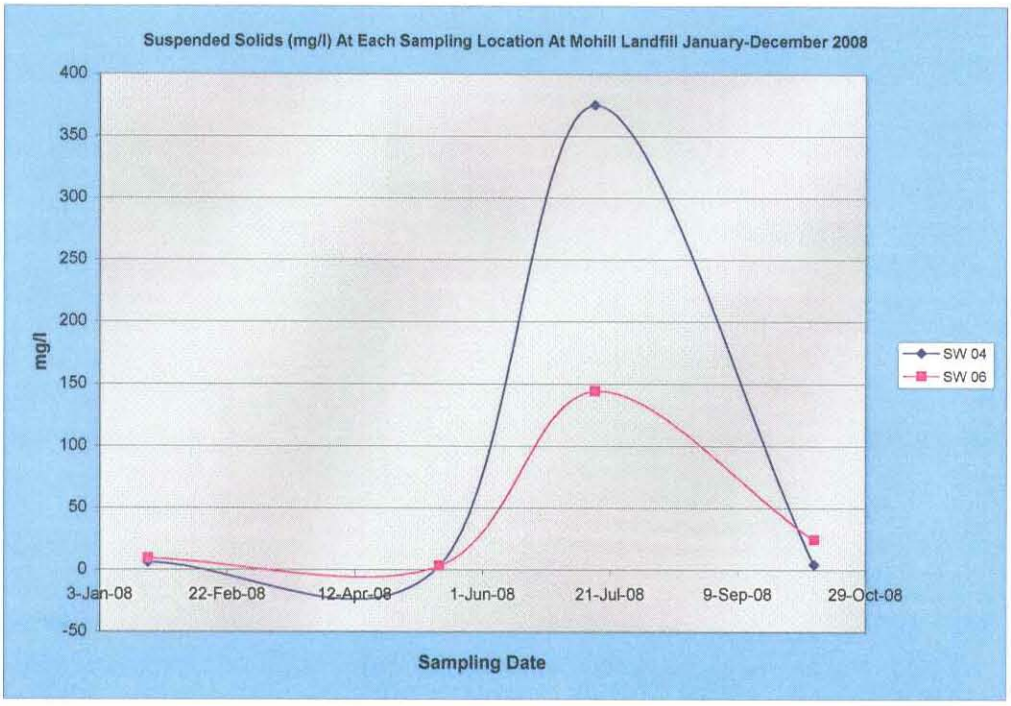
Quarterly Surface Water Monitoring 2008 - Dissolved Oxygen and Conductivity



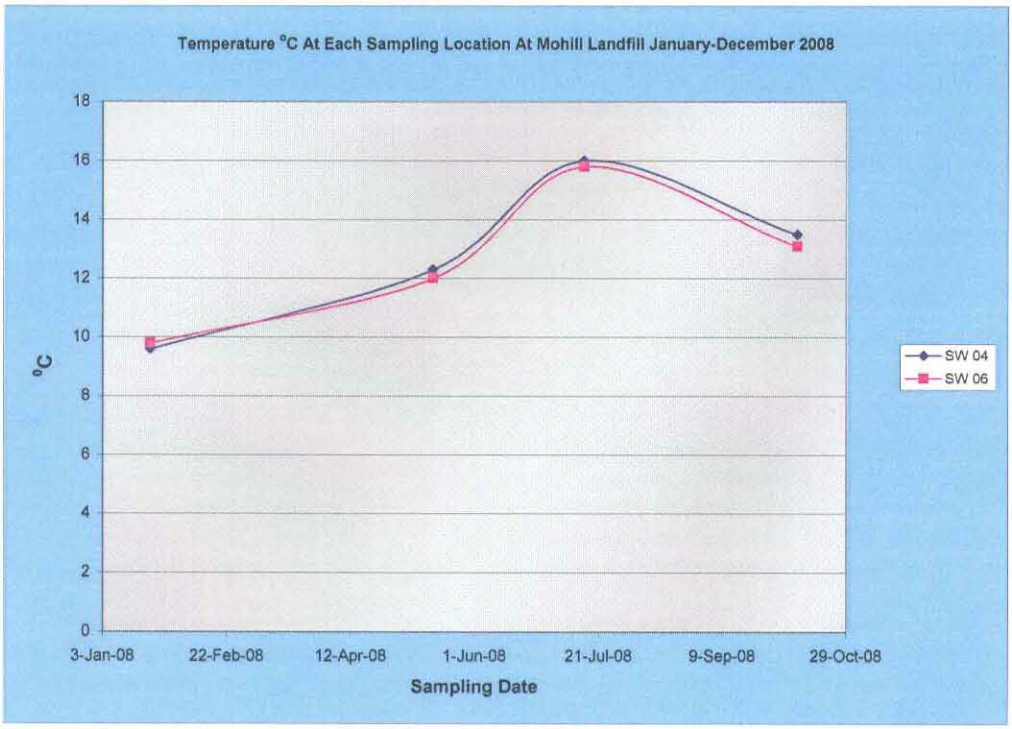


Quarterly Surface Water Monitoring 2008 - pH and Suspended Solids





Quarterly Surface Water Monitoring 2008 - Temperature



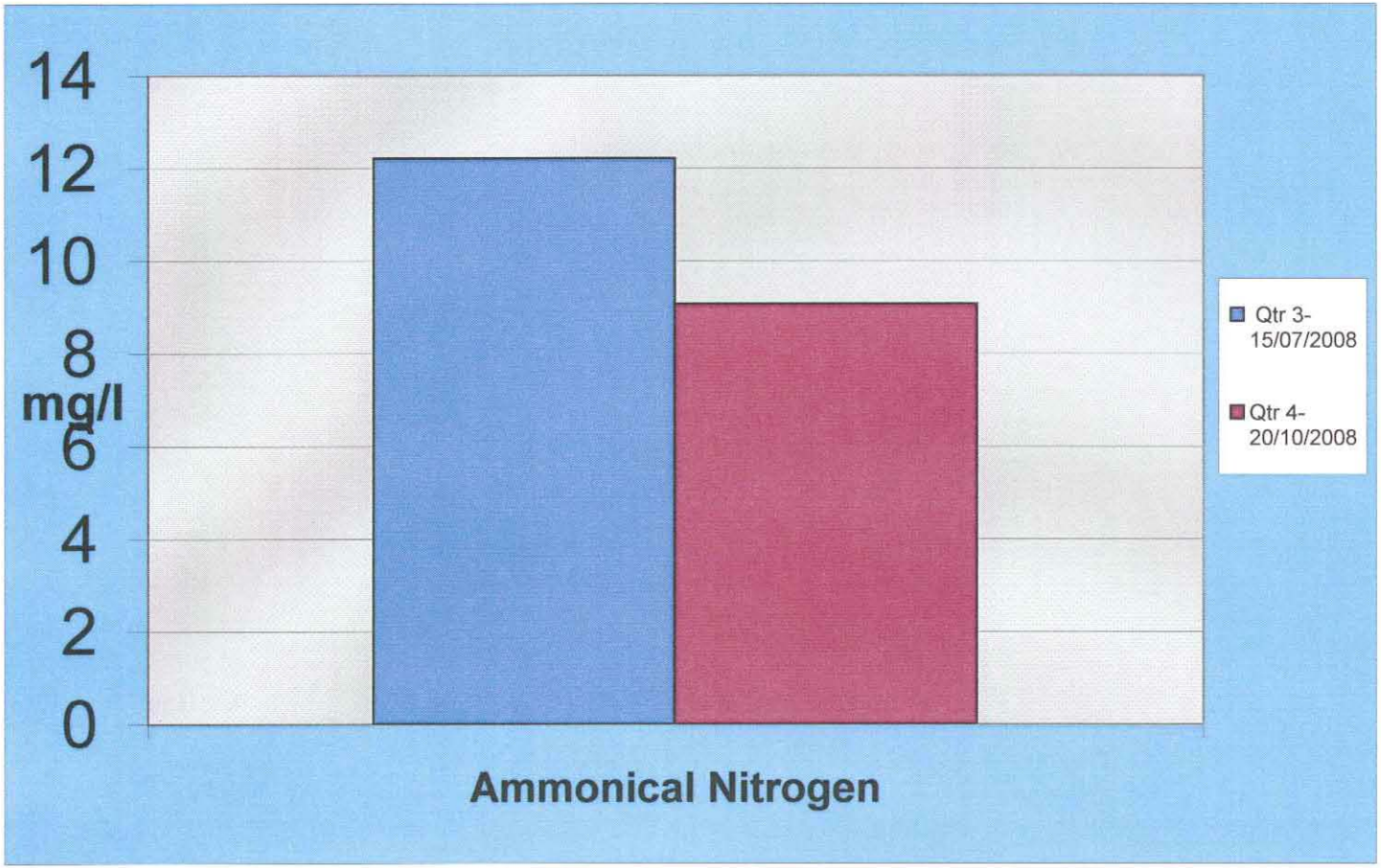
Mohill Landfill - Quarterly Leachate Monitoring 2008

EC (Quality of Surface Water Intended for the abstraction of drinking water) Regulations, 1989

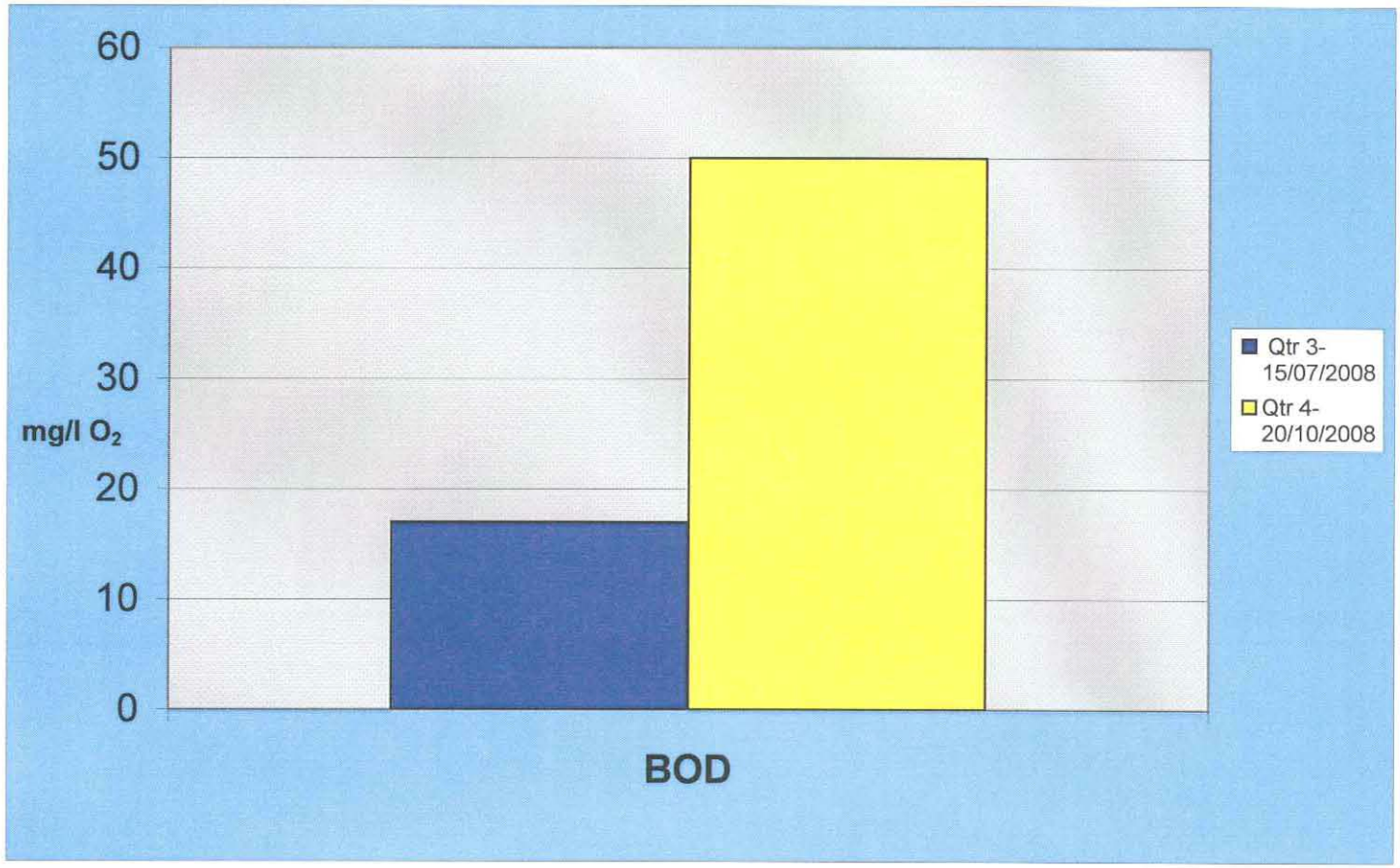
Parameter	Units	Qtr 3-15/07/2008	Qtr 4-20/10/2008	A1 Waters	A2 Waters	A3 Waters
Ammonical Nitrogen	mg/l	12.21	9.07	-	-	-
BOD	mg/l O_2	17	50	5	5	7
Chloride	mg/l	149.2	47.64	250	250	250
COD	mg/l O_2	800	793	-	-	40
pH	pH Units	6.6	6.5	5.5-8.5	5.5-8.5	5.5-8.5
Total Oxidised Nitrogen	mg/l	<0.03	16.72	-	-	-
Temperature	^0C	15	13.2	-	-	-

*** Note; Euro Environmental did not sample for Leachate in Quarters 1& 2**

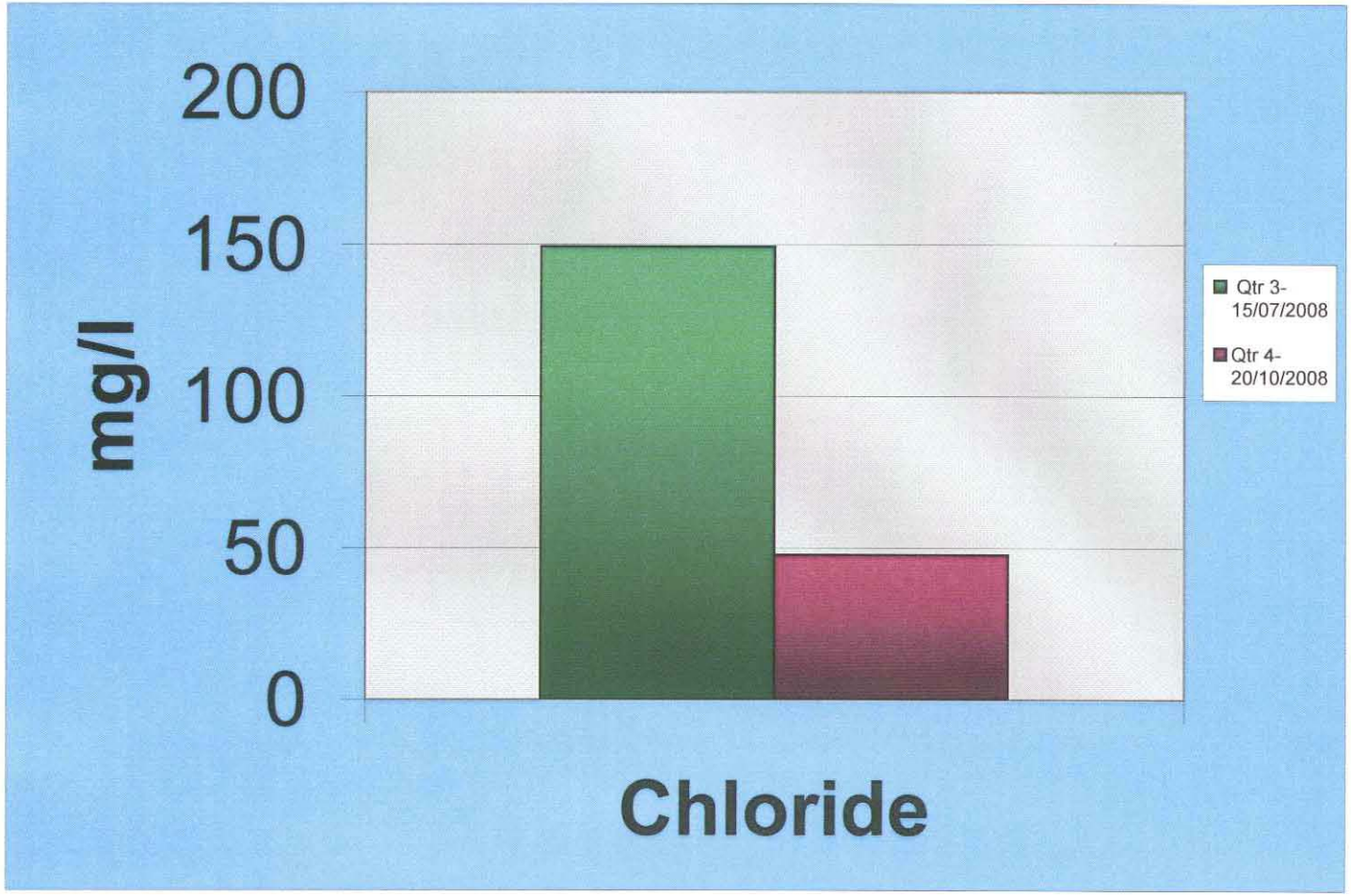
Quarterly Leachate Monitoring At Mohill Landfill 2008 - Ammonical Nitrogen



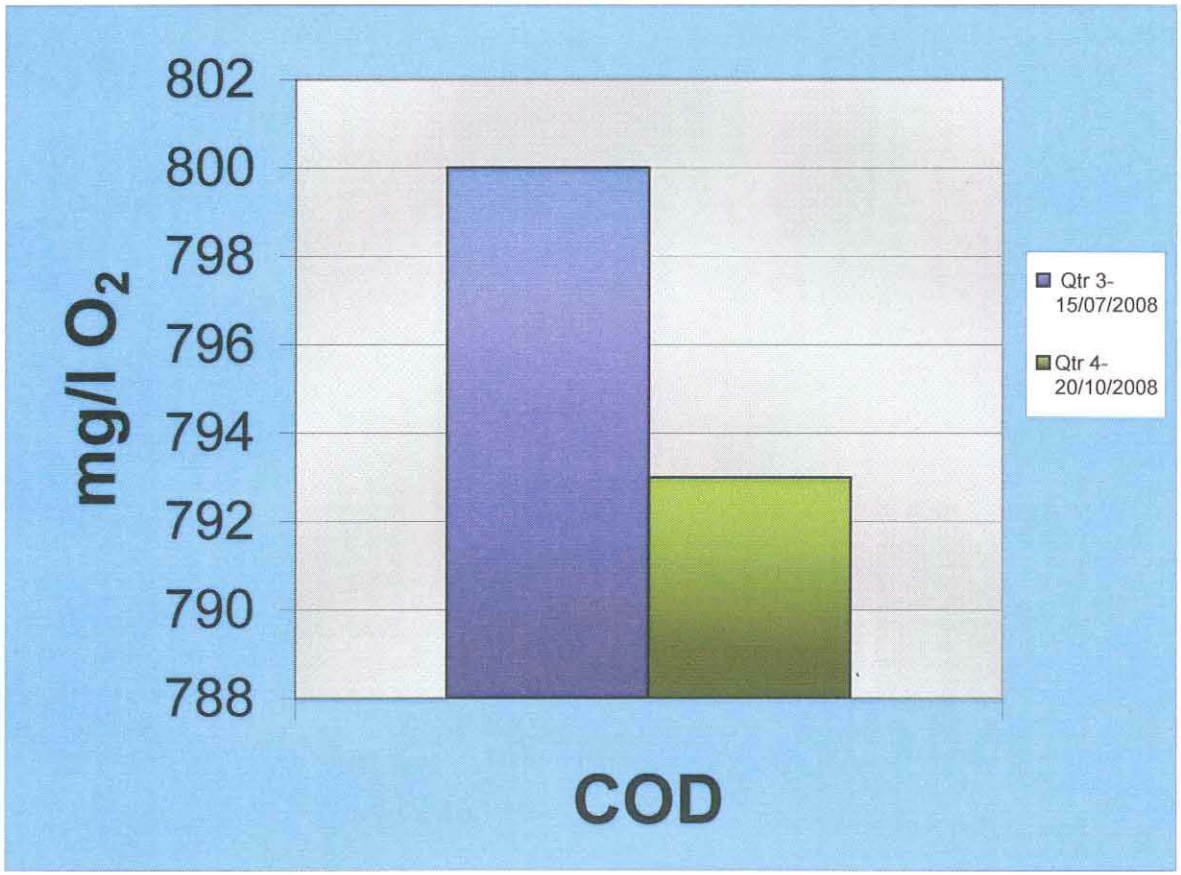
Quarterly Leachate Monitoring At Mohill Landfill 2008 - BOD



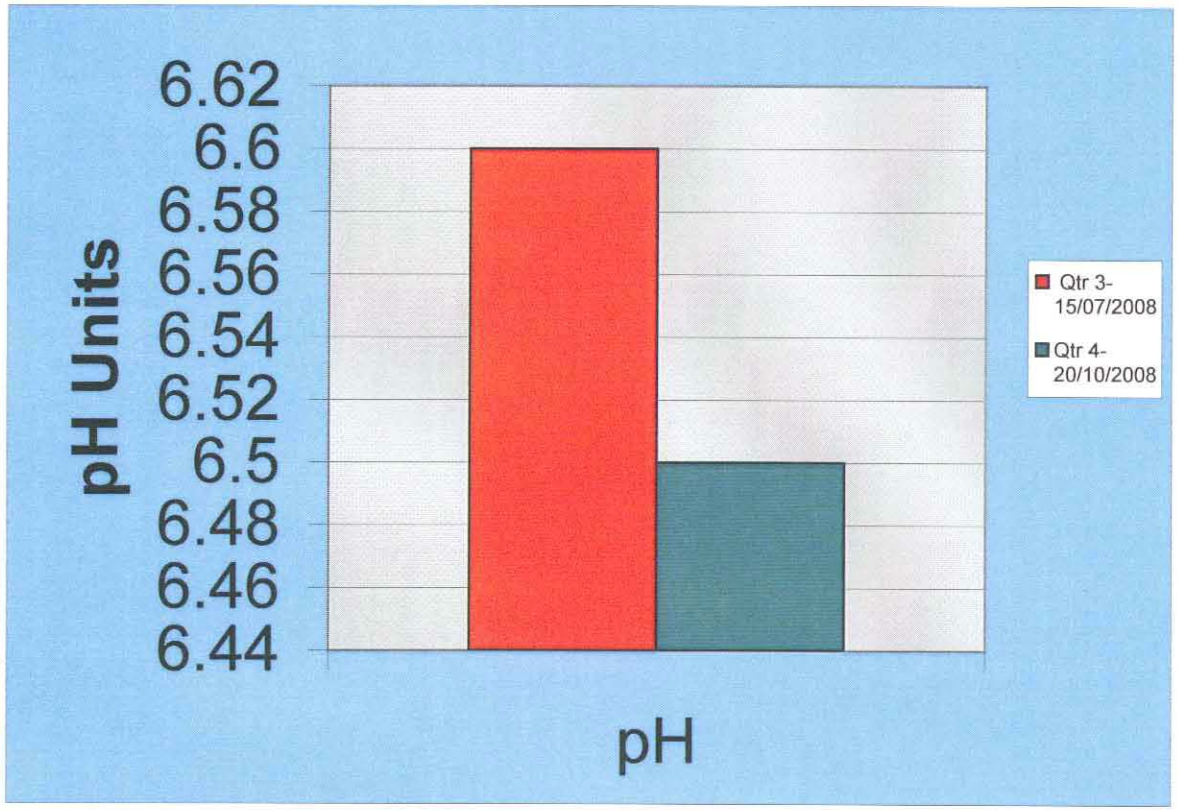
Quarterly Leachate Monitoring At Mohill Landfill 2008 - Chloride



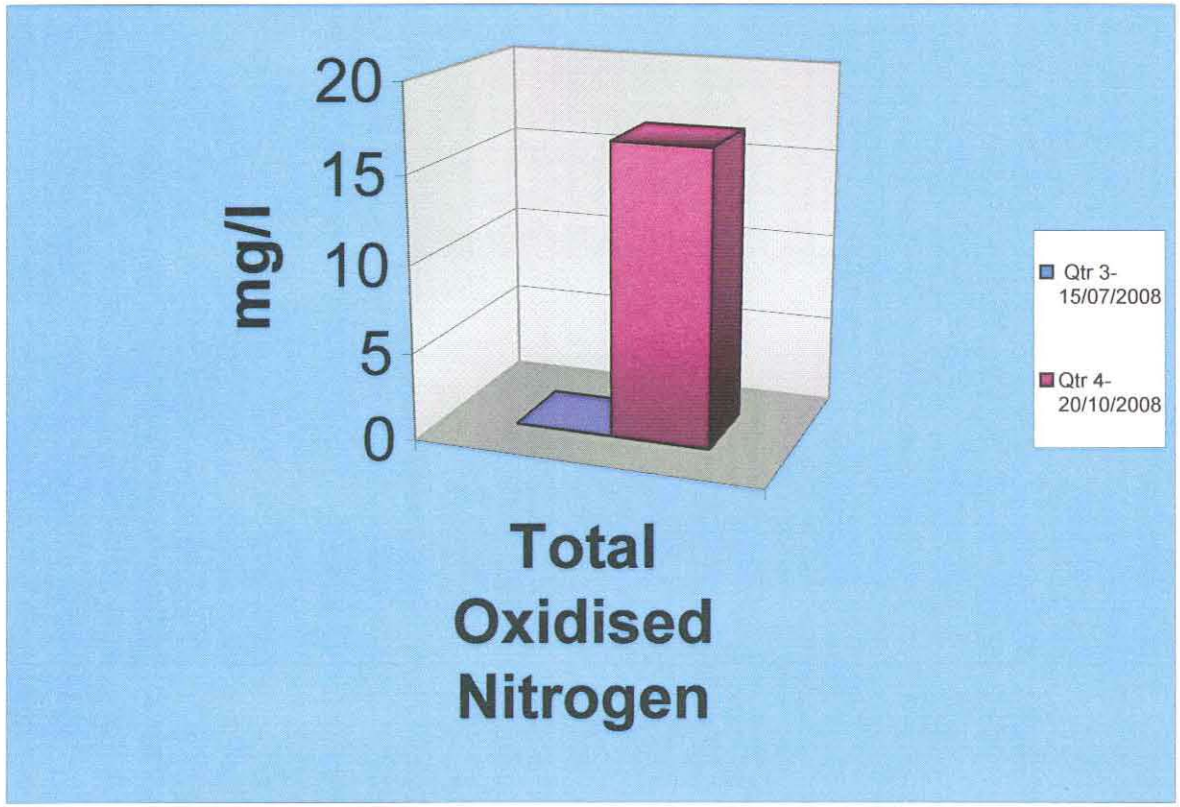
Quarterly Leachate Monitoring At Mohill Landfill 2008 - COD



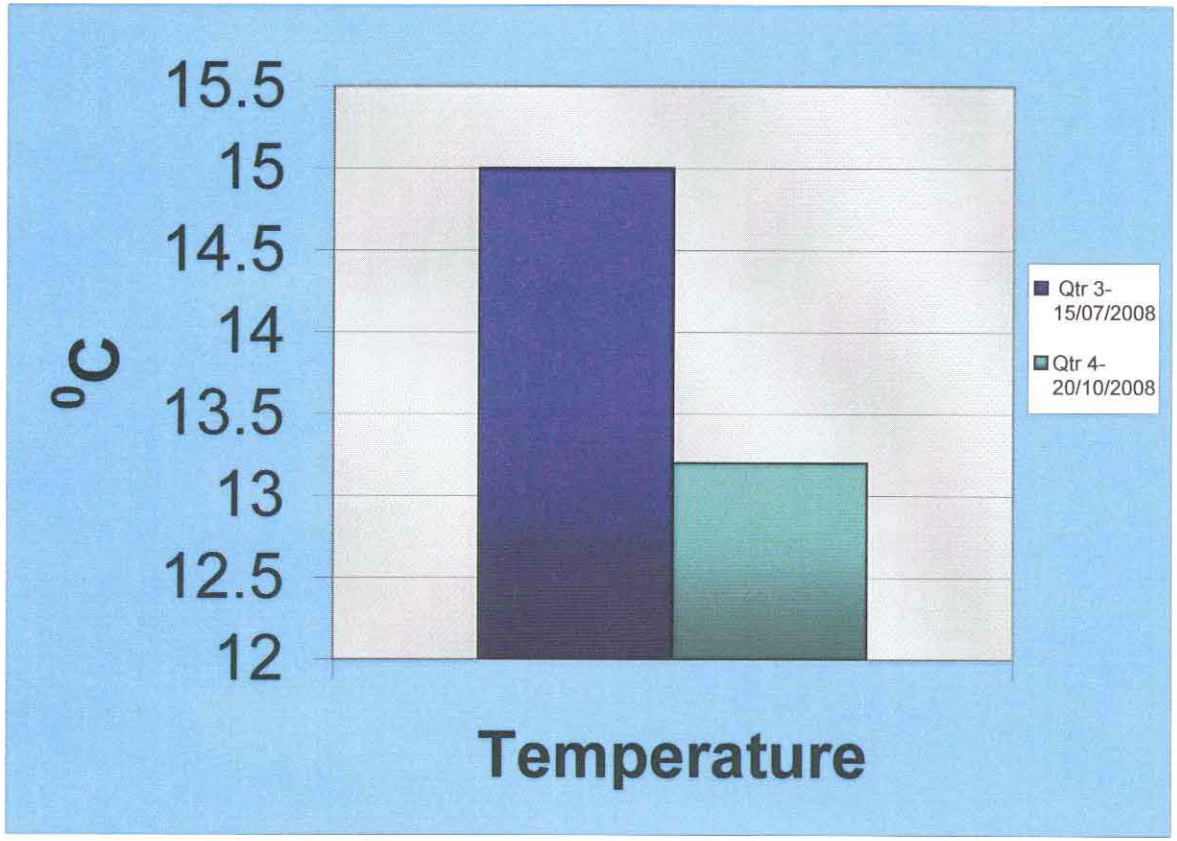
Quarterly Leachate Monitoring At Mohill Landfill 2008 - pH



Quarterly Leachate Monitoring At Mohill Landfill 2008 - Total Oxidised Nitrogen



Quarterly Leachate Monitoring At Mohill Landfill 2008 - Temperature

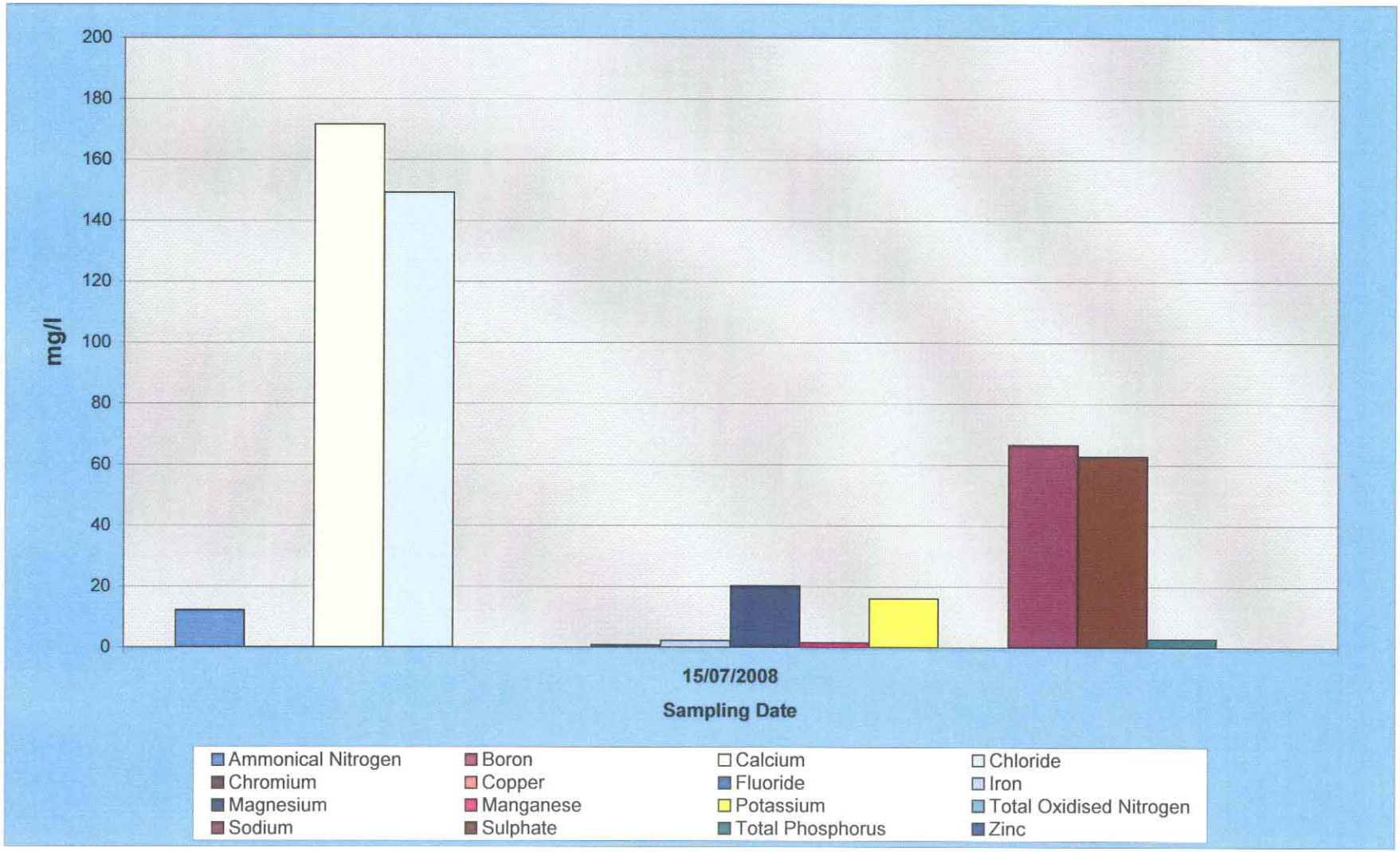


Annual Leachate Results for Mohill Landfill 2008

EC (Quality of Surface Water Intended for the abstraction of drinking water) Regulations, 1989

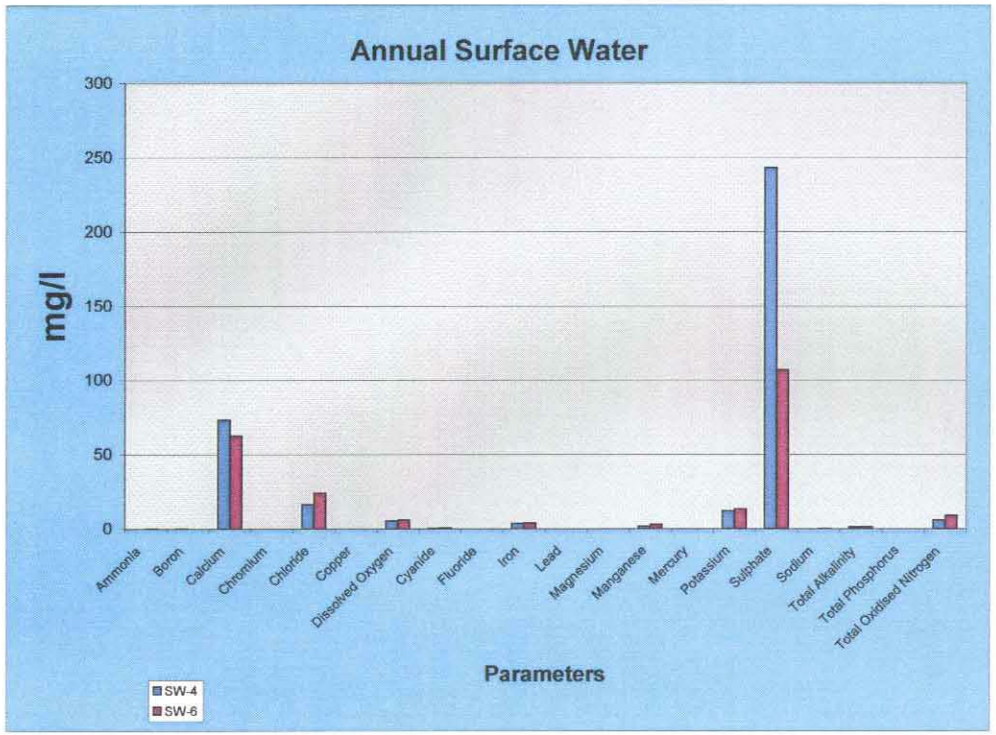
Parameter	Units	15-Jul-08	A1 Waters	A2 Waters	A3 Waters
Ammonical Nitrogen	mg/l	12.21	-	-	-
BOD	mg/l O_2	17	5	5	7
Boron	mg/l	0.044	2	2	2
Cadmium	ug/l	<.09	0.005	0.005	0.005
Calcium	mg/l	171.60	-	-	-
Chloride	mg/l	149.2	250	250	250
Chromium	mg/l	<0.00093	0.05	0.05	0.05
COD	mg/l O_2	800	-	-	40
Conductivity	us/cm	1343	1000	1000	1000
Copper	mg/l	0.002	0.05	0.1	1
Cyanide	ug/l	0.1	0.05	0.05	0.05
Fluoride	mg/l	0.78	1	1.7	1.7
Iron	mg/l	2.213	0.2	2	2
Magnesium	mg/l	20.23	-	-	-
Manganese	mg/l	1.465	0.05	0.3	1
Mercury	ug/l	<0.2	0.001	0.001	0.001
pH	pH Units	6.6	5.5-8.5	5.5-8.5	5.5-8.5
Potassium	mg/l	16	-	-	-
Total Oxidised Nitrogen	mg/l	<0.03	-	-	-
Sodium	mg/l	66.5	-	-	-
Sulphate	mg/l	62.69	200	200	200
Temperature	^0C	15	-	-	-
Total Phosphorus	mg/l	2.726	-	-	-
Zinc	mg/l	0.009	3	5	5

Annual Leachate at Mohill Landfill 2008

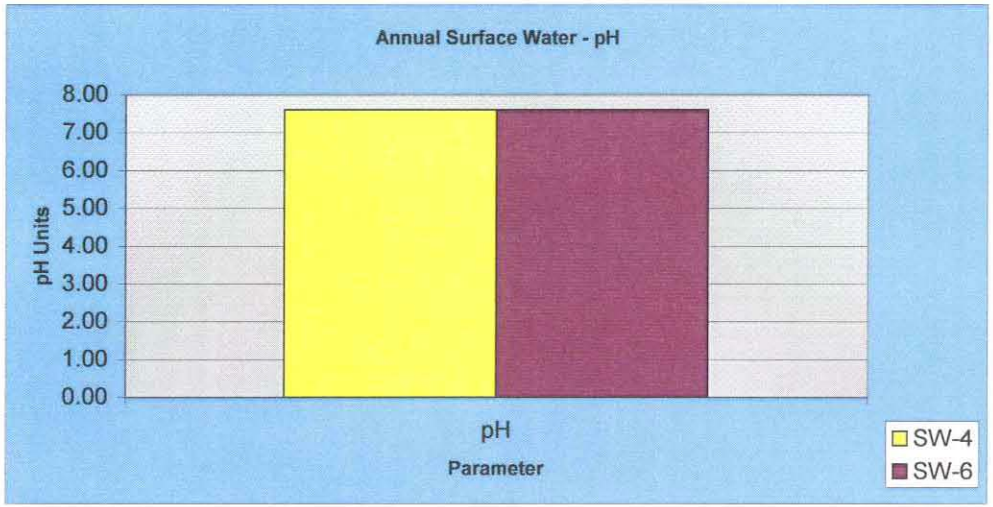


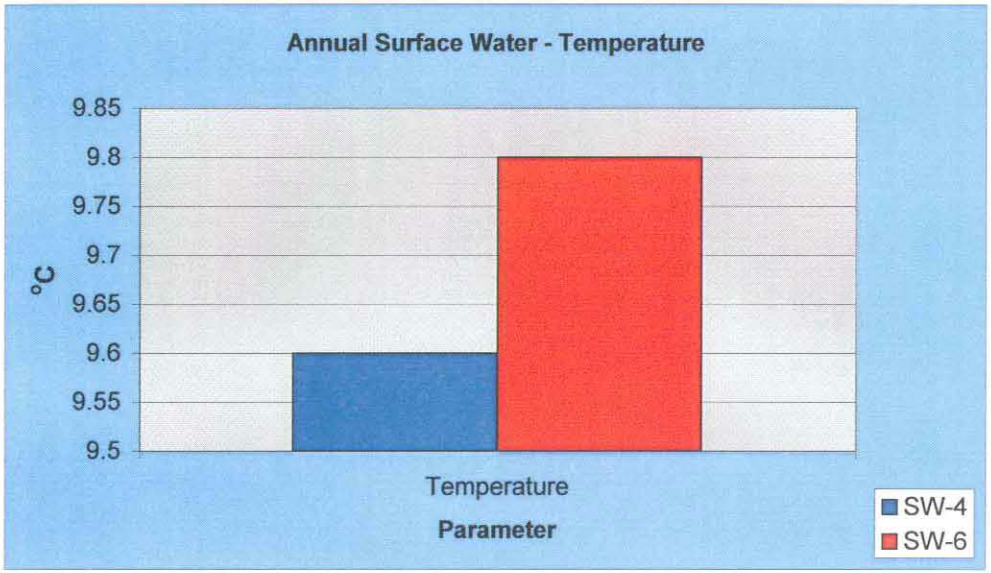
Mohill 2008 - Annual Surface Water					Mohill 2008 - Annual Ground Water						
Parameter	Units	SW-4	SW-6	Surface Water Regulations, 1989 - Class A1, A2, A3	MW 05 - S	MW 05 - D	MW 06 - S	MW 06 - D	MW 08 - S	MW 08 - D	EPA GW Interim Guideline Value
Ammonia	mg/l	<0.09	0.15		0.09	<0.09	0.24	0.47	<0.09	0.27	
Boron	mg/l	0.222	0.101	2	0.109	3.341	0.208	3.312	0.134	0.084	1
Cadmium	ug/l	<0.09	<0.09	-	<0.09	<0.09	1	<0.09	<0.09	<0.09	5
Calcium	mg/l	73.33	62.81	-	146.2	36.49	319.1	32.28	105.7	103.3	200
Chromium	mg/l	0.003	0.009	0.05	0.013	0.001	0.06	0.002	0.001	0.003	0.03
Chloride	mg/l	16.3	24.07								30
Copper	mg/l	0.004	0.007	0.05, 0.1, 1	0.008	0.005	0.053	0.007	0.005	0.008	30
Conductivity	uscm	369	328		662	891	664	1191	840	633	
Dissolved Oxygen	%	48	32		13.8	25	16.5	30	30	25.9	
Dissolved Oxygen	mg/l	5.4	6.1		1.1	3.4	1.1	3	3.4	2.8	
Cyanide	mg/l				0.01	<0.005	<0.005	<0.005	<0.005	0.007	0.01
Fluoride	mg/l				0.22	5.62	0.35	**13.04**	0.73	0.15	1
Iron	mg/l	0.483	0.591	0.2, 2, 2	4.829	0.49	49.13	0.754	0.480	3.35	0.2
Lead	mg/l	0.001	0.001	0.05	0.003	0.003	0.027	0.002	0.002	0.002	0.01
Magnesium	mg/l	3.64	3.97	-	9.74	32.27	16.43	14.08	30.45	4.65	50
Manganese	mg/l	0.037	0.044	0.05, 0.3, 1	0.111	0.407	0.641	0.294	0.029	0.049	0.05
Mercury	mg/l	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.001
pH	pH units	7.60	7.6		7.1	7.5	7.2	7.6	7.2	7.3	
Phenols	ug/l										0.5
Potassium	mg/l	1.77	3	-							5
Sulphate	mg/l	<2.11	<2.11	200	15	141	31	196	20	28	200
Sodium	mg/l	12.02	13.21	-							150
Temperature	(^{0}C)	9.6	9.8		11	11	11	11	10.7	10.5	
Total Alkalinity	mg/l	243	107	No abnormal change	492	448	425	425	458	265	No abnormal change
Total Phosphorus	mg/l	0.091	0.158	-	0.077	0.047	0.494	0.102	0.039	0.94	
Total Oxidised Nitrogen	mg/l	1.27	1.54	-							No abnormal change
Zinc	mg/l	0.0074	0.0111	3, 5, 5	13.40	7.90	0.139	0.0082	0.0062	0.014	0.1
Faecal Coliforms	No/100ml				0	1	0	0	1	14	0 counts / 100ml
Total Coliforms	No/100ml				1	40	4	61	2	26	0 counts / 100ml
Semivolatile Organic Compounds	ug/l				<1	<1	<1	<1	<1	<1	
Solids (Total Dissolved)	mg/l	6	9		380	543	518	746	466	364	
Total Organic Carbon	mg/l				2.24	2.1	17.9	2.48	1.59	3.54	
Volatile Organic Carbons	ug/l				26.659	<1	31.925	82.518	<1	75.02	

Mohill 2008 - Annual Surface Water Charts For SW 4 & SW 6

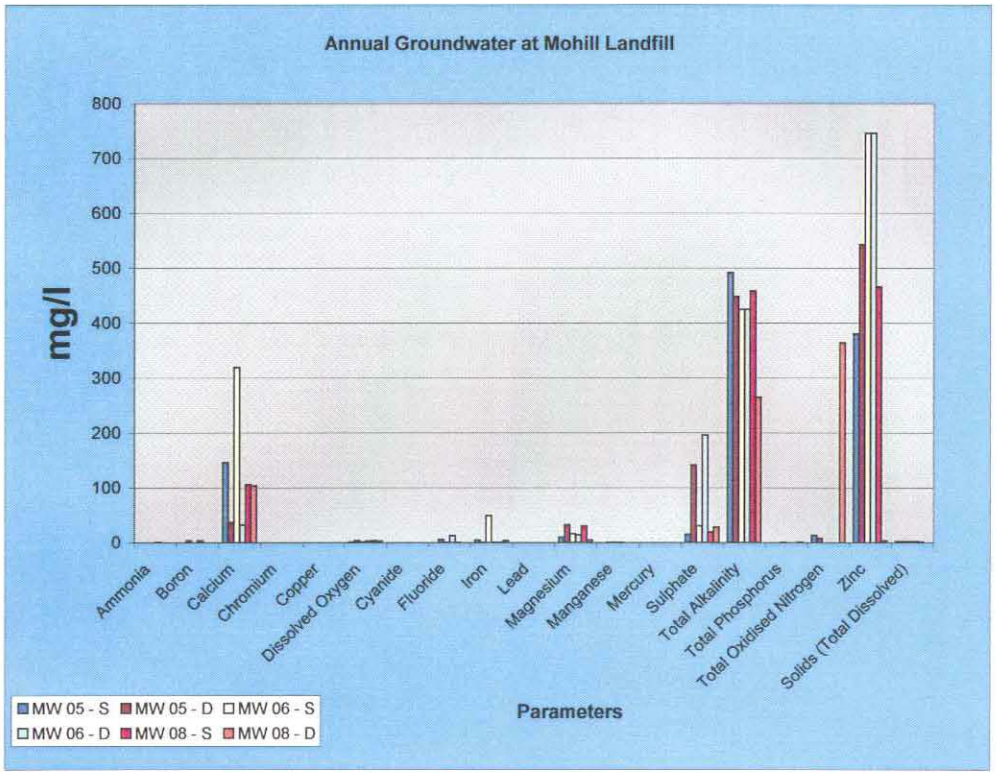


Mohill 2008 - Annual Surface Water Charts For SW 4 & SW 6

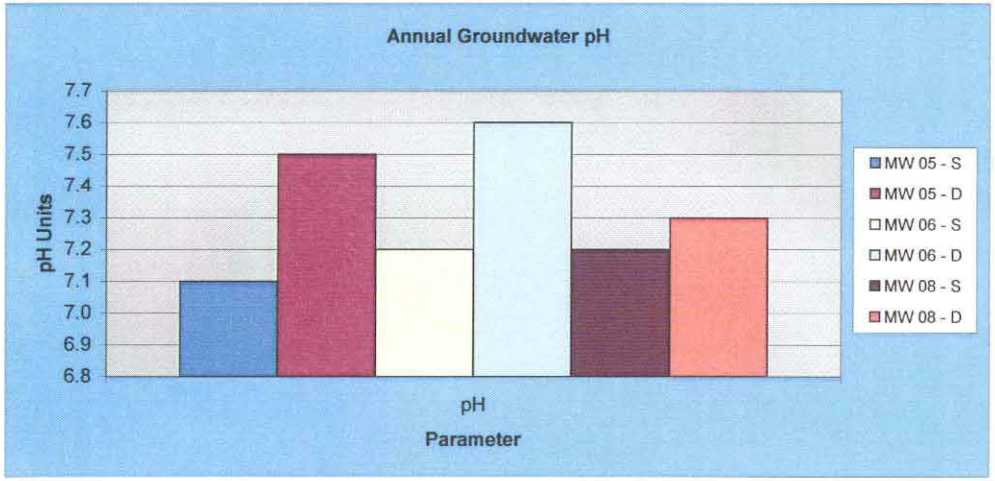


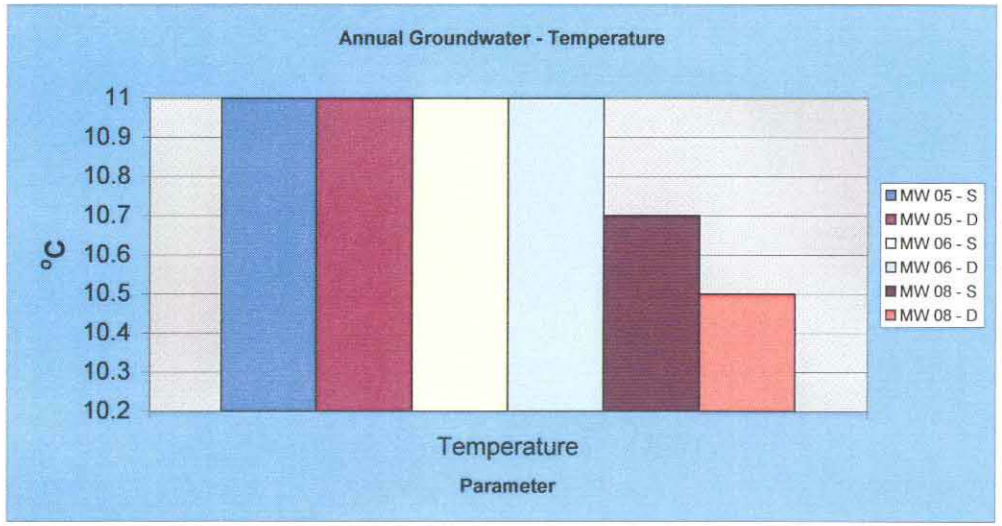


Mohill 2008 - Annual Ground Water Charts For Mohill Landfill



Mohill 2008 - Annual Ground Water Charts For Mohill Landfill





2008 Annual EPA Results~Mohill Landfill

Parameter	Units	SW-4 4-12-2008	SW-6 4-12-2008	Leachate 04-12-2008	Surface Water Regulations, 1989 - Class A1, A2, A3	MW 05 - D 4-12-2008	MW 06 - D 4-12-2008	MW 08 - D 4-12-2008	EPA GW Interim Guideline Value
Ammonia	mg/l N	0.14	0.11	3.36		1.1	0.84	0.04	
Boron	mg/l	<0.05	<0.05	0.0526	2	3.9444	3.2246	0.0535	1
BOD	mg/l	<2.0	<2.0	<2.0	-	nm	nm	nm	
COD	mg/l	49	48	56	-	nm	nm	nm	
Cadmium	ug/l	<0.10	<0.10	<0.10	-	0.2	<0.10	<0.10	5
Calcium	mg/l	42.46	46.35	134.74	-	38.16	33.6	87.97	200
Chromium	mg/l	<0.001	<0.001	0.0038	0.05	0.0061	0.0043	<0.001	0.03
Chloride	mg/l	22	27	237		12	15	44	30
Conductivity	uS/cm	284	322	1493		963	1031	606	
Copper	mg/l	<.002	<0.002	0.0027	0.05, 0.1, 1	0.0068	<.003	<0.001	30
Cyanide	mg/l	nm	nm	<0.05		<0.05	<0.05	<0.05	0.01
Fluoride	mg/l	nm	nm	nm		5.39	7.65	0.24	1
Iron	mg/l	0.4734	0.4384	4.9873	0.2, 2, 2	3.0293	0.5422	0.1676	0.2
Lead	mg/l	<0.001	<0.001	<0.001	0.05	0.007	<0.001	<0.001	0.01
Magnesium	mg/l	2.55	2.57	10.2	-	25.94	26.78	3.14	50
Manganese	mg/l	0.0539	0.0496	0.7891	0.05, 0.3, 1	0.5255	0.2186	0.0049	0.05
Mercury	mg/l	<0.0001	<0.0001	<0.0001	-	<0.0001	<0.0001	<0.0001	0.001
pH	pH units	7.5	7.5	6.7	-	7.8	7.7	7.2	
Phenols	ug/l	nm	nm	nm	-	<10	<10	<10	0.5
Potassium	mg/l	3.22	3.03	5.89	-	7.35	5.77	1.23	5
Sulphate	mg/l	6.9	7.9	78.6	200	144.6	118.1	9	200
Sodium	mg/l	8.75	11.56	161.43	-	150.72	170.36	30.24	150
Temperature	^{0}C	4.7	4.9	7	-	10.6	10.6	9.7	
Total Alkalinity	mg/l	nm	nm	nm	No abnormal change	nm	nm	nm	No abnormal change
Ortho Phosphate	mg/l	0.13	0.08	<.03	-	0.04	0.04	0.02	
Total Oxidised Nitrogen	mg/l	0.41	0.60	<.14	-	<0.05	<0.05	0.29	No abnormal change
Zinc	mg/l	0.0040	0.0041	0.0157	3, 5, 5	0.0166	0.0055	0.0023	0.1
Faecal Coliforms	No/100ml	nm	nm	nm		nm	nm	nm	0 counts / 100ml
Total Coliforms	No/100ml	nm	nm	nm		nm	nm	nm	0 counts / 100ml

nm = Not measured

| PRTR# : W0065 | Facility Name : Mohill Landfill | Filename : W0065_2008.xls | Return Year : 2008

31/03/2009 12:12

Environmental Protection Agency

AER Returns Worksheet

Version 1.1.04

REFERENCE YEAR	2008

1. FACILITY IDENTIFICATION

Parent Company Name	Leitrim County Council
Facility Name	Mohill Landfill
PRTR Identification Number	W0065
Licence Number	W0065-01

Waste or IPPC Classes of Activity

No.	class_name
3.1	Deposit on, in or under land (including landfill).
3.4	Surface impoundment, including placement of liquid or sludge discards into pits, ponds or lagoons.
3.13	Storage prior to submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where the waste concerned is produced.
4.13	Storage of waste intended for submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where such waste is produced.

Address 1	Tullybardan
Address 2	Mohill
Address 3	Co Leitrim
Address 4	
Country	Ireland
Coordinates of Location	506200.000
River Basin District	IEGBNISH
NACE Code	382
Main Economic Activity	Waste treatment and disposal
AER Returns Contact Name	Director of Services (W0065)
AER Returns Contact Email Address	sscott@leitrimcoco.ie
AER Returns Contact Position	Environment Section
AER Returns Contact Telephone Number	071-9620005
AER Returns Contact Mobile Phone Number	
AER Returns Contact Fax Number	0719621982
Production Volume	0.0
Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	0
Number of Employees	0
User Feedback/Comments	Site Closed
Web Address	

2. PRTR CLASS ACTIVITIES

Activity Number	Activity Name
5d	Landfills
5c	Installations for the disposal of non-hazardous waste

3. SOLVENTS REGULATIONS (S.I. No. 543 of 2002)

Is it applicable?	
Have you been granted an exemption ?	
If applicable which activity class applies (as per Schedule 2 of the regulations) ?	
Is the reduction scheme compliance route being used ?	

4.1 RELEASES TO AIR

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

RELEASES TO AIR								
POLLUTANT		METHOD				QUANTITY		
			Method Used					
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
03	**Carbon dioxide (CO2)**	C	Oth	Landgem US EPA package 2005 Version 3.2	412300000.0	412300000.0	0.0	0.0
01	Methane (CH4)	C	Oth	Landgem US EPA package 2005 Version 3.2	153500000.0	153500000.0	0.0	0.0

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

SECTION B : REMAINING PRTR POLLUTANTS

RELEASES TO AIR								
POLLUTANT		METHOD				QUANTITY		
			Method Used					
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

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

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

RELEASES TO AIR								
POLLUTANT		METHOD				QUANTITY		
			Method Used					
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

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

Additional Data Requested from Landfill operators

For the purposes of the National Inventory on Greenhouse Gases, landfill operators are requested to provide summary data on landfill gas (Methane) flared or utilised on their facilities to accompany the figures for total methane generated. Operators should only report their Net methane (CH4) emission to the environment under T(total) KG/yr for Section A: Sector specific PRTR pollutants above. Please complete the table below:

Landfill: Mohill Landfill

Please enter summary data on the quantities of methane flared and / or utilised

	T (Total) kg/Year	M/C/E	Method Used: Method Code	Method Used: Designation or Description	Facility Total Capacity m3 per hour	
Total estimated methane generation (as per site model)	153500000.0	C	Oth	Landgem US EPA package 2005 Version 3.2	N/A	
Methane flared	0.0				0.0	(Total Flaring Capacity)
Methane utilised in engine/s	0.0				0.0	(Total Utilising Capacity)
Net methane emission (as reported in Section A above)	153500000.0	C	Oth	Landgem US EPA package 2005 Version 3.2	N/A	

4.2 RELEASES TO WATERS

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

Data on ambient monitoring of storm/surface water or groundwater, conducted as part of your licence requirements, should NOT be submitted under AER / PRTR Reporting as this only concerns Releases from your facility

RELEASES TO WATERS								
POLLUTANT			Method Used		QUANTITY			
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

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

SECTION B : REMAINING PRTR POLLUTANTS

RELEASES TO WATERS								
POLLUTANT			Method Used		QUANTITY			
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

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

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

RELEASES TO WATERS								
POLLUTANT			Method Used		QUANTITY			
Pollutant No	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

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

4.3 RELEASES TO WASTEWATER OR SEWER

SECTION A : PRTR POLLUTANTS

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER								
POLLUTANT		METHOD			QUANTITY			
			Method Used					
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
06	Ammonia (NH3)	E	Estmate	A non standard estimation procedure	39.0	39.0	0.0	0.0
18	Cadmium and compounds (as Cd)	E	Estmate	A non standard estimation procedure	0.000329	0.000329	0.0	0.0
79	**Chlorides (as Cl)**	E	Estmate	A non standard estimation procedure	545.0	545.0	0.0	0.0
19	Chromium and compounds (as Cr)	E	Estmate	A non standard estimation procedure	0.004	0.0	0.0	0.0
20	Copper and compounds (as Cu)	E	Estmate	A non standard estimation procedure	0.0073	0.0073	0.0	0.0
82	Cyanides (as total CN)	E	Estmate	A non standard estimation procedure	0.365	0.365	0.0	0.0
23	Lead and compounds (as Pb)	E	Estmate	A non standard estimation procedure	0.024	0.024	0.0	0.0
21	Mercury and compounds (as Hg)	E	Estmate	A non standard estimation procedure	0.00073	0.00073	0.0	0.0
12	Total nitrogen	E	Estmate	A non standard estimation procedure	0.1095	0.1095	0.0	0.0
13	Total phosphorus	E	Estmate		9.9499	9.9499	0.0	0.0

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

SECTION B : REMAINING POLLUTANT EMISSIONS (as required in your Licence)

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER								
POLLUTANT		METHOD			QUANTITY			
			Method Used					
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

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

4.4 RELEASES TO LAND

SECTION A : PRTR POLLUTANTS

RELEASES TO LAND							
POLLUTANT		METHOD			QUANTITY		
			Method Used				
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year
					0.0	0.0	0.0

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

SECTION B : REMAINING POLLUTANT EMISSIONS (as required in your Licence)

RELEASES TO LAND							
POLLUTANT		METHOD			QUANTITY		
			Method Used				
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year
					0.0	0.0	0.0

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

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

[PRTR4 : W0065] Facility Name : Mohill Landfill [Filename : W0065_2009.xls] Return Year : 2009]

31/03/2009 12:12

Transfer Destination	European Waste Code	Hazardous	Quantity T/Year	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Name and Licence / Permit No. of Recoverer / Disposer / Broker	Address of Recoverer / Disposer / Broker	Name and Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)	Licence / Permit No. of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
						M/C/E	Method Used					

* Select a row by double-clicking the Description of Waste then click the delete button