Appendix 3 Leachate Visual Inspection

		- 🛋		, 1			2702002
		Type of sample:	Leachate	Leachate	achate	Leachate	Leachate
		Location code:	00078/1-LM1	00078/1-LM3	00078/1-LM5	00078/1-LM7	00078/1-LM8
	Sampling point:		Layering of sample - clear with red solids	Light brown colour	Black colour	Dark brown colour	Dark brown colour
		Sampled by:	JMcG/JS	JMcG/JS	JMcG/JS	JMcG/JS	JMcG/JS
		Time Sampled:	12:15	12;20	12:30	12:35	12:40
	Start/E	nd - Dates of Analysis:					1
•		Status of results:	Final Report	Final Report	Final Report	Final Report	Final Report
Parameter	Units	Limits -					
Depth of Borehole	m		nm	nm	nm	nm	nm .
Leachate Level	m .		nm	nm	nm	nm	nm
Temperature	°C		10.0	12.0	21.0	34.0	37.0
Н	рН		7.1	7,0	7.4	7.5	7.9
Conductivity	μS/cm		3900.0	3910.0	11850.0	25000.0	25800.0
Biochemical Oxygen Demand	mg/l O2		12.6	38.1	88.0	188.0	345.0
Chemical Oxygen Demand	mg/l O2		169	356 Jile	980	3505	5005
Ammonia	mg/l N		175,927	221.472	757.897	2056.106	2237.512
Chloride	mg/l Cl		299	296	1131	2648	2661
Total Oxidised Nitrogen	mg/l N		0.3	The red <0,3	<0.3	<0,3	<0.3
Nitrite	mg/l N		<0.005	√0.005	<0.005	<0.005	<0.005
Ortho-Phosphate	mg/l P		0.129	1.072	1.257	18,197	22.023
			COPT				

Comments:

- 1) Results highlighted and in bold are outside specified limits,
- All Metals Analysed in the EPA Dublin Laboratory, Cyanide Analysed in the EPA Cork Laboratory. Phenols Analysed in the EPA Castlebar Laboratory.
- 4) nd
- "Not measured"
 "None detected"
 "No time" Time not recorded nt
- tntc
- "Too numerous to count"
 "Field measured parameters" 7) F

Signed:

Michael Neill, Regional Chemist

Date: only of the feeting the feeting the consent of congregation that required the congregation of the consent of the congregation of the c

Report number: KK2400631/1

Appendix 4 Surface water composition

			manoinioi ji 1101.		m 14m4 14	2702070	4704071	Z4VZV40	Z4VZV4 V	. (
			Type of sample:		Surface Water	Surface Water	Surfa Water	Surface Water	Surface Water	•
			Location code:	00078/1 - SW1	00078/1 - SW2	00078/1 - SW3	00078/1 - SW4	00078/1 - SW6	00078/1-SWD	
			Sampling point:	Clear yellow colour	Clear sample		Slight yellow colour - low flow, lot of grass	Clear sample		
			Sampled by:	JMcG/JS	JMcG/JS	JMcG/JS	JMcG/JS	JMcG/JS	JMcG/JS	
			Time Sampled:	15:35	13:45	13:00	11:45	13:30	11;40	
1		Start/End - D	ates of Analysis:		•] .				
		\$	Status of results:	Final Report	Final Report	Final Report	Final Report	Final Report	Final Report	
De	romotor	Unite	Limita							
F	Temperature	°C		14.1	11.2	12.3	10.6	11.2	14,0	· .
F	Dissolved Oxygen	% Saturation		90.7	90.1	101.7	82.0	106.6	77.4	-
	рН	pН		7.9	7,9	8,3	7.7	8.2	7.9	
	Conductivity	μS/cm		706.0	824.0	346.0	637,0	394.0	988.0	
	Biochemical Oxygen Demand	mg/l O2		4.0	0.9	2.4	1.4	2.3	5.3	
	Chemical Oxygen Demand	mg/l O2	·	40	24	34 net 15	35	39	40	
	Ammonia	mg/i N		0,062	0.005	0.013	0.034	0,04	1.511	
	Chloride	mg/l Cl		29	30	ES 0 5019	20	18	46	
	Total Oxidised Nitrogen	mg/l N		2.1	5.9	2.7	1.5	3.0	2.7	
	Nitrite	mg/l N		0.04	0.012	0.015	<0.001	0.015	0.058	
	Ortho-Phosphate	mg/I P		<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	
	Suspended Solids	mg/l		<10.0	¢01<100	<10	<10	16.0	<11	· · · · · · · · · · · · · · · · · · ·
F				7. 100	of cold					

Comments:

- 1) Results highlighted and in bold are outside specified limits.
- All Metals Analysed in the EPA, Dublin Laboratory, Cyanide Analysed in the EPA Cork Laboratory, Phenols Analysed in the EPA Castlebar Laboratory.

- 3) nm "Not measured"
 4) nd "None detected"
 5) nt "No time" Time not recorded
 6) tntc "Too numerous to count"
 7) F "Field measured parameters"

Michael Neill, Regional Chemist

Report number:KK2400628/1

Appendix 5 Surface water visual inspection

Date and time of inspection: 03/4/04

Name of inspection personnel: Olga Broderick

Signature:

Weather Conditions: Calm Overcast Day

Monitoring Location	Visual Inspection	Odour Inspection	Suspended Solids (mg/L)
SW1 (Bridge above landfill entrance)	Dark Peaty colour	No odour	Not taken
SW2 (stream prior to Ollatrim River)	Clear	No odour	Not taken
SW3 (Ollatrim River before stream enters)	Clear	No odour	Not taken
SW4 (Bog above landfill)	Dark Peaty colour from bog (a lot of grass growth)	No odour	Not taken
SW6(Ollatrim River after stream enters)	Clear tion of red	No odour	Not taken
Discharge point from the surface water lagoon to the Ballaghveny Stream.	Clear For Inspection	No odour	Not taken

Comments:

There appears to be no visual or nasal evidence of contamination of the surface waters around the landfill by leachate.

North Tinnerary County Council

Date and time of Inspection: 10/4/04

Name of inspection personnel: Olga Broderick

Signature:

Weather Conditions: Cloudy Overcast Day

Monitoring Location	Visual Inspection	Odour Inspection	Suspended Solids (mg/L)
SW1 (Bridge above landfill entrance)	Dark Peaty colour	No odour	Not taken
SW2 (stream prior to Ollatrim River)	Clear	No odour	Not taken
SW3 (Ollatrim River before stream enters)	Clear	No odour	Not taken
SW4 (Bog above landfill)	Dark Peaty colour from of bog (a lot of grass growth)	No odour	Not taken
SW6(Ollatrim River after stream enters)	Clear	No odour	Not taken
Discharge point from the surface water lagoon to the Ballaghveny Stream.	Clear For inspection net Consent of Copyright Owner	No odour	Not taken

Comments:

There appears to be no visual or nasal evidence of contamination of the surface waters around the landfill by leachate.

Morth Tinnerary County Council

Rallanhvonv i andfill

Date and time of Inspection: 17/4/04

Name of inspection personnel: Olga Broderick

Signature:

Weather Conditions: Sunny Day

Monitoring Location	Visual Inspection	Odour Inspection	Suspended Solids (mg/L)
SW1 (Bridge above landfill entrance)	Dark Peaty colour	No odour	Not taken
SW2 (stream prior to Ollatrim River)	Clear	No odour	Not taken
SW3 (Ollatrim River before stream enters)	Clear	No odour	Not taken
SW4 (Bog above landfill)	Dark Peaty colour from to bog (a lot of grass growth)	No odour	Not taken
SW6(Ollatrim River after stream enters)	Clear	No odour	Not taken
Discharge point from the surface water lagoon to the Ballaghveny Stream.	Clear For in the transfer out to the Consent of copyright out to the C	No odour	Not taken

Comments:

There appears to be no visual or nasal evidence of contamination of the surface waters around the landfill by leachate.

North Tinnerany County Council

Date and time of Inspection: 24/4/04

Name of inspection personnel: Olga Broderick

Signature:

Weather Conditions: Overcast Day

Monitoring Location	Visual Inspection	Odour Inspection	Suspended Solids (mg/L)
SW1 (Bridge above landfill entrance)	Dark Peaty colour	No odour	Not taken
SW2 (stream prior to Ollatrim River)	Clear	No odour	Not taken
SW3 (Ollatrim River before stream enters)	Clear	No odour	Not taken
SW4 (Bog above landfill)	Dark Peaty colour from of bog (a lot of grass growth)	No odour	Not taken
SW6(Ollatrim River after stream enters)	Clear etighte red	No odour	Not taken
Discharge point from the surface water lagoon to the Ballaghveny Stream.	Clear For the Copyright day.	No odour	Not taken

Comments:

There appears to be no visual or nasal evidence of contamination of the surface waters around the landfill by leachate.

North Tinnerary County Council

Date and time of Inspection: 01/5/04	4
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Name of inspection personnel: Olga Broderick

Signature:

Weather Conditions: Calm Dry Day

Monitoring Location	Visual Inspection	Odour Inspection	Suspended Solids (mg/L)
SW1 (Bridge above landfill entrance)	Dark Peaty colour	No odour	Not taken
SW2 (stream prior to Ollatrim River)	Clear	No odour	Not taken
SW3 (Ollatrim River before stream enters)	Clear	No odour	Not taken
SW4 (Bog above landfill)	Dark Peaty colour from to bog (a lot of grass growth)	No odour	Not taken
SW6(Ollatrim River after stream enters)	Clear charter text	No odour	Not taken
Discharge point from the surface water lagoon to the Ballaghveny Stream.	Clear For Hear Good High and Congress of C	No odour	Not taken
•			

Comments:

There appears to be no visual or nasal evidence of contamination of the surface waters around the landfill by leachate.

North Tinnerant County Council

Rallanhvenv I andfill

Revision Level: 0

Date and time of Inspection: 08/5/04

Name of inspection personnel: Olga Broderick

Signature:

Weather Conditions: Sunny Day

Monitoring Location	Visual Inspection	Odour Inspection	Suspended Solids (mg/L)
SW1 (Bridge above landfill entrance)	Dark Peaty colour	No odour	Not taken
SW2 (stream prior to Ollatrim River)	Clear	No odour	Not taken
SW3 (Ollatrim River before stream enters)	Clear	No odour	Not taken
SW4 (Bog above landfill)	Dark Peaty colour from bog (a lot of grass growth)	No odour	Not taken
SW6(Ollatrim River after stream enters)	Clear	No odour	Not taken
Discharge point from the surface water lagoon to the Ballaghveny Stream.	Clear For inspection in the Consent of copyright of the Consent of Con	No odour	Not taken

Comments:

There appears to be no visual or nasal evidence of contamination of the surface waters around the landfill by leachate.

Date and time of Inspection: 15/5/04

Name of inspection personnel: Olga Broderick

Signature:

Weather Conditions: Sunny Dry Day

Monitoring Location	Visual Inspection	Odour Inspection	Suspended Solids (mg/L)
SW1 (Bridge above landfill entrance)	Dark Peaty colour	No odour	Not taken
SW2 (stream prior to Ollatrim River)	Clear	No odour	Not taken
SW3 (Ollatrim River before stream enters)	Clear	No odour	Not taken
SW4 (Bog above landfill)	Dark Peaty colour from to bog (a lot of grass growth)	No odour	Not taken
SW6(Ollatrim River after stream enters)	Clear estimpered	No odour	Not taken
Discharge point from the surface water lagoon to the Ballaghveny Stream.	Clear For instead and Copyright Const.	No odour	Not taken

Comments:

There appears to be no visual or nasal evidence of contamination of the surface waters around the landfill by leachate.

North Tinnerary County Council

Date and time of Inspection: 22/5/04

Name of inspection personnel: Olga Broderick

Signature:

Weather Conditions: Sunny Day

Monitoring Location	Visual Inspection	Odour Inspection	Suspended Solids (mg/L)
SW1 (Bridge above landfill entrance)	Dark Peaty colour	No odour	Not taken
SW2 (stream prior to Ollatrim River)	Clear	No odour	Not taken
SW3 (Ollatrim River before stream enters)	Clear	No odour	Not taken
SW4 (Bog above landfill)	Dark Peaty colour from bog (a lot of grass growth)	No odour	Not taken
SW6(Ollatrim River after stream enters)	Clear	No odour	Not taken
Discharge point from the surface water lagoon to the Ballaghveny Stream.	Clear For in the Constitution of Consent of	No odour	Not taken

Comments:

There appears to be no visual or nasal evidence of contamination of the surface waters around the landfill by leachate.

North Tinnerary County Council

Date and time of Inspection: 29/5/04

Name of inspection personnel: Olga Broderick

Signature:

Weather Conditions: Sunny Day

Monitoring Location	Visual Inspection	Odour Inspection	Suspended Solids (mg/L)
SW1 (Bridge above landfill entrance)	Dark Peaty colour	No odour	Not taken
SW2 (stream prior to Ollatrim River)	Clear	No odour	Not taken
SW3 (Ollatrim River before stream enters)	Clear	No odour	Not taken
SW4 (Bog above landfill)	Dark Peaty colour from of bog (a lot of grass growth)	No odour	Not taken
SW6(Ollatrim River after stream enters)	Clear editor to test	No odour	Not taken
Discharge point from the surface water lagoon to the Ballaghveny Stream.	Clear For in the light out.	No odour	Not taken

Comments:

There appears to be no visual or nasal evidence of contamination of the surface waters around the landfill by leachate.

Morth Tinnerary County Council

Date and time of Inspection: 05/6/04

Name of inspection personnel: Olga Broderick

Signature:

Weather Conditions: Dry Sunny Day

Monitoring Location	Visual Inspection	Odour Inspection	Suspended Solids (mg/L)
SW1 (Bridge above landfill entrance)	Dark Peaty colour	No odour	Not taken
SW2 (stream prior to Ollatrim River)	Clear	No odour	Not taken
SW3 (Ollatrim River before stream enters)	Clear	No odour	Not taken
SW4 (Bog above landfill)	Dark Peaty colour from bog (a lot of grass growth)	No odour	Not taken
SW6(Ollatrim River after stream enters)	Clear ection of teeth	No odour	Not taken
Discharge point from the surface water lagoon to the Ballaghveny Stream.	Clear For its per contribution	No odour	Not taken

Comments:

There appears to be no visual or nasal evidence of contamination of the surface waters around the landfill by leachate.

Morth Tinnerany County Council

Date and time of Inspection: 12/6/04

Name of inspection personnel: Olga Broderick

Signature:

Weather Conditions: Dry Sunny Day

Monitoring Location	Visual Inspection	Odour Inspection	Suspended Solids (mg/L)
SW1 (Bridge above landfill entrance)	Dark Peaty colour	No odour	Not taken
SW2 (stream prior to Ollatrim River)	Clear	No odour	Not taken
SW3 (Ollatrim River before stream enters)	Clear	No odour	Not taken
SW4 (Bog above landfill)	Dark Peaty colour from bog (a lot of grass growth)	No odour	Not taken
SW6(Ollatrim River after stream enters)	Clear Holl Pur Particular	No odour	Not taken
Discharge point from the surface water lagoon to the Ballaghveny Stream.	Clear For the period to the first the constraint of the constraint	No odour	Not taken

Comments:

There appears to be no visual or nasal evidence of contamination of the surface waters around the landfill by leachate.

North Tinnerany County Council

Date and time of Inspection: 19/6/04

Name of inspection personnel: Olga Broderick

Signature:

Weather Conditions: Dry Sunny Day

Monitoring Location	Visual Inspection	Odour Inspection	Suspended Solids (mg/L)
SW1 (Bridge above landfill entrance)	Dark Peaty colour	No odour	Not taken
SW2 (stream prior to Ollatrim River)	Clear	No odour	Not taken
SW3 (Ollatrim River before stream enters)	Clear	No odour	Not taken
SW4 (Bog above landfill)	Dark Peaty colour from bog (a lot of grass growth)	No odour	Not taken
SW6(Ollatrim River after stream enters)	Clear de tion de la constant de la c	No odour	Not taken
Discharge point from the surface water lagoon to the Ballaghveny Stream.	Clear For inger our Consent of copyright our	No odour	Not taken

Comments:

There appears to be no visual or nasal evidence of contamination of the surface waters around the landfill by leachate.

North Tinnerany County Council

Rallaghveny i andfili

Date and time of Inspection: 26/6/04

Name of inspection personnel: Olga Broderick

Signature:

Weather Conditions: Overcast and Dry

Monitoring Location	Visual Inspection	Odour Inspection	Suspended Solids (mg/L)
SW1 (Bridge above landfill entrance)	Dark Peaty colour	No odour	Not taken
SW2 (stream prior to Ollatrim River)	Clear	No odour	Not taken
SW3 (Ollatrim River before stream enters)	Clear	No odour	Not taken
SW4 (Bog above landfill)	Dark Peaty colour from of bog (a lot of grass growth)	No odour	Not taken
SW6(Ollatrim River after stream enters)	Clear stion of the country of the co	No odour	Not taken
Discharge point from the surface water lagoon to the Ballaghveny Stream.	Consent of copyright own	No odour	Not taken

Comments:

There appears to be no visual or nasal evidence of contamination of the surface waters around the landfill by leachate.

North Tipperany County Council