

**TIER 2**

**ENVIRONMENTAL RISK ASSESSMENT**

**APPENDIX C**

**ALCONTROL LABORATORIES CERTIFICATE OF ANALYSIS**

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Traynor Environmental Ltd  
Belturbet Business Park  
Creeny  
Belturbet  
Co. Cavan

**Attention:** Nevin Traynor

## CERTIFICATE OF ANALYSIS

<b>Date:</b>	01 November 2010		
<b>Customer:</b>	D_TENV_BTB-10		
<b>Sample Delivery Group (SDG):</b>	101015-65	<b>Report No.:</b>	101948
<b>Your Reference:</b>	10/198TE		
<b>Location:</b>	Mullagh Dump		

We received 16 samples on Friday October 15, 2010 and 16 of these samples were scheduled for analysis which was completed on Monday November 01, 2010. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

All chemical testing (unless subcontracted) is performed at ALcontrol Hawarden Laboratories.

Asbestos testing - we are not accredited for screening soil samples for asbestos fibres. We are only accredited to identify asbestos fibres in bulk material (ACM).

Approved By:

**Iain Swinton**

Business Director - Land, UK & Ireland



Validated

## ALcontrol Laboratories Analytical Services

**SDG:** 101015-65 **Customer:** Traynor Environmental Ltd  
**Job:** D\_TENV\_BT B-10 **Attention:** Nevin Traynor  
**Client Reference:** 10/198TE **Order No.:**  
**Location:** Mullagh Dump **Report No:** 101948

### Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
2240250	SW1			14/10/2010
2240276	SW2			14/10/2010
2240312	SW3			14/10/2010
2240336	SW4			14/10/2010
2240133	T11			14/10/2010
2240375	T11			14/10/2010
2240161	T13			14/10/2010
2240381	T13			14/10/2010
2240193	T15			14/10/2010
2240209	T18			14/10/2010
2240384	T18			14/10/2010
2240221	T21			14/10/2010
2240393	T21			14/10/2010
2239995	T3			14/10/2010
2240045	T6			14/10/2010
2240097	T8			14/10/2010

Only received samples which have had analysis scheduled will be shown on the following pages.

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SDG: 101015-65  
Job: D\_TENV\_BT B-10  
Client Reference: 10/198TE  
Location: Mullagh Dump

Customer: Traynor Environmental Ltd  
Attention: Nevin Traynor  
Order No.:  
Report No: 101948

LIQUID Results Legend	Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Container																									
						2240276	2240250	2240221	2240209	2240193	2240161	2240133	2240097	2240045	2239995															
<input checked="" type="checkbox"/> Test						PLAS BOT (D)	H2SO4 (Dublin)	60g VOC Dublin	11 glass bottle (D)	PLAS BOT (D)	H2SO4 (Dublin)	60g VOC Dublin	11 glass bottle (D)	PLAS BOT (D)	H2SO4 (Dublin)	60g VOC Dublin	11 glass bottle (D)	PLAS BOT (D)	H2SO4 (Dublin)	60g VOC Dublin	11 glass bottle (D)	PLAS BOT (D)	H2SO4 (Dublin)	60g VOC Dublin	11 glass bottle (D)	PLAS BOT (D)	H2SO4 (Dublin)	60g VOC Dublin	11 glass bottle (D)	
Acid Herbicides (W)	All					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Alkalinity as CaCO3	All									X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Ammonium	All									X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Anions by Kone (w)	All					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
BOD True Total	All									X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Conductivity (at 20 deg.C)	All									X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Cyanide Comp/Free/Total/Thiocyanate	All					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Dissolved Metals by ICP-MS	All						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
EPH (DRO) (C10-C40) Aqueous (W)	All					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Fluoride	All						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Mercury Dissolved	All					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Metals by ICap-OES Dissolved (W)	All						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Mineral Oil C10-40 Aqueous (W)	All					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
OC, OP Pesticides and Triazine Herb	All					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
PAH Spec MS - Aqueous (W)	All					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
pH Value	All						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Phenols by HPLC (W)	All					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SVOC MS (W) - Aqueous	All					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
TBT/TPT/DBT (W)*	All					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Total Dissolved Solids	All						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Total Metals by ICP-MS	All						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

SDG: 101015-65  
 Job: D\_TENV\_BT B-10  
 Client Reference: 10/198TE  
 Location: Mullagh Dump

Customer: Traynor Environmental Ltd  
 Attention: Nevin Traynor  
 Order No.:  
 Report No: 101948

<b>LIQUID</b>  <b>Results Legend</b>  <input checked="" type="checkbox"/> Test  <input type="checkbox"/> No Determination Possible	Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Container
	2240276	SW2			PLUS BOT (D) H2SO4 (Dulcin) 60g VOC Dulcin 11 glass bottle (D)
	2240260	SW1			PLUS BOT (D) H2SO4 (Dulcin) 60g VOC Dulcin 11 glass bottle (D)
	2240221	T21			PLUS BOT (D) H2SO4 (Dulcin) 60g VOC Dulcin 11 glass bottle (D)
	2240209	T18			PLUS BOT (D) H2SO4 (Dulcin) 60g VOC Dulcin 11 glass bottle (D)
	2240193	T15			PLUS BOT (D) H2SO4 (Dulcin) 60g VOC Dulcin 11 glass bottle (D)
2240161	T13			PLUS BOT (D) H2SO4 (Dulcin) 60g VOC Dulcin 11 glass bottle (D)	
2240133	T11			PLUS BOT (D) H2SO4 (Dulcin) 60g VOC Dulcin 11 glass bottle (D)	
2240097	T8			PLUS BOT (D) H2SO4 (Dulcin) 60g VOC Dulcin 11 glass bottle (D)	
2240045	T6			PLUS BOT (D) H2SO4 (Dulcin) 60g VOC Dulcin 11 glass bottle (D)	
2239995	T3			PLUS BOT (D) H2SO4 (Dulcin) 60g VOC Dulcin 11 glass bottle (D)	
Total Organic and Inorganic Carbon	All	NDPs: 0 Tests: 12	X	X	X
Triazine Herbicides (W)*	All	NDPs: 0 Tests: 12	X	X	X
VOC MS (W)	All	NDPs: 0 Tests: 12	X	X	X

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 Report No: 101948

LIQUID Results Legend	Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Container	2240312		2240356	
						11 glass bottle (G)	11 glass bottle (G)	11 glass bottle (G)	11 glass bottle (G)
X Test No Determination Possible									
Acid Herbicides (W)	All					NDPs: 0 Tests: 12	X	X	
Alkalinity as CaCO3	All					NDPs: 0 Tests: 12	X		X
Ammonium	All					NDPs: 0 Tests: 12		X	X
Anions by Kone (w)	All					NDPs: 0 Tests: 12	X		X
BOD True Total	All					NDPs: 0 Tests: 12	X		X
Conductivity (at 20 deg.C)	All					NDPs: 0 Tests: 12	X		X
Cyanide Comp/Free/Total/Thiocyanate	All					NDPs: 0 Tests: 12	X	X	
Dissolved Metals by ICP-MS	All					NDPs: 0 Tests: 12	X		X
EPH (DRO) (C10-C40) Aqueous (W)	All					NDPs: 0 Tests: 12	X	X	
ride	All					NDPs: 0 Tests: 12	X		X
Mercury Dissolved	All					NDPs: 0 Tests: 12	X	X	
Metals by iCap-OES Dissolved (W)	All					NDPs: 0 Tests: 12	X		X
Mineral Oil C10-40 Aqueous (W)	All					NDPs: 0 Tests: 12	X	X	
OC, OP Pesticides and Triazine Herb	All					NDPs: 0 Tests: 12	X	X	
PAH Spec MS - Aqueous (W)	All					NDPs: 0 Tests: 12	X	X	
pH Value	All					NDPs: 0 Tests: 12	X		X
Phenols by HPLC (W)	All					NDPs: 0 Tests: 12	X	X	
SVOC MS (W) - Aqueous	All					NDPs: 0 Tests: 12	X	X	
TBT/TPT/DBT (W)*	All					NDPs: 0 Tests: 12	X	X	
Total Dissolved Solids	All					NDPs: 0 Tests: 12	X		X
Total Metals by ICP-MS	All					NDPs: 0 Tests: 12	X		X

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## ALcontrol Laboratories Analytical Services

SDG: 101015-65  
 Job: D\_TENV\_BT B-10  
 Client Reference: 10/198TE  
 Location: Mullagh Dump

Customer: Traynor Environmental Ltd  
 Attention: Nevin Traynor  
 Order No.:  
 Report No: 101948

LIQUID Results Legend	Lab Sample No(s)	2240312		2240336	
		SW3	SW4		
<input checked="" type="checkbox"/> Test <input type="checkbox"/> No Determination Possible	Customer Sample Ref.				
	AGS Ref.				
	Depth (m)				
	Container				
Total Organic and Inorganic Carbon	All	NDPs: 0 Tests: 12	X	X	
Triazine Herbicides (W)*	All	NDPs: 0 Tests: 12	X	X	
VOC MS (W)	All	NDPs: 0 Tests: 12	X		

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 Order No.:  
 Report No: 101948

SOLID	Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Container	2240353	2240354	2240351	2240375	
						T21	T18	T13	T11	
<b>Results Legend</b>										
<input checked="" type="checkbox"/> Test										
<input type="checkbox"/> No Determination Possible										
Alkali Metals by iCap-OES (Soil)	All					NDPs: 0 Tests: 4	X	X	X	X
Alkalinity as CaCO3	All					NDPs: 0 Tests: 4	X	X	X	X
Ammonium Soil by Titration	All					NDPs: 0 Tests: 4	X	X	X	X
Anions by Kone (soil)	All					NDPs: 0 Tests: 4	X	X	X	X
Conductivity (at 20 deg.C)	All					NDPs: 0 Tests: 4	X	X	X	X
EPH by FID	All					NDPs: 0 Tests: 4	X	X	X	X
Metals by iCap-OES (Soil)	Copper					NDPs: 0 Tests: 4	X	X	X	X
	Iron					NDPs: 0 Tests: 4	X	X	X	X
	Lead					NDPs: 0 Tests: 4	X	X	X	X
	Manganese					NDPs: 0 Tests: 4	X	X	X	X
	Mercury					NDPs: 0 Tests: 4	X	X	X	X
	Nickel					NDPs: 0 Tests: 4	X	X	X	X
	Phosphorus					NDPs: 0 Tests: 4	X	X	X	X
	Zinc					NDPs: 0 Tests: 4	X	X	X	X
Mineral Oil	All					NDPs: 0 Tests: 4	X	X	X	X
PAH by GCMS	All					NDPs: 0 Tests: 4	X	X	X	X
pH	All					NDPs: 0 Tests: 4	X	X	X	X
Sample description	All					NDPs: 0 Tests: 4	X	X	X	X
VOC MS (S)	All					NDPs: 0 Tests: 4	X	X	X	X

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## ALcontrol Laboratories Analytical Services

<b>SDG:</b>	101015-65	<b>Customer:</b>	Traynor Environmental Ltd
<b>Job:</b>	D_TENV_BT B-10	<b>Attention:</b>	Nevin Traynor
<b>Client Reference:</b>	10/198TE	<b>Order No.:</b>	
<b>Location:</b>	Mullagh Dump	<b>Report No.:</b>	101948

## Sample Descriptions

## Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm
<b>Lab Sample No(s)</b>	<b>Customer Sample Ref.</b>	<b>Depth (m)</b>	<b>Colour</b>	<b>Description</b>	<b>Grain size</b>	<b>Inclusions</b>	<b>Inclusions 2</b>		
2240375	T11		Black	Sludge /	> 10 mm	Vegetation	None		
2240381	T13		Black	Sludge /	> 10 mm	Vegetation	Glass		
2240384	T18		Black	Sludge /	> 10 mm	Vegetation	Stones		
2240393	T21		Beige	Clay	0.1 - 2 mm	Stones	N/A		

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

For coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

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## Test Completion Dates

Lab Sample No(s)	2239995	2240045	2240097	2240133	2240161	2240193	2240209	2240221	2240250	2240276
Customer Sample Ref.	T3	T6	T8	T11	T13	T15	T18	T21	SW1	SW2
AGS Ref.										
Depth										
Type	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID
Acid Herbicides (W)	20/10/2010	20/10/2010	20/10/2010	20/10/2010	20/10/2010	20/10/2010	20/10/2010	20/10/2010	20/10/2010	20/10/2010
Alkalinity as CaCO3	21/10/2010	21/10/2010	21/10/2010	21/10/2010	21/10/2010	21/10/2010	21/10/2010	21/10/2010	19/10/2010	19/10/2010
Ammonium	22/10/2010	22/10/2010	20/10/2010	20/10/2010	22/10/2010	20/10/2010	20/10/2010	25/10/2010	19/10/2010	19/10/2010
Anions by Kone (w)	21/10/2010	21/10/2010	21/10/2010	21/10/2010	21/10/2010	21/10/2010	21/10/2010	21/10/2010	19/10/2010	19/10/2010
BOD True Total	21/10/2010	21/10/2010	21/10/2010	21/10/2010	21/10/2010	21/10/2010	21/10/2010	21/10/2010	21/10/2010	21/10/2010
Conductivity (at 20 deg.C)	18/10/2010	18/10/2010	18/10/2010	18/10/2010	18/10/2010	18/10/2010	18/10/2010	18/10/2010	19/10/2010	19/10/2010
Cyanide Comp/Free/Total/Thiocyanate	18/10/2010	18/10/2010	18/10/2010	18/10/2010	18/10/2010	19/10/2010	18/10/2010	18/10/2010	18/10/2010	18/10/2010
Dissolved Metals by ICP-MS	20/10/2010	20/10/2010	20/10/2010	20/10/2010	20/10/2010	20/10/2010	20/10/2010	20/10/2010	20/10/2010	20/10/2010
EPH (DRO) (C10-C40) Aqueous (W)	26/10/2010	26/10/2010	26/10/2010	26/10/2010	26/10/2010	26/10/2010	26/10/2010	26/10/2010	26/10/2010	26/10/2010
Fluoride	18/10/2010	18/10/2010	18/10/2010	18/10/2010	18/10/2010	18/10/2010	18/10/2010	18/10/2010	18/10/2010	18/10/2010
Mercury Dissolved	19/10/2010	19/10/2010	19/10/2010	19/10/2010	19/10/2010	19/10/2010	19/10/2010	19/10/2010	19/10/2010	19/10/2010
Metals by iCap-OES Dissolved (W)	19/10/2010	19/10/2010	19/10/2010	19/10/2010	19/10/2010	19/10/2010	19/10/2010	19/10/2010	19/10/2010	19/10/2010
Mineral Oil C10-40 Aqueous (W)	26/10/2010	26/10/2010	26/10/2010	26/10/2010	26/10/2010	26/10/2010	26/10/2010	26/10/2010	26/10/2010	26/10/2010
OC, OP Pesticides and Triazine Herb	25/10/2010	25/10/2010	25/10/2010	25/10/2010	25/10/2010	25/10/2010	25/10/2010	25/10/2010	25/10/2010	28/10/2010
Spec MS - Aqueous (W)	26/10/2010	26/10/2010	26/10/2010	26/10/2010	26/10/2010	26/10/2010	26/10/2010	26/10/2010	26/10/2010	26/10/2010
alue	19/10/2010	19/10/2010	19/10/2010	19/10/2010	19/10/2010	19/10/2010	19/10/2010	19/10/2010	19/10/2010	19/10/2010
Phenols by HPLC (W)	19/10/2010	19/10/2010	19/10/2010	19/10/2010	19/10/2010	20/10/2010	19/10/2010	19/10/2010	19/10/2010	19/10/2010
SVOC MS (W) - Aqueous	26/10/2010	26/10/2010	26/10/2010	26/10/2010	26/10/2010	26/10/2010	26/10/2010	26/10/2010	26/10/2010	26/10/2010
TBT/TPT/DBT (W)*	01/11/2010	01/11/2010	01/11/2010	01/11/2010	01/11/2010	01/11/2010	01/11/2010	01/11/2010	01/11/2010	01/11/2010
Total Dissolved Solids	20/10/2010	20/10/2010	20/10/2010	20/10/2010	20/10/2010	20/10/2010	20/10/2010	20/10/2010	19/10/2010	19/10/2010
Total Metals by ICP-MS	20/10/2010	20/10/2010	20/10/2010	20/10/2010	20/10/2010	20/10/2010	20/10/2010	20/10/2010	20/10/2010	20/10/2010
Total Organic and Inorganic Carbon	19/10/2010	19/10/2010	19/10/2010	19/10/2010	19/10/2010	18/10/2010	19/10/2010	19/10/2010	19/10/2010	19/10/2010
Triazine Herbicides (W)*	01/11/2010	01/11/2010	01/11/2010	01/11/2010	01/11/2010	01/11/2010	01/11/2010	01/11/2010	01/11/2010	01/11/2010
VOC MS (W)	27/10/2010	27/10/2010	27/10/2010	27/10/2010	27/10/2010	27/10/2010	27/10/2010	27/10/2010	27/10/2010	27/10/2010

Lab Sample No(s)	2240312	2240336	2240375	2240384	2240384	2240393
Customer Sample Ref.	SW3	SW4	T11	T18	T21	
AGS Ref.						
Depth						
Type	LIQUID	LIQUID	SOLID	SOLID	SOLID	SOLID
Acid Herbicides (W)	20/10/2010	20/10/2010				
Alkali Metals by iCap-OES (Soil)			20/10/2010	20/10/2010	20/10/2010	20/10/2010
Alkalinity as CaCO3	19/10/2010	19/10/2010	20/10/2010	20/10/2010	20/10/2010	20/10/2010
Ammonium	19/10/2010	19/10/2010				
Ammonium Soil by Titration			20/10/2010	20/10/2010	20/10/2010	20/10/2010
Anions by Kone (soil)			19/10/2010	19/10/2010	19/10/2010	19/10/2010
Anions by Kone (w)	19/10/2010	19/10/2010				
BOD True Total	21/10/2010	21/10/2010				
Conductivity (at 20 deg.C)	19/10/2010	19/10/2010	21/10/2010	21/10/2010	21/10/2010	21/10/2010
Cyanide Comp/Free/Total/Thiocyanate	18/10/2010	18/10/2010				
Dissolved Metals by ICP-MS	20/10/2010	20/10/2010				
EPH (DRO) (C10-C40) Aqueous (W)	26/10/2010	26/10/2010				
EPH by FID			21/10/2010	21/10/2010	21/10/2010	21/10/2010
Fluoride	18/10/2010	18/10/2010				
Mercury Dissolved	19/10/2010	19/10/2010				
Metals by iCap-OES (Soil)			20/10/2010	20/10/2010	20/10/2010	20/10/2010
Metals by iCap-OES Dissolved (W)	19/10/2010	19/10/2010				
Mineral Oil			22/10/2010	21/10/2010	21/10/2010	21/10/2010
Mineral Oil C10-40 Aqueous (W)	26/10/2010	26/10/2010				
OC, OP Pesticides and Triazine Herb	28/10/2010	25/10/2010				
PAH by GCMS			19/10/2010	19/10/2010	19/10/2010	19/10/2010
PAH Spec MS - Aqueous (W)	26/10/2010	26/10/2010				
pH			25/10/2010	25/10/2010	25/10/2010	25/10/2010
pH Value	19/10/2010	19/10/2010				
Phenols by HPLC (W)	19/10/2010	19/10/2010				
Sample description			18/10/2010	18/10/2010	18/10/2010	18/10/2010
SVOC MS (W) - Aqueous	26/10/2010	26/10/2010				
TBT/TPT/DBT (W)*	01/11/2010	01/11/2010				
Total Dissolved Solids	19/10/2010	19/10/2010				
Total Metals by ICP-MS	20/10/2010	20/10/2010				
Total Organic and Inorganic Carbon	19/10/2010	19/10/2010				
Triazine Herbicides (W)*	01/11/2010	01/11/2010				
VOC MS (S)			27/10/2010	27/10/2010	27/10/2010	27/10/2010
VOC MS (W)	27/10/2010	27/10/2010				

SDG: 101015-65  
 Job: D\_TENV\_BT B-10  
 Client Reference: 10/198TE  
 Location: Mullagh Dump

Customer: Traynor Environmental Ltd  
 Attention: Nevin Traynor  
 Order No.:  
 Report No: 101948

Results Legend		Customer Sample Ref.	SW1	SW2	SW3	SW4	T11	T13
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	Water(GW:SW)	Water(GW:SW)	Water(GW:SW)	Water(GW:SW)	Water(GW:SW)	Water(GW:SW)
M	mCERTS accredited.		14/10/2010	14/10/2010	14/10/2010	14/10/2010	14/10/2010	14/10/2010
aq	Aqueous / settled sample.		15/10/2010	15/10/2010	15/10/2010	15/10/2010	15/10/2010	15/10/2010
diss.filt	Dissolved / filtered sample.		101015-65	101015-65	101015-65	101015-65	101015-65	101015-65
tot.unfilt	Total / unfiltered sample.		2240250	2240276	2240312	2240336	2240133	2240161
tot.unfilt	subcontracted test							
*	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
Component	LOD/Units	Method						
Atrazine*	<0.02 µg/l	SUB	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Prometryn*	<0.02 µg/l	SUB	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Propazine*	<0.02 µg/l	SUB	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Simazine*	<0.02 µg/l	SUB	<0.02	<0.02	<0.02	<0.02	<0.02	0.05
Terbutylazine*	<0.05 µg/l	SUB	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Terbutryn*	<0.02 µg/l	SUB	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Trietazine*	<0.02 µg/l	SUB	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Alkalinity, Total as CaCO3	<2 mg/l	TM043	66	48.5	111	186	597	445
µOD, unfiltered	<1 mg/l	TM045	7.13	29.9	69.4	4.29	89.6	2.05
Organic Carbon, Total	<3 mg/l	TM090	28.7	51.7	38.9	23	107	17.8
Ammoniacal Nitrogen as N	<0.2 mg/l	TM099	0.472	0.499	1.02	1.87	28	14.6
Ammonia, Free / unionised as N	<0.2 mg/l	TM099	<0.2	<0.2	<0.2	<0.2	1.86	0.752
Fluoride	<0.5 mg/l	TM104	<0.5	1.3	38	<0.5	<0.5	<0.5
Conductivity @ 20 deg.C	<0.014 mS/cm	TM120	0.223	0.193	0.275	0.39	1.08	0.931
Dissolved solids, Total (meter)	<5 mg/l	TM123	180	155	205	313	875	765
Arsenic (diss.filt)	<0.12 µg/l	TM152	1.33	1.44	1.92	0.84	2.41	0.806
Boron (diss.filt)	<9.4 µg/l	TM152	19.1	17.7	27.3	44.3	125	259
Cadmium (diss.filt)	<0.1 µg/l	TM152	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper (diss.filt)	<0.85 µg/l	TM152	4.58	1.84	1.72	1.51	<0.85	<0.85
Lead (diss.filt)	<0.02 µg/l	TM152	0.186	1.81	2.07	0.081	0.349	<0.02
Manganese (diss.filt)	<0.04 µg/l	TM152	11.1	484	2690	12	2800	839
Nickel (diss.filt)	<0.15 µg/l	TM152	3.92	1.86	3.26	2.61	10.2	17.6
Nitrate (diss.filt)	<0.41 µg/l	TM152	2.68	3.16	3.4	0.795	15.8	5.28
EPH Range >C10 - C40 (aq)	<46 µg/l	TM172	46.6	<46	<46	<46	2860	1460
Mineral oil >C10 C40 (aq)	<10 µg/l	TM172	<10	<10	<10	<10	3660	795
Mercury (diss.filt)	<0.01 µg/l	TM183	<0.01	0.0117	<0.01	<0.01	<0.01	<0.01
Sulphate	<3 mg/l	TM184	19.2	<3	5.6	3.9	16.1	<3
Chloride	<2 mg/l	TM184	17	38.9	33.2	20.7	12.5	16.7
Phosphate (ortho) as PO4	<0.05 mg/l	TM184	0.547	0.084	0.371	<0.05	<0.05	<0.05
Total Oxidised Nitrogen as N	<0.1 mg/l	TM184	3.46	<0.1	<0.1	2.46	<0.1	<0.1
Chromium (tot.unfilt)	<3 µg/l	TM191	10.1	96.2	32.7	3.62	26.9	<3
Cyanide, Total	<0.05 mg/l	TM227	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Calcium (diss.filt)	<0.012 mg/l	TM228	28.4	17.3	26	53.1	139	166
Sodium (diss.filt)	<0.076 mg/l	TM228	14.6	19.4	18	17.5	41.1	14.4
Magnesium (diss.filt)	<0.036 mg/l	TM228	4.55	4.27	5.37	12.3	25	16.2
Potassium (diss.filt)	<2.335 mg/l	TM228	7.09	2.52	5.07	6.58	28.9	18.8
Iron (diss.filt)	<0.019 mg/l	TM228	0.55	10.8	17.5	0.435	5.15	<0.019
pH	<1 pH Units	TM256	7.6	6.42	7.04	8.04	8.13	8.12
Phenol	<0.002 mg/l	TM259	<0.002	<0.002	<0.002	<0.002	0.05	<0.002

SDG: 101015-65  
 Job: D\_TENV\_BTB-10  
 Client Reference: 10/198TE  
 Location: Mullagh Dump

Customer: Traynor Environmental Ltd  
 Attention: Nevin Traynor  
 Order No.:  
 Report No: 101948

Method		Customer Sample Ref.	SW1	SW2	SW3	SW4	T11	T13
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)
M	mCERTS accredited.		14/10/2010	14/10/2010	14/10/2010	14/10/2010	14/10/2010	14/10/2010
aq	Aqueous / settled sample.		15/10/2010	15/10/2010	15/10/2010	15/10/2010	15/10/2010	15/10/2010
diss.filt	Dissolved / filtered sample.		101015-65	101015-65	101015-65	101015-65	101015-65	101015-65
tot.unfilt	Total / unfiltered sample.		2240250	2240276	2240312	2240336	2240133	2240161
*	subcontracted test.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
Component	LOD/Units	Method						
Cresols	<0.006 mg/l	TM259	<0.006 #	0.01 #	<0.006 #	<0.006 #	0.01 #	<0.006 #
Xylenols	<0.008 mg/l	TM259	<0.008 #	<0.008 #	<0.008 #	<0.008 #	<0.008 #	<0.008 #
2,3,5-Trimethylphenol	<0.003 mg/l	TM259	<0.003 #	<0.003 #	<0.003 #	<0.003 #	0.01 #	<0.003 #
2-Isopropylphenol	<0.006 mg/l	TM259	<0.006 #	<0.006 #	<0.006 #	<0.006 #	0.2 #	<0.006 #
Phenols, Total 5 speciated	<0.025 mg/l	TM259	<0.025 #	<0.025 #	<0.025 #	<0.025 #	0.27 #	<0.025 #

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SDG: 101015-65  
 Job: D\_TENV\_BT B-10  
 Client Reference: 10/198TE  
 Location: Mullagh Dump

Customer: Traynor Environmental Ltd  
 Attention: Nevin Traynor  
 Order No.:  
 Report No: 101948

Acid Herbicides (W)

Results Legend		Customer Sample Ref.	SW1	SW2	SW3	SW4	T11	T13
#	M		Depth (m)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)
ISO17024 accredited.		Sample Type	14/10/2010	14/10/2010	14/10/2010	14/10/2010	14/10/2010	14/10/2010
mCERTS accredited.		Date Sampled	15/10/2010	15/10/2010	15/10/2010	15/10/2010	15/10/2010	15/10/2010
Aqueous / filtered sample.		Date Received	101015-65	101015-65	101015-65	101015-65	101015-65	101015-65
Dissolved / filtered sample.		SDG Ref	2240250	2240276	2240312	2240336	2240133	2240161
Total / unfiltered sample.		Lab Sample No.(s)						
subcontracted test.		AGS Reference						
% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.								
Component	LOD/Units	Method						
Phenoxyacetic acid (PAA)	<0.031 µg/l	TM186	0.385	<0.031	0.107	0.0783	0.176	<0.031
Dicamba	<0.033 µg/l	TM186	<0.033	<0.033	<0.033	<0.033	<0.33	<0.033
Phenoxypropionic acid (PPA)	<0.023 µg/l	TM186	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023
4-Chlorophenoxyacetic acid (4-CPA)	<0.037 µg/l	TM186	0.133	<0.037	<0.037	<0.037	<0.037	<0.037
4-Phenoxybutyric acid	<0.019 µg/l	TM186	<0.019	<0.019	<0.019	<0.019	<0.019	<0.019
Bentazone	<0.018 µg/l	TM186	<0.018	<0.018	<0.018	<0.018	<0.018	0.0626
Bromoxynil	<0.022 µg/l	TM186	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022
2,4-Dichlorophenoxy acetic acid (2,4-D)	<0.026 µg/l	TM186	<0.026	<0.026	<0.026	<0.026	<0.026	<0.026
2-methyl-4-Chlorophenoxyacetic acid (MCPA)	<0.03 µg/l	TM186	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
2-methyl-4,6-Dinitrophenol	<0.041 µg/l	TM186	<0.041	<0.041	<0.041	<0.041	<0.041	<0.041
Triclopyr	<0.022 µg/l	TM186	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022
loxynil	<0.017 µg/l	TM186	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017
2,4-Dichlorophenoxy acetic acid (2,4-DP)	<0.015 µg/l	TM186	<0.015	<0.015	<0.015	<0.015	0.25	0.0171
2,4,5-Trichlorophenol (2,4,5-T)	<0.029 µg/l	TM186	<0.029	<0.029	<0.029	<0.029	<0.029	<0.029
Mecoprop (MCP)	<0.025 µg/l	TM186	<0.025	<0.025	0.0375	0.231	1.8	6.26
4-(2,4-Dichlorophenoxy) butyric acid (2,4-D)	<0.022 µg/l	TM186	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022
4-(4-Chloro-o-tolyloxy) butyric acid (MCPB)	<0.029 µg/l	TM186	<0.029	<0.029	<0.029	<0.029	<0.029	<0.029
2-(2,4,5-Trichlorophenoxy) propionic acid	<0.024 µg/l	TM186	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024
Dinoseb	<0.027 µg/l	TM186	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027
Pentachlorophenol	<0.032 µg/l	TM186	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032

SDG: 101015-65  
 Job: D\_TENV\_BT B-10  
 Client Reference: 10/198TE  
 Location: Mullagh Dump

Customer: Traynor Environmental Ltd  
 Attention: Nevin Traynor  
 Order No.:  
 Report No: 101948

OC, OP Pesticides and Triazine Herb

Results Legend		Customer Sample Ref.	SW1	SW2	SW3	SW4	T11	T13
#	M	Depth (m)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)
aq	diss.filt	Sample Type	14/10/2010	14/10/2010	14/10/2010	14/10/2010	14/10/2010	14/10/2010
tot.unfilt	*	Date Sampled	15/10/2010	15/10/2010	15/10/2010	15/10/2010	15/10/2010	15/10/2010
**		Date Received	101015-65	101015-65	101015-65	101015-65	101015-65	101015-65
		SDG Ref	2240250	2240276	2240312	2240336	2240133	2240161
		Lab Sample No.(s)						
		AGS Reference						
Component	LOD/Units	Method						
Alrazine	<1 µg/l	TM231	<1	<1	<1	<1	<1	<1
Simazine	<1 µg/l	TM231	<1	<1	<1	<1	<1	<1
Dichlorvos	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Mevinphos	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Tecnazene	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Hexachlorobenzene	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Trifluralin	<0.01 µg/l	TM231	<0.01	<0.01	0.0306	<0.01	<0.01	<0.01
γ-Hexachlorocyclohexane (HCH / Lindane)	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Quintozene (PCNB)	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Diazinon	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Triallate	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Etrimphos	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
γ-Hexachlorocyclohexane (HCH / Lindane)	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Disulfoton	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Propetamphos	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Heptachlor	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chlorpyrifos methyl	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dimethoate	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aldrin	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chlorothalonil	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Pirimiphos-methyl	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
β-Hexachlorocyclohexane (HCH / Lindane)	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
oxyprifos	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Teldrin	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Methyl parathion	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Isodrin	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Malathion	<0.01 µg/l	TM231	0.0116	<0.01	<0.01	<0.01	0.0914	0.0582
Fenthion	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Fenitrothion	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Heptachlor epoxide	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Triadimefon	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Pendimethalin	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Parathion	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
o,p-DDE	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chlorfenvinphos	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	0.0331
Endosulphan I	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Trans-chlordane	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
cis-Chlordane	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
p,p-DDE	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

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SDG: 101015-65  
 Job: D\_TENV\_BT B-10  
 Client Reference: 10/198TE  
 Location: Mullagh Dump

Customer: Traynor Environmental Ltd  
 Attention: Nevin Traynor  
 Order No.:  
 Report No: 101948

OC, OP Pesticides and Triazine Herb

<small>                     # M 3g diss.filt totunfilt                      Details Legend                      ISO17025 accredited.                      mCERTS accredited.                      Aqueous / settled sample.                      Dissolved / filtered sample.                      Total / unfiltered sample.                      subcontracted test.                      % recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.                 </small>		Customer Sample Ref.	SW1	SW2	SW3	SW4	T11	T13
Component	LOD/Units	Method	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)
Dieldrin	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
o,p-TDE (DDD)	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Endrin	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
o,p-DDT	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
p,p-TDE (DDD)	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Ethion	<0.01 µg/l	TM231	<0.01	<0.01	<0.04	<0.01	<0.01	<0.01
Endosulphan II	<0.01 µg/l	TM231	<0.01	<0.01	<0.2	<0.01	<0.01	<0.01
γ-DDT	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Carbophenothion	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
o,p-Methoxychlor	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Triazophos	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
p,p-Methoxychlor	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Endosulphan sulphate	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Permethrin I	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Phosalone	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Permethrin II	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Azinphos-methyl	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Azinphos-ethyl	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

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SDG: 101015-65  
 Job: D\_TENV\_BTB-10  
 Client Reference: 10/198TE  
 Location: Mullagh Dump

Customer: Traynor Environmental Ltd  
 Attention: Nevin Traynor  
 Order No.:  
 Report No: 101948

PAH Spec MS - Aqueous (W)

Method Legend		Customer Sample Ref.	SW1	SW2	SW3	SW4	T11	T13
#	M	Depth (m)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)
1	ISO17025 accredited.		14/10/2010	14/10/2010	14/10/2010	14/10/2010	14/10/2010	14/10/2010
2	mCERTS accredited.		15/10/2010	15/10/2010	15/10/2010	15/10/2010	15/10/2010	15/10/2010
3	Aqueous / settled sample.	Sample Type	101015-65	101015-65	101015-65	101015-65	101015-65	101015-65
4	Dissolved / filtered sample.	Date Sampled	2240250	2240278	2240312	2240336	2240133	2240161
5	Total / unfiltered sample.	Date Received						
6	subcontracted test.	SDG Ref						
7	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.	Lab Sample No.(s)						
8		AGS Reference						
Component	LOD/Units	Method	SW1	SW2	SW3	SW4	T11	T13
Naphthalene (aq)	<0.1 µg/l	TM178	<0.1 #	<0.1 #	<0.1 #	<0.1 #	3.64 #	<0.1 #
Acenaphthene (aq)	<0.015 µg/l	TM178	<0.015 #	<0.015 #	<0.015 #	<0.015 #	0.631 #	0.0884 #
Acenaphthylene (aq)	<0.011 µg/l	TM178	<0.011 #	<0.011 #	<0.011 #	<0.011 #	0.26 #	<0.011 #
Fluoranthene (aq)	<0.014 µg/l	TM178	0.015 #	<0.014 #	<0.014 #	<0.014 #	1.28 #	0.0439 #
Anthracene (aq)	<0.015 µg/l	TM178	<0.015 #	<0.015 #	<0.015 #	<0.015 #	0.228 #	<0.015 #
Phenanthrene (aq)	<0.022 µg/l	TM178	<0.022 #	<0.022 #	<0.022 #	<0.022 #	0.976 #	0.0257 #
Fluorene (aq)	<0.014 µg/l	TM178	<0.014 #	<0.014 #	<0.014 #	<0.014 #	0.905 #	0.0609 #
Pyrene (aq)	<0.013 µg/l	TM178	0.0144 #	<0.013 #	<0.013 #	<0.013 #	0.892 #	<0.013 #
Benzo(a)pyrene (aq)	<0.015 µg/l	TM178	0.0177 #	<0.015 #	<0.015 #	<0.015 #	1.26 #	0.0557 #
Benzo(a)anthracene (aq)	<0.017 µg/l	TM178	0.0263 #	<0.017 #	<0.017 #	<0.017 #	0.694 #	0.0279 #
Benzo(b)fluoranthene (aq)	<0.023 µg/l	TM178	<0.023 #	<0.023 #	<0.023 #	<0.023 #	0.944 #	<0.023 #
Benzo(k)fluoranthene (aq)	<0.027 µg/l	TM178	<0.027 #	<0.027 #	<0.027 #	<0.027 #	0.809 #	<0.027 #
Benzo(a)pyrene (aq)	<0.009 µg/l	TM178	0.0152 #	<0.009 #	<0.009 #	<0.009 #	1.02 #	0.0233 #
Dibenzo(a,h)anthracene (aq)	<0.016 µg/l	TM178	<0.016 #	<0.016 #	<0.016 #	<0.016 #	0.263 #	<0.016 #
Benzo(g,h,i)perylene (aq)	<0.016 µg/l	TM178	<0.016 #	<0.016 #	<0.016 #	<0.016 #	0.968 #	0.0183 #
Indeno(1,2,3-cd)pyrene (aq)	<0.014 µg/l	TM178	<0.014 #	<0.014 #	<0.014 #	<0.014 #	0.817 #	0.0146 #
Polyaromatic hydrocarbons, Total USEPA 16 (aq)	<0.1 µg/l	TM178	<0.1 #	<0.1 #	<0.1 #	<0.1 #	15.6 #	0.359 #

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SDG: 101015-65  
 Job: D\_TENV\_BT B-10  
 Client Reference: 10/198TE  
 Location: Mullagh Dump

Customer: Traynor Environmental Ltd  
 Attention: Nevin Traynor  
 Order No.:  
 Report No: 101948

SVOC MS (W) - Aqueous

Results Legend		Customer Sample Ref.	SW1	SW2	SW3	SW4	T11	T13
#	M		Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)
aq	aq	Depth (m)	14/10/2010	14/10/2010	14/10/2010	14/10/2010	14/10/2010	14/10/2010
diss	aq	Sample Type	15/10/2010	15/10/2010	15/10/2010	15/10/2010	15/10/2010	15/10/2010
unfilt	aq	Date Sampled	101015-65	101015-65	101015-65	101015-65	101015-65	101015-65
total	aq	Date Received	2240250	2240276	2240312	2240336	2240133	2240161
unfiltered	aq	SDG Ref						
sample	aq	Lab Sample No.(s)						
sub	aq	AGS Reference						
contracted	aq							
test	aq							
%	aq							
recovery	aq							
of	aq							
the	aq							
surrogate	aq							
standard	aq							
to	aq							
check	aq							
the	aq							
efficiency	aq							
of	aq							
the	aq							
method.	aq							
The	aq							
results	aq							
of	aq							
the	aq							
individual	aq							
compounds	aq							
within	aq							
the	aq							
samples	aq							
are	aq							
not	aq							
corrected	aq							
for	aq							
this	aq							
recovery.	aq							
Component	LOD/Units	Method						
1,2,4-Trichlorobenzene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1
2,4,5-Trichlorophenol (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1
2,4,6-Trichlorophenol (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1
2,4-Dichlorophenol (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1
4-Dimethylphenol (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1
2,4-Dinitrotoluene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1
2,6-Dinitrotoluene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1
2-Chloronaphthalene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1
2-Chlorophenol (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1
2-Methylnaphthalene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	1.31	<1
2-Methylphenol (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1
2-Nitroaniline (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1
2-Nitrophenol (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1
3-Nitroaniline (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1
4-Bromophenylphenylether (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1
4-Chloro-3-methylphenol (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1
4-Chloroaniline (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1
4-Chlorophenylphenylether (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1
4-Methylphenol (aq)	<1 µg/l	TM176	<1	<1	<1	<1	2.36	<1
4-Nitrophenol (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1
4-Nitroaniline (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1
Azobenzene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1
Acenaphthylene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1
Acenaphthene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1
Anthracene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1
bis(2-Chloroethyl)ether (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1
bis(2-Chloroethoxy)methane (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1
bis(2-Ethylhexyl) phthalate (aq)	<2 µg/l	TM176	<2	<2	<2	<2	<2	<3
Benzo(a)anthracene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1
Butylbenzyl phthalate (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1
Benzo(b)fluoranthene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1
Benzo(k)fluoranthene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1
Benzo(a)pyrene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1
Benzo(g,h,i)perylene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1
Carbazole (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1
Chrysene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1

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SDG: 101015-65  
 Job: D\_TENV\_BT B-10  
 Client Reference: 10/198TE  
 Location: Mullagh Dump

Customer: Traynor Environmental Ltd  
 Attention: Nevin Traynor  
 Order No.:  
 Report No: 101948

SVOC MS (W) - Aqueous

#	M	aq	diss.filt	tot.unfilt	* % recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.	Customer Sample Ref.	SW1	SW2	SW3	SW4	T11	T13
							Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)
							14/10/2010	14/10/2010	14/10/2010	14/10/2010	14/10/2010	14/10/2010
							15/10/2010	15/10/2010	15/10/2010	15/10/2010	15/10/2010	15/10/2010
							101015-65	101015-65	101015-65	101015-65	101015-65	101015-65
							2240250	2240276	2240312	2240336	2240133	2240161
Component	LOD/Units	Method										
Dibenzofuran (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1	<1	1.16	<1	<1
n-Dibutyl phthalate (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Diethyl phthalate (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibenzo(a,h)anthracene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dimethyl phthalate (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Dioctyl phthalate (aq)	<5 µg/l	TM176	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Fluoranthene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
fluorene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorobenzene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Pentachlorophenol (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Phenol (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1	<1	52.7	<1	<1
n-Nitroso-n-di-propylamine (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachloroethane (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Nitrobenzene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1	<1	3.35	<1	<1
Isophorone (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorocyclopentadiene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Phenanthrene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Indeno(1,2,3-cd)pyrene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Pyrene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

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SDG: 101015-65  
 Job: D\_TENV\_BT B-10  
 Client Reference: 10/198TE  
 Location: Mullagh Dump

Customer: Traynor Environmental Ltd  
 Attention: Nevin Traynor  
 Order No.:  
 Report No: 101948

TBT/TPT/DBT (W)*		Customer Sample Ref.	SW1	SW2	SW3	SW4	T11	T13
#	Results Legend	Depth (m) Sample Type	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)
M	ISO17025 accredited.		14/10/2010	14/10/2010	14/10/2010	14/10/2010	14/10/2010	14/10/2010
aq	mCERTS accredited.		15/10/2010	15/10/2010	15/10/2010	15/10/2010	15/10/2010	15/10/2010
dis.filt	Aqueous / settled sample.	Date Sampled	101015-65	101015-65	101015-65	101015-65	101015-65	101015-65
tot.unfilt	Dissolved / filtered sample.	Date Received	2240250	2240276	2240312	2240336	2240133	2240161
*	Total / unfiltered sample.	SDG Ref						
**	subcontracted test.	Lab Sample No.(s)						
	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.	AGS Reference						
Component	LOD/Units	Method						
Tributyl tin*	<0.02 µg/l	SUB	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Triphenyl tin*	<0.05 µg/l	SUB	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibutyl tin*	<0.02 µg/l	SUB	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Tetrabutyl tin*	<0.02 µg/l	SUB	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

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SDG: 101015-65  
 Job: D\_TENV\_BT B-10  
 Client Reference: 10/198TE  
 Location: Mullagh Dump

Customer: Traynor Environmental Ltd  
 Attention: Nevin Traynor  
 Order No.:  
 Report No: 101948

VOC MS (W)			SW1	SW2	SW3	SW4	T11	T13							
#	M	aq	Customer Sample Ref.	SW1		SW2		SW3		SW4		T11		T13	
				Water(GW/SW)	14/10/2010	Water(GW/SW)	14/10/2010	Water(GW/SW)	14/10/2010	Water(GW/SW)	14/10/2010	Water(GW/SW)	14/10/2010	Water(GW/SW)	14/10/2010
Results Legend			Depth (m)	Date Sampled	Date Received	SDG Ref	Lab Sample No.(s)	AGS Reference							
ISO17025 accredited. mCERTS accredited. Aqueous / settled sample. Dissolved / filtered sample. Total / unfiltered sample. subcontracted test. % recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.															
Component	LOD/Units	Method	SW1		SW2		SW3		SW4		T11		T13		
Dibromofluoromethane**	%	TM208	102		101		102		110		103		102		
Toluene-d8**	%	TM208	99.2		99.1		99.5		100		98.4		98.8		
4-Bromofluorobenzene**	%	TM208	99.4		97		98.1		101		97.8		98.8		
Dichlorodifluoromethane	<7 µg/l	TM208	<7	#	<7	#	<7	#	<7	#	<7	#	<7	#	
Chloromethane	<9 µg/l	TM208	<9	#	<9	#	<9	#	<9	#	<9	#	<9	#	
Vinyl chloride	<1.2 µg/l	TM208	<1.2	#	<1.2	#	<1.2	#	<1.2	#	<1.2	#	<1.2	#	
Bromomethane	<2 µg/l	TM208	<2	#	<2	#	<2	#	<2	#	<2	#	<2	#	
Fluoroethane	<2.5 µg/l	TM208	<2.5	#	<2.5	#	<2.5	#	<2.5	#	<2.5	#	<2.5	#	
Trichlorofluoromethane	<1.3 µg/l	TM208	<1.3	#	<1.3	#	<1.3	#	<1.3	#	<1.3	#	<1.3	#	
1,1-Dichloroethane	<1.2 µg/l	TM208	<1.2	#	<1.2	#	<1.2	#	<1.2	#	<1.2	#	<1.2	#	
Carbon disulphide	<1.3 µg/l	TM208	<1.3	#	<1.3	#	<1.3	#	<1.3	#	<1.3	#	<1.3	#	
Dichloromethane	<3.7 µg/l	TM208	<3.7	#	<3.7	#	<3.7	#	<3.7	#	<3.7	#	<3.7	#	
Methyl tertiary butyl ether (MTBE)	<1.6 µg/l	TM208	<1.6	#	<1.6	#	<1.6	#	<1.6	#	<1.6	#	<1.6	#	
trans-1,2-Dichloroethene	<1.9 µg/l	TM208	<1.9	#	<1.9	#	<1.9	#	<1.9	#	<1.9	#	<1.9	#	
1,1-Dichloroethane	<1.2 µg/l	TM208	<1.2	#	<1.2	#	<1.2	#	<1.2	#	<1.2	#	<1.2	#	
cis-1,2-Dichloroethene	<2.3 µg/l	TM208	<2.3	#	<2.3	#	<2.3	#	<2.3	#	<2.3	#	<2.3	#	
2,2-Dichloropropane	<3.8 µg/l	TM208	<3.8	#	<3.8	#	<3.8	#	<3.8	#	<3.8	#	<3.8	#	
Bromochloromethane	<1.9 µg/l	TM208	<1.9	#	<1.9	#	<1.9	#	<1.9	#	<1.9	#	<1.9	#	
Chloroform	<1.8 µg/l	TM208	<1.8	#	<1.8	#	<1.8	#	<1.8	#	<1.8	#	<1.8	#	
1,1,1-Trichloroethane	<1.3 µg/l	TM208	<1.3	#	<1.3	#	<1.3	#	<1.3	#	<1.3	#	<1.3	#	
1,1-Dichloropropene	<1.3 µg/l	TM208	<1.3	#	<1.3	#	<1.3	#	<1.3	#	<1.3	#	<1.3	#	
Carbontetrachloride	<1.4 µg/l	TM208	<1.4	#	<1.4	#	<1.4	#	<1.4	#	<1.4	#	<1.4	#	
Dichloroethane	<3.3 µg/l	TM208	<3.3	#	<3.3	#	<3.3	#	<3.3	#	<3.3	#	<3.3	#	
Benzene	<1.3 µg/l	TM208	<1.3	#	<1.3	#	<1.3	#	<1.3	#	9.87	#	<1.3	#	
Trichloroethane	<2.5 µg/l	TM208	<2.5	#	<2.5	#	<2.5	#	<2.5	#	<2.5	#	<2.5	#	
1,2-Dichloropropane	<3 µg/l	TM208	<3	#	<3	#	<3	#	<3	#	<3	#	<3	#	
Dibromomethane	<2.7 µg/l	TM208	<2.7	#	<2.7	#	<2.7	#	<2.7	#	<2.7	#	<2.7	#	
Bromodichloromethane	<0.9 µg/l	TM208	<0.9	#	<0.9	#	<0.9	#	<0.9	#	<0.9	#	<0.9	#	
cis-1,3-Dichloropropene	<1.9 µg/l	TM208	<1.9	#	<1.9	#	<1.9	#	<1.9	#	<1.9	#	<1.9	#	
Toluene	<1.4 µg/l	TM208	<1.4	#	<1.4	#	<1.4	#	<1.4	#	3.03	#	<1.4	#	
trans-1,3-Dichloropropene	<3.5 µg/l	TM208	<3.5	#	<3.5	#	<3.5	#	<3.5	#	<3.5	#	<3.5	#	
1,1,2-Trichloroethane	<2.2 µg/l	TM208	<2.2	#	<2.2	#	<2.2	#	<2.2	#	<2.2	#	<2.2	#	
1,3-Dichloropropane	<2.2 µg/l	TM208	<2.2	#	<2.2	#	<2.2	#	<2.2	#	<2.2	#	<2.2	#	
Tetrachloroethane	<1.5 µg/l	TM208	<1.5	#	<1.5	#	<1.5	#	<1.5	#	<1.5	#	<1.5	#	
Dibromochloromethane	<1.7 µg/l	TM208	<1.7	#	<1.7	#	<1.7	#	<1.7	#	<1.7	#	<1.7	#	
1,2-Dibromoethane	<2.3 µg/l	TM208	<2.3	#	<2.3	#	<2.3	#	<2.3	#	<2.3	#	<2.3	#	
Chlorobenzene	<3.5 µg/l	TM208	<3.5	#	<3.5	#	<3.5	#	<3.5	#	<3.5	#	<3.5	#	
1,1,1,2-Tetrachloroethane	<1.3 µg/l	TM208	<1.3	#	<1.3	#	<1.3	#	<1.3	#	<1.3	#	<1.3	#	
Ethylbenzene	<2.5 µg/l	TM208	<2.5	#	<2.5	#	<2.5	#	<2.5	#	<2.5	#	<2.5	#	

SDG: 101015-65  
 Job: D\_TENV\_BT B-10  
 Client Reference: 10/198TE  
 Location: Mullagh Dump

Customer: Traynor Environmental Ltd  
 Attention: Nevin Traynor  
 Order No.:  
 Report No: 101948

VOC MS (W)

Results Legend		Customer Sample Ref.	SW1	SW2	SW3	SW4	T11	T13	
#	M	Depth (m)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	
aq	diss	Sample Type	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	
fit	unfit	Date Received	SDG Ref	SDG Ref	SDG Ref	SDG Ref	SDG Ref	SDG Ref	
*	**	Lab Sample No.(s)	AGS Reference	AGS Reference	AGS Reference	AGS Reference	AGS Reference	AGS Reference	
Component		LOD/Units	Method	Method	Method	Method	Method	Method	
m,p	Xylene	<2.5 µg/l	TM208	<2.5	<2.5	<2.5	<2.5	3.76	10.4
				#	#	#	#	#	#
	o-Xylene	<1.7 µg/l	TM208	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
				#	#	#	#	#	#
	Styrene	<1.2 µg/l	TM208	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
				#	#	#	#	#	#
	Bromoform	<3 µg/l	TM208	<3	<3	<3	<3	<3	<3
				#	#	#	#	#	#
	Isopropylbenzene	<1.4 µg/l	TM208	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4
				#	#	#	#	#	#
	1,1,2,2-Tetrachloroethane	<5.2 µg/l	TM208	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2
				#	#	#	#	#	#
	1,2,3-Trichloropropane	<7.8 µg/l	TM208	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8
				#	#	#	#	#	#
	m-bromobenzene	<2 µg/l	TM208	<2	<2	<2	<2	<2	<2
				#	#	#	#	#	#
	p-Propylbenzene	<2.6 µg/l	TM208	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6
				#	#	#	#	#	#
	2-Chlorotoluene	<1.9 µg/l	TM208	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9
				#	#	#	#	#	#
	1,3,5-Trimethylbenzene	<1.8 µg/l	TM208	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
				#	#	#	#	#	#
	4-Chlorotoluene	<1.9 µg/l	TM208	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9
				#	#	#	#	#	#
	tert-Butylbenzene	<2 µg/l	TM208	<2	<2	<2	<2	<2	<2
				#	#	#	#	#	#
	1,2,4-Trimethylbenzene	<1.7 µg/l	TM208	<1.7	<1.7	<1.7	<1.7	2.72	2.33
				#	#	#	#	#	#
	sec-Butylbenzene	<1.7 µg/l	TM208	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
				#	#	#	#	#	#
	4-Iso-Propyltoluene	<2.6 µg/l	TM208	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6
				#	#	#	#	#	#
	1,3-Dichlorobenzene	<2.2 µg/l	TM208	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2
				#	#	#	#	#	#
	1,4-Dichlorobenzene	<2.7 µg/l	TM208	<2.7	<2.7	<2.7	<2.7	<2.7	<2.7
				#	#	#	#	#	#
	n-Butylbenzene	<2 µg/l	TM208	<2	<2	<2	<2	<2	<2
				#	#	#	#	#	#
	1,2-Dichlorobenzene	<3.7 µg/l	TM208	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7
				#	#	#	#	#	#
	1,2-Dibromo-3-chloropropane	<9.8 µg/l	TM208	<9.8	<9.8	<9.8	<9.8	<9.8	<9.8
				#	#	#	#	#	#
	1,2,4-Trichlorobenzene	<2.3 µg/l	TM208	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3
				#	#	#	#	#	#
	1,2,4-trichlorobutadiene	<2.5 µg/l	TM208	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
				#	#	#	#	#	#
	tert-Amyl methyl ether (TAME)	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1
				#	#	#	#	#	#
	Naphthalene	<3.5 µg/l	TM208	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5
				#	#	#	#	#	#
	1,2,3-Trichlorobenzene	<3.1 µg/l	TM208	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1
				#	#	#	#	#	#
	1,3,5-Trichlorobenzene	<10 µg/l	TM208	<10	<10	<10	<10	<10	<10
				#	#	#	#	#	#

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# ALcontrol Laboratories Analytical Services

**SDG:** 101015-65  
**Job:** D\_TENV\_BT B-10  
**Client Reference:** 10/198TE  
**Location:** Mullagh Dump

**Customer:** Traynor Environmental Ltd  
**Attention:** Nevin Traynor  
**Order No.:**  
**Report No:** 101948

Results Legend		Customer Sample Ref.	T15	T18	T21	T3	T6	T8
#	M	Depth (m)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)
aq	diss.filt	Sample Type	14/10/2010	14/10/2010	14/10/2010	14/10/2010	14/10/2010	14/10/2010
tot.unfilt	subcontracted test	Date Sampled	15/10/2010	15/10/2010	15/10/2010	15/10/2010	15/10/2010	15/10/2010
*	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.	Date Received	101015-65	101015-65	101015-65	101015-65	101015-65	101015-65
**		SDG Ref	2240193	2240209	2240221	2239995	2240045	2240097
		Lab Sample No.(s)						
		AGS Reference						
Component	LOD/Units	Method						
Atrazine*	<0.02 µg/l	SUB	<0.02	<0.02	<0.02	<0.02	<0.02	0.09
Prometryn*	<0.02 µg/l	SUB	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Propazine*	<0.02 µg/l	SUB	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Simazine*	<0.02 µg/l	SUB	<0.02	0.06	<0.02	<0.02	<0.02	<0.02
Terbutylazine*	<0.05 µg/l	SUB	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Terbutryn*	<0.02 µg/l	SUB	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Trietazine*	<0.02 µg/l	SUB	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Alkalinity, Total as CaCO3	<2 mg/l	TM043	296	242	109	500	394	488
Ammonia, unfiltered	<1 mg/l	TM045	1.99	<1	1.31	2.65	36.4	1.99
Organic Carbon, Total	<3 mg/l	TM090	19.3	19.1	35.7	17.6	55.6	22.8
Ammoniacal Nitrogen as N	<0.2 mg/l	TM099	2.84	3.89	0.544	18.5	5.13	17.9
Ammonia, Free / unionised as N	<0.2 mg/l	TM099	0.312	0.371	0.2	0.953	0.339	0.924
Fluoride	<0.5 mg/l	TM104	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Conductivity @ 20 deg.C	<0.014 mS/cm	TM120	0.594	0.497	0.264	1.04	0.697	1.14
Dissolved solids, Total (meter)	<5 mg/l	TM123	483	401	211	847	576	925
Arsenic (diss.filt)	<0.12 µg/l	TM152	0.642	0.57	1.49	1.2	1.12	1.38
Boron (diss.filt)	<9.4 µg/l	TM152	126	91.4	28.6	247	34.6	247
Cadmium (diss.filt)	<0.1 µg/l	TM152	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper (diss.filt)	<0.85 µg/l	TM152	1.46	<0.85	25.7	1.45	1.8	0.884
Lead (diss.filt)	<0.02 µg/l	TM152	0.214	0.076	0.308	0.037	<0.02	<0.02
Manganese (diss.filt)	<0.04 µg/l	TM152	658	912	2020	611	1030	1470
Nickel (diss.filt)	<0.15 µg/l	TM152	4.61	3.84	4.22	8.38	4.61	10.7
(diss.filt)	<0.41 µg/l	TM152	29.2	9.37	1.42	9.74	3.12	16.3
EPH Range >C10 - C40 (aq)	<46 µg/l	TM172	303	1350	<46	1390	2490	241
Mineral oil >C10 C40 (aq)	<10 µg/l	TM172	<10	800	<10	923	1740	95.3
Mercury (diss.filt)	<0.01 µg/l	TM183	<0.01	<0.01	0.0144	<0.01	<0.01	<0.01
Sulphate	<3 mg/l	TM184	6.5	<3	41	<3	<3	28.7
Chloride	<2 mg/l	TM184	34.6	34.4	2.8	16.3	6.6	11.3
Phosphate (ortho) as PO4	<0.05 mg/l	TM184	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Total Oxidised Nitrogen as N	<0.1 mg/l	TM184	<0.1	<0.1	<0.1	0.551	<0.1	<0.1
Chromium (tot.unfilt)	<3 µg/l	TM191	4.59	4.1	131	3.39	3.48	5.46
Cyanide, Total	<0.05 mg/l	TM227	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Calcium (diss.filt)	<0.012 mg/l	TM228	108	81.1	32.5	163	138	217
Sodium (diss.filt)	<0.076 mg/l	TM228	18.5	18.1	8.13	32.2	13	18.4
Magnesium (diss.filt)	<0.036 mg/l	TM228	8.26	7.4	12.6	20.5	10.9	19.1
Potassium (diss.filt)	<2.335 mg/l	TM228	6.45	4.63	<2.34	25.7	9.4	23.9
Iron (diss.filt)	<0.019 mg/l	TM228	0.387	1.48	0.166	<0.019	<0.019	<0.019
pH	<1 pH Units	TM256	8.51	8.39	7.96	8.16	8.18	8.08
Phenol	<0.002 mg/l	TM259	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002



# ALcontrol Laboratories Analytical Services

**SDG:** 101015-65  
**Job:** D\_TENV\_BTB-10  
**Client Reference:** 10/198TE  
**Location:** Mullagh Dump

**Customer:** Traynor Environmental Ltd  
**Attention:** Nevin Traynor  
**Order No.:**  
**Report No:** 101948

Results Legend		Customer Sample Ref.	T15	T18	T21	T3	T6	T8
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference						
M	mCERTS accredited.		Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)
aq	Aqueous / settled sample.		14/10/2010	14/10/2010	14/10/2010	14/10/2010	14/10/2010	14/10/2010
dis.filt	Dissolved / filtered sample.		15/10/2010	15/10/2010	15/10/2010	15/10/2010	15/10/2010	15/10/2010
tot.unfilt	Total / unfiltered sample.		101015-65	101015-65	101015-65	101015-65	101015-65	101015-65
*	subcontracted test.		2240193	2240209	2240221	2239995	2240045	2240097
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
Component	LOD/Units	Method						
Cresols	<0.006 mg/l	TM259	<0.006 #	<0.006 #	<0.006 #	<0.006 #	<0.006 #	<0.006 #
Xylenols	<0.008 mg/l	TM259	<0.008 #	<0.008 #	<0.008 #	<0.008 #	<0.008 #	<0.008 #
2,3,5-Trimethylphenol	<0.003 mg/l	TM259	<0.003 #	<0.003 #	<0.003 #	<0.003 #	<0.003 #	<0.003 #
2-Isopropylphenol	<0.006 mg/l	TM259	<0.006 #	<0.006 #	<0.006 #	<0.006 #	<0.006 #	<0.006 #
Phenols, Total 5 speciated	<0.025 mg/l	TM259	<0.025 #	<0.025 #	<0.025 #	<0.025 #	<0.025 #	<0.025 #

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SDG: 101015-65  
 Job: D\_TENV\_BT B-10  
 Client Reference: 10/198TE  
 Location: Mullagh Dump

Customer: Traynor Environmental Ltd  
 Attention: Nevin Traynor  
 Order No.:  
 Report No: 101948

Acid Herbicides (W)

#	M	aq	diss.filt	tot.unfilt	"	"	Customer Sample Ref.	T15	T18	T21	T3	T6	T8
								Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)
ISO17025 accredited. UKAS Accredited. Agreous / settled sample. Dissolved / filtered sample. Total / unfiltered sample. subcontracted test. % recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							Depth (m)	14/10/2010	14/10/2010	14/10/2010	14/10/2010	14/10/2010	14/10/2010
							Sample Type	15/10/2010	15/10/2010	15/10/2010	15/10/2010	15/10/2010	15/10/2010
							Date Sampled	101015-65	101015-65	101015-65	101015-65	101015-65	101015-65
							Date Received	2240193	2240209	2240221	2239995	2240045	2240097
							SDG Ref						
							Lab Sample No.(s)						
							AGS Reference						
Component	LOD/Units	Method											
Phenoxyacetic acid (PAA)	<0.031 µg/l	TM186	<0.031	<0.031	<0.031	<0.031	0.0327	<0.031					
Dicamba	<0.033 µg/l	TM186	<0.033	<0.033	<0.033	<0.33	<0.033	<0.33					
Phenoxypropionic acid (PPA)	<0.023 µg/l	TM186	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023					
4-Chlorophenoxyacetic acid (4-CPA)	<0.037 µg/l	TM186	<0.037	<0.037	<0.037	<0.037	<0.037	<0.037					
4-Phenoxybutyric acid	<0.019 µg/l	TM186	<0.019	<0.019	<0.019	<0.019	<0.019	<0.019					
Bentazone	<0.018 µg/l	TM186	<0.018	<0.018	<0.018	0.0182	<0.018	<0.018					
Bromoxynil	<0.022 µg/l	TM186	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022					
Dichlorophenoxy acetic (2,4-D)	<0.026 µg/l	TM186	<0.026	<0.026	<0.026	<0.026	<0.026	<0.026					
2-methyl-4-Chlorophenoxyacetic acid (MCPA)	<0.03 µg/l	TM186	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03					
2-methyl-4,6-Dinitrophenol	<0.041 µg/l	TM186	<0.041	<0.041	<0.041	<0.041	<0.041	<0.041					
Triclopyr	<0.022 µg/l	TM186	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022					
loxynil	<0.017 µg/l	TM186	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017					
2,4-Dichlorophenoxy acetic acid (2,4-DP)	<0.015 µg/l	TM186	<0.015	<0.015	<0.015	0.0448	0.0464	0.0158					
2,4,5-Trichlorophenol (2,4,5-T)	<0.029 µg/l	TM186	<0.029	<0.029	<0.029	<0.029	<0.029	<0.029					
Mecoprop (MCP)	<0.025 µg/l	TM186	0.224	0.0289	<0.025	2.06	0.103	1.06					
4-(2,4-Dichlorophenoxy)butyric acid (2,4-D)	<0.022 µg/l	TM186	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022					
4-(4-Chloro-o-tolyloxy)butyric acid (MCPB)	<0.029 µg/l	TM186	<0.029	<0.029	<0.029	<0.029	<0.029	<0.029					
2-(2,4,5-Trichlorophenoxy)propionic acid	<0.024 µg/l	TM186	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024					
Dinoseb	<0.027 µg/l	TM186	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027					
Pentachlorophenol	<0.032 µg/l	TM186	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032					

SDG: 101015-65  
 Job: D\_TENV\_BT B-10  
 Client Reference: 10/198TE  
 Location: Mullagh Dump

Customer: Traynor Environmental Ltd  
 Attention: Nevin Traynor  
 Order No.:  
 Report No: 101948

## OC, OP Pesticides and Triazine Herb

Customer Sample Ref.	T16	T18	T21	T3	T6	T8
Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	14/10/2010 15/10/2010 101015-65 2240193	14/10/2010 15/10/2010 101015-65 2240209	14/10/2010 15/10/2010 101015-65 2240221	14/10/2010 15/10/2010 101015-65 2239995	14/10/2010 15/10/2010 101015-65 2240045	14/10/2010 15/10/2010 101015-65 2240097
Component	LOD/Units	Method				
Altrazine	<1 µg/l	TM231	<1	<1	<1	<1
Simazine	<1 µg/l	TM231	<1	<1	<1	<1
Dichlorvos	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01
Mevinphos	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01
Tecnazene	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01
Hexachlorobenzene	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01
Trifluralin	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01
γ-Hexachlorocyclohexane (HCH / Lindane)	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01
Quintozene (PCNB)	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01
Diazinon	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01
Triallate	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01
Etrimephos	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01
γ-Hexachlorocyclohexane (HCH / Lindane)	<0.01 µg/l	TM231	<0.01	<0.01	0.293	<0.01
Disulfoton	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01
Propetamphos	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01
Heptachlor	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01
Chlorpyrifos methyl	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01
Dimethoate	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01
Aldrin	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01
Chlorothalonil	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01
Pirimiphos-methyl	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01
β-Hexachlorocyclohexane (HCH / Lindane)	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01
Chlorpyrifos	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01
Telodrin	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01
Methyl parathion	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01
Isodrin	<0.01 µg/l	TM231	<0.01	0.0245	<0.01	<0.01
Malathion	<0.01 µg/l	TM231	<0.01	<0.01	0.0314	<0.01
Fenthion	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01
Fenitrothion	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01
Heptachlor epoxide	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01
Triadimefon	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01
Pendimethalin	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01
Parathion	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01
o,p-DDE	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01
Chlorfenvinphos	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01
Endosulphan I	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01
Trans-chlordane	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01
cis-Chlordane	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01
p,p-DDE	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01

SDG: 101015-65  
 Job: D\_TENV\_BTB-10  
 Client Reference: 10/198TE  
 Location: Mullagh Dump

Customer: Traynor Environmental Ltd  
 Attention: Nevin Traynor  
 Order No.:  
 Report No: 101948

OC, OP Pesticides and Triazine Herb

Customer Sample Ref.		T15	T18	T21	T3	T6	T8
Depth (m)	Sample Type	Water(GW:SW)	Water(GW:SW)	Water(GW:SW)	Water(GW:SW)	Water(GW:SW)	Water(GW:SW)
Date Sampled	Date Received	14/10/2010	14/10/2010	14/10/2010	14/10/2010	14/10/2010	14/10/2010
SDG Ref	SDG Ref	101015-65	101015-65	101015-65	101015-65	101015-65	101015-65
Lab Sample No.(s)	AGS Reference	2240193	2240209	2240221	2238995	2240045	2240097
Component	LOD/Units	Method					
Dieldrin	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01
o,p-TDE (DDD)	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01
Endrin	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01
o,p-DDT	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01
p,p-TDE (DDD)	<0.01 µg/l	TM231	0.0113	<0.01	<0.01	<0.01	<0.01
Ethion	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01
Endosulphan II	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01
DDT	<0.01 µg/l	TM231	0.0613	<0.01	<0.01	<0.01	<0.01
Carbophenothion	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01
o,p-Methoxychlor	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01
Triazophos	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01
p,p-Methoxychlor	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01
Endosulphan sulphate	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01
Permethrin I	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01
Phosalone	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01
Permethrin II	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01
Azinphos-methyl	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01
Azinphos-ethyl	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01

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SDG: 101015-65  
 Job: D\_TENV\_BT B-10  
 Client Reference: 10/198TE  
 Location: Mullagh Dump

Customer: Traynor Environmental Ltd  
 Attention: Nevin Traynor  
 Order No.:  
 Report No: 101948

PAH Spec MS - Aqueous (W)

Customer Sample Ref.		T15	T18	T21	T3	T6	T8	
#	ISO17025 accredited. m/CERTS accredited. aq Aqueous / settled sample. dis.filt Dissolved / filtered sample. total.filt Total / unfiltered sample. * subcontracted test. ** % recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	Water(GW/SW) 14/10/2010 15/10/2010 101015-65 2240193	Water(GW/SW) 14/10/2010 15/10/2010 101015-65 2240209	Water(GW/SW) 14/10/2010 15/10/2010 101015-65 2240221	Water(GW/SW) 14/10/2010 15/10/2010 101015-65 2239995	Water(GW/SW) 14/10/2010 15/10/2010 101015-65 2240045	Water(GW/SW) 14/10/2010 15/10/2010 101015-65 2240097
Component	LOD/Units	Method						
Naphthalene (aq)	<0.1 µg/l	TM178	<0.1 #	0.119 #	0.109 #	<0.1 #	0.176 #	<0.1 #
Acenaphthene (aq)	<0.015 µg/l	TM178	<0.015 #	<0.015 #	<0.015 #	0.0557 #	0.0394 #	0.0243 #
Acenaphthylene (aq)	<0.011 µg/l	TM178	<0.011 #	<0.011 #	<0.011 #	<0.011 #	0.0253 #	<0.011 #
Fluoranthene (aq)	<0.014 µg/l	TM178	0.0413 #	<0.014 #	<0.014 #	0.0205 #	0.0889 #	0.173 #
Anthracene (aq)	<0.015 µg/l	TM178	<0.015 #	<0.015 #	<0.015 #	<0.015 #	0.0228 #	<0.015 #
Phenanthrene (aq)	<0.022 µg/l	TM178	<0.022 #	<0.022 #	<0.022 #	0.0324 #	0.121 #	0.0286 #
Fluorene (aq)	<0.014 µg/l	TM178	<0.014 #	<0.014 #	<0.014 #	0.0387 #	0.199 #	0.0152 #
Pyrene (aq)	<0.013 µg/l	TM178	0.0251 #	<0.013 #	<0.013 #	<0.013 #	0.0608 #	0.092 #
Benzo(a)anthracene (aq)	<0.015 µg/l	TM178	0.0513 #	0.0796 #	<0.015 #	0.0301 #	0.106 #	0.213 #
Benzo(b)fluoranthene (aq)	<0.017 µg/l	TM178	0.0383 #	0.0357 #	<0.017 #	0.0198 #	0.0693 #	0.138 #
Benzo(k)fluoranthene (aq)	<0.023 µg/l	TM178	<0.023 #	<0.023 #	<0.023 #	<0.023 #	0.0486 #	0.15 #
Benzo(a)pyrene (aq)	<0.027 µg/l	TM178	<0.027 #	<0.027 #	<0.027 #	<0.027 #	0.117 #	0.16 #
Dibenzo(a,h)anthracene (aq)	<0.009 µg/l	TM178	0.0268 #	0.0119 #	<0.009 #	0.0108 #	0.113 #	0.186 #
Benzo(g,h,i)perylene (aq)	<0.016 µg/l	TM178	<0.016 #	<0.016 #	<0.016 #	<0.016 #	<0.016 #	0.0368 #
Indeno(1,2,3-cd)pyrene (aq)	<0.016 µg/l	TM178	0.0274 #	0.0255 #	<0.016 #	<0.016 #	0.0532 #	0.134 #
Polyaromatic hydrocarbons, Total USEPA 16 (aq)	<0.014 µg/l	TM178	0.0198 #	0.0215 #	<0.014 #	<0.014 #	0.0568 #	0.127 #
	<0.1 µg/l	TM178	0.243 #	0.293 #	0.109 #	0.208 #	1.29 #	1.48 #

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SDG: 101015-65  
 Job: D\_TENV\_BT B-10  
 Client Reference: 10/198TE  
 Location: Mullagh Dump

Customer: Traynor Environmental Ltd  
 Attention: Nevin Traynor  
 Order No.:  
 Report No: 101948

**SVOC MS (W) - Aqueous**

#	M	aq	Customer Sample Ref.	T15	T18	T21	T3	T6	T8
1,2,4-Trichlorobenzene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1	<1
2,4,5-Trichlorophenol (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1	<1
2,4,6-Trichlorophenol (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1	<1
2,4-Dichlorophenol (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1	<1
Dimethylphenol (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1	<1
2,4-Dinitrotoluene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1	<1
2,6-Dinitrotoluene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1	<1
2-Chloronaphthalene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1	<1
2-Chlorophenol (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1	<1
2-Methylnaphthalene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1	<1
2-Methylphenol (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1	<1
2-Nitroaniline (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1	<1
2-Nitrophenol (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1	<1
3-Nitroaniline (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1	<1
4-Bromophenylphenylether (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1	<1
4-Chloro-3-methylphenol (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1	<1
4-Chloroaniline (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1	<1
4-Chlorophenylphenylether (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1	<1
4-Methylphenol (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1	<1
rophenol (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1	<1
4-Nitroaniline (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1	<1
Azobenzene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1	<1
Acenaphthylene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1	<1
Acenaphthene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1	<1
Anthracene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1	<1
bis(2-Chloroethyl)ether (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1	<1
bis(2-Chloroethoxy)methane (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1	<1
bis(2-Ethylhexyl) phthalate (aq)	<2 µg/l	TM176	<2	<5	<2	<2	<2	<2	<2
Benzo(a)anthracene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1	<1
Butylbenzyl phthalate (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1	<1
Benzo(b)fluoranthene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1	<1
Benzo(k)fluoranthene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1	<1
Benzo(a)pyrene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1	<1
Benzo(g,h,i)perylene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1	<1
Carbazole (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1	<1
Chrysene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<1	<1	<1

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SDG: 101015-65  
 Job: D\_TENV\_BT B-10  
 Client Reference: 10/198TE  
 Location: Mullagh Dump

Customer: Traynor Environmental Ltd  
 Attention: Nevin Traynor  
 Order No.:  
 Report No: 101948

SVOC MS (W) - Aqueous

# M aq diss.filt tot.unfilt *	ISO17025 accredited. mCERTS accredited. Aqueous / filtered sample. Dissolved / filtered sample. Total / unfiltered sample. subcontracted test. % recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.	Customer Sample Ref.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	T16	T18	T21	T3	T6	T8
				Water(GW/SW) 14/10/2010 15/10/2010 101015-65 2240193	Water(GW/SW) 14/10/2010 15/10/2010 101015-65 2240209	Water(GW/SW) 14/10/2010 15/10/2010 101015-65 2240221	Water(GW/SW) 14/10/2010 15/10/2010 101015-65 2239995	Water(GW/SW) 14/10/2010 15/10/2010 101015-65 2240045	Water(GW/SW) 14/10/2010 15/10/2010 101015-65 2240097
Component	LOD/Units	Method							
Dibenzofuran (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<1
n-Dibutyl phthalate (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<1
Diethyl phthalate (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<1
Dibenzo(a,h)anthracene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<1
Dimethyl phthalate (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<1
n-Dioctyl phthalate (aq)	<5 µg/l	TM176		<5	<5	<5	<5	<5	<5
Fluoranthene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<1
fluorene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<1
hexachlorobenzene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<1
Hexachlorobutadiene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<1
Pentachlorophenol (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<1
Phenol (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<1
n-Nitroso-n-dipropylamine (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<1
Hexachloroethane (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<1
Nitrobenzene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<1
Naphthalene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<1
Isophorone (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<1
Hexachlorocyclopentadiene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<1
Phenanthrene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<1
Indeno(1,2,3-cd)pyrene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<1
Pyrene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<1

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SDG: 101015-65  
 Job: D\_TENV\_BT B-10  
 Client Reference: 10/198TE  
 Location: Mullagh Dump

Customer: Traynor Environmental Ltd  
 Attention: Nevin Traynor  
 Order No.:  
 Report No: 101948

TBT/TPT/DBT (W)*		Customer Sample Ref.	T15	T18	T21	T3	T6	T8
#	Results Legend	Depth (m)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)
M	ISO17025 accredited.	Sample Type	14/10/2010	14/10/2010	14/10/2010	14/10/2010	14/10/2010	14/10/2010
aq	mCERTS accredited.	Date Sampled	15/10/2010	15/10/2010	15/10/2010	15/10/2010	15/10/2010	15/10/2010
diss.filt	Aqueous / settled sample.	Date Received	101015-65	101015-65	101015-65	101015-65	101015-65	101015-65
tot.unfilt	Dissolved / filtered sample.	SDG Ref	2240193	2240209	2240221	2239995	2240045	2240097
*	Total / unfiltered sample.	Lab Sample No.(s)						
**	subcontracted test.	AGS Reference						
	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
Component	LOD/Units	Method						
Tributyl tin*	<0.02 µg/l	SUB	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Triphenyl tin*	<0.05 µg/l	SUB	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibutyl tin*	<0.02 µg/l	SUB	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Tetrabutyl tin*	<0.02 µg/l	SUB	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

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SDG: 101015-65  
 Job: D\_TENV\_BTB-10  
 Client Reference: 10/198TE  
 Location: Mullagh Dump

Customer: Traynor Environmental Ltd  
 Attention: Nevin Traynor  
 Order No.:  
 Report No: 101948

VOC MS (W)			T15	T18	T21	T3	T6	T8	
#	M	aq	Customer Sample Ref.	T15	T18	T21	T3	T6	T8
ISO17025 accredited.	mCERTS accredited.	Aqueous / settled sample.	Sample Type	14/10/2010	14/10/2010	14/10/2010	14/10/2010	14/10/2010	14/10/2010
diss.filt		Disolved / filtered sample.	Date Sampled	15/10/2010	15/10/2010	15/10/2010	15/10/2010	15/10/2010	15/10/2010
tot.unfilt		Total / unfiltered sample.	Date Received	101015-65	101015-65	101015-65	101015-65	101015-65	101015-65
*		subcontracted test.	SDG Ref	2240193	2240209	2240221	2239995	2240045	2240097
**		% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.	Lab Sample No.(s)						
			AGS Reference						
Component	LOD/Units	Method							
Dibromofluoromethane**	%	TM208	101	102	102	114	106	102	
Toluene-d8**	%	TM208	98.3	99.4	99.9	99.5	100	99.1	
4-Bromofluorobenzene**	%	TM208	97.6	98.9	99.7	102	103	99	
Dichlorodifluoromethane	<7 µg/l	TM208	<7	<7	<7	<7	<7	<7	<7
Chloromethane	<9 µg/l	TM208	<9	<9	<9	<9	<9	<9	<9
Vinyl chloride	<1.2 µg/l	TM208	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
Bromomethane	<2 µg/l	TM208	<2	<2	<2	<2	<2	<2	<2
Chloroethane	<2.5 µg/l	TM208	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Trichlorofluoromethane	<1.3 µg/l	TM208	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3
1,1-Dichloroethene	<1.2 µg/l	TM208	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
Carbon disulphide	<1.3 µg/l	TM208	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3
Dichloromethane	<3.7 µg/l	TM208	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7
Methyl tertiary butyl ether (MTBE)	<1.6 µg/l	TM208	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6
trans-1,2-Dichloroethene	<1.9 µg/l	TM208	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9
1,1-Dichloroethane	<1.2 µg/l	TM208	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
cis-1,2-Dichloroethene	<2.3 µg/l	TM208	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3
2,2-Dichloropropane	<3.8 µg/l	TM208	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8
Bromochloromethane	<1.9 µg/l	TM208	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9
Chloroform	<1.8 µg/l	TM208	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
1,1,1-Trichloroethane	<1.3 µg/l	TM208	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3
1,1-Dichloropropene	<1.3 µg/l	TM208	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3
Carbontetrachloride	<1.4 µg/l	TM208	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4
Dichloroethane	<3.3 µg/l	TM208	<3.3	<3.3	<3.3	<3.3	<3.3	<3.3	<3.3
Benzene	<1.3 µg/l	TM208	<1.3	<1.3	<1.3	1.75	14.2	<1.3	
Trichloroethene	<2.5 µg/l	TM208	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
1,2-Dichloropropane	<3 µg/l	TM208	<3	<3	<3	<3	<3	<3	<3
Dibromomethane	<2.7 µg/l	TM208	<2.7	<2.7	<2.7	<2.7	<2.7	<2.7	<2.7
Bromodichloromethane	<0.9 µg/l	TM208	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
cis-1,3-Dichloropropene	<1.9 µg/l	TM208	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9
Toluene	<1.4 µg/l	TM208	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4
trans-1,3-Dichloropropene	<3.5 µg/l	TM208	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5
1,1,2-Trichloroethane	<2.2 µg/l	TM208	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2
1,3-Dichloropropane	<2.2 µg/l	TM208	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2
Tetrachloroethene	<1.5 µg/l	TM208	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
Dibromochloromethane	<1.7 µg/l	TM208	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
1,2-Dibromoethane	<2.3 µg/l	TM208	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3
Chlorobenzene	<3.5 µg/l	TM208	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5
1,1,1,2-Tetrachloroethane	<1.3 µg/l	TM208	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3
Ethylbenzene	<2.5 µg/l	TM208	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5

SDG: 101015-65  
 Job: D\_TENV\_BT B-10  
 Client Reference: 10/198TE  
 Location: Mullagh Dump

Customer: Traynor Environmental Ltd  
 Attention: Nevin Traynor  
 Order No.:  
 Report No: 101948

VOC MS (W)

# M ag tot un fit * SO17028 accredited. mCERTS accredited. Aqueous / settled sample. Dissolved / filtered sample. Total / unfiltered sample. substracted test. % recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.		Customer Sample Ref.	T15	T18	T21	T3	T6	T8
Component	LOD/Units	Method	Water(GW/SW) 14/10/2010 15/10/2010 101015-65 2240193	Water(GW/SW) 14/10/2010 15/10/2010 101015-65 2240209	Water(GW/SW) 14/10/2010 15/10/2010 101015-65 2240221	Water(GW/SW) 14/10/2010 15/10/2010 101015-65 2239995	Water(GW/SW) 14/10/2010 15/10/2010 101015-65 2240045	Water(GW/SW) 14/10/2010 15/10/2010 101015-65 2240097
m,p-Xylene	<2.5 µg/l	TM208	<2.5 #	<2.5 #	<2.5 #	<2.5 #	<2.5 #	<2.5 #
o-Xylene	<1.7 µg/l	TM208	<1.7 #	<1.7 #	<1.7 #	<1.7 #	<1.7 #	<1.7 #
Styrene	<1.2 µg/l	TM208	<1.2 #	<1.2 #	<1.2 #	<1.2 #	<1.2 #	<1.2 #
Bromoform	<3 µg/l	TM208	<3 #	<3 #	<3 #	<3 #	<3 #	<3 #
Isopropylbenzene	<1.4 µg/l	TM208	<1.4 #	<1.4 #	<1.4 #	1.58 #	<1.4 #	<1.4 #
1,1,2,2-Tetrachloroethane	<5.2 µg/l	TM208	<5.2 #	<5.2 #	<5.2 #	<5.2 #	<5.2 #	<5.2 #
1,2,3-Trichloropropane	<7.8 µg/l	TM208	<7.8 #	<7.8 #	<7.8 #	<7.8 #	<7.8 #	<7.8 #
m-mobenzene	<2 µg/l	TM208	<2 #	<2 #	<2 #	<2 #	<2 #	<2 #
o-propylbenzene	<2.6 µg/l	TM208	<2.6 #	<2.6 #	<2.6 #	<2.6 #	<2.6 #	<2.6 #
2-Chlorotoluene	<1.9 µg/l	TM208	<1.9 #	<1.9 #	<1.9 #	<1.9 #	<1.9 #	<1.9 #
1,3,5-Trimethylbenzene	<1.8 µg/l	TM208	<1.8 #	<1.8 #	<1.8 #	<1.8 #	<1.8 #	<1.8 #
4-Chlorotoluene	<1.9 µg/l	TM208	<1.9 #	<1.9 #	<1.9 #	<1.9 #	<1.9 #	<1.9 #
tert-Butylbenzene	<2 µg/l	TM208	<2 #	<2 #	<2 #	<2 #	<2 #	<2 #
1,2,4-Trimethylbenzene	<1.7 µg/l	TM208	<1.7 #	<1.7 #	<1.7 #	<1.7 #	<1.7 #	<1.7 #
sec-Butylbenzene	<1.7 µg/l	TM208	<1.7 #	<1.7 #	<1.7 #	<1.7 #	<1.7 #	<1.7 #
4-iso-Propyltoluene	<2.6 µg/l	TM208	<2.6 #	<2.6 #	<2.6 #	<2.6 #	<2.6 #	<2.6 #
1,3-Dichlorobenzene	<2.2 µg/l	TM208	<2.2 #	<2.2 #	<2.2 #	<2.2 #	<2.2 #	<2.2 #
1,4-Dichlorobenzene	<2.7 µg/l	TM208	<2.7 #	<2.7 #	<2.7 #	<2.7 #	<2.7 #	<2.7 #
n-Butylbenzene	<2 µg/l	TM208	<2 #	<2 #	<2 #	<2 #	<2 #	<2 #
1,2-Dichlorobenzene	<3.7 µg/l	TM208	<3.7 #	<3.7 #	<3.7 #	<3.7 #	<3.7 #	<3.7 #
1,2-Dibromo-3-chloropropan	<9.8 µg/l	TM208	<9.8 #	<9.8 #	<9.8 #	<9.8 #	<9.8 #	<9.8 #
1,2,4-Trichlorobenzene	<2.3 µg/l	TM208	<2.3 #	<2.3 #	<2.3 #	<2.3 #	<2.3 #	<2.3 #
1,2-dichlorobutadiene	<2.5 µg/l	TM208	<2.5 #	<2.5 #	<2.5 #	<2.5 #	<2.5 #	<2.5 #
tert-Amyl methyl ether (TAME)	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Naphthalene	<3.5 µg/l	TM208	<3.5 #	<3.5 #	<3.5 #	<3.5 #	<3.5 #	<3.5 #
1,2,3-Trichlorobenzene	<3.1 µg/l	TM208	<3.1 #	<3.1 #	<3.1 #	<3.1 #	<3.1 #	<3.1 #
1,3,5-Trichlorobenzene	<10 µg/l	TM208	<10 #	<10 #	<10 #	<10 #	<10 #	<10 #

SDG: 101015-65  
 Job: D\_TENV\_BT B-10  
 Client Reference: 10/198TE  
 Location: Mullagh Dump

Customer: Traynor Environmental Ltd  
 Attention: Nevin Traynor  
 Order No.:  
 Report No: 101948

#	Description	Customer Sample Ref.	T11		T13		T18		T21	
			Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
	SO17025 accredited. mCERTS accredited. Aqueous / settled sample. Dissolved / filtered sample. Total / unfiltered sample. subcontracted test. % recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	14/10/2010	14/10/2010	14/10/2010	14/10/2010	14/10/2010	14/10/2010	14/10/2010	14/10/2010
			15/10/2010	15/10/2010	15/10/2010	15/10/2010	15/10/2010	15/10/2010	15/10/2010	15/10/2010
			101015-65	101015-65	101015-65	101015-65	101015-65	101015-65	101015-65	101015-65
			2240375	2240381	2240384	2240384	2240384	2240384	2240393	2240393
Component	LOD/Units	Method								
Ammoniacal Nitrogen, exchangeable as NH4	<15 mg/kg	TM024	347	#	117	#	219	#	<15	M
Ammoniacal Nitrogen as N	<15 mg/kg	TM024	270	#	91.1	#	170	#	<15	M
Mineral oil >C10-C40	<1 mg/kg	TM061	302	#	802	#	558	#	11.7	#
Surrogate Value	-	TM061	39.8	#	39.6	#	41.6	#	41.1	#
EPH Surrogate % recovery**	%	TM061	114	#	108	#	118	#	111	M
Mineral Oil Surrogate % recovery**	%	TM061	79.7	#	79.2	#	83.2	#	82.1	M
EPH Range >C10 - C40	<35 mg/kg	TM061	2050	#	2820	#	2610	#	162	M
pH	1 pH Units	TM133	7.79	#	7.44	#	7.3	#	6.91	M
Copper	<1.4 mg/kg	TM181	50.3	#	83.6	#	681	#	23.3	M
Iron	<2 mg/kg	TM181	39400	#	25400	#	34900	#	26700	#
Lead	<0.7 mg/kg	TM181	66	#	328	#	247	#	6.88	M
Manganese	<0.13 mg/kg	TM181	620	#	410	#	377	#	414	M
Mercury	<0.14 mg/kg	TM181	<0.14	#	<0.14	#	<0.14	#	<0.14	M
Nickel	<0.2 mg/kg	TM181	41.2	#	42	#	27.4	#	40.6	M
Phosphorus	<1 mg/kg	TM181	1230	#	1170	#	1110	#	759	M
Zinc	<1.9 mg/kg	TM181	283	#	330	#	915	#	50.8	M
Sodium	<7 mg/kg	TM224	337	#	810	#	293	#	102	M
Magnesium	<8 mg/kg	TM224	8310	#	5950	#	5270	#	8290	M
Potassium	<16 mg/kg	TM224	1760	#	1420	#	1110	#	1670	M
Alkalinity, Total as CaCO3	<10 mg/kg	TM230	1130	#	840	#	1080	#	<10	M
Conductivity @ 20 deg.C	<0.014 mS/cm	TM234	2.37	#	2.45	#	2.49	#	1.88	#
Water Soluble Sulphate as SO4 2:1 Extract	<0.008 g/l	TM243	0.102	#	1.84	#	1.24	#	<0.008	M
Free (soluble)	<5 mg/kg	TM243	255	#	167	#	90.6	#	<5	M



SDG: 101015-65  
 Job: D\_TENV\_BT-10  
 Client Reference: 10/198TE  
 Location: Mullagh Dump

Customer: Traynor Environmental Ltd  
 Attention: Nevin Traynor  
 Order No.:  
 Report No: 101948

PAH by GCMS

Results Legend		Customer Sample Ref.	T11	T13	T18	T21
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No (s) AGS Reference				
M	mCERIS accredited.					
aq	Aqueous / settled sample.		Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
diss.filt	Dissolved / filtered sample.		14/10/2010	14/10/2010	14/10/2010	14/10/2010
tot.unfilt	Total / unfiltered sample.		15/10/2010	15/10/2010	15/10/2010	15/10/2010
*	subcontracted test.		101015-65	101015-65	101015-65	101015-65
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.	2240375	2240381	2240384	2240393	
Component	LOD/Units	Method				
Naphthalene-d8 % recovery**	%	TM218	105	107	112	96.8
Acenaphthene-d10 % recovery**	%	TM218	102	106	111	93.8
Phenanthrene-d10 % recovery**	%	TM218	105	107	112	98
Chrysene-d12 % recovery**	%	TM218	98.1	95.9	108	90.9
Perylene-d12 % recovery**	%	TM218	106	100	117	96.4
Naphthalene	<9 µg/kg	TM218	553	448	349	<9
Acenaphthylene	<12 µg/kg	TM218	391	53	48.9	<12
Fluorene	<8 µg/kg	TM218	1350	77.8	188	<8
Phenanthrene	<10 µg/kg	TM218	1090	237	256	<10
Anthracene	<15 µg/kg	TM218	4360	744	619	<15
Fluoranthene	<16 µg/kg	TM218	2100	231	203	<16
Pyrene	<17 µg/kg	TM218	17900	805	600	<17
Benz(a)anthracene	<15 µg/kg	TM218	14900	864	548	<15
Chrysene	<14 µg/kg	TM218	5970	520	247	<14
Benzo(b)fluoranthene	<10 µg/kg	TM218	4380	609	233	<10
Benzo(k)fluoranthene	<15 µg/kg	TM218	7800	553	327	<15
Benzo(a)pyrene	<14 µg/kg	TM218	2730	164	110	<14
Indeno(1,2,3-cd)pyrene	<15 µg/kg	TM218	6930	322	239	<15
Dibenzo(a,h)anthracene	<18 µg/kg	TM218	3490	166	144	<18
Benzo(g,h,i)perylene	<23 µg/kg	TM218	907	67.6	<23	<23
Polyaromatic hydrocarbons, Total USEPA 16	<24 µg/kg	TM218	4190	246	188	<24
	<118 µg/kg	TM218	79100	6110	4300	<118

SDG: 101015-65  
 Job: D\_TENV\_BT-10  
 Client Reference: 10/198TE  
 Location: Mullagh Dump

Customer: Traynor Environmental Ltd  
 Attention: Nevin Traynor  
 Order No.:  
 Report No: 101948

## VOC MS (S)

#		Customer Sample Ref.	T11	T13	T18	T21
M		Depth (m)	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
AQ		Sample Type	14/10/2010	14/10/2010	14/10/2010	14/10/2010
diss.filt		Date Sampled	15/10/2010	15/10/2010	15/10/2010	15/10/2010
totunfilt		Date Received	101015-65	101015-65	101015-65	101015-65
*		SDG Ref	2240375	2240381	2240384	2240393
**		Lab Sample No.(s)				
		AGS Reference				
Component	LOD/Units	Method				
Dibromofluoromethane**	%	TM116	54.1	64.7	76.9	99.4
Toluene-d8**	%	TM116	87.4	88	88.3	105
4-Bromofluorobenzene**	%	TM116	130	141	145	102
Dichlorodifluoromethane	<4 µg/kg	TM116	<4	<4	<4	<4
Chloromethane	<7 µg/kg	TM116	<7	<7	<7	<7
Vinyl Chloride	<10 µg/kg	TM116	<10	<10	<10	<10
Bromomethane	<13 µg/kg	TM116	<13	<13	<13	<13
Fluoromethane	<14 µg/kg	TM116	<14	<14	<14	<14
Trichlorofluoromethane	<6 µg/kg	TM116	<6	23.6	<6	<6
1,1-Dichloroethene	<10 µg/kg	TM116	<10	<10	<10	<10
Carbon Disulphide	<7 µg/kg	TM116	106	131	516	<7
Dichloromethane	<10 µg/kg	TM116	<10	<10	<10	<10
Methyl Tertiary Butyl Ether	<11 µg/kg	TM116	<11	<11	<11	<11
trans-1-2-Dichloroethene	<11 µg/kg	TM116	<11	<11	<11	<11
1,1-Dichloroethane	<8 µg/kg	TM116	<8	<8	<8	<8
cis-1-2-Dichloroethane	<5 µg/kg	TM116	<5	<5	<5	<5
2,2-Dichloropropane	<12 µg/kg	TM116	<12	<12	<12	<12
Bromochloromethane	<14 µg/kg	TM116	<14	<14	<14	<14
Chloroform	<8 µg/kg	TM116	<8	<8	<8	<8
1,1,1-Trichloroethane	<7 µg/kg	TM116	<7	<7	<7	<7
1,1-Dichloropropene	<11 µg/kg	TM116	<11	<11	<11	<11
Carbontetrachloride	<14 µg/kg	TM116	<14	<14	<14	<14
1,1-Dichloroethane	<5 µg/kg	TM116	<5	<5	<5	<5
Benzene	<9 µg/kg	TM116	61.2	35.4	<9	<9
Trichloroethene	<9 µg/kg	TM116	<9	<9	<9	<9
1,2-Dichloropropane	<12 µg/kg	TM116	<12	<12	<12	<12
Dibromomethane	<9 µg/kg	TM116	<9	<9	<9	<9
Bromodichloromethane	<7 µg/kg	TM116	<7	<7	<7	<7
cis-1-3-Dichloropropene	<14 µg/kg	TM116	<14	<14	<14	<14
Toluene	<5 µg/kg	TM116	60.1	78.6	63.6	<5
trans-1-3-Dichloropropene	<14 µg/kg	TM116	<14	<14	<14	<14
1,1,2-Trichloroethane	<10 µg/kg	TM116	<10	<10	<10	<10
1,3-Dichloropropane	<7 µg/kg	TM116	<7	<7	<7	<7
Tetrachloroethene	<5 µg/kg	TM116	23.8	<5	<5	<5
Dibromochloromethane	<13 µg/kg	TM116	<13	<13	<13	<13
1,2-Dibromoethane	<12 µg/kg	TM116	<12	<12	<12	<12
Chlorobenzene	<5 µg/kg	TM116	<5	<5	<5	<5
1,1,1,2-Tetrachloroethane	<10 µg/kg	TM116	<10	<10	<10	<10
Ethylbenzene	<4 µg/kg	TM116	22.7	22.6	14.1	<4

SDG: 101015-65  
 Job: D\_TENV\_BT B-10  
 Client Reference: 10/198TE  
 Location: Mullagh Dump

Customer: Traynor Environmental Ltd  
 Attention: Nevin Traynor  
 Order No.:  
 Report No: 101948

VOC MS (S)

#	#	aq	diss.filt	tot.unfilt	* % recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.	Customer Sample Ref.	Depth (m)	Sample Type	Date Sampled	Date Received	SDG Ref	Lab Sample No.(s)	AGS Reference	T11	T13	T18	T21
														Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
														43.8	257	34.4	<14
														#	#	#	#
														32.3	29	<10	<10
														#	#	#	M
														<10	<10	<10	<10
														#	#	#	M
														<10	<10	<10	<10
														#	#	#	M
														14	<5	<5	<5
														#	#	#	M
														<10	<10	<10	<10
														#	#	#	#
														<17	<17	<17	<17
														#	#	#	M
														<10	<10	<10	<10
														#	#	#	M
														<11	<11	<11	<11
														#	#	#	M
														<9	<9	<9	<9
														#	#	#	M
														39.6	<8	21.1	<8
														#	#	#	#
														<12	<12	<12	<12
														#	#	#	M
														<12	<12	<12	<12
														#	#	#	M
														179	181	87.8	<9
														#	#	#	#
														<10	<10	<10	<10
														#	#	#	M
														213	<11	<11	<11
														#	#	#	M
														<6	<6	<6	<6
														#	#	#	M
														<5	<5	<5	<5
														#	#	#	M
														<10	<10	<10	<10
														#	#	#	M
														<12	<12	<12	<12
														#	#	#	M
														<14	<14	<14	<14
														#	#	#	M
														<15	<15	<15	<15
														#	#	#	#
														<6	<6	<6	<6
														#	#	#	M
														<12	<12	<12	<12
														#	#	#	M
														<13	<13	<13	<13
														#	#	#	M
														<6	<6	<6	<6
														#	#	#	M



## Table of Results - Appendix

SDG Number : 101015-65 Client : D\_TENV\_BT B Client Ref : 10/198TE

## REPORT KEY

Results expressed as (e.g.) 1.03E-07 is equivalent to 1.03x10<sup>-7</sup>

NDP	No Determination Possible	#	ISO 17025 Accredited	*	Subcontracted Test	M	MCERTS Accredited
NFD	No Fibres Detected	PF	Possible Fibres Detected	**	Result previously reported (Incremental reports only)	EC	Equivalent Carbon (Aromatics C8-C35)

Note: Method detection limits are not always achievable due to various circumstances beyond our control

Method No	Reference	Description	Wet/Dry Sample †	Surrogate Corrected
PM001		Preparation of Samples for Metals Analysis		
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material		
SUB		Subcontracted Test		
TM024	Method 4500A & B, AWWA/APHA, 20th Ed., 1999	Determination of Exchangeable Ammonium and Ammoniacal Nitrogen as N by titration on solids		
TM043	Method 2320B, AWWA/APHA, 20th Ed., 1999 / BS 2690: Part 109 1984	Determination of alkalinity in aqueous samples		
TM045	MEWAM BOD5 2nd Ed.HMSO 1988 / Method 5210B, AWWA/APHA, 20th Ed., 1999; SCA Blue Book 130	Determination of BOD5 (ATU) Filtered by Oxygen Meter on liquids		
TM061	Method for the Determination of EPH, Massachusetts Dept. of EP, 1998	Determination of Extractable Petroleum Hydrocarbons by GC-FID (C10-C40)		
TM090	Method 5310, AWWA/APHA, 20th Ed., 1999 / Modified: US EPA Method 415.1 & 9060	Determination of Total Organic Carbon/Total Inorganic Carbon in Water and Waste Water		
TM099	BS 2690: Part 7:1968 / BS 6068: Part 2.11:1984	Determination of Ammonium in Water Samples using the Kone Analyser		
TM104	Method 4500F, AWWA/APHA, 20th Ed., 1999	Determination of Fluoride using the Kone Analyser		
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS		
TM120	Method 2510B, AWWA/APHA, 20th Ed., 1999 / BS 2690: Part 9:1970	Determination of Electrical Conductivity using a Conductivity Meter		
TM123	BS 2690: Part 12:1981	The Determination of Total Dissolved Solids in Water		
TM133	BS 1377: Part 3 1990; BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter		
TM152	Method 3125B, AWWA/APHA, 20th Ed., 1999	Analysis of Aqueous Samples by ICP-MS		
TM172	Analysis of Petroleum Hydrocarbons in Environmental Media - Total Petroleum Hydrocarbon Criteria	EPH in Waters		
TM176	EPA 8270D Semi-Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	Determination of SVOCs in Water by GCMS		
TM178	Modified: US EPA Method 8100	Determination of Polynuclear Aromatic Hydrocarbons (PAH) by GC-MS in Waters		
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES		
TM183	BS EN 23506:2002, (BS 6068-2.74:2002) ISBN 0 580 38924 3	Determination of Trace Level Mercury in Waters and Leachates by PSA Cold Vapour Atomic Fluorescence Spectrometry		
TM184	EPA Methods 325.1 & 325.2,	The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers		
TM186	Determination of Acidic Herbicides in Groundwater and Potable Water by LC/MSD Using Selective Ion Monitoring, Agilent Technologies Inc. Application Note 5988-5882EH.	The Determination of Acid Herbicides in Environmental Water Samples and Leachates by LC/MS QQQ.		
TM191	Standard Methods for the examination of waters and wastewaters 16th Edition, ALPHA, Washington DC, USA, ISBN 0-87553-131-8.	Determination of Unfiltered Metals in Water Matrices by ICP-MS		
TM208	Modified: US EPA Method 8260b & 624	Determination of Volatile Organic Compounds by Headspace / GC-MS in Waters		
TM218	Microwave extraction - EPA method 3546	Microwave extraction - EPA method 3546		
TM224	US EPA Method 6010B	Determination of Alkaline Metals by iCap 6500 Duo ICP-OES		
TM227	Standard methods for the examination of waters and wastewaters 20th Edition, AWWA/APHA Method 4500.	Determination of Total Cyanide, Free (Easily Liberatable) Cyanide and Thiocyanate		
TM228	US EPA Method 6010B	Determination of Major Cations in Water by iCap 6500 Duo ICP-OES		
TM230	Methods 2320B and 4500-CO2 D, AWWA/APHA 19th Edition, 1995.	Determination of Alkalinity in Aqueous Sludge and Soil extracts		
TM231	Agilent 6890 Gas Chromatograph system using an Agilent 5973 Mass Selective Detector (MSD)	Determination of Organochlorine and Organophosphorus Pesticides and Triazine Herbicides by GCMS		
TM234	The measurement of Electrical Conductivity and the Laboratory Determination of the pH value of Natural, Treated and Waste Waters, HMSO, 1978. ISBN 011 751428 4.	Determination of Electrical Conductivity of Soils Extracted with Calcium Sulphate		
TM243				
TM256	The measurement of Electrical Conductivity and the Laboratory determination of pH Value of Natural, Treated and Wastewaters, HMSO, 1978. ISBN 011 751428 4.	Determination of pH in Water and Leachate using the GLpH pH Meter		
TM259		Determination of Phenols in Waters and Leachates by HPLC		

† Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.

Notification of Non-Conforming Work

<b>SDG Number</b>	101015-65	<b>Location</b>	Mullagh Dump
<b>Client</b>	D_TENV_BT B	<b>Order No.</b>	
<b>Client Reference</b>	10/198TE	<b>Report No.</b>	101948
<b>Attention</b>	Nevin Traynor	<b>Date Received</b>	15/10/2010 12:31:32

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
2246257	T21		LIQUID	Acid Herbicides (W)	2-(2,4,5-Trichlorophenoxy) propionic acid	Low surrogate
2246257	T21		LIQUID	Acid Herbicides (W)	2,4,5-Trichlorophenol (2,4,5-T)	Low surrogate
2246257	T21		LIQUID	Acid Herbicides (W)	2,4-D 13C6 % Recovery**	Low surrogate
2246257	T21		LIQUID	Acid Herbicides (W)	2,4-D 13C6 Raw	Low surrogate
2246257	T21		LIQUID	Acid Herbicides (W)	2,4-Dichlorophenoxy acetic acid (2,4-D)	Low surrogate
2246257	T21		LIQUID	Acid Herbicides (W)	2,4-Dichlorophenoxy acetic acid (2,4-DP)	Low surrogate
2246257	T21		LIQUID	Acid Herbicides (W)	2-methyl-4,6-Dinitrophenol	Low surrogate
2246257	T21		LIQUID	Acid Herbicides (W)	2-methyl-4-Chlorophenoxyacetic acid (MCPA)	Low surrogate
2246257	T21		LIQUID	Acid Herbicides (W)	4-(2,4-Dichlorophenoxy) butyric acid (2,4-D)	Low surrogate
2246257	T21		LIQUID	Acid Herbicides (W)	4-(4-Chloro-o-tolyloxy) butyric acid (MCPB)	Low surrogate
2246257	T21		LIQUID	Acid Herbicides (W)	4-Chlorophenoxyacetic acid (4-CPA)	Low surrogate
2246257	T21		LIQUID	Acid Herbicides (W)	4-Phenoxybutyric acid	Low surrogate
16257	T21		LIQUID	Acid Herbicides (W)	Bentazone	Low surrogate
2246257	T21		LIQUID	Acid Herbicides (W)	Bromoxynil	Low surrogate
2246257	T21		LIQUID	Acid Herbicides (W)	Dicamba	Low surrogate
2246257	T21		LIQUID	Acid Herbicides (W)	Dinoseb	Low surrogate
2246257	T21		LIQUID	Acid Herbicides (W)	DNOC D5 % Recovery**	Low surrogate
2246257	T21		LIQUID	Acid Herbicides (W)	DNOC D5 Raw	Low surrogate
2246257	T21		LIQUID	Acid Herbicides (W)	Ioxynil	Low surrogate
2246257	T21		LIQUID	Acid Herbicides (W)	Mecoprop (MCP P)	Low surrogate
2246257	T21		LIQUID	Acid Herbicides (W)	Multiplier	Low surrogate
2246257	T21		LIQUID	Acid Herbicides (W)	Pentachlorophenol	Low surrogate
2246257	T21		LIQUID	Acid Herbicides (W)	Phenoxyacetic acid (PAA)	Low surrogate
2246257	T21		LIQUID	Acid Herbicides (W)	Phenoxypropionic acid (PPA)	Low surrogate
2246257	T21		LIQUID	Acid Herbicides (W)	Triclopyr	Low surrogate
2246257	T21		LIQUID	Acid Herbicides (W)	Volume	Low surrogate
2246257	T21		LIQUID	Acid Herbicides (W)	2-(2,4,5-Trichlorophenoxy) propionic acid	Low surrogate
2246257	T21		LIQUID	Acid Herbicides (W)	2,4,5-Trichlorophenol (2,4,5-T)	Low surrogate
2246257	T21		LIQUID	Acid Herbicides (W)	2,4-D 13C6 % Recovery**	Low surrogate
2246257	T21		LIQUID	Acid Herbicides (W)	2,4-D 13C6 Raw	Low surrogate
2246257	T21		LIQUID	Acid Herbicides (W)	2,4-Dichlorophenoxy acetic acid (2,4-D)	Low surrogate
2246257	T21		LIQUID	Acid Herbicides (W)	2,4-Dichlorophenoxy acetic acid (2,4-DP)	Low surrogate
2246257	T21		LIQUID	Acid Herbicides (W)	2-methyl-4,6-Dinitrophenol	Low surrogate
2246257	T21		LIQUID	Acid Herbicides (W)	2-methyl-4-Chlorophenoxyacetic acid (MCPA)	Low surrogate
2246257	T21		LIQUID	Acid Herbicides (W)	4-(2,4-Dichlorophenoxy) butyric acid (2,4-D)	Low surrogate
2246257	T21		LIQUID	Acid Herbicides (W)	4-(4-Chloro-o-tolyloxy) butyric acid (MCPB)	Low surrogate
2246257	T21		LIQUID	Acid Herbicides (W)	4-Chlorophenoxyacetic acid (4-CPA)	Low surrogate
2246257	T21		LIQUID	Acid Herbicides (W)	4-Phenoxybutyric acid	Low surrogate
2246257	T21		LIQUID	Acid Herbicides (W)	Bentazone	Low surrogate
2246257	T21		LIQUID	Acid Herbicides (W)	Bromoxynil	Low surrogate
2246257	T21		LIQUID	Acid Herbicides (W)	Dicamba	Low surrogate
2246257	T21		LIQUID	Acid Herbicides (W)	Dinoseb	Low surrogate
2246257	T21		LIQUID	Acid Herbicides (W)	DNOC D5 % Recovery**	Low surrogate
2246257	T21		LIQUID	Acid Herbicides (W)	DNOC D5 Raw	Low surrogate
2246257	T21		LIQUID	Acid Herbicides (W)	Ioxynil	Low surrogate
2246257	T21		LIQUID	Acid Herbicides (W)	Mecoprop (MCP P)	Low surrogate
2246257	T21		LIQUID	Acid Herbicides (W)	Multiplier	Low surrogate
2246257	T21		LIQUID	Acid Herbicides (W)	Pentachlorophenol	Low surrogate
2246257	T21		LIQUID	Acid Herbicides (W)	Phenoxyacetic acid (PAA)	Low surrogate
2246257	T21		LIQUID	Acid Herbicides (W)	Phenoxypropionic acid (PPA)	Low surrogate
2246257	T21		LIQUID	Acid Herbicides (W)	Triclopyr	Low surrogate
2246257	T21		LIQUID	Acid Herbicides (W)	Volume	Low surrogate

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**Extractable Petroleum Hydrocarbons (EPH) By GC-FID  
EPH (DRO) (C10-C40)**

<b>SDG Number</b>	101015-65	<b>Client</b>	D_TENV_BTB		
<b>Matrix (Units)</b>	mg/kg	<b>Client Ref</b>	10/198TE		
Sample No	Customer Sample Ref.	Depth	Matrix	EPH	Interpretation
2253850	T11		SOLID	2050	Unknown Peaks at C12-C14/Possible Bitumen/Tar
2253380	T13		SOLID	2820	Possible Bitumen/Tar
2253355	T18		SOLID	2610	PAHS/Carboxylic Acids
2253883	T21		SOLID	162	Humic Acids

Extractable Petroleum Hydrocarbons (formally Diesel Range Organics) :- Any compound extractable in n-hexane within the carbon range C10-C40, includes Aliphatic (Min Oil), Aromatic (PAHs) and naturally occurring compounds.

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## Analytical Report

ALcontrol Hawarden  
 Unit7-8, Hawarden Business Park  
 Manor Road (off Manor Lane)  
 Hawarden, Deeside  
 Flintshire, CH5 3US

Report No: 10-19804/1  
 Date Received: 19/10/2010  
 Date Tested: 26/10/2010 to 01/11/2010  
 Date Issued: 01/11/2010  
 Page: 1 of 4

For the attention of: Alcontrol Chester (Schedulers) By email

12 water samples received from ALcontrol Hawarden (O/N: 156577; Project: 101015-65) in 1 litre green glass bottles were analysed as shown below. Analytical methods employed are available on request.

Laboratory reference			177917 2245709	177918 2245949	177919 2246107
atrazine	[1912-24-9]	ug/l	< 0.02	< 0.02	< 0.02
prometryn	[7287-19-6]	ug/l	< 0.02	< 0.02	< 0.02
propazine	[139-40-2]	ug/l	< 0.02	< 0.02	< 0.02
simazine	[122-34-9]	ug/l	< 0.02	< 0.02	< 0.02
terbutylazine	[5915-41-3]	ug/l	< 0.02	< 0.02	< 0.02
terbutryn	[886-50-0]	ug/l	< 0.02	< 0.02	< 0.02
trietazine	[1912-26-1]	ug/l	< 0.02	< 0.02	< 0.02

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Report No: 10-19804/1  
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 Date Issued: 01/11/2010  
 Page: 2 of 4

Laboratory reference	177920 2246129	177921 2246193	177922 2246202
atrazine [1912-24-9] ug/l	< 0.02	< 0.02	< 0.02
prometryn [7287-19-6] ug/l	< 0.02	< 0.02	< 0.02
propazine [139-40-2] ug/l	< 0.02	< 0.02	< 0.02
simazine [122-34-9] ug/l	0.06	0.05	< 0.02
terbutylazine [5915-41-3] ug/l	< 0.02	< 0.02	< 0.02
terbutryn [886-50-0] ug/l	< 0.02	< 0.02	< 0.02
trietazine [1912-26-1] ug/l	< 0.02	< 0.02	< 0.02

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Report No: 10-19804/1  
 Date Received: 19/10/2010  
 Date Tested: 26/10/2010 to 01/11/2010  
 Date Issued: 01/11/2010  
 Page: 3 of 4

Laboratory reference	177923 2246219	177924 2246405	177925 2246535
atrazine [1912-24-9] ug/l	< 0.02	0.09	< 0.02
prometryn [7287-19-6] ug/l	< 0.02	< 0.02	< 0.02
propazine [139-40-2] ug/l	< 0.02	< 0.02	< 0.02
simazine [122-34-9] ug/l	< 0.02	0.20	< 0.02
terbutylazine [5915-41-3] ug/l	< 0.02	< 0.02	< 0.02
terbutryn [886-50-0] ug/l	< 0.02	< 0.02	< 0.02
trietazine [1912-26-1] ug/l	< 0.02	< 0.02	< 0.02

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Report No: 10-19804/1  
 Date Received: 19/10/2010  
 Date Tested: 26/10/2010 to 01/11/2010  
 Date Issued: 01/11/2010  
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Laboratory reference	177926 2246796	177927 2247397	177928 2248189
atrazine [1912-24-9] ug/l	< 0.02	< 0.02	< 0.02
prometryn [7287-19-6] ug/l	< 0.02	< 0.02	< 0.02
propazine [139-40-2] ug/l	< 0.02	< 0.02	< 0.02
simazine [122-34-9] ug/l	< 0.02	< 0.02	< 0.02
terbutylazine [5915-41-3] ug/l	< 0.02	< 0.02	< 0.02
terbutryn [886-50-0] ug/l	< 0.02	< 0.02	< 0.02
trietazine [1912-26-1] ug/l	< 0.02	< 0.02	< 0.02



**Robin T R Macdonald**  
 Operational Director

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## Analytical Report

ALcontrol Hawarden  
 Unit7-8, Hawarden Business Park  
 Manor Road (off Manor Lane)  
 Hawarden, Deeside  
 Flintshire, CH5 3US

Report No: 10-19805/1  
 Date Received: 19/10/2010  
 Date Tested: 25/10/2010 to / /  
 Date Issued: 31/10/2010  
 Page: 1 of 2

For the attention of: Alcontrol Chester (Schedulers) By email

12 water samples received from ALcontrol Hawarden (O/N: 156577; Project: 101015-65) in 500ml green glass bottles were analysed as shown below. Analytical methods employed are available on request.

Laboratory reference	Client reference	Other reference	dibutyltin ug/l as Sn 1002-53-5	tributyltin ug/l as Sn 56573-85-4	triphenyltin ug/l as Sn 668-34-8
177929	2245768	n/a	< 0.02	< 0.02	< 0.05
177930	2245968	n/a	< 0.02	< 0.02	< 0.05
177931	2246049	n/a	< 0.02	< 0.02	< 0.05
177932	2246073	n/a	< 0.02	< 0.02	< 0.05
177933	2246080	n/a	< 0.02	< 0.02	< 0.05
177934	2246169	n/a	< 0.02	< 0.02	< 0.05
177935	2246236	n/a	< 0.02	< 0.02	< 0.05
177936	2246292	n/a	< 0.02	< 0.02	< 0.05
177937	2246435	n/a	< 0.02	< 0.02	< 0.05
177938	2246567	n/a	< 0.02	< 0.02	< 0.05
177939	2246641	n/a	< 0.02	< 0.02	< 0.05
177940	2247285	n/a	< 0.02	< 0.02	< 0.05

Report No: 10-19805/1  
Date Received: 19/10/2010  
Date Tested: 25/10/2010 to / /  
Date Issued: 31/10/2010  
Page: 2 of 2

Laboratory reference	Client reference	Other reference	tetrabutyltin ug/l as Sn 1461-25-2
177929	2245768	n/a	< 0.02
177930	2245968	n/a	< 0.02
177931	2246049	n/a	< 0.02
177932	2246073	n/a	< 0.02
177933	2246080	n/a	< 0.02
177934	2246169	n/a	< 0.02
177935	2246236	n/a	< 0.02
177936	2246292	n/a	< 0.02
177937	2246435	n/a	< 0.02
177938	2246567	n/a	< 0.02
177939	2246641	n/a	< 0.02
177940	2247285	n/a	< 0.02



Neil Donovan  
Technical Manager

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## TIER 2

### ENVIRONMENTAL RISK ASSESSMENT

## APPENDIX D

# SITE INVESTIGATION (SI) GROUND WATER & SURFACE WATER RESULTS COMPARISON

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Groundwater Carbon – Groundwater Samples

Parameter	T3	T6	T8	T11	T13	T15	T18	T21	List I or List II	Drinking Water Standards (Units)	GSI Trigger Values	Overall Groundwater Threshold Value	Interim Guideline Value	Source of Interim GVs	Dutch Intervention Values Reference Value	Dutch Intervention Values Intervention Value
Carbon	17.6	55.6	22.8	107	17.8	19.3	19.1	35.7	n/a	No change	n/a	n/a	No change	n/a	n/a	n/a

Inorganics – Groundwater Samples

Parameter	T3	T6	T8	T11	T13	T15	T18	T21	List I or List II	Drinking Water Standards (Units)	GSI Trigger Values	Overall Groundwater Threshold Value	Interim Guideline Value	Source of Interim GVs	Dutch Intervention Values Reference Value	Dutch Intervention Values Intervention Value
Alkalinity, Total as CaCO <sub>3</sub>	500	394	488	597	445	296	242	109	n/a	n/a	n/a	n/a	No change	n/a	n/a	n/a
BOD, unfiltered	2.65	26.4	1.99	89.6	2.05	1.99	<1	1.31	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Ammoniacal Nitrogen as N	18.5	5.13	17.9	28	14.6	2.84	3.89	0.544	II	0.30mg/l	0.15mg/l	0.065-0.175 mg/l	0.15mg/l	I	n/a	n/a
Ammonia, Free / unionised as N	0.953	0.339	0.924	1.86	0.752	0.312	0.371	<0.2	II	0.30mg/l	0.15mg/l	n/a	0.15mg/l	I	n/a	n/a
Fluoride	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	II	1.0mg/l	n/a	n/a	1.0mg/l	A,J	n/a	n/a
Conductivity @ 20 deg.C	1.04	0.697	1.14	1.08	0.931	0.594	0.497	0.264	n/a	1.58 mS/cm	n/a	0.80 – 1.875 mS/cm	1.00 mS/cm	K	n/a	n/a
Dissolved solids, Total (meter)	847	576	925	875	765	483	401	211	n/a	1000mg/l	n/a	n/a	1000mg/l	D	n/a	n/a
Sulphate	<3	<3	28.7	16.1	<3	6.5	<3	41	n/a	250 mg/l	30 mg/l	187.5 mg/l	30 mg/l	I	n/a	n/a
Chloride	16.3	6.6	11.3	12.5	16.7	34.6	34.4	2.8	n/a	250 mg/l	30 mg/l	24 - 187.5 mg/l	30 mg/l	I	n/a	n/a
Phosphate (ortho) as PO <sub>4</sub>	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total Oxidised Nitrogen as N	0.551	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Cyanide, Total	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	I	0.05mg/l	n/a	0.0375 mg/l	0.01mg/l	J	5 mg/l	1.50 mg/l
pH	8.16	8.18	8.08	8.13	8.12	8.51	8.38	7.96	n/a	≥ 6.5 and ≤ 9.5	n/a	n/a	≥ 6.5 and ≤ 9.5	A	n/a	n/a

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Filtered (Dissolved) Metals Groundwater Samples mg/l

Parameter	T3	T6	T8	T11	T13	T15	T18	T21	List I or List II	Drinking Water Standards (Units)	GSI Trigger Values	Overall Groundwater Threshold Value	Interim Guideline Value	Source of Interim GVs	Dutch Intervention Values Reference Value	Dutch Intervention Values Intervention Value
Arsenic (diss.filt)	0.0012	0.0011	0.0013	0.0024	0.000806	0.000642	0.00057	0.00149	ii	0.01mg/l	n/a	0.0075mg/l	0.01mg/l	A	0.01 mg/l	0.06 mg/l
Boron (diss.filt)	0.247	0.0346	0.247	0.125	0.259	0.126	0.0914	0.0286	ii	1.0mg/l	n/a	0.75 mg/l	1.0mg/l	A	n/a	n/a
Cadmium (diss.filt)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001		0.005mg/l	n/a	0.00375 mg/l	0.005mg/l	A,K	0.0004 mg/l	0.006 mg/l
Copper (diss.filt)	0.00145	0.0018	0.000884	<0.00085	<0.00085	0.00146	<0.00085	0.0257		2.0mg/l	n/a	1.50 mg/l	0.03mg/l	J	0.015 mg/l	0.075 mg/l
Lead (diss.filt)	0.000037	<0.00002	<0.00002	0.000349	<0.00002	0.000214	0.000076	0.000308	ii	0.01mg/l	n/a	0.0188 mg/l	0.01mg/l	A,J	0.015 mg/l	0.075 mg/l
Manganese (diss.filt)	0.611	1.030	1.470	2.800	0.839	0.658	0.912	2.020		0.05mg/l	n/a	n/a	0.05mg/l	A	n/a	n/a
Nickel (diss.filt)	0.00838	0.00461	0.0107	0.0102	0.0170	0.00461	0.00384	0.00422	ii	0.02mg/l	n/a	0.015 mg/l	0.02mg/l	A	0.015 mg/l	0.075 mg/l
Zinc (diss.filt)	0.00974	0.00312	0.0163	0.0158	0.00528	0.0292	0.00937	0.00142		5.0mg/l	n/a	n/a	0.1mg/l	A	0.065 mg/l	0.80 mg/l
Mercury (diss.filt)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.000014	I	0.001mg/l	n/a	0.00075	0.001	A,K	0.00005 mg/l	0.0003 mg/l
Calcium (diss.filt)	0.163	0.138	0.217	0.139	0.166	0.108	0.0811	0.0325		200mg/l	n/a	n/a	200mg/l	A	n/a	n/a
Sodium (diss.filt)	0.0322	0.013	0.0184	0.0411	0.0144	0.0165	0.0181	0.00813		150mg/l	n/a	n/a	150mg/l	B	n/a	n/a
Magnesium (diss.filt)	0.0205	0.0109	0.0191	0.025	0.0162	0.00826	0.0074	0.0126		50mg/l	n/a	n/a	50mg/l	B	n/a	n/a
Potassium (diss.filt)	0.0257	0.0094	0.0239	0.0289	0.0188	0.00645	0.00463	<0.00234		12mg/l	5mg/l	n/a	5mg/l	I	n/a	n/a
Iron (diss.filt)	<0.000019	<0.000019	<0.000019	0.00515	<0.000019	0.000387	0.00148	0.000166		2.0mg/l	n/a	n/a	0.2mg/l	A	n/a	n/a

Unfiltered (Total) Metals Groundwater Samples mg/l

Parameter	T3	T6	T8	T11	T13	T15	T18	T21	List I or List II	Drinking Water Standards (Units)	GSI Trigger Values	Overall Groundwater Threshold Value	Interim Guideline Value	Source of Interim GVs	Dutch Intervention Values Reference Value	Dutch Intervention Values Intervention Value
Chromium (tot.unfilt)	0.00339	0.00348	0.00546	0.0269	<0.003	0.00459	0.0041	0.00131	n/a	0.05mg/l	n/a	0.0375 mg/l	0.03mg/l	J	0.001 mg/l	0.03 mg/l

Phenols mg/l

Parameter	T3	T6	T8	T11	T13	T15	T18	T21	List I or List II	Drinking Water Standards (Units)	GSI Trigger Values	Overall Groundwater Threshold Value	Interim Guideline Value	Source of Interim GVs	Dutch Intervention Values Reference Value	Dutch Intervention Values Intervention Value
Phenol	<0.002	<0.002	<0.002	0.05	<0.002	<0.002	<0.002	<0.002	II	0.0005 mg/l	n/a	n/a	0.0005 mg/l	B,K	0.0002 mg/l	2.0 mg/l
Cresols	<0.006	<0.006	<0.006	0.01	<0.006	<0.006	<0.006	<0.006	n/a	n/a	n/a	n/a	n/a	n/a	0.0002 mg/l	0.20 mg/l
Xylenols	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2,3,5-Trimethylphenol	<0.003	<0.003	<0.003	0.01	<0.003	<0.003	<0.003	<0.003	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2-Isopropylphenol	<0.006	<0.006	<0.006	0.2	<0.006	<0.006	<0.006	<0.006	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Phenols, Total 5 speciated	<0.025	<0.025	<0.025	0.27	<0.025	<0.025	<0.025	<0.025	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a



Mineral Oil / Oils & Greases Groundwater Samples mg/l

Parameter	T3	T6	T8	T11	T13	T15	T18	T21	List I or List II	Drinking Water Standards (Units)	GSI Trigger Values	Overall Groundwater Threshold Value	Interim Guideline Value	Source of Interim GVs	Dutch Intervention Values Reference Value	Dutch Intervention Values Intervention Value
Mineral oil >C10 C40 (aq)	0.523	1.740	0.0953	3.600	0.795	<0.01	0.800	<0.01	1	0.01mg/l	n/a	n/a	0.01mg/l	B,K	0.05 mg/l	0.06 mg/l

Extractable Petroleum Hydrocarbons (EPH) Groundwater Samples mg/l

Parameter	T3	T6	T8	T11	T13	T15	T18	T21	List I or List II	Drinking Water Standards (Units)	GSI Trigger Values	Overall Groundwater Threshold Value	Interim Guideline Value	Source of Interim GVs	Dutch Intervention Values Reference Value	Dutch Intervention Values Intervention Value
EPH Range >C10 - C40 (aq)	1.390	2.490	0.241	2.800	1.460	0.303	1.350	<0.046	n/a	n/a	n/a	n/a	n/a	n/a	0.0002 mg/l	2.0 mg/l

Polyaromatic Hydrocarbons (PAHs) Groundwater Samples mg/l

Parameter	T3	T6	T8	T11	T13	T15	T18	T21	List I or List II	Drinking Water Standards (Units)	GSI Trigger Values	Overall Groundwater Threshold Value	Interim Guideline Value	Source of Interim GVs	Dutch Intervention Values Reference Value	Dutch Intervention Values Intervention Value
Naphthalene (aq)	<0.0001	0.000176	<0.0001	0.000364	<0.0001	<0.0001	0.000119	0.000109	II	0.01mg/l	n/a	n/a	0.001mg/l	E	0.00001 mg/l	0.07 mg/l
Acenaphthene (aq)	0.000056	0.000039	0.000024	0.000631	0.000088	<0.000015	<0.000015	<0.000015	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Acenaphthylene (aq)	<0.000011	0.000025	<0.000011	0.000026	<0.000011	<0.000011	<0.000011	<0.000011	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Fluoranthene (aq)	0.000021	0.000087	0.000173	0.00128	0.000044	0.000041	<0.000014	<0.000014	n/a	n/a	n/a	n/a	n/a	n/a	0.000007 mg/l	0.0001 mg/l
Anthracene (aq)	<0.000015	0.000023	<0.000015	0.000228	<0.000015	<0.000015	<0.000015	<0.000015	II	10 mg/l	n/a	n/a	10 mg/l	E	0.0000007 mg/l	0.00005 mg/l
Phenanthrene (aq)	0.000032	0.000121	0.000029	0.000976	0.000026	<0.000022	<0.000022	<0.000022	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Fluorene (aq)	0.000039	0.000199	0.000015	0.000905	0.000061	<0.000014	<0.000014	<0.000014	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Chrysene (aq)	<0.000013	0.000061	0.000092	0.000092	<0.000013	0.000025	<0.000013	<0.000013	n/a	n/a	n/a	n/a	n/a	n/a	0.000003 mg/l	0.0002 mg/l
Pyrene (aq)	0.00003	0.000106	0.000213	0.00126	0.000056	0.000051	0.00008	<0.000015	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Benzo(a)anthracene (aq)	0.00002	0.000069	0.000138	0.000594	0.000028	0.000038	0.000036	<0.000017	n/a	n/a	n/a	n/a	n/a	n/a	0.0000001 mg/l	0.0005 mg/l
Benzo(b)fluoranthene (aq)	<0.000023	0.000048	0.00015	0.000544	<0.000023	<0.000023	<0.000023	<0.000023	II	0.0005mg/l	n/a	n/a	0.0005mg/l	E	0.0000004 mg/l	0.00005 mg/l
Benzo(k)fluoranthene (aq)	<0.000027	0.000117	0.00016	0.000809	<0.000027	<0.000027	<0.000027	<0.000027	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Benzo(a)pyrene (aq)	0.000011	0.000113	0.000186	0.00102	0.000023	0.000027	0.000012	<0.000009	II	0.00001mg/l	n/a	n/a	0.00001mg/l	E	0.0000005 mg/l	0.00005 mg/l
Dibenzo(a,h)anthracene (aq)	<0.000016	<0.000016	0.000037	0.000263	<0.000016	<0.000016	<0.000016	<0.000016	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Benzo(g,h,i)perylene (aq)	<0.000016	0.000053	0.000134	0.000968	0.000018	0.000027	0.000026	<0.000016	II	0.00005mg/l	n/a	n/a	0.00005mg/l	E	0.0000003 mg/l	0.00005 mg/l
Indeno(1,2,3-cd)pyrene (aq)	<0.000014	0.000057	0.000127	0.000817	0.000015	0.00002	0.000022	<0.000014	II	0.00005mg/l	n/a	n/a	0.00005mg/l	E	0.0000004 mg/l	0.00005 mg/l
Polyaromatic hydrocarbons, Total USEPA 16 (aq)	0.000208	0.00129	0.00148	0.0156	0.000256	0.000243	0.000293	0.000109	II	0.0001mg/l	n/a	0.000075 mg/l	0.0001mg/l	E	n/a	n/a

Semi-Volatile Organic Compounds (SVOCs) Groundwater Samples mg/l

Parameter	T3	T6	T8	T11	T13	T15	T18	T21	List I or List II	Drinking Water Standards (Units)	GSI Trigger Values	Overall Groundwater Threshold Value	Interim Guideline Value	Source of Interim GV's	Dutch Intervention Values Reference Value	Dutch Intervention Values Intervention Value
1,2,4-Trichlorobenzene (aq)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	I	0.020 mg/l	n/a	n/a	0.0004 mg/l	K	n/a	n/a
1,2-Dichlorobenzene (aq)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	I	1mg/l	n/a	n/a	0.01 mg/l	K	n/a	n/a
1,3-Dichlorobenzene (aq)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	I	1mg/l	n/a	n/a	0.01 mg/l	K	n/a	n/a
1,4-Dichlorobenzene (aq)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	I	1mg/l	n/a	n/a	0.01 mg/l	K	n/a	n/a
2,4,5-Trichlorophenol (aq)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	I	0.020 mg/l	n/a	n/a	0.0004 mg/l	K	n/a	n/a
2,4,6-Trichlorophenol (aq)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2,4-Dichlorophenol (aq)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2,4-Dimethylphenol (aq)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2,4-Dinitrotoluene (aq)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2,6-Dinitrotoluene (aq)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2-Chloronaphthalene (aq)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2-Chlorophenol (aq)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	I	0.2mg/l	n/a	n/a	0.2 mg/l	E	n/a	n/a
2-Methylnaphthalene (aq)	<0.001	<0.001	<0.001	0.00131	<0.001	<0.001	<0.001	<0.001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2-Methylphenol (aq)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2-Nitroaniline (aq)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2-Nitrophenol (aq)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
3-Nitroaniline (aq)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
4-Bromophenylphenylether (aq)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
4-Chloro-3-methylphenol (aq)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
4-Chloroaniline (aq)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
4-Chlorophenylphenylether (aq)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
4-Methylphenol (aq)	<0.001	<0.001	<0.001	0.00236	<0.001	<0.001	<0.001	<0.001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
4-Nitrophenol (aq)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
4-Nitroaniline (aq)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Azobenzene (aq)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Acenaphthylene (aq)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Acenaphthene (aq)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Anthracene (aq)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
bis(2-Chloroethyl)ether (aq)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
bis(2-Chloroethoxy)methane (aq)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

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Parameter	T3	T6	T8	T11	T13	T15	T18	T21	List I or List II	Drinking Water Standards (Units)	GSI Trigger Values	Overall Groundwater Threshold Value	Interim Guideline Value	Source of Interim GV's	Dutch Intervention Values Reference Value	Dutch Intervention Values Intervention Value
bis(2-Ethylhexyl) phthalate (aq)	<0.002	<0.002	<0.002	<0.002	<0.003	<0.002	<0.005	<0.002	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Benzo(a)anthracene (aq)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	n/a	n/a	n/a	n/a	n/a	n/a	0.0000001mg/l	0.0005 mg/l
Butylbenzyl phthalate (aq)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Benzo(b)fluoranthene (aq)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Benzo(k)fluoranthene (aq)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	n/a	n/a	n/a	n/a	n/a	n/a	0.0000004 mg/l	0.00005 mg/l
Benzo(a)pyrene (aq)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	n/a	n/a	n/a	0.000075 mg/l	n/a	n/a	0.0000005mg/l	0.00005 mg/l
Benzo(g,h,i)perylene (aq)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	n/a	n/a	n/a	n/a	n/a	n/a	0.0000003 mg/l	0.00005 mg/l
Carbazole (aq)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Chrysene (aq)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	n/a	n/a	n/a	n/a	n/a	n/a	0.000003 mg/l	0.0002 mg/l
Dibenzofuran (aq)	<0.001	<0.001	<0.001	0.00116	<0.001	<0.001	<0.001	<0.001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n-Dibutyl phthalate (aq)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Diethyl phthalate (aq)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Dibenzo(a,h)anthracene (aq)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Dimethyl phthalate (aq)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n-Dioctyl phthalate (aq)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Fluoranthene (aq)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Fluorene (aq)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Hexachlorobenzene (aq)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	l	0.001mg/l	n/a	n/a	0.00003 mg/l	K	n/a	n/a
Hexachlorobutadiene (aq)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	l	0.006mg/l	n/a	n/a	0.01 mg/l	K	n/a	n/a
Pentachlorophenol (aq)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	l	0.009mg/l	n/a	n/a	0.002 mg/l	K	n/a	n/a
Phenol (aq)	<0.001	<0.001	<0.001	0.0527	<0.001	<0.001	<0.001	<0.001	l	0.0005mg/l	n/a	n/a	0.0005 mg/l	B,K	0.0002 mg/l	2.0 mg/l
n-Nitroso-n-dipropylamine (aq)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Hexachloroethane (aq)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Nitrobenzene (aq)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Naphthalene (aq)	<0.001	<0.001	<0.001	0.00335	<0.001	<0.001	<0.001	<0.001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Isophorone (aq)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Hexachlorocyclopentadiene (aq)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Phenanthrene (aq)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Indeno(1,2,3-cd)pyrene (aq)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Pyrene (aq)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a



Volatile Organic Compounds (VOCs) Groundwater Samples

Parameter	T3	T6	T8	T11	T13	T15	T18	T21	List I or List II	Drinking Water Standards (Units)	GSI Trigger Values	Overall Groundwater Threshold Value	Interim Guideline Value	Source of Interim GVs	Dutch Intervention Values Reference Value	Dutch Intervention Values Intervention Value
Dibromofluoromethane**	114	106	102	103	102	101	102	102	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Toluene-d8**	99.5	100	99.1	98.4	98.8	98.3	99.4	99.9	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
4-Bromofluorobenzene**	102	103	99	97.8	98.8	97.6	98.9	99.7	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Dichlorodifluoromethane	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Chloromethane	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Vinyl chloride	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	n/a	n/a	n/a	0.000375 mg/l	n/a	n/a	n/a	n/a
Bromomethane	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Chloroethane	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Trichlorofluoromethane	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1,1-Dichloroethene	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Carbon disulphide	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Dichloromethane	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	n/a	n/a	n/a	n/a	n/a	n/a	0.00001 mg/l	1.00 mg/l
Methyl tertiary butyl ether (MTBE)	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
trans-1,2-Dichloroethene	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1,1-Dichloroethane	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	n/a	n/a	n/a	n/a	n/a	n/a	0.007 mg/l	0.9 mg/l
cis-1,2-Dichloroethene	<0.0023	<0.0023	<0.0023	<0.0023	<0.0023	<0.0023	<0.0023	<0.0023	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2,2-Dichloropropane	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Bromochloromethane	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Chloroform	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	n/a	n/a	n/a	n/a	n/a	n/a	0.006 mg/l	0.4 mg/l
1,1,1-Trichloroethane	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	n/a	n/a	n/a	n/a	n/a	n/a	0.00001 mg/l	0.3 mg/l
1,1-Dichloropropene	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Carbontetrachloride	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1,2-Dichloroethane	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	n/a	n/a	n/a	0.00225 mg/l	n/a	n/a	0.007 mg/l	0.4 mg/l
Benzene	0.00175	0.0142	<0.0013	0.00987	<0.0013	<0.0013	<0.0013	<0.0013	n/a	n/a	n/a	0.0075 mg/l	n/a	n/a	n/a	n/a
Trichloroethene	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	n/a	n/a	n/a	n/a	n/a	n/a	0.006 mg/l	0.5 mg/l
1,2-Dichloropropane	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Dibromomethane	<0.0027	<0.0027	<0.0027	<0.0027	<0.0027	<0.0027	<0.0027	<0.0027	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Bromodichloromethane	<0.0009	<0.0009	<0.0009	<0.0009	<0.0009	<0.0009	<0.0009	<0.0009	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
cis-1,3-Dichloropropene	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Parameter	T3	T6	T8	T11	T13	T15	T18	T21	List I or List II	Drinking Water Standards (Units)	GSI Trigger Values	Overall Groundwater Threshold Value	Interim Guideline Value	Source of Interim GV's	Dutch Intervention Values Reference Value	Dutch Intervention Values Intervention Value
Toluene	<0.0014	<0.0014	<0.0014	0.00303	<0.0014	<0.0014	<0.0014	<0.0014	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
trans-1,3-Dichloropropene	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1,1,2-Trichloroethane	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	n/a	n/a	n/a	n/a	n/a	n/a	0.00001	0.13
1,3-Dichloropropane	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Tetrachloroethene	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Dibromochloromethane	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1,2-Dibromoethane	<0.0023	<0.0023	<0.0023	<0.0023	<0.0023	<0.0023	<0.0023	<0.0023	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Chlorobenzene	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1,1,1,2-Tetrachloroethane	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
m,p-Xylene	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
o-Xylene	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Styrene	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Bromoform	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Isopropylbenzene	0.00150	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1,1,2,2-Tetrachloroethane	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1,2,3-Trichloropropane	<0.0078	<0.0078	<0.0078	<0.0078	<0.0078	<0.0078	<0.0078	<0.0078	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Bromobenzene	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Propylbenzene	<0.0026	<0.0026	<0.0026	<0.0026	<0.0026	<0.0026	<0.0026	<0.0026	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2-Chlorotoluene	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1,3,5-Trimethylbenzene	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
4-Chlorotoluene	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
tert-Butylbenzene	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1,2,4-Trimethylbenzene	<0.0017	<0.0017	<0.0017	0.00272	0.00230	<0.0017	<0.0017	<0.0017	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
sec-Butylbenzene	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
4-iso-Propyltoluene	<0.0026	<0.0026	<0.0026	<0.0026	<0.0026	<0.0026	<0.0026	<0.0026	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1,3-Dichlorobenzene	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1,4-Dichlorobenzene	<0.0027	<0.0027	<0.0027	<0.0027	<0.0027	<0.0027	<0.0027	<0.0027	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n-Butylbenzene	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1,2-Dichlorobenzene	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1,2-Dibromo-3-chloropropane	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a



Parameter	T3	T6	T8	T11	T13	T15	T18	T21	List I or List II	Drinking Water Standards (Units)	GSI Trigger Values	Overall Groundwater Threshold Value	Interim Guideline Value	Source of Interim GVs	Dutch Intervention Values Reference Value	Dutch Intervention Values Intervention Value
1,2,4-Trichlorobenzene	<0.0023	<0.0023	<0.0023	<0.0023	<0.0023	<0.0023	<0.0023	<0.0023	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Hexachlorobutadiene	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
tert-Amyl methyl ether (TAME)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Naphthalene	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1,2,3-Trichlorobenzene	<0.0031	<0.0031	<0.0031	<0.0031	<0.0031	<0.0031	<0.0031	<0.0031	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1,3,5-Trichlorobenzene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

### Phenoxy Acid Herbicides Groundwater Samples

Parameter	T3	T6	T8	T11	T13	T15	T18	T21	List I or List II	Drinking Water Standards (Units)	GSI Trigger Values	Overall Groundwater Threshold Value	Interim Guideline Value	Source of Interim GVs	Dutch Intervention Values Reference Value	Dutch Intervention Values Intervention Value
Phenoxyacetic acid (PAA)	<0.000031	0.000033	<0.000031	0.000176	<0.000031	<0.000031	<0.000031	<0.000031	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Dicamba	<0.00033	<0.00033	<0.00033	<0.00033	<0.00033	<0.00033	<0.00033	<0.00033	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Phenoxypropionic acid (PPA)	<0.000023	<0.000023	<0.000023	<0.000023	<0.000023	<0.000023	<0.000023	<0.000023	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
4-Chlorophenoxyacetic acid (4-CPA)	<0.000037	<0.000037	<0.000037	<0.000037	<0.000037	<0.000037	<0.000037	<0.000037	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
4-Phenoxybutyric acid	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Bentazone	0.000018	0.000018	0.000018	0.000018	0.000018	0.000018	0.000018	0.000018	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Bromoxynil	<0.000022	<0.000022	<0.000022	<0.000022	<0.000022	<0.000022	<0.000022	<0.000022	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2,4-Dichlorophenoxy acetic acid (2,4-D)	<0.000026	<0.000026	<0.000026	<0.000026	<0.000026	<0.000026	<0.000026	<0.000026	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2-methyl-4-Chlorophenoxyacetic acid (MCPA)	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2-methyl-4,6-Dinitrophenol	<0.000041	<0.000041	<0.000041	<0.000041	<0.000041	<0.000041	<0.000041	<0.000041	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Triclopyr	<0.000022	<0.000022	<0.000022	<0.000022	<0.000022	<0.000022	<0.000022	<0.000022	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
loxylin	<0.000017	<0.000017	<0.000017	<0.000017	<0.000017	<0.000017	<0.000017	<0.000017	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2,4-Dichlorophenoxy acetic acid (2,4-DP)	0.000045	0.000046	0.000016	0.00025	0.000017	<0.000015	<0.000015	<0.000015	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2,4,5-Trichlorophenol (2,4,5-T)	<0.000029	<0.000029	<0.000029	<0.000029	<0.000029	<0.000029	<0.000029	<0.000029	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Mecoprop (MCP)	0.00206	0.00103	0.00106	0.0018	0.00626	0.000224	0.000029	<0.000025	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
4-(2,4-Dichlorophenoxy) butyric acid (2,4-D)	<0.000022	<0.000022	<0.000022	<0.000022	<0.000022	<0.000022	<0.000022	<0.000022	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
4-(4-Chloro-o-tolyloxy) butyric acid (MCPB)	<0.000029	<0.000029	<0.000029	<0.000029	<0.000029	<0.000029	<0.000029	<0.000029	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2-(2,4,5-Trichlorophenoxy) propionic acid	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Dinoseb	<0.000027	<0.000027	<0.000027	<0.000027	<0.000027	<0.000027	<0.000027	<0.000027	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Pentachlorophenol	<0.000032	<0.000032	<0.000032	<0.000032	<0.000032	<0.000032	<0.000032	<0.000032	n/a	n/a	n/a	n/a	n/a	n/a	0.00004 mg/l	0.003 mg/l

Combined Pesticides / Herbicides Groundwater Samples

Parameter	T3	T6	T8	T11	T13	T15	T18	T21	List I or List II	Drinking Water Standards (Units)	GSI Trigger Values	Overall Groundwater Threshold Value	Interim Guideline Value	Source of Interim GV's	Dutch Intervention Values Reference Value	Dutch Intervention Values Intervention Value
Atrazine	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	I	0.002mg/l	n/a	0.000075 mg/l	0.01mg/l	J,K	n/a	n/a
Simazine	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	I	0.02mg/l	n/a	0.000075 mg/l	0.01mg/l	J,K	n/a	n/a
Dichlorvos	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	I	0.001mg/l	n/a	0.000075 mg/l	0.000001 mg/l	K	n/a	n/a
Mevinphos	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Technazene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Hexachlorobenzene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Trifluralin	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
alpha-Hexachlorocyclohexane (HCH / Lindane)	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Quintozene (PCNB)	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Diazinon	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Triallate	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Erimphos	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
gamma-Hexachlorocyclohexane (HCH / Lindane)	0.000293	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Disulfoton	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Propetamphos	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Heptachlor	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Chlorpyrifos methyl	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Dimethoate	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Aldrin	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	I	0.00003 mg/l	n/a	n/a	0.00001 mg/l	K	n/a	n/a
Chlorothalonil	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Phiniphos-methyl	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
beta-Hexachlorocyclohexane (HCH / Lindane)	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Chlorpyrifos	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	I	0.09mg/l	n/a	n/a	0.09mg/l	E	n/a	n/a
Teiodrin	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Methyl parathion	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Isodrin	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.000025	<0.00001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Malathion	<0.00001	0.00009	<0.00001	0.000091	0.000058	<0.00001	<0.00001	0.000031	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Fenitron	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Fenitrothion	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Parameter	T3	T6	T8	T11	T13	T15	T18	T21	List I or List II	Drinking Water Standards (Units)	GSI Trigger Values	Overall Groundwater Threshold Value	Interim Guideline Value	Source of Interim GV's	Dutch Intervention Values Reference Value	Dutch Intervention Values Intervention Value
Heptachlor epoxide	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Triadimefon	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Pendimethalin	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Parathion	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
o,p-DDE	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Chlorfenvinphos	<0.00001	<0.00001	<0.00001	<0.00001	0.000033	<0.00001	<0.00001	<0.00001	I	0.005mg/l	n/a	n/a	0.005mg/l	G	n/a	n/a
Endosulphan	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	I	0.03mg/l		0.000001 mg/l	0.000001 mg/l	K	n/a	n/a
Trans-chlordane	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
cis-Chlordane	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
p,p-DDE	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Dieldrin	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	I	0.00003 mg/l	n/a	0.000075 mg/l	0.00001 mg/l	K	n/a	n/a
o,p-TDE (DDD)	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Endrin	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
o,p-DDT	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
p,p-TDE (DDD)	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.000011	<0.00001	<0.00001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Ethion	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Endosulphan II	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
p,p-DDT	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.000061	<0.00001	<0.00001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Carbophenothion	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
o,p-Methoxychlor	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Triazophos	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
p,p-Methoxychlor	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Endosulphan sulphate	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Permethrin	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	I	0.02 mg/l	n/a	n/a	0.02 mg/l	D	n/a	n/a
Phosalone	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Permethrin II	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Azinphos-methyl	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Azinphos-ethyl	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a



### Surface Water Monitoring Field Measurements

Surface Water Sampling Point	SW-1	SW-2	SW-3	SW-4
pH	7.60	6.42	7.04	8.04
Electrical Conductivity	0.223	0.193	0.275	0.39
Colour	Light brown	Clear	Dark Brown/Orange	Clear

### Organic Carbon (mg/l) Surface water Samples Results

Parameter	SW-1	SW-2	SW-3	SW-4	EQS for Surface Waters
Organic Carbon, Total	28.7	51.7	38.9	23	-

### Inorganics (mg/l) Surface water Samples Results

Parameter	SW-1	SW-2	SW-3	SW-4	EQS for Surface Waters
Alkalinity, Total as CaCO <sub>3</sub>	66	48.5	111	186	-
BOD, unfiltered	7.13	29.9	69.4	4.29	-
Ammonia, Free / unionised as N	<0.2	<0.2	<0.2	<0.2	0.02 NH <sub>3</sub>
Fluoride	<0.5	1.4	1.38	<0.5	5.0mg/l
Conductivity @ 20 deg.C	0.223	0.193	0.275	0.39	1.0 mS/cm
Dissolved solids, Total (meter)	180	155	205	313	-
Sulphate	19.2	<3	5.6	3.9	250 mg/l
Chloride	17	38.9	33.2	20.7	250 mg/l
Phosphate (ortho) as PO <sub>4</sub>	0.547	0.084	0.371	<0.05	-
Total Oxidised Nitrogen as N	3.46	<0.1	<0.1	2.46	-
Cyanide, Total	<0.05	<0.05	<0.05	<0.05	0.01mg/l
pH	7.6	6.42	7.04	8.04	6.5 and 9.5

**Filtered (Dissolved) Metals – (mg/l) Surface water Samples Results**

Parameter	SW-1	SW-2	SW-3	SW-4	EQS for Surface Waters
Arsenic (diss.filt)	0.00133	0.00144	0.00192	0.00084	0.025mg/l
Boron (diss.filt)	0.0191	0.0177	0.0273	0.0443	2.0mg/l
Cadmium (diss.filt)	<0.0001	<0.0001	<0.0001	<0.0001	0.005mg/l
Copper (diss.filt)	0.00458	0.00184	0.00172	0.00151	0.03mg/l
Lead (diss.filt)	0.000188	0.00181	0.00207	0.000081	0.01mg/l
Manganese (diss.filt)	0.0111	0.484	2.690	0.012	0.3mg/l
Nickel (diss.filt)	0.00392	0.00186	0.00326	0.00261	0.05mg/l
Zinc (diss.filt)	0.00268	0.00316	0.0034	0.000795	0.1mg/l
Mercury (diss.filt)	<0.00001	0.0000117	<0.00001	<0.00001	0.001mg/l
Calcium (diss.filt)	28.4	17.3	26	53.1	-
Sodium (diss.filt)	14.6	19.4	18	17.5	-
Magnesium (diss.filt)	4.55	4.27	5.37	12.3	-
Potassium (diss.filt)	7.09	2.52	5.07	6.58	-
Iron (diss.filt)	0.55	10.8	17.5	0.435	-

**Unfiltered (Total) Metals (mg/l) Surface water Samples Results**

Parameter	SW-1	SW-2	SW-3	SW-4	EQS for Surface Waters
Chromium (tot.unfilt)	0.0101	-	0.0327	0.00362	0.03mg/l

**Phenols (mg/l) Surface water Samples Results**

Parameter	SW-1	SW-2	SW-3	SW-4	EQS for Surface Waters
Phenol	<0.002	<0.002	<0.002	<0.002	-
Cresols	<0.006	0.01	<0.006	<0.006	-
Xylenols	<0.008	<0.008	<0.008	<0.008	-
2,3,5-Trimethylphenol	<0.003	<0.003	<0.003	<0.003	-
2-Isopropylphenol	<0.006	<0.006	<0.006	<0.006	-
Phenols, Total 5 speciated	<0.025	<0.025	<0.025	<0.025	-

**Mineral Oil / Oils & Greases (mg/l) Surface water Samples Results**

Parameter	SW-1	SW-2	SW-3	SW-4	EQS for Surface Waters
Mineral oil >C10 C40 (aq)	<0.010	<0.010	<0.010	<0.010	0.01mg/l

**Extractable Petroleum Hydrocarbons (EPH) (mg/l) Surface water Samples Results**

Parameter	SW-1	SW-2	SW-3	SW-4	EQS for Surface Waters
EPH Range >C10 - C40 (aq)	<0.046	<0.046	<0.046	<0.046	0.01mg/l

**Polyaromatic Hydrocarbons (PAHs) (mg/l) Surface water Samples Results**

Parameter	SW-1	SW-2	SW-3	SW-4	EQS for Surface Waters
Naphthalene (aq)	<0.0001	<0.0001	<0.0001	<0.0001	n/a
Acenaphthene (aq)	<0.000015	<0.000015	<0.000015	<0.000015	n/a
Acenaphthylene (aq)	<0.000011	<0.000011	<0.000011	<0.000011	n/a
Fluoranthene (aq)	<0.000015	<0.000014	<0.000014	<0.000014	n/a
Anthracene (aq)	<0.000015	<0.000015	<0.000015	<0.000015	n/a
Phenanthrene (aq)	<0.000022	<0.000022	<0.000022	<0.000022	n/a
Fluorene (aq)	<0.000014	<0.000014	<0.000014	<0.000014	n/a
Chrysene (aq)	0.0000144	<0.000013	<0.000013	<0.000013	n/a
Pyrene (aq)	0.0000177	<0.000015	<0.000015	<0.000015	n/a
Benzo(a)anthracene (aq)	0.0000263	<0.000017	<0.000017	<0.000017	n/a
Benzo(b)fluoranthene (aq)	<0.000023	<0.000023	<0.000023	<0.000023	n/a
Benzo(k)fluoranthene (aq)	<0.000027	<0.000027	<0.000027	<0.000027	n/a
Benzo(a)pyrene (aq)	0.0000152	<0.000009	<0.000009	<0.000009	n/a
Dibenzo(a,h)anthracene (aq)	<0.000016	<0.000016	<0.000016	<0.000016	n/a
Benzo(g,h,i)perylene (aq)	<0.000016	<0.000016	<0.000016	<0.000016	n/a
Indeno(1,2,3-cd)pyrene (aq)	<0.000014	<0.000014	<0.000014	<0.000014	n/a
Polyaromatic hydrocarbons, Total USEPA 16 (aq)	<0.0001	<0.0001	<0.0001	<0.0001	0.0002 mg/l



Semi-Volatile Organic Compounds (SVOCs) (mg/l) Surface water Samples Results

Parameter	SW-1	SW-2	SW-3	SW-4	EQS for Surface Waters
1,2,4-Trichlorobenzene (aq)	<0.001	<0.001	<0.001	<0.001	0.0004 mg/l
1,2-Dichlorobenzene (aq)	<0.001	<0.001	<0.001	<0.001	0.01 mg/l
1,3-Dichlorobenzene (aq)	<0.001	<0.001	<0.001	<0.001	0.01 mg/l
1,4-Dichlorobenzene (aq)	<0.001	<0.001	<0.001	<0.001	0.01 mg/l
2,4,5-Trichlorophenol (aq)	<0.001	<0.001	<0.001	<0.001	0.0004 mg/l
2,4,6-Trichlorophenol (aq)	<0.001	<0.001	<0.001	<0.001	n/a
2,4-Dichlorophenol (aq)	<0.001	<0.001	<0.001	<0.001	n/a
2,4-Dimethylphenol (aq)	<0.001	<0.001	<0.001	<0.001	n/a
2,4-Dinitrotoluene (aq)	<0.001	<0.001	<0.001	<0.001	n/a
2,6-Dinitrotoluene (aq)	<0.001	<0.001	<0.001	<0.001	n/a
2-Chloronaphthalene (aq)	<0.001	<0.001	<0.001	<0.001	n/a
2-Chlorophenol (aq)	<0.001	<0.001	<0.001	<0.001	n/a
2-Methylnaphthalene (aq)	<0.001	<0.001	<0.001	<0.001	n/a
2-Methylphenol (aq)	<0.001	<0.001	<0.001	<0.001	n/a
2-Nitroaniline (aq)	<0.001	<0.001	<0.001	<0.001	n/a
2-Nitrophenol (aq)	<0.001	<0.001	<0.001	<0.001	n/a
3-Nitroaniline (aq)	<0.001	<0.001	<0.001	<0.001	n/a
4-Bromophenylphenylether (aq)	<0.001	<0.001	<0.001	<0.001	n/a
4-Chloro-3-methylphenol (aq)	<0.001	<0.001	<0.001	<0.001	n/a
4-Chloroaniline (aq)	<0.001	<0.001	<0.001	<0.001	n/a
4-Chlorophenylphenylether (aq)	<0.001	<0.001	<0.001	<0.001	n/a
4-Methylphenol (aq)	<0.001	<0.001	<0.001	<0.001	n/a
4-Nitrophenol (aq)	<0.001	<0.001	<0.001	<0.001	n/a
4-Nitroaniline (aq)	<0.001	<0.001	<0.001	<0.001	n/a
Azobenzene (aq)	<0.001	<0.001	<0.001	<0.001	n/a
Acenaphthylene (aq)	<0.001	<0.001	<0.001	<0.001	n/a
Acenaphthene (aq)	<0.001	<0.001	<0.001	<0.001	n/a
Anthracene (aq)	<0.001	<0.001	<0.001	<0.001	n/a
bis(2-Chloroethyl)ether (aq)	<0.001	<0.001	<0.001	<0.001	n/a
bis(2-Chloroethoxy)methane (aq)	<0.001	<0.001	<0.001	<0.001	n/a



Parameter	SW-1	SW-2	SW-3	SW-4	EQS for Surface Waters
bis(2-Ethylhexyl) phthalate (aq)	<0.002	<0.002	<0.002	<0.002	n/a
Benzo(a)anthracene (aq)	<0.001	<0.001	<0.001	<0.001	n/a
Butylbenzyl phthalate (aq)	<0.001	<0.001	<0.001	<0.001	n/a
Benzo(b)fluoranthene (aq)	<0.001	<0.001	<0.001	<0.001	n/a
Benzo(k)fluoranthene (aq)	<0.001	<0.001	<0.001	<0.001	n/a
Benzo(a)pyrene (aq)	<0.001	<0.001	<0.001	<0.001	n/a
Benzo(g,h,i)perylene (aq)	<0.001	<0.001	<0.001	<0.001	n/a
Carbazole (aq)	<0.001	<0.001	<0.001	<0.001	n/a
Chrysene (aq)	<0.001	<0.001	<0.001	<0.001	n/a
Dibenzofuran (aq)	<0.001	<0.001	<0.001	<0.001	n/a
n-Dibutyl phthalate (aq)	<0.001	<0.001	<0.001	<0.001	n/a
Diethyl phthalate (aq)	<0.001	<0.001	<0.001	<0.001	n/a
Dibenzo(a,h)anthracene (aq)	<0.001	<0.001	<0.001	<0.001	n/a
Dimethyl phthalate (aq)	<0.001	<0.001	<0.001	<0.001	n/a
n-Dioctyl phthalate (aq)	<0.005	<0.005	<0.005	<0.005	n/a
Fluoranthene (aq)	<0.001	<0.001	<0.0001	<0.001	n/a
Fluorene (aq)	<0.001	<0.001	<0.001	<0.001	n/a
Hexachlorobenzene (aq)	<0.001	<0.001	<0.001	<0.001	0.00003 mg/l
Hexachlorobutadiene (aq)	<0.001	<0.001	<0.001	<0.001	0.01 mg/l
Pentachlorophenol (aq)	<0.001	<0.001	<0.001	<0.001	0.002 mg/l
Phenol (aq)	<0.001	<0.001	<0.001	<0.001	0.0005 mg/l
n-Nitroso-n-dipropylamine (aq)	<0.001	<0.001	<0.001	<0.001	n/a
Hexachloroethane (aq)	<0.001	<0.001	<0.001	<0.001	n/a
Nitrobenzene (aq)	<0.001	<0.001	<0.001	<0.001	n/a
Naphthalene (aq)	<0.001	<0.001	<0.001	<0.001	n/a
Isophorone (aq)	<0.001	<0.001	<0.001	<0.001	n/a
Hexachlorocyclopentadiene (aq)	<0.001	<0.001	<0.001	<0.001	n/a
Phenanthrene (aq)	<0.001	<0.001	<0.001	<0.001	n/a
Indeno(1,2,3-cd)pyrene (aq)	<0.001	<0.001	<0.001	<0.001	n/a
Pyrene (aq)	<0.001	<0.001	<0.001	<0.001	n/a

Volatile Organic Compounds (VOCs) (mg/l) Surface water Samples Results

Parameter	SW-1	SW-2	SW-3	SW-4	EQS for Surface Waters
Dichlorodifluoromethane	<0.007	<0.007	<0.007	<0.007	n/a
Chloromethane	<0.009	<0.009	<0.009	<0.009	n/a
Vinyl chloride	<0.0012	<0.0012	<0.0012	<0.0012	n/a
Bromomethane	<0.002	<0.002	<0.002	<0.002	n/a
Chloroethane	<0.0025	<0.0025	<0.0025	<0.0025	n/a
Trichlorofluoromethane	<0.0013	<0.0013	<0.0013	<0.0013	n/a
1,1-Dichloroethene	<0.0012	<0.0012	<0.0012	<0.0012	n/a
Carbon disulphide	<0.0013	<0.0013	<0.0013	<0.0013	n/a
Dichloromethane	<0.0037	<0.0037	<0.0037	<0.0037	n/a
Methyl tertiary butyl ether (MTBE)	<0.0016	<0.0016	<0.0016	<0.0016	n/a
trans-1,2-Dichloroethene	<0.0019	<0.0019	<0.0019	<0.0019	n/a
1,1-Dichloroethane	<0.0012	<0.0012	<0.0012	<0.0012	n/a
cis-1,2-Dichloroethene	<0.0023	<0.0023	<0.0023	<0.0023	n/a
2,2-Dichloropropane	<0.0038	<0.0038	<0.0038	<0.0038	n/a
Bromochloromethane	<0.0019	<0.0019	<0.0019	<0.0019	n/a
Chloroform	<0.0018	<0.0018	<0.0018	<0.0018	n/a
1,1,1-Trichloroethane	<0.0013	<0.0013	<0.0013	<0.0013	n/a
1,1-Dichloropropene	<0.0013	<0.0013	<0.0013	<0.0013	n/a
Carbontetrachloride	<0.0014	<0.0014	<0.0014	<0.0014	n/a
1,2-Dichloroethane	<0.0033	<0.0033	<0.0033	<0.0033	n/a
Benzene	<0.0013	<0.0013	<0.0013	<0.0013	n/a
Trichloroethene	<0.0025	<0.0025	<0.0025	<0.0025	n/a
1,2-Dichloropropane	<0.003	<0.003	<0.003	<0.003	n/a
Dibromomethane	<0.0027	<0.0027	<0.0027	<0.0027	n/a
Bromodichloromethane	<0.0009	<0.0009	<0.0009	<0.0009	n/a
cis-1,3-Dichloropropene	<0.0019	<0.0019	<0.0019	<0.0019	n/a
Toluene	<0.0014	<0.0014	<0.0014	<0.0014	n/a
trans-1,3-Dichloropropene	<0.0035	<0.0035	<0.0035	<0.0035	n/a
1,1,2-Trichloroethane	<0.0022	<0.0022	<0.0022	<0.0022	n/a
1,3-Dichloropropane	<0.0022	<0.0022	<0.0022	<0.0022	n/a
Tetrachloroethene	<0.0015	<0.0015	<0.0015	<0.0015	n/a
Dibromochloromethane	<0.0017	<0.0017	<0.0017	<0.0017	n/a
1,2-Dibromoethane	<0.0023	<0.0023	<0.0023	<0.0023	n/a

Parameter	SW-1	SW-2	SW-3	SW-4	EQS for Surface Waters
Chlorobenzene	<0.0035	<0.0035	<0.0035	<0.0035	n/a
1,1,1,2-Tetrachloroethane	<0.0013	<0.0013	<0.0013	<0.0013	n/a
Ethylbenzene	<0.0025	<0.0025	<0.0025	<0.0025	n/a
m,p-Xylene	<0.0025	<0.0025	<0.0025	<0.0025	n/a
o-Xylene	<0.0017	<0.0017	<0.0017	<0.0017	n/a
Styrene	<0.0012	<0.0012	<0.0012	<0.0012	n/a
Bromoform	<0.003	<0.003	<0.003	<0.003	n/a
Isopropylbenzene	<0.0014	<0.0014	<0.0014	<0.0014	n/a
1,1,2,2-Tetrachloroethane	<0.0052	<0.0052	<0.0052	<0.0052	n/a
1,2,3-Trichloropropane	<0.0078	<0.0078	<0.0078	<0.0078	n/a
Bromobenzene	<0.002	<0.002	<0.002	<0.002	n/a
Propylbenzene	<0.0026	<0.0026	<0.0026	<0.0026	n/a
2-Chlorotoluene	<0.0019	<0.0019	<0.0019	<0.0019	n/a
1,3,5-Trimethylbenzene	<0.0018	<0.0018	<0.0018	<0.0018	n/a
4-Chlorotoluene	<0.0019	<0.0019	<0.0019	<0.0019	n/a
tert-Butylbenzene	<0.002	<0.002	<0.002	<0.002	n/a
1,2,4-Trimethylbenzene	<0.0017	<0.0017	<0.0017	<0.0017	n/a
sec-Butylbenzene	<0.0017	<0.0017	<0.0017	<0.0017	n/a
4-iso-Propyltoluene	<0.0026	<0.0026	<0.0026	<0.0026	n/a
1,3-Dichlorobenzene	<0.0022	<0.0022	<0.0022	<0.0022	n/a
1,4-Dichlorobenzene	<0.0027	<0.0027	<0.0027	<0.0027	n/a
n-Butylbenzene	<0.002	<0.002	<0.002	<0.002	n/a
1,2-Dichlorobenzene	<0.0037	<0.0037	<0.0037	<0.0037	n/a
1,2-Dibromo-3-chloropropane	<0.0098	<0.0098	<0.0098	<0.0098	n/a
1,2,4-Trichlorobenzene	<0.0023	<0.0023	<0.0023	<0.0023	n/a
tert-Amyl methyl ether (TAME)	<0.001	<0.001	<0.001	<0.001	n/a
Naphthalene	<0.0035	<0.0035	<0.0035	<0.0035	n/a
1,2,3-Trichlorobenzene	<0.0031	<0.0031	<0.0031	<0.0031	n/a
1,3,5-Trichlorobenzene	<0.01	<0.01	<0.01	<0.01	n/a



Phenoxy Acid Herbicides (mg/l) Surface water Samples Results

Parameter	SW-1	SW-2	SW-3	SW-4	EQS for Surface Waters
Phenoxyacetic acid (PAA)	0.000385	<0.000031	0.000107	0.000783	n/a
Dicamba	<0.000033	0.000033	0.000033	0.000033	n/a
Phenoxypropionic acid (PPA)	<0.000023	<0.000023	<0.000023	<0.000023	n/a
4-Chlorophenoxyacetic acid (4-CPA)	0.000133	<0.000037	<0.000037	<0.000037	n/a
4-Phenoxybutyric acid	<0.000019	<0.000019	<0.000019	<0.000019	n/a
Bentazone	<0.000018	<0.000018	<0.000018	<0.000018	n/a
Bromoxynil	<0.000022	<0.000022	<0.000022	<0.000022	n/a
2,4-Dichlorophenoxy acetic acid (2,4-D)	<0.000026	<0.000026	<0.000026	<0.000026	n/a
2-methyl-4-Chlorophenoxyacetic acid (MCPA)	<0.00003	<0.00003	<0.00003	<0.00003	n/a
2-methyl-4,6-Dinitrophenol	<0.000041	<0.000041	<0.000041	<0.000041	n/a
Triclopyr	<0.000022	<0.000022	<0.000022	<0.000022	n/a
loxynil	<0.000017	<0.000017	<0.000017	<0.000017	n/a
2,4-Dichlorophenoxy acetic acid (2,4-DP)	<0.000015	<0.000015	<0.000015	<0.000015	n/a
2,4,5-Trichlorophenol (2,4,5-T)	<0.000029	<0.000029	<0.000029	<0.000029	n/a
Mecoprop (MCP)	<0.000025	<0.000025	0.0000375	0.000231	n/a
4-(2,4-Dichlorophenoxy) butyric acid (2,4-D)	<0.000022	<0.000022	<0.000022	<0.000022	n/a
4-(4-Chloro-o-tolyloxy) butyric acid (MCPB)	<0.000029	<0.000029	<0.000029	<0.000029	n/a
2-(2,4,5-Trichlorophenoxy) propionic acid	<0.000024	<0.000024	<0.000024	<0.000024	n/a
Dinoseb	<0.000027	<0.000027	<0.000027	<0.000027	n/a
Pentachlorophenol	<0.000032	<0.000032	<0.000032	<0.000032	n/a



Combined Pesticides / Herbicides (mg/l) Surface water Samples Results

Parameter	SW-1	SW-2	SW-3	SW-4	EQS for Surface Waters
Atrazine	<0.001	<0.001	<0.001	<0.001	0.001mg/l
Simazine	<0.001	<0.001	<0.001	<0.001	0.01mg/l
Dichlorvos	<0.00001	<0.00001	<0.00001	<0.00001	0.000001 mg/l
Mevinphos	<0.00001	<0.00001	<0.00001	<0.00001	n/a
Tecnazene	<0.00001	<0.00001	<0.00001	<0.00001	n/a
Hexachlorobenzene	<0.00001	<0.00001	<0.00001	<0.00001	n/a
Trifluralin	<0.00001	<0.00001	0.0000306	<0.00001	n/a
alpha-Hexachlorocyclohexane (HCH / Lindane)	<0.00001	<0.00001	<0.00001	<0.00001	n/a
Quintozene (PCNB)	<0.00001	<0.00001	<0.00001	<0.00001	n/a
Diazinon	<0.00001	<0.00001	<0.00001	<0.00001	n/a
Triallate	<0.00001	<0.00001	<0.00001	<0.00001	n/a
Etrimphos	<0.00001	<0.00001	<0.00001	<0.00001	n/a
gamma-Hexachlorocyclohexane (HCH / Lindane)	<0.00001	<0.00001	<0.00001	<0.00001	n/a
Disulfoton	<0.00001	<0.00001	<0.00001	<0.00001	n/a
Propetamphos	<0.00001	<0.00001	<0.00001	<0.00001	n/a
Heptachlor	<0.00001	<0.00001	<0.00001	<0.00001	n/a
Chlorpyriphos methyl	<0.00001	<0.00001	<0.00001	<0.00001	n/a
Dimethoate	<0.00001	<0.00001	<0.00001	<0.00001	n/a
Aldrin	<0.00001	<0.00001	<0.00001	<0.00001	0.00001 mg/l
Chlorothalonil	<0.00001	<0.00001	<0.00001	<0.00001	n/a
Pirimiphos-methyl	<0.00001	<0.00001	<0.00001	<0.00001	n/a
beta-Hexachlorocyclohexane (HCH / Lindane)	<0.00001	<0.00001	<0.00001	<0.00001	n/a
Chlorpyriphos	<0.00001	<0.00001	<0.00001	<0.00001	n/a
Telodrin	<0.00001	<0.00001	<0.00001	<0.00001	n/a
Methyl parathion	<0.00001	<0.00001	<0.00001	<0.00001	n/a
Isodrin	<0.00001	<0.00001	<0.00001	<0.00001	n/a
Malathion	0.0000116	<0.00001	<0.00001	<0.00001	n/a
Fenthion	<0.00001	<0.00001	<0.00001	<0.00001	n/a
Fenitrothion	<0.00001	<0.00001	<0.00001	<0.00001	n/a
Heptachlor epoxide	<0.00001	<0.00001	<0.00001	<0.00001	n/a

Parameter	SW-1	SW-2	SW-3	SW-4	EQS for Surface Waters
Triadimefon	<0.00001	<0.00001	<0.00001	<0.00001	n/a
Pendimethalin	<0.00001	<0.00001	<0.00001	<0.00001	n/a
Parathion	<0.00001	<0.00001	<0.00001	<0.00001	n/a
o,p-DDE	<0.00001	<0.00001	<0.00001	<0.00001	n/a
Chlorfenvinphos	<0.00001	<0.00001	<0.00001	<0.00001	n/a
Endosulphan I	<0.00001	<0.00001	<0.00001	<0.00001	0.000001 mg/l
Trans-chlordane	<0.00001	<0.00001	<0.00001	<0.00001	n/a
cis-Chlordane	<0.00001	<0.00001	<0.00001	<0.00001	n/a
p,p-DDE	<0.00001	<0.00001	<0.00001	<0.00001	n/a
Dieldrin	<0.00001	<0.00001	<0.00001	<0.00001	0.00001 mg/l
o,p-TDE (DDD)	<0.00001	<0.00001	<0.00001	<0.00001	n/a
Endrin	<0.00001	<0.00001	<0.00001	<0.00001	n/a
o,p-DDT	<0.00001	<0.00001	<0.00001	<0.00001	n/a
p,p-TDE (DDD)	<0.00001	<0.00001	<0.00001	<0.00001	n/a
Ethion	<0.00001	<0.00001	<0.00004	<0.00001	n/a
Endosulphan II	<0.00001	<0.00001	<0.0002	<0.00001	n/a
p,p-DDT	<0.00001	<0.00001	<0.00001	<0.00001	n/a
Carbophenothion	<0.00001	<0.00001	<0.00001	<0.00001	n/a
o,p-Methoxychlor	<0.00001	<0.00001	<0.00001	<0.00001	n/a
Triazophos	<0.00001	<0.00001	<0.00001	<0.00001	n/a
p,p-Methoxychlor	<0.00001	<0.00001	<0.00001	<0.00001	n/a
Endosulphan sulphate	<0.00001	<0.00001	<0.00001	<0.00001	n/a
Permethrin I	<0.00001	<0.00001	<0.00001	<0.00001	n/a
Phosalone	<0.00001	<0.00001	<0.00001	<0.00001	n/a
Permethrin II	<0.00001	<0.00001	<0.00001	<0.00001	n/a
Azinphos-methyl	<0.00001	<0.00001	<0.00001	<0.00001	n/a
Azinphos-ethyl	<0.00001	<0.00001	<0.00001	<0.00001	n/a