



Plate No.: 27

East Bay Verification Sample 27



Plate No.: 28

East Bay Verification Sample 28



Plate No.: 29

East Bay Verification Sample 29



Plate No.: 30

East Bay Verification Sample 30



Plate No.: 31

East Bay Verification Sample 31



Plate No.: 32

East Bay Verification Sample 32



Plate No.: 33

East Bay Verification Sample 33



Plate No.: 34

East Bay Verification Sample 34



Plate No.: 35

East Bay Verification Sample 35



Plate No.: 36

East Bay Verification Sample 36



Plate No.: 37

East Bay Verification Sample 37



Plate No.: 38

East Bay Verification Sample 38



Plate No.: 39

East Bay Verification Sample 39



Plate No.: 40

East Bay Verification Sample 40



Plate No.: 41

East Bay Verification Sample 41

APPENDIX C3 – LABORATORY CERTIFICATES OF ANALYSIS

Celtic
Columbus House
Greenmeadow Springs, Tongwynlais
Cardiff
CF15 7NE
FAO J Hearing

LABORATORY TEST REPORT



Report Date
09 June 2011

Results of analysis of 41 samples
received 25 May 2011

Coed Darcy Sludge Remediation - C1434

Login Batch No

Chemtest LIMS ID

Sample ID

Sample No

Sampling Date

Depth

Matrix

SOP↓ Determinand↓

CAS No↓

Units↓

*

					59090							
					AG07423	AG07424	AG07425	AG07426	AG07427	AG07428	AG07429	AG07430
					EBV	EBV	EBV	EBV	EBV	EBV	EBV	EBV
					3	4	5	6	7	8	9	10
					23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011
					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
2450	Arsenic	7440382	mg kg ⁻¹	M	10	2.3	4.0	14	11	5.7	3.8	13
	Cadmium	7440439	mg kg ⁻¹	M	<0.10	<0.10	<0.10	0.36	<0.10	<0.10	<0.10	<0.10
	Chromium	7440473	mg kg ⁻¹	M	24	21	21	5.9	22	18	18	15
	Copper	7440508	mg kg ⁻¹	M	12	8.7	12	97	7.7	11	9.9	7.7
	Mercury	7439976	mg kg ⁻¹	M	<0.10	<0.10	<0.10	0.33	<0.10	<0.10	<0.10	<0.10
	Nickel	7440020	mg kg ⁻¹	M	35	20	19	8.1	18	17	20	25
	Lead	7439921	mg kg ⁻¹	M	16	13	14	67	18	12	12	11
	Selenium	7782492	mg kg ⁻¹	M	0.37	0.21	<0.20	0.37	<0.20	0.23	<0.20	0.32
	Vanadium	7440622	mg kg ⁻¹	M	18	16	17	<5.0	24	13	13	11
	Zinc	7440666	mg kg ⁻¹	M	65	41	38	160	35	37	40	51
2675	TPH aliphatic >C5-C6		mg kg ⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C6-C8		mg kg ⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C8-C10		mg kg ⁻¹	N	< 0.1	< 0.1	< 0.1	0.88	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C10-C12		mg kg ⁻¹	N	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C12-C16		mg kg ⁻¹	N	< 0.1	< 0.1	< 0.1	160	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C16-C21		mg kg ⁻¹	N	< 0.1	< 0.1	< 0.1	320	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C21-C35		mg kg ⁻¹	N	< 0.1	< 0.1	< 0.1	120	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C35-C44		mg kg ⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C5-C7		mg kg ⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C7-C8		mg kg ⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C8-C10		mg kg ⁻¹	N	< 0.1	< 0.1	< 0.1	0.81	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C10-C12		mg kg ⁻¹	N	< 0.1	< 0.1	< 0.1	5.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C12-C16		mg kg ⁻¹	N	< 0.1	< 0.1	< 0.1	48	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C16-C21		mg kg ⁻¹	N	< 0.1	< 0.1	< 0.1	53	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C21-C35		mg kg ⁻¹	N	< 0.1	< 0.1	< 0.1	11	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C35-C44		mg kg ⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Total Petroleum Hydrocarbons		mg kg ⁻¹	N	< 2	< 2	< 2	740	< 2	< 2	< 2	< 2
2700	Naphthalene	91203	mg kg ⁻¹	M	< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1
	Acenaphthylene	208968	mg kg ⁻¹	M	< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1

All tests undertaken between 25-May-2011 and 3-Jun-2011

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Column page 1

Report page 1 of 4

Report sample ID range AG07423 to AG07463

Celtic
Columbus House
Greenmeadow Springs, Tongwynlais
Cardiff
CF15 7NE
FAO J Hearing

LABORATORY TEST REPORT



Report Date
09 June 2011

Results of analysis of 41 samples
received 25 May 2011

Coed Darcy Sludge Remediation - C1434

Login Batch No

Chemtest LIMS ID

Sample ID

Sample No

Sampling Date

Depth

Matrix

SOP↓ Determinand↓

CAS No↓

Units↓

2450	Arsenic	7440382	mg kg ⁻¹	M	8.9	6.3	<2.0	<2.0	2.7	5.5	3.2	7.3
	Cadmium	7440439	mg kg ⁻¹	M	<0.10	0.12	<0.10	0.10	<0.10	<0.10	<0.10	<0.10
	Chromium	7440473	mg kg ⁻¹	M	17	15	14	9.8	6.4	12	21	18
	Copper	7440508	mg kg ⁻¹	M	9.1	5.8	5.8	5.4	<5.0	<5.0	12	9.8
	Mercury	7439976	mg kg ⁻¹	M	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
	Nickel	7440020	mg kg ⁻¹	M	16	11	13	10	<5.0	11	30	22
	Lead	7439921	mg kg ⁻¹	M	12	10	8.9	8.5	<5.0	8.9	14	11
	Selenium	7782492	mg kg ⁻¹	M	0.30	0.35	0.31	0.26	0.37	<0.20	0.30	0.44
	Vanadium	7440622	mg kg ⁻¹	M	14	12	8.0	<5.0	<5.0	9.7	16	13
	Zinc	7440666	mg kg ⁻¹	M	37	34	22	26	18	31	56	41
2675	TPH aliphatic >C5-C6		mg kg ⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C6-C8		mg kg ⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C8-C10		mg kg ⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C10-C12		mg kg ⁻¹	N	< 0.1	< 0.1	0.73	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C12-C16		mg kg ⁻¹	N	< 0.1	< 0.1	15	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C16-C21		mg kg ⁻¹	N	< 0.1	< 0.1	23	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C21-C35		mg kg ⁻¹	N	< 0.1	< 0.1	2.9	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C35-C44		mg kg ⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C5-C7		mg kg ⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C7-C8		mg kg ⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C8-C10		mg kg ⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C10-C12		mg kg ⁻¹	N	< 0.1	< 0.1	0.36	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C12-C16		mg kg ⁻¹	N	< 0.1	< 0.1	5.4	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C16-C21		mg kg ⁻¹	N	< 0.1	< 0.1	5.9	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C21-C35		mg kg ⁻¹	N	< 0.1	< 0.1	1.4	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C35-C44		mg kg ⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Total Petroleum Hydrocarbons		mg kg ⁻¹	N	< 2	< 2	55	< 2	< 2	< 2	< 2	< 2
2700	Naphthalene	91203	mg kg ⁻¹	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Acenaphthylene	208968	mg kg ⁻¹	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

All tests undertaken between 25-May-2011 and 3-Jun-2011

This report should be interpreted in conjunction with the notes on the accompanying cover page

Column page 2

Report page 1 of 4

Report sample ID range AG07423 to AG07463

Celtic
Columbus House
Greenmeadow Springs, Tongwynlais
Cardiff
CF15 7NE
FAO J Hearing

LABORATORY TEST REPORT



Report Date
09 June 2011

Results of analysis of 41 samples
received 25 May 2011

Coed Darcy Sludge Remediation - C1434

Login Batch No

Chemtest LIMS ID

Sample ID

Sample No

Sampling Date

Depth

Matrix

SOP↓ Determinand↓

CAS No↓

Units↓

2450	Arsenic	7440382	mg kg ⁻¹	M	8.1	6.9	14	8.3	11	6.5	3.5	<2.0
	Cadmium	7440439	mg kg ⁻¹	M	<0.10	<0.10	0.38	0.13	0.11	0.30	0.12	<0.10
	Chromium	7440473	mg kg ⁻¹	M	11	18	14	23	9.2	6.5	<5.0	<5.0
	Copper	7440508	mg kg ⁻¹	M	8.2	<5.0	31	21	<5.0	7.5	<5.0	<5.0
	Mercury	7439976	mg kg ⁻¹	M	<0.10	<0.10	<0.10	<0.10	<0.10	0.25	<0.10	<0.10
	Nickel	7440020	mg kg ⁻¹	M	10	13	12	18	6.6	<5.0	<5.0	<5.0
	Lead	7439921	mg kg ⁻¹	M	8.9	13	18	18	11	8.1	5.7	<5.0
	Selenium	7782492	mg kg ⁻¹	M	0.33	<0.20	0.73	0.22	0.27	0.67	0.34	<0.20
	Vanadium	7440622	mg kg ⁻¹	M	6.7	15	9.8	16	<5.0	<5.0	<5.0	<5.0
	Zinc	7440666	mg kg ⁻¹	M	14	27	43	30	46	26	17	<10
2675	TPH aliphatic >C5-C6		mg kg ⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C6-C8		mg kg ⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C8-C10		mg kg ⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C10-C12		mg kg ⁻¹	N	0.82	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C12-C16		mg kg ⁻¹	N	16	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C16-C21		mg kg ⁻¹	N	25	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C21-C35		mg kg ⁻¹	N	2.5	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C35-C44		mg kg ⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C5-C7		mg kg ⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C7-C8		mg kg ⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C8-C10		mg kg ⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C10-C12		mg kg ⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C12-C16		mg kg ⁻¹	N	3.7	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C16-C21		mg kg ⁻¹	N	4.7	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C21-C35		mg kg ⁻¹	N	1.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C35-C44		mg kg ⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Total Petroleum Hydrocarbons		mg kg ⁻¹	N	54	< 2	< 2	< 2	< 2	< 2	< 2	< 2
	2700	Naphthalene	91203	mg kg ⁻¹	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene		208968	mg kg ⁻¹	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

All tests undertaken between 25-May-2011 and 3-Jun-2011

This report should be interpreted in conjunction with the notes on the accompanying cover page

Column page 3

Report page 1 of 4

Report sample ID range AG07423 to AG07463

Celtic
Columbus House
Greenmeadow Springs, Tongwynlais
Cardiff
CF15 7NE
FAO J Hearing

LABORATORY TEST REPORT



Report Date
09 June 2011

Results of analysis of 41 samples
received 25 May 2011

Coed Darcy Sludge Remediation - C1434

Login Batch No

Chemtest LIMS ID

Sample ID

Sample No

Sampling Date

Depth

Matrix

SOP↓ Determinand↓

CAS No↓

Units↓

					59090							
					AG07447	AG07448	AG07449	AG07450	AG07451	AG07452	AG07453	AG07454
					EBV	EBV	EBV	EBV	EBV	EBV	EBV	EBV
					27	28	29	30	31	32	33	34
					23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011
					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
2450	Arsenic	7440382	mg kg ⁻¹	M	<2.0	3.1	5.9	3.7	29	3.7	2.5	2.6
	Cadmium	7440439	mg kg ⁻¹	M	<0.10	<0.10	<0.10	<0.10	<0.10	0.63	<0.10	0.20
	Chromium	7440473	mg kg ⁻¹	M	12	11	15	17	26	<5.0	21	21
	Copper	7440508	mg kg ⁻¹	M	5.9	8.5	5.3	11	<5.0	8.9	7.3	11
	Mercury	7439976	mg kg ⁻¹	M	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
	Nickel	7440020	mg kg ⁻¹	M	12	9.9	12	12	24	8.6	13	20
	Lead	7439921	mg kg ⁻¹	M	8.0	11	9.6	30	19	<5.0	18	15
	Selenium	7782492	mg kg ⁻¹	M	0.24	<0.20	0.27	0.21	0.50	0.80	0.34	0.43
	Vanadium	7440622	mg kg ⁻¹	M	7.2	8.4	12	14	37	<5.0	15	16
	Zinc	7440666	mg kg ⁻¹	M	29	28	21	24	51	34	19	53
2675	TPH aliphatic >C5-C6		mg kg ⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C6-C8		mg kg ⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C8-C10		mg kg ⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C10-C12		mg kg ⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	2.3	< 0.1	< 0.1	0.43
	TPH aliphatic >C12-C16		mg kg ⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	41	< 0.1	< 0.1	53
	TPH aliphatic >C16-C21		mg kg ⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	31	< 0.1	< 0.1	170
	TPH aliphatic >C21-C35		mg kg ⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	0.31	< 0.1	< 0.1	69
	TPH aliphatic >C35-C44		mg kg ⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C5-C7		mg kg ⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C7-C8		mg kg ⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C8-C10		mg kg ⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C10-C12		mg kg ⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	0.79	< 0.1	< 0.1	0.29
	TPH aromatic >C12-C16		mg kg ⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	11	< 0.1	< 0.1	22
	TPH aromatic >C16-C21		mg kg ⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	6.3	< 0.1	< 0.1	42
	TPH aromatic >C21-C35		mg kg ⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	0.31	< 0.1	< 0.1	11
	TPH aromatic >C35-C44		mg kg ⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Total Petroleum Hydrocarbons		mg kg ⁻¹	N	< 2	< 2	< 2	< 2	94	< 2	< 2	370
2700	Naphthalene	91203	mg kg ⁻¹	M	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Acenaphthylene	208968	mg kg ⁻¹	M	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

All tests undertaken between 25-May-2011 and 3-Jun-2011

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Column page 4

Report page 1 of 4

Report sample ID range AG07423 to AG07463

Celtic
Columbus House
Greenmeadow Springs, Tongwynlais
Cardiff
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LABORATORY TEST REPORT



Report Date
09 June 2011

Results of analysis of 41 samples
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Coed Darcy Sludge Remediation - C1434

Login Batch No

Chemtest LIMS ID

Sample ID

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Depth

Matrix

SOP↓ Determinand↓

CAS No↓

Units↓

2450	Arsenic	7440382	mg kg ⁻¹	M	<2.0	<2.0	4.7	2.0	8.7	2.3	<2.0	130
	Cadmium	7440439	mg kg ⁻¹	M	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	<0.10	5.1
	Chromium	7440473	mg kg ⁻¹	M	8.1	12	20	18	19	19	24	7.9
	Copper	7440508	mg kg ⁻¹	M	<5.0	5.0	14	11	8.5	9.0	10	200
	Mercury	7439976	mg kg ⁻¹	M	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.22
	Nickel	7440020	mg kg ⁻¹	M	11	10	21	15	19	26	28	23
	Lead	7439921	mg kg ⁻¹	M	<5.0	8.5	14	13	13	12	14	71
	Selenium	7782492	mg kg ⁻¹	M	0.25	0.29	0.27	0.20	0.46	0.37	<0.20	2.4
	Vanadium	7440622	mg kg ⁻¹	M	<5.0	<5.0	15	15	13	13	18	<5.0
	Zinc	7440666	mg kg ⁻¹	M	17	20	41	32	34	53	34	350
2675	TPH aliphatic >C5-C6		mg kg ⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C6-C8		mg kg ⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C8-C10		mg kg ⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C10-C12		mg kg ⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.67	7.4
	TPH aliphatic >C12-C16		mg kg ⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	27	390
	TPH aliphatic >C16-C21		mg kg ⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	97	940
	TPH aliphatic >C21-C35		mg kg ⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	64	1500
	TPH aliphatic >C35-C44		mg kg ⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	54
	TPH aromatic >C5-C7		mg kg ⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C7-C8		mg kg ⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C8-C10		mg kg ⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C10-C12		mg kg ⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.54	6.6
	TPH aromatic >C12-C16		mg kg ⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	8.6	210
	TPH aromatic >C16-C21		mg kg ⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	24	390
	TPH aromatic >C21-C35		mg kg ⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	18	240
	TPH aromatic >C35-C44		mg kg ⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Total Petroleum Hydrocarbons		mg kg ⁻¹	N	< 2	< 2	< 2	< 2	< 2	< 2	240	3700
	2700	Naphthalene	91203	mg kg ⁻¹	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene		208968	mg kg ⁻¹	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	

All tests undertaken between 25-May-2011 and 3-Jun-2011

This report should be interpreted in conjunction with the notes on the accompanying cover page

Column page 5

Report page 1 of 4

Report sample ID range AG07423 to AG07463

Celtic
Columbus House
Greenmeadow Springs, Tongwynlais
Cardiff
CF15 7NE
FAO J Hearing

LABORATORY TEST REPORT



Report Date
09 June 2011

Results of analysis of 41 samples
received 25 May 2011

Coed Darcy Sludge Remediation - C1434

Login Batch No

Chemtest LIMS ID

Sample ID

Sample No

Sampling Date

Depth

Matrix

SOP↓ Determinand↓

CAS No↓

Units↓

59090

AG07463

EBV

43

23/5/2011

SOIL

2450	Arsenic	7440382	mg kg ⁻¹	M	46
	Cadmium	7440439	mg kg ⁻¹	M	1.6
	Chromium	7440473	mg kg ⁻¹	M	15
	Copper	7440508	mg kg ⁻¹	M	210
	Mercury	7439976	mg kg ⁻¹	M	0.71
	Nickel	7440020	mg kg ⁻¹	M	22
	Lead	7439921	mg kg ⁻¹	M	83
	Selenium	7782492	mg kg ⁻¹	M	1.1
	Vanadium	7440622	mg kg ⁻¹	M	14
	Zinc	7440666	mg kg ⁻¹	M	220
2675	TPH aliphatic >C5-C6		mg kg ⁻¹	N	< 0.1
	TPH aliphatic >C6-C8		mg kg ⁻¹	N	< 0.1
	TPH aliphatic >C8-C10		mg kg ⁻¹	N	< 0.1
	TPH aliphatic >C10-C12		mg kg ⁻¹	N	81
	TPH aliphatic >C12-C16		mg kg ⁻¹	N	1500
	TPH aliphatic >C16-C21		mg kg ⁻¹	N	2400
	TPH aliphatic >C21-C35		mg kg ⁻¹	N	2800
	TPH aliphatic >C35-C44		mg kg ⁻¹	N	31
	TPH aromatic >C5-C7		mg kg ⁻¹	N	< 0.1
	TPH aromatic >C7-C8		mg kg ⁻¹	N	< 0.1
	TPH aromatic >C8-C10		mg kg ⁻¹	N	< 0.1
	TPH aromatic >C10-C12		mg kg ⁻¹	N	47
	TPH aromatic >C12-C16		mg kg ⁻¹	N	910
	TPH aromatic >C16-C21		mg kg ⁻¹	N	1200
	TPH aromatic >C21-C35		mg kg ⁻¹	N	270
	TPH aromatic >C35-C44		mg kg ⁻¹	N	< 0.1
	Total Petroleum Hydrocarbons		mg kg ⁻¹	N	9200
2700	Naphthalene	91203	mg kg ⁻¹	M	
	Acenaphthylene	208968	mg kg ⁻¹	M	

All tests undertaken between 25-May-2011 and 3-Jun-2011

This report should be interpreted in conjunction with the notes on the accompanying cover page

Column page 6

Report page 1 of 4

Report sample ID range AG07423 to AG07463

LABORATORY TEST REPORT

Report Date
09 June 2011

Results of analysis of 41 samples
received 25 May 2011

Coed Darcy Sludge Remediation - C1434

					59090							
					AG07423	AG07424	AG07425	AG07426	AG07427	AG07428	AG07429	AG07430
					EBV	EBV	EBV	EBV	EBV	EBV	EBV	EBV
					3	4	5	6	7	8	9	10
					23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011
					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
2700	Acenaphthene	83329	mg kg ⁻¹	M	< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1
	Fluorene	86737	mg kg ⁻¹	M	< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1
	Phenanthrene	85018	mg kg ⁻¹	M	< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1
	Anthracene	120127	mg kg ⁻¹	M	< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1
	Fluoranthene	206440	mg kg ⁻¹	M	< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1
	Pyrene	129000	mg kg ⁻¹	M	< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1
	Benzo[a]anthracene	56553	mg kg ⁻¹	M	< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1
	Chrysene	218019	mg kg ⁻¹	M	< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1
	Benzo[b]fluoranthene	205992	mg kg ⁻¹	M	< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1
	Benzo[k]fluoranthene	207089	mg kg ⁻¹	M	< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1
	Benzo[a]pyrene	50328	mg kg ⁻¹	M	< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1
	Dibenzo[a,h]anthracene	53703	mg kg ⁻¹	M	< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1
	Indeno[1,2,3-cd]pyrene	193395	mg kg ⁻¹	M	< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1
	Benzo[g,h,i]perylene	191242	mg kg ⁻¹	M	< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1
	Total (of 16) PAHs		mg kg ⁻¹	M	< 2	< 2	< 2		< 2	< 2	< 2	< 2
2760	Vinyl chloride	75014	µg kg ⁻¹	M	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	Dichloromethane	75092	µg kg ⁻¹	N	<100	<100	<100	<100	<100	<100	<100	<100
	trans-1,2-Dichloroethene	156605	µg kg ⁻¹	U	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	cis-1,2-Dichloroethene	156592	µg kg ⁻¹	M	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	1,1,1-Trichloroethane	71556	µg kg ⁻¹	M	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	Tetrachloromethane	56235	µg kg ⁻¹	M	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	Benzene	71432	µg kg ⁻¹	M	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	1,2-Dichloroethane	107062	µg kg ⁻¹	U	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	Trichloroethene	79016	µg kg ⁻¹	U	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	Toluene	108883	µg kg ⁻¹	M	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	Tetrachloroethene	127184	µg kg ⁻¹	M	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	Chlorobenzene	108907	µg kg ⁻¹	M	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	1,1,1,2-Tetrachloroethane	630206	µg kg ⁻¹	M	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	Ethylbenzene	100414	µg kg ⁻¹	M	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	m- & p-Xylene	1330207	µg kg ⁻¹	U	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

All tests undertaken between 25-May-2011 and 3-Jun-2011

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Column page 1

Report page 2 of 4

Report sample ID range AG07423 to AG07463

LABORATORY TEST REPORT

Results of analysis of 41 samples
received 25 May 2011

Report Date
09 June 2011

Coed Darcy Sludge Remediation - C1434

					59090							
					AG07431	AG07432	AG07433	AG07434	AG07435	AG07436	AG07437	AG07438
					EBV	EBV	EBV	EBV	EBV	EBV	EBV	EBV
					11	12	13	14	15	16	17	18
					23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011
					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
2700	Acenaphthene	83329	mg kg ⁻¹	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Fluorene	86737	mg kg ⁻¹	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Phenanthrene	85018	mg kg ⁻¹	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Anthracene	120127	mg kg ⁻¹	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Fluoranthene	206440	mg kg ⁻¹	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Pyrene	129000	mg kg ⁻¹	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Benzo[a]anthracene	56553	mg kg ⁻¹	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Chrysene	218019	mg kg ⁻¹	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Benzo[b]fluoranthene	205992	mg kg ⁻¹	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Benzo[k]fluoranthene	207089	mg kg ⁻¹	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Benzo[a]pyrene	50328	mg kg ⁻¹	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Dibenzo[a,h]anthracene	53703	mg kg ⁻¹	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Indeno[1,2,3-cd]pyrene	193395	mg kg ⁻¹	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Benzo[g,h,i]perylene	191242	mg kg ⁻¹	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Total (of 16) PAHs		mg kg ⁻¹	M	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
2760	Vinyl chloride	75014	µg kg ⁻¹	M	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	Dichloromethane	75092	µg kg ⁻¹	N	<100	<100	<100	<100	<100	<100	<100	<100
	trans-1,2-Dichloroethene	156605	µg kg ⁻¹	U	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	cis-1,2-Dichloroethene	156592	µg kg ⁻¹	M	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	1,1,1-Trichloroethane	71556	µg kg ⁻¹	M	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	Tetrachloromethane	56235	µg kg ⁻¹	M	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	Benzene	71432	µg kg ⁻¹	M	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	1,2-Dichloroethane	107062	µg kg ⁻¹	U	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	Trichloroethene	79016	µg kg ⁻¹	U	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	Toluene	108883	µg kg ⁻¹	M	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	Tetrachloroethene	127184	µg kg ⁻¹	M	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	Chlorobenzene	108907	µg kg ⁻¹	M	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	1,1,1,2-Tetrachloroethane	630206	µg kg ⁻¹	M	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	Ethylbenzene	100414	µg kg ⁻¹	M	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	m- & p-Xylene	1330207	µg kg ⁻¹	U	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

All tests undertaken between 25-May-2011 and 3-Jun-2011

Column page 2

Report page 2 of 4

This report should be interpreted in conjunction with the notes on the accompanying cover page

Report sample ID range AG07423 to AG07463

LABORATORY TEST REPORT

Results of analysis of 41 samples
received 25 May 2011

Report Date
09 June 2011

Coed Darcy Sludge Remediation - C1434

					59090							
					AG07439	AG07440	AG07441	AG07442	AG07443	AG07444	AG07445	AG07446
					EBV	EBV	EBV	EBV	EBV	EBV	EBV	EBV
					19	20	21	22	23	24	25	26
					23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011
					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
2700	Acenaphthene	83329	mg kg ⁻¹	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Fluorene	86737	mg kg ⁻¹	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Phenanthrene	85018	mg kg ⁻¹	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Anthracene	120127	mg kg ⁻¹	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Fluoranthene	206440	mg kg ⁻¹	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Pyrene	129000	mg kg ⁻¹	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Benzo[a]anthracene	56553	mg kg ⁻¹	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Chrysene	218019	mg kg ⁻¹	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Benzo[b]fluoranthene	205992	mg kg ⁻¹	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Benzo[k]fluoranthene	207089	mg kg ⁻¹	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Benzo[a]pyrene	50328	mg kg ⁻¹	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Dibenzo[a,h]anthracene	53703	mg kg ⁻¹	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Indeno[1,2,3-cd]pyrene	193395	mg kg ⁻¹	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Benzo[g,h,i]perylene	191242	mg kg ⁻¹	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Total (of 16) PAHs		mg kg ⁻¹	M	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
2760	Vinyl chloride	75014	µg kg ⁻¹	M	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	Dichloromethane	75092	µg kg ⁻¹	N	<100	<100	<100	<100	<100	<100	<100	<100
	trans-1,2-Dichloroethene	156605	µg kg ⁻¹	U	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	cis-1,2-Dichloroethene	156592	µg kg ⁻¹	M	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	1,1,1-Trichloroethane	71556	µg kg ⁻¹	M	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	Tetrachloromethane	56235	µg kg ⁻¹	M	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	Benzene	71432	µg kg ⁻¹	M	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	1,2-Dichloroethane	107062	µg kg ⁻¹	U	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	Trichloroethene	79016	µg kg ⁻¹	U	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	Toluene	108883	µg kg ⁻¹	M	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	Tetrachloroethene	127184	µg kg ⁻¹	M	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	Chlorobenzene	108907	µg kg ⁻¹	M	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	1,1,1,2-Tetrachloroethane	630206	µg kg ⁻¹	M	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	Ethylbenzene	100414	µg kg ⁻¹	M	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	m- & p-Xylene	1330207	µg kg ⁻¹	U	<1.0	<1.0	<1.0	<1.0	<1.0	1.4	<1.0	<1.0

All tests undertaken between 25-May-2011 and 3-Jun-2011

Column page 3

Report page 2 of 4

This report should be interpreted in conjunction with the notes on the accompanying cover page

Report sample ID range AG07423 to AG07463

LABORATORY TEST REPORT

Results of analysis of 41 samples
received 25 May 2011

Report Date
09 June 2011

Coed Darcy Sludge Remediation - C1434

					59090							
					AG07447	AG07448	AG07449	AG07450	AG07451	AG07452	AG07453	AG07454
					EBV	EBV	EBV	EBV	EBV	EBV	EBV	EBV
					27	28	29	30	31	32	33	34
					23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011
					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
2700	Acenaphthene	83329	mg kg ⁻¹	M	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Fluorene	86737	mg kg ⁻¹	M	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Phenanthrene	85018	mg kg ⁻¹	M	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Anthracene	120127	mg kg ⁻¹	M	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Fluoranthene	206440	mg kg ⁻¹	M	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Pyrene	129000	mg kg ⁻¹	M	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Benzo[a]anthracene	56553	mg kg ⁻¹	M	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Chrysene	218019	mg kg ⁻¹	M	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Benzo[b]fluoranthene	205992	mg kg ⁻¹	M	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Benzo[k]fluoranthene	207089	mg kg ⁻¹	M	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Benzo[a]pyrene	50328	mg kg ⁻¹	M	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Dibenzo[a,h]anthracene	53703	mg kg ⁻¹	M	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Indeno[1,2,3-cd]pyrene	193395	mg kg ⁻¹	M	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Benzo[g,h,i]perylene	191242	mg kg ⁻¹	M	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Total (of 16) PAHs		mg kg ⁻¹	M	< 2		< 2	< 2	< 2	< 2	< 2	< 2
2760	Vinyl chloride	75014	µg kg ⁻¹	M	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	Dichloromethane	75092	µg kg ⁻¹	N	<100	<100	<100	<100	<100	<100	<100	<100
	trans-1,2-Dichloroethene	156605	µg kg ⁻¹	U	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	cis-1,2-Dichloroethene	156592	µg kg ⁻¹	M	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	1,1,1-Trichloroethane	71556	µg kg ⁻¹	M	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	Tetrachloromethane	56235	µg kg ⁻¹	M	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	Benzene	71432	µg kg ⁻¹	M	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	1,2-Dichloroethane	107062	µg kg ⁻¹	U	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	Trichloroethene	79016	µg kg ⁻¹	U	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	Toluene	108883	µg kg ⁻¹	M	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	Tetrachloroethene	127184	µg kg ⁻¹	M	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	Chlorobenzene	108907	µg kg ⁻¹	M	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	1,1,1,2-Tetrachloroethane	630206	µg kg ⁻¹	M	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	Ethylbenzene	100414	µg kg ⁻¹	M	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	m- & p-Xylene	1330207	µg kg ⁻¹	U	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

All tests undertaken between 25-May-2011 and 3-Jun-2011

Column page 4

Report page 2 of 4

This report should be interpreted in conjunction with the notes on the accompanying cover page

Report sample ID range AG07423 to AG07463

LABORATORY TEST REPORT

Results of analysis of 41 samples
received 25 May 2011

Report Date
09 June 2011

Coed Darcy Sludge Remediation - C1434

					59090							
					AG07455	AG07456	AG07457	AG07458	AG07459	AG07460	AG07461	AG07462
					EBV	EBV	EBV	EBV	EBV	EBV	EBV	EBV
					35	36	37	38	39	40	41	42
					23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011
					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
2700	Acenaphthene	83329	mg kg ⁻¹	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
	Fluorene	86737	mg kg ⁻¹	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
	Phenanthrene	85018	mg kg ⁻¹	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
	Anthracene	120127	mg kg ⁻¹	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
	Fluoranthene	206440	mg kg ⁻¹	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
	Pyrene	129000	mg kg ⁻¹	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
	Benzo[a]anthracene	56553	mg kg ⁻¹	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
	Chrysene	218019	mg kg ⁻¹	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
	Benzo[b]fluoranthene	205992	mg kg ⁻¹	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
	Benzo[k]fluoranthene	207089	mg kg ⁻¹	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
	Benzo[a]pyrene	50328	mg kg ⁻¹	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
	Dibenzo[a,h]anthracene	53703	mg kg ⁻¹	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
	Indeno[1,2,3-cd]pyrene	193395	mg kg ⁻¹	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
	Benzo[g,h,i]perylene	191242	mg kg ⁻¹	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
	Total (of 16) PAHs		mg kg ⁻¹	M	< 2	< 2	< 2	< 2	< 2	< 2	< 2	
2760	Vinyl chloride	75014	µg kg ⁻¹	M	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	Dichloromethane	75092	µg kg ⁻¹	N	<100	<100	<100	<100	<100	<100	<100	<100
	trans-1,2-Dichloroethene	156605	µg kg ⁻¹	U	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	cis-1,2-Dichloroethene	156592	µg kg ⁻¹	M	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	1,1,1-Trichloroethane	71556	µg kg ⁻¹	M	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	Tetrachloromethane	56235	µg kg ⁻¹	M	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	Benzene	71432	µg kg ⁻¹	M	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	1,2-Dichloroethane	107062	µg kg ⁻¹	U	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	Trichloroethene	79016	µg kg ⁻¹	U	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	Toluene	108883	µg kg ⁻¹	M	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	Tetrachloroethene	127184	µg kg ⁻¹	M	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	Chlorobenzene	108907	µg kg ⁻¹	M	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	1,1,1,2-Tetrachloroethane	630206	µg kg ⁻¹	M	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	Ethylbenzene	100414	µg kg ⁻¹	M	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	m- & p-Xylene	1330207	µg kg ⁻¹	U	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

All tests undertaken between 25-May-2011 and 3-Jun-2011

Column page 5

Report page 2 of 4

This report should be interpreted in conjunction with the notes on the accompanying cover page

Report sample ID range AG07423 to AG07463

Celtic
Columbus House
Greenmeadow Springs, Tongwynlais
Cardiff
CF15 7NE

LABORATORY TEST REPORT



Report Date
09 June 2011

Results of analysis of 41 samples
received 25 May 2011

FAO J Hearing

Coed Darcy Sludge Remediation - C1434

					59090
					AG07463
					EBV
					43
					23/5/2011
					SOIL
2700	Acenaphthene	83329	mg kg ⁻¹	M	
	Fluorene	86737	mg kg ⁻¹	M	
	Phenanthrene	85018	mg kg ⁻¹	M	
	Anthracene	120127	mg kg ⁻¹	M	
	Fluoranthene	206440	mg kg ⁻¹	M	
	Pyrene	129000	mg kg ⁻¹	M	
	Benzo[a]anthracene	56553	mg kg ⁻¹	M	
	Chrysene	218019	mg kg ⁻¹	M	
	Benzo[b]fluoranthene	205992	mg kg ⁻¹	M	
	Benzo[k]fluoranthene	207089	mg kg ⁻¹	M	
	Benzo[a]pyrene	50328	mg kg ⁻¹	M	
	Dibenzo[a,h]anthracene	53703	mg kg ⁻¹	M	
	Indeno[1,2,3-cd]pyrene	193395	mg kg ⁻¹	M	
	Benzo[g,h,i]perylene	191242	mg kg ⁻¹	M	
	Total (of 16) PAHs		mg kg ⁻¹	M	
2760	Vinyl chloride	75014	µg kg ⁻¹	M	<1.0
	Dichloromethane	75092	µg kg ⁻¹	N	<100
	trans-1,2-Dichloroethene	156605	µg kg ⁻¹	U	<1.0
	cis-1,2-Dichloroethene	156592	µg kg ⁻¹	M	<1.0
	1,1,1-Trichloroethane	71556	µg kg ⁻¹	M	<1.0
	Tetrachloromethane	56235	µg kg ⁻¹	M	<1.0
	Benzene	71432	µg kg ⁻¹	M	<1.0
	1,2-Dichloroethane	107062	µg kg ⁻¹	U	<2.0
	Trichloroethene	79016	µg kg ⁻¹	U	<1.0
	Toluene	108883	µg kg ⁻¹	M	<1.0
	Tetrachloroethene	127184	µg kg ⁻¹	M	<1.0
	Chlorobenzene	108907	µg kg ⁻¹	M	<1.0
	1,1,1,2-Tetrachloroethane	630206	µg kg ⁻¹	M	<2.0
	Ethylbenzene	100414	µg kg ⁻¹	M	<1.0
	m- & p-Xylene	1330207	µg kg ⁻¹	U	1.6

All tests undertaken between 25-May-2011 and 3-Jun-2011

This report should be interpreted in conjunction with the notes on the accompanying cover page

Column page 6

Report page 2 of 4

Report sample ID range AG07423 to AG07463

LABORATORY TEST REPORT

Report Date
09 June 2011

Results of analysis of 41 samples
received 25 May 2011

Coed Darcy Sludge Remediation - C1434

					59090							
					AG07423	AG07424	AG07425	AG07426	AG07427	AG07428	AG07429	AG07430
					EBV	EBV	EBV	EBV	EBV	EBV	EBV	EBV
					3	4	5	6	7	8	9	10
					23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011
					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
2760	o-Xylene	95476	µg kg ⁻¹	U	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	1,1,2,2-Tetrachloroethane	79345	µg kg ⁻¹	N	<10	<10	<10	<10	<10	<10	<10	<10
2800	Naphthalene	91203	mg kg ⁻¹	M				<0.1				
	Acenaphthylene	208968	mg kg ⁻¹	N				<0.1				
	Acenaphthene	83329	mg kg ⁻¹	M				<0.1				
	Fluorene	86737	mg kg ⁻¹	M				<0.1				
	Phenanthrene	85018	mg kg ⁻¹	M				<0.1				
	Anthracene	120127	mg kg ⁻¹	M				<0.1				
	Fluoranthene	206440	mg kg ⁻¹	M				<0.1				
	Pyrene	129000	mg kg ⁻¹	M				<0.1				
	Benzo[a]anthracene	56553	mg kg ⁻¹	M				<0.1				
	Chrysene	218019	mg kg ⁻¹	M				<0.1				
	Benzo[b]fluoranthene	205992	mg kg ⁻¹	M				<0.1				
	Benzo[k]fluoranthene	207089	mg kg ⁻¹	N				<0.1				
	Benzo[a]pyrene	50328	mg kg ⁻¹	M				<0.1				
	Dibenzo[a,h]anthracene	53703	mg kg ⁻¹	N				<0.1				
	Indeno[1,2,3-cd]pyrene	193395	mg kg ⁻¹	M				<0.1				
	Benzo[g,h,i]perylene	191242	mg kg ⁻¹	M				<0.1				
	Total (of 16) PAHs		mg kg ⁻¹	N				<2				
2920	Catechols		mg kg ⁻¹	N	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Phenol	108952	mg kg ⁻¹	M	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Cresols		mg kg ⁻¹	N	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Xylenols		mg kg ⁻¹	N	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Naphthols		mg kg ⁻¹	N	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Trimethyl phenols		mg kg ⁻¹	N	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Phenols (total)		mg kg ⁻¹	N	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
2030	Moisture		%	n/a	43.8	20.9	17.7	2.34	28	19.4	16	16.5
	Stones content (>50mm)		%	n/a	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
2140	Soil colour			n/a	brown	brown	brown	brown	brown	brown	brown	brown
	Soil texture			n/a	clay	clay	clay	sand	sand	clay	clay	clay

All tests undertaken between 25-May-2011 and 3-Jun-2011

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Column page 1

Report page 3 of 4

Report sample ID range AG07423 to AG07463

LABORATORY TEST REPORT

Report Date
09 June 2011

Results of analysis of 41 samples
received 25 May 2011

Coed Darcy Sludge Remediation - C1434

					59090							
					AG07431	AG07432	AG07433	AG07434	AG07435	AG07436	AG07437	AG07438
					EBV	EBV	EBV	EBV	EBV	EBV	EBV	EBV
					11	12	13	14	15	16	17	18
					23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011
					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
2760	o-Xylene	95476	µg kg ⁻¹	U	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	1,1,2,2-Tetrachloroethane	79345	µg kg ⁻¹	N	<10	<10	<10	<10	<10	<10	<10	<10
2800	Naphthalene	91203	mg kg ⁻¹	M								
	Acenaphthylene	208968	mg kg ⁻¹	N								
	Acenaphthene	83329	mg kg ⁻¹	M								
	Fluorene	86737	mg kg ⁻¹	M								
	Phenanthrene	85018	mg kg ⁻¹	M								
	Anthracene	120127	mg kg ⁻¹	M								
	Fluoranthene	206440	mg kg ⁻¹	M								
	Pyrene	129000	mg kg ⁻¹	M								
	Benzo[a]anthracene	56553	mg kg ⁻¹	M								
	Chrysene	218019	mg kg ⁻¹	M								
	Benzo[b]fluoranthene	205992	mg kg ⁻¹	M								
	Benzo[k]fluoranthene	207089	mg kg ⁻¹	N								
	Benzo[a]pyrene	50328	mg kg ⁻¹	M								
	Dibenzo[a,h]anthracene	53703	mg kg ⁻¹	N								
	Indeno[1,2,3-cd]pyrene	193395	mg kg ⁻¹	M								
	Benzo[g,h,i]perylene	191242	mg kg ⁻¹	M								
	Total (of 16) PAHs		mg kg ⁻¹	N								
2920	Catechols		mg kg ⁻¹	N	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Phenol	108952	mg kg ⁻¹	M	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Cresols		mg kg ⁻¹	N	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Xylenols		mg kg ⁻¹	N	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Naphthols		mg kg ⁻¹	N	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Trimethyl phenols		mg kg ⁻¹	N	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Phenols (total)		mg kg ⁻¹	N	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
2030	Moisture		%	n/a	16.1	19.7	17.7	17.9	20.7	20.7	17.1	20.9
	Stones content (>50mm)		%	n/a	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
2140	Soil colour			n/a	brown	brown	brown	brown	brown	brown	brown	brown
	Soil texture			n/a	clay	clay	clay	clay	clay	clay	clay	sand

All tests undertaken between 25-May-2011 and 3-Jun-2011

Column page 2

Report page 3 of 4

This report should be interpreted in conjunction with the notes on the accompanying cover page

Report sample ID range AG07423 to AG07463

LABORATORY TEST REPORT

Results of analysis of 41 samples
received 25 May 2011

Report Date
09 June 2011

Coed Darcy Sludge Remediation - C1434

					59090							
					AG07439	AG07440	AG07441	AG07442	AG07443	AG07444	AG07445	AG07446
					EBV	EBV	EBV	EBV	EBV	EBV	EBV	EBV
					19	20	21	22	23	24	25	26
					23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011
					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
2760	o-Xylene	95476	µg kg ⁻¹	U	<1.0	<1.0	<1.0	<1.0	<1.0	3.3	<1.0	<1.0
	1,1,2,2-Tetrachloroethane	79345	µg kg ⁻¹	N	<10	<10	<10	<10	<10	<10	<10	<10
2800	Naphthalene	91203	mg kg ⁻¹	M								
	Acenaphthylene	208968	mg kg ⁻¹	N								
	Acenaphthene	83329	mg kg ⁻¹	M								
	Fluorene	86737	mg kg ⁻¹	M								
	Phenanthrene	85018	mg kg ⁻¹	M								
	Anthracene	120127	mg kg ⁻¹	M								
	Fluoranthene	206440	mg kg ⁻¹	M								
	Pyrene	129000	mg kg ⁻¹	M								
	Benzo[a]anthracene	56553	mg kg ⁻¹	M								
	Chrysene	218019	mg kg ⁻¹	M								
	Benzo[b]fluoranthene	205992	mg kg ⁻¹	M								
	Benzo[k]fluoranthene	207089	mg kg ⁻¹	N								
	Benzo[a]pyrene	50328	mg kg ⁻¹	M								
	Dibenzo[a,h]anthracene	53703	mg kg ⁻¹	N								
	Indeno[1,2,3-cd]pyrene	193395	mg kg ⁻¹	M								
	Benzo[g,h,i]perylene	191242	mg kg ⁻¹	M								
	Total (of 16) PAHs		mg kg ⁻¹	N								
2920	Catechols		mg kg ⁻¹	N	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Phenol	108952	mg kg ⁻¹	M	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Cresols		mg kg ⁻¹	N	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Xylenols		mg kg ⁻¹	N	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Naphthols		mg kg ⁻¹	N	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Trimethyl phenols		mg kg ⁻¹	N	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Phenols (total)		mg kg ⁻¹	N	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
2030	Moisture		%	n/a	22	17.2	23.9	27.2	31.2	36	20.2	16.1
	Stones content (>50mm)		%	n/a	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
2140	Soil colour			n/a	brown	brown	brown	brown	brown	brown	brown	brown
	Soil texture			n/a	clay	clay	clay	clay	clay	clay	clay	sand

All tests undertaken between 25-May-2011 and 3-Jun-2011

Column page 3

Report page 3 of 4

This report should be interpreted in conjunction with the notes on the accompanying cover page

Report sample ID range AG07423 to AG07463

LABORATORY TEST REPORT

Results of analysis of 41 samples
received 25 May 2011

Report Date
09 June 2011

Coed Darcy Sludge Remediation - C1434

					59090							
					AG07447	AG07448	AG07449	AG07450	AG07451	AG07452	AG07453	AG07454
					EBV	EBV	EBV	EBV	EBV	EBV	EBV	EBV
					27	28	29	30	31	32	33	34
					23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011
					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
2760	o-Xylene	95476	µg kg ⁻¹	U	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	1,1,2,2-Tetrachloroethane	79345	µg kg ⁻¹	N	<10	<10	<10	<10	<10	<10	<10	<10
2800	Naphthalene	91203	mg kg ⁻¹	M		<0.1						
	Acenaphthylene	208968	mg kg ⁻¹	N		#VALUE!						
	Acenaphthene	83329	mg kg ⁻¹	M		<0.1						
	Fluorene	86737	mg kg ⁻¹	M		1.3						
	Phenanthrene	85018	mg kg ⁻¹	M		0.7						
	Anthracene	120127	mg kg ⁻¹	M		<0.1						
	Fluoranthene	206440	mg kg ⁻¹	M		<0.1						
	Pyrene	129000	mg kg ⁻¹	M		0.3						
	Benzo[a]anthracene	56553	mg kg ⁻¹	M		<0.1						
	Chrysene	218019	mg kg ⁻¹	M		0.1						
	Benzo[b]fluoranthene	205992	mg kg ⁻¹	M		<0.1						
	Benzo[k]fluoranthene	207089	mg kg ⁻¹	N		<0.1						
	Benzo[a]pyrene	50328	mg kg ⁻¹	M		0.1						
	Dibenzo[a,h]anthracene	53703	mg kg ⁻¹	N		<0.1						
	Indeno[1,2,3-cd]pyrene	193395	mg kg ⁻¹	M		<0.1						
	Benzo[g,h,i]perylene	191242	mg kg ⁻¹	M		<0.1						
	Total (of 16) PAHs		mg kg ⁻¹	N		2.5						
2920	Catechols		mg kg ⁻¹	N	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Phenol	108952	mg kg ⁻¹	M	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Cresols		mg kg ⁻¹	N	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Xylenols		mg kg ⁻¹	N	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Naphthols		mg kg ⁻¹	N	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Trimethyl phenols		mg kg ⁻¹	N	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Phenols (total)		mg kg ⁻¹	N	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
2030	Moisture		%	n/a	14.2	21.8	18.3	31.2	16.9	40.9	23.8	18.2
	Stones content (>50mm)		%	n/a	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
2140	Soil colour			n/a	brown	brown	brown	brown	brown	brown	brown	brown
	Soil texture			n/a	sand	sand	sand	clay	sand	sand	clay	clay

All tests undertaken between 25-May-2011 and 3-Jun-2011

Column page 4

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This report should be interpreted in conjunction with the notes on the accompanying cover page

Report sample ID range AG07423 to AG07463

LABORATORY TEST REPORT

Results of analysis of 41 samples
received 25 May 2011

Report Date
09 June 2011

Coed Darcy Sludge Remediation - C1434

					59090							
					AG07455	AG07456	AG07457	AG07458	AG07459	AG07460	AG07461	AG07462
					EBV	EBV	EBV	EBV	EBV	EBV	EBV	EBV
					35	36	37	38	39	40	41	42
					23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011
					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
2760	o-Xylene	95476	µg kg ⁻¹	U	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	1,1,2,2-Tetrachloroethane	79345	µg kg ⁻¹	N	<10	<10	<10	<10	<10	<10	<10	<10
2800	Naphthalene	91203	mg kg ⁻¹	M								0.2
	Acenaphthylene	208968	mg kg ⁻¹	N								<0.1
	Acenaphthene	83329	mg kg ⁻¹	M								<0.1
	Fluorene	86737	mg kg ⁻¹	M								0.2
	Phenanthrene	85018	mg kg ⁻¹	M								2
	Anthracene	120127	mg kg ⁻¹	M								0.3
	Fluoranthene	206440	mg kg ⁻¹	M								1.6
	Pyrene	129000	mg kg ⁻¹	M								4.5
	Benzo[a]anthracene	56553	mg kg ⁻¹	M								3.8
	Chrysene	218019	mg kg ⁻¹	M								3.7
	Benzo[b]fluoranthene	205992	mg kg ⁻¹	M								<0.1
	Benzo[k]fluoranthene	207089	mg kg ⁻¹	N								<0.1
	Benzo[a]pyrene	50328	mg kg ⁻¹	M								1.6
	Dibenzo[a,h]anthracene	53703	mg kg ⁻¹	N								<0.1
	Indeno[1,2,3-cd]pyrene	193395	mg kg ⁻¹	M								0.3
	Benzo[g,h,i]perylene	191242	mg kg ⁻¹	M								0.6
	Total (of 16) PAHs		mg kg ⁻¹	N								19
2920	Catechols		mg kg ⁻¹	N	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Phenol	108952	mg kg ⁻¹	M	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Cresols		mg kg ⁻¹	N	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Xylenols		mg kg ⁻¹	N	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Naphthols		mg kg ⁻¹	N	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Trimethyl phenols		mg kg ⁻¹	N	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Phenols (total)		mg kg ⁻¹	N	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
2030	Moisture		%	n/a	13.8	22.2	15.9	15.2	17.6	18.7	20.5	42.2
	Stones content (>50mm)		%	n/a	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
2140	Soil colour			n/a	brown	brown	brown	brown	brown	brown	brown	brown
	Soil texture			n/a	sand	clay	clay	clay	clay	clay	clay	sand

All tests undertaken between 25-May-2011 and 3-Jun-2011

Column page 5

Report page 3 of 4

This report should be interpreted in conjunction with the notes on the accompanying cover page

Report sample ID range AG07423 to AG07463

LABORATORY TEST REPORT

Results of analysis of 41 samples
received 25 May 2011

FAO J Hearing

Coed Darcy Sludge Remediation - C1434

					59090
					AG07463
					EBV
					43
					23/5/2011
					SOIL
2760	o-Xylene	95476	µg kg ⁻¹	U	<1.0
	1,1,2,2-Tetrachloroethane	79345	µg kg ⁻¹	N	<10
2800	Naphthalene	91203	mg kg ⁻¹	M	2.9
	Acenaphthylene	208968	mg kg ⁻¹	N	<0.1
	Acenaphthene	83329	mg kg ⁻¹	M	<0.1
	Fluorene	86737	mg kg ⁻¹	M	7.3
	Phenanthrene	85018	mg kg ⁻¹	M	26
	Anthracene	120127	mg kg ⁻¹	M	3.3
	Fluoranthene	206440	mg kg ⁻¹	M	6
	Pyrene	129000	mg kg ⁻¹	M	11
	Benzo[a]anthracene	56553	mg kg ⁻¹	M	7.5
	Chrysene	218019	mg kg ⁻¹	M	8.6
	Benzo[b]fluoranthene	205992	mg kg ⁻¹	M	<0.1
	Benzo[k]fluoranthene	207089	mg kg ⁻¹	N	<0.1
	Benzo[a]pyrene	50328	mg kg ⁻¹	M	3.3
	Dibenzo[a,h]anthracene	53703	mg kg ⁻¹	N	<0.1
	Indeno[1,2,3-cd]pyrene	193395	mg kg ⁻¹	M	0.6
	Benzo[g,h,i]perylene	191242	mg kg ⁻¹	M	0.6
	Total (of 16) PAHs		mg kg ⁻¹	N	77
2920	Catechols		mg kg ⁻¹	N	<0.05
	Phenol	108952	mg kg ⁻¹	M	<0.05
	Cresols		mg kg ⁻¹	N	<0.05
	Xylenols		mg kg ⁻¹	N	<0.05
	Naphthols		mg kg ⁻¹	N	<0.05
	Trimethyl phenols		mg kg ⁻¹	N	<0.05
	Phenols (total)		mg kg ⁻¹	N	<0.3
2030	Moisture		%	n/a	26.3
	Stones content (>50mm)		%	n/a	<0.02
2140	Soil colour			n/a	brown
	Soil texture			n/a	sand

All tests undertaken between 25-May-2011 and 3-Jun-2011

This report should be interpreted in conjunction with the notes on the accompanying cover page

Column page 6

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Report sample ID range AG07423 to AG07463

Celtic
Columbus House
Greenmeadow Springs, Tongwynlais
Cardiff
CF15 7NE
FAO J Hearing

LABORATORY TEST REPORT

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Coed Darcy Sludge Remediation - C1434



Report Date
09 June 2011

59090							
AG07423	AG07424	AG07425	AG07426	AG07427	AG07428	AG07429	AG07430
EBV	EBV	EBV	EBV	EBV	EBV	EBV	EBV
3	4	5	6	7	8	9	10
23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011
SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
2140	Other material		n/a	none	none	none	none
				stones	stones	none	none

Celtic
Columbus House
Greenmeadow Springs, Tongwynlais
Cardiff
CF15 7NE
FAO J Hearing

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Coed Darcy Sludge Remediation - C1434



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				59090							
				AG07431	AG07432	AG07433	AG07434	AG07435	AG07436	AG07437	AG07438
				EBV	EBV	EBV	EBV	EBV	EBV	EBV	EBV
				11	12	13	14	15	16	17	18
				23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011
				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
2140	Other material		n/a	none	none	none	none	none	none	none	stones

Celtic
Columbus House
Greenmeadow Springs, Tongwynlais
Cardiff
CF15 7NE
FAO J Hearing

LABORATORY TEST REPORT

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Coed Darcy Sludge Remediation - C1434



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				59090							
				AG07439	AG07440	AG07441	AG07442	AG07443	AG07444	AG07445	AG07446
				EBV	EBV	EBV	EBV	EBV	EBV	EBV	EBV
				19	20	21	22	23	24	25	26
				23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011
				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
2140	Other material		n/a	none	none	none	none	none	none	none	stones

Celtic
Columbus House
Greenmeadow Springs, Tongwynlais
Cardiff
CF15 7NE
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Coed Darcy Sludge Remediation - C1434



Report Date
09 June 2011

				59090							
				AG07447	AG07448	AG07449	AG07450	AG07451	AG07452	AG07453	AG07454
				EBV	EBV	EBV	EBV	EBV	EBV	EBV	EBV
				27	28	29	30	31	32	33	34
				23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011
				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
2140	Other material		n/a	stones	stones	stones	none	stones	stones	none	none

Celtic
Columbus House
Greenmeadow Springs, Tongwynlais
Cardiff
CF15 7NE
FAO J Hearing

LABORATORY TEST REPORT

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Report Date
09 June 2011

Coed Darcy Sludge Remediation - C1434

				59090							
				AG07455	AG07456	AG07457	AG07458	AG07459	AG07460	AG07461	AG07462
				EBV	EBV	EBV	EBV	EBV	EBV	EBV	EBV
				35	36	37	38	39	40	41	42
				23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011	23/5/2011
				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
2140	Other material		n/a	stones	none	none	none	none	none	none	stones

Celtic
Columbus House
Greenmeadow Springs, Tongwynlais
Cardiff
CF15 7NE
FAO J Hearing

LABORATORY TEST REPORT

Results of analysis of 41 samples
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Coed Darcy Sludge Remediation - C1434



Report Date
09 June 2011

					59090
					AG07463
					EBV
					43
					23/5/2011
					SOIL
2140	Other material			n/a	stones

Celtic
Columbus House
Greenmeadow Springs, Tongwynlais
Cardiff
CF15 7NE
FAO J Hearing

LABORATORY TEST REPORT

Results of analysis of 1 sample
received 26 April 2011



Report Date
21 July 2011

C1434 - Coed Darcy Sludge Remediation

Login Batch No

Chemtest LIMS ID

Sample ID

Sample No

Sampling Date

Depth

Matrix

SOP↓	Determinand↓	CAS No↓	Units↓	*	
2450	Arsenic	7440382	mg kg ⁻¹	M	3.7
	Cadmium	7440439	mg kg ⁻¹	M	<0.10
	Chromium	7440473	mg kg ⁻¹	M	25
	Copper	7440508	mg kg ⁻¹	M	12
	Mercury	7439976	mg kg ⁻¹	M	<0.10
	Nickel	7440020	mg kg ⁻¹	M	26
	Lead	7439921	mg kg ⁻¹	M	20
	Selenium	7782492	mg kg ⁻¹	M	<0.20
	Vanadium	7440622	mg kg ⁻¹	M	17
	Zinc	7440666	mg kg ⁻¹	M	44
2675	TPH aliphatic >C5-C6		mg kg ⁻¹	N	< 0.1
	TPH aliphatic >C6-C8		mg kg ⁻¹	N	< 0.1
	TPH aliphatic >C8-C10		mg kg ⁻¹	N	< 0.1
	TPH aliphatic >C10-C12		mg kg ⁻¹	N	< 0.1
	TPH aliphatic >C12-C16		mg kg ⁻¹	N	< 0.1
	TPH aliphatic >C16-C21		mg kg ⁻¹	N	< 0.1
	TPH aliphatic >C21-C35		mg kg ⁻¹	N	< 0.1
	TPH aliphatic >C35-C44		mg kg ⁻¹	N	< 0.1
	TPH aromatic >C5-C7		mg kg ⁻¹	N	< 0.1
	TPH aromatic >C7-C8		mg kg ⁻¹	N	< 0.1
	TPH aromatic >C8-C10		mg kg ⁻¹	N	< 0.1
	TPH aromatic >C10-C12		mg kg ⁻¹	N	< 0.1
	TPH aromatic >C12-C16		mg kg ⁻¹	N	< 0.1
	TPH aromatic >C16-C21		mg kg ⁻¹	N	< 0.1
	TPH aromatic >C21-C35		mg kg ⁻¹	N	< 0.1
	TPH aromatic >C35-C44		mg kg ⁻¹	N	< 0.1
	Total Petroleum Hydrocarbons		mg kg ⁻¹	N	< 2

All tests undertaken between 27/04/2011 and 05/05/2011

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page.

Column page 1

Report page 1 of 5

LIMS sample ID range AF98675 to AF98675

LABORATORY TEST REPORT

Results of analysis of 1 sample
received 26 April 2011

Report Date
21 July 2011

C1434 - Coed Darcy Sludge Remediation

					123444
					AF98675
					EBV1
					20/04/2011
					0.1m
					SOIL
2700	Naphthalene	91203	mg kg ⁻¹	M	< 0.1
	Acenaphthylene	208968	mg kg ⁻¹	M	< 0.1
	Acenaphthene	83329	mg kg ⁻¹	M	< 0.1
	Fluorene	86737	mg kg ⁻¹	M	< 0.1
	Phenanthrene	85018	mg kg ⁻¹	M	< 0.1
	Anthracene	120127	mg kg ⁻¹	M	< 0.1
	Fluoranthene	206440	mg kg ⁻¹	M	< 0.1
	Pyrene	129000	mg kg ⁻¹	M	< 0.1
	Benzo[a]anthracene	56553	mg kg ⁻¹	M	< 0.1
	Chrysene	218019	mg kg ⁻¹	M	< 0.1
	Benzo[b]fluoranthene	205992	mg kg ⁻¹	M	< 0.1
	Benzo[k]fluoranthene	207089	mg kg ⁻¹	M	< 0.1
	Benzo[a]pyrene	50328	mg kg ⁻¹	M	< 0.1
	Dibenzo[a,h]anthracene	53703	mg kg ⁻¹	M	< 0.1
	Indeno[1,2,3-cd]pyrene	193395	mg kg ⁻¹	M	< 0.1
	Benzo[g,h,i]perylene	191242	mg kg ⁻¹	M	< 0.1
	Total (of 16) PAHs		mg kg ⁻¹	M	< 2
2760	Methyl tert-butyl ether	1634044	µg kg ⁻¹	N	<1.0
	Dichlorodifluoromethane	75718	µg kg ⁻¹	U	<1.0
	Chloromethane	74873	µg kg ⁻¹	M	<1.0
	Vinyl chloride	75014	µg kg ⁻¹	M	<1.0
	Bromomethane	74839	µg kg ⁻¹	U	<20
	Chloroethane	75003	µg kg ⁻¹	U	<2.0
	Trichlorofluoromethane	75694	µg kg ⁻¹	U	<1.0
	1,1-Dichloroethene	75354	µg kg ⁻¹	U	<1.0
	Dichloromethane	75092	µg kg ⁻¹	N	ne
	trans-1,2-Dichloroethene	156605	µg kg ⁻¹	U	<1.0
	1,1-Dichloroethane	75343	µg kg ⁻¹	M	<1.0

All tests undertaken between 27/04/2011 and 05/05/2011

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page.

Column page 1

Report page 2 of 5

LIMS sample ID range AF98675 to AF98675

LABORATORY TEST REPORT

Results of analysis of 1 sample
received 26 April 2011

Report Date
21 July 2011

C1434 - Coed Darcy Sludge Remediation

					123444
					AF98675
					EBV1
					20/04/2011
					0.1m
					SOIL
2760	cis-1,2-Dichloroethene	156592	µg kg ⁻¹	M	<1.0
	Bromochloromethane	74975	µg kg ⁻¹	U	<1.0
	Trichloromethane	67663	µg kg ⁻¹	M	<1.0
	1,1,1-Trichloroethane	71556	µg kg ⁻¹	M	<1.0
	Tetrachloromethane	56235	µg kg ⁻¹	M	<1.0
	1,1-Dichloropropene	563586	µg kg ⁻¹	U	<1.0
	Benzene	71432	µg kg ⁻¹	M	<1.0
	1,2-Dichloroethane	107062	µg kg ⁻¹	U	<2.0
	Trichloroethene	79016	µg kg ⁻¹	U	<1.0
	1,2-Dichloropropane	78875	µg kg ⁻¹	U	<1.0
	Dibromomethane	74953	µg kg ⁻¹	U	<10
	Bromodichloromethane	75274	µg kg ⁻¹	U	<5.0
	cis-1,3-Dichloropropene	10061015	µg kg ⁻¹	N	<10
	Toluene	108883	µg kg ⁻¹	M	<1.0
	trans-1,3-Dichloropropene	10061026	µg kg ⁻¹	N	<10
	1,1,2-Trichloroethane	79005	µg kg ⁻¹	U	<10
	Tetrachloroethene	127184	µg kg ⁻¹	M	<1.0
	1,3-Dichloropropane	142289	µg kg ⁻¹	U	<2.0
	Dibromochloromethane	124481	µg kg ⁻¹	U	<10
	1,2-Dibromoethane	106934	µg kg ⁻¹	U	<5.0
	Chlorobenzene	108907	µg kg ⁻¹	M	<1.0
	1,1,1,2-Tetrachloroethane	630206	µg kg ⁻¹	M	<2.0
	Ethylbenzene	100414	µg kg ⁻¹	M	<1.0
	m- & p-Xylene	1330207	µg kg ⁻¹	U	<1.0
	o-Xylene	95476	µg kg ⁻¹	U	<1.0
	Styrene	100425	µg kg ⁻¹	U	<1.0
	Tribromomethane	75252	µg kg ⁻¹	U	<10
	Isopropylbenzene	98828	µg kg ⁻¹	U	<1.0

All tests undertaken between 27/04/2011 and 05/05/2011

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page.

Column page 1

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LIMS sample ID range AF98675 to AF98675

LABORATORY TEST REPORT

Results of analysis of 1 sample
received 26 April 2011

Report Date
21 July 2011

C1434 - Coed Darcy Sludge Remediation

					123444
					AF98675
					EBV1
					20/04/2011
					0.1m
					SOIL
2760	Bromobenzene	108861	µg kg ⁻¹	U	<1.0
	1,1,2,2-Tetrachloroethane	79345	µg kg ⁻¹	N	<10
	1,2,3-Trichloropropane	96184	µg kg ⁻¹	N	<50
	n-Propylbenzene	103651	µg kg ⁻¹	U	<1.0
	2-Chlorotoluene	95498	µg kg ⁻¹	M	<1.0
	1,2,4-Trimethylbenzene	95636	µg kg ⁻¹	U	<1.0
	4-Chlorotoluene	106434	µg kg ⁻¹	U	<1.0
	tert-Butylbenzene	98066	µg kg ⁻¹	U	<1.0
	1,3,5-Trimethylbenzene	108678	µg kg ⁻¹	U	<1.0
	sec-Butylbenzene	135988	µg kg ⁻¹	U	<1.0
	1,3-Dichlorobenzene	541731	µg kg ⁻¹	U	<1.0
	4-Isopropyltoluene	99876	µg kg ⁻¹	U	<1.0
	1,4-Dichlorobenzene	106467	µg kg ⁻¹	U	<1.0
	n-Butylbenzene	104518	µg kg ⁻¹	U	<1.0
	1,2-Dichlorobenzene	95501	µg kg ⁻¹	U	<1.0
	1,2-Dibromo-3-chloropropane	96128	µg kg ⁻¹	U	<50
	1,2,4-Trichlorobenzene	120821	µg kg ⁻¹	U	<1.0
	Hexachlorobutadiene	87683	µg kg ⁻¹	U	<1.0
	1,2,3-Trichlorobenzene	87616	µg kg ⁻¹	U	<2.0
2762	Tentatively Identified Compounds		µg kg ⁻¹		None Detected
2920	Catechols		mg kg ⁻¹	N	<0.05
	Phenol	108952	mg kg ⁻¹	M	<0.05
	Cresols		mg kg ⁻¹	N	<0.05
	Xylenols		mg kg ⁻¹	N	<0.05
	Naphthols		mg kg ⁻¹	N	<0.05
	Trimethyl phenols		mg kg ⁻¹	N	<0.05
	Phenols (total)		mg kg ⁻¹	N	<0.3
2030	Moisture		%	n/a	13.7

All tests undertaken between 27/04/2011 and 05/05/2011

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page.

Column page 1

Report page 4 of 5

LIMS sample ID range AF98675 to AF98675

Celtic
Columbus House
Greenmeadow Springs, Tongwynlais
Cardiff
CF15 7NE
FAO J Hearing

LABORATORY TEST REPORT

Results of analysis of 1 sample
received 26 April 2011



Report Date
21 July 2011

C1434 - Coed Darcy Sludge Remediation

					123444
					AF98675
					EBV1
					20/04/2011
					0.1m
					SOIL
2030	Stones content (>50mm)		%	n/a	<0.02
2140	Soil colour			n/a	brown
	Soil texture			n/a	sand
	Other material			n/a	stones

All tests undertaken between 27/04/2011 and 05/05/2011

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page.

Column page 1

Report page 5 of 5

LIMS sample ID range AF98675 to AF98675

Celtic
Columbus House
Greenmeadow Springs, Tongwynlais
Cardiff
CF15 7NE
FAO J Hearing / Neil Hopkins

LABORATORY TEST REPORT

Results of analysis of 2 samples
received 27 April 2011



Report Date
21 July 2011

Coed Darcy Sludge Remediation - C1434

Login Batch No

Chemtest LIMS ID

Sample ID

Sample No

Sampling Date

Depth

Matrix

SOP↓	Determinand↓	CAS No↓	Units↓	*	
2450	Arsenic	7440382	mg kg ⁻¹	M	13
	Cadmium	7440439	mg kg ⁻¹	M	<0.10
	Chromium	7440473	mg kg ⁻¹	M	20
	Copper	7440508	mg kg ⁻¹	M	<5.0
	Mercury	7439976	mg kg ⁻¹	M	<0.10
	Nickel	7440020	mg kg ⁻¹	M	13
	Lead	7439921	mg kg ⁻¹	M	13
	Selenium	7782492	mg kg ⁻¹	M	<0.20
	Vanadium	7440622	mg kg ⁻¹	M	29
	Zinc	7440666	mg kg ⁻¹	M	27
2675	TPH aliphatic >C5-C6		mg kg ⁻¹	N	< 0.1
	TPH aliphatic >C6-C8		mg kg ⁻¹	N	< 0.1
	TPH aliphatic >C8-C10		mg kg ⁻¹	N	< 0.1
	TPH aliphatic >C10-C12		mg kg ⁻¹	N	< 0.1
	TPH aliphatic >C12-C16		mg kg ⁻¹	N	< 0.1
	TPH aliphatic >C16-C21		mg kg ⁻¹	N	< 0.1
	TPH aliphatic >C21-C35		mg kg ⁻¹	N	< 0.1
	TPH aliphatic >C35-C44		mg kg ⁻¹	N	< 0.1
	TPH aromatic >C5-C7		mg kg ⁻¹	N	< 0.1
	TPH aromatic >C7-C8		mg kg ⁻¹	N	< 0.1
	TPH aromatic >C8-C10		mg kg ⁻¹	N	< 0.1
	TPH aromatic >C10-C12		mg kg ⁻¹	N	< 0.1
	TPH aromatic >C12-C16		mg kg ⁻¹	N	< 0.1
	TPH aromatic >C16-C21		mg kg ⁻¹	N	< 0.1
	TPH aromatic >C21-C35		mg kg ⁻¹	N	< 0.1
	TPH aromatic >C35-C44		mg kg ⁻¹	N	< 0.1
	Total Petroleum Hydrocarbons		mg kg ⁻¹	N	< 2

All tests undertaken between 27/04/2011 and 09/05/2011

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page.

Column page 1

Report page 1 of 8

LIMS sample ID range AF99208 to AF99209

Celtic
Columbus House
Greenmeadow Springs, Tongwynlais
Cardiff
CF15 7NE

LABORATORY TEST REPORT

Results of analysis of 2 samples
received 27 April 2011



Report Date
21 July 2011

FAO J Hearing / Neil Hopkins

Coed Darcy Sludge Remediation - C1434

					58862
					AF99208
					EBV2
					26/04/2011
					SOIL
2700	Naphthalene	91203	mg kg ⁻¹	M	< 0.1
	Acenaphthylene	208968	mg kg ⁻¹	M	< 0.1
	Acenaphthene	83329	mg kg ⁻¹	M	< 0.1
	Fluorene	86737	mg kg ⁻¹	M	< 0.1
	Phenanthrene	85018	mg kg ⁻¹	M	< 0.1
	Anthracene	120127	mg kg ⁻¹	M	< 0.1
	Fluoranthene	206440	mg kg ⁻¹	M	< 0.1
	Pyrene	129000	mg kg ⁻¹	M	< 0.1
	Benzo[a]anthracene	56553	mg kg ⁻¹	M	< 0.1
	Chrysene	218019	mg kg ⁻¹	M	< 0.1
	Benzo[b]fluoranthene	205992	mg kg ⁻¹	M	< 0.1
	Benzo[k]fluoranthene	207089	mg kg ⁻¹	M	< 0.1
	Benzo[a]pyrene	50328	mg kg ⁻¹	M	< 0.1
	Dibenzo[a,h]anthracene	53703	mg kg ⁻¹	M	< 0.1
	Indeno[1,2,3-cd]pyrene	193395	mg kg ⁻¹	M	< 0.1
	Benzo[g,h,i]perylene	191242	mg kg ⁻¹	M	< 0.1
	Total (of 16) PAHs		mg kg ⁻¹	M	< 2
2760	Methyl tert-butyl ether	1634044	µg kg ⁻¹	N	<1.0
	Dichlorodifluoromethane	75718	µg kg ⁻¹	U	<1.0
	Chloromethane	74873	µg kg ⁻¹	M	<1.0
	Vinyl chloride	75014	µg kg ⁻¹	M	<1.0
	Bromomethane	74839	µg kg ⁻¹	U	<20
	Chloroethane	75003	µg kg ⁻¹	U	<2.0
	Trichlorofluoromethane	75694	µg kg ⁻¹	U	<1.0
	1,1-Dichloroethene	75354	µg kg ⁻¹	U	<1.0
	Dichloromethane	75092	µg kg ⁻¹	N	ne
	trans-1,2-Dichloroethene	156605	µg kg ⁻¹	U	<1.0
	1,1-Dichloroethane	75343	µg kg ⁻¹	M	<1.0

All tests undertaken between 27/04/2011 and 09/05/2011

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page.

Column page 1

Report page 2 of 8

LIMS sample ID range AF99208 to AF99209

LABORATORY TEST REPORT

Results of analysis of 2 samples
received 27 April 2011

Report Date
21 July 2011

FAO J Hearing / Neil Hopkins

Coed Darcy Sludge Remediation - C1434

58862					
AF99208					
EBV2					
26/04/2011					
SOIL					
2760	cis-1,2-Dichloroethene	156592	µg kg ⁻¹	M	<1.0
	Bromochloromethane	74975	µg kg ⁻¹	U	<1.0
	Trichloromethane	67663	µg kg ⁻¹	M	<1.0
	1,1,1-Trichloroethane	71556	µg kg ⁻¹	M	<1.0
	Tetrachloromethane	56235	µg kg ⁻¹	M	<1.0
	1,1-Dichloropropene	563586	µg kg ⁻¹	U	<1.0
	Benzene	71432	µg kg ⁻¹	M	<1.0
	1,2-Dichloroethane	107062	µg kg ⁻¹	U	<2.0
	Trichloroethene	79016	µg kg ⁻¹	U	<1.0
	1,2-Dichloropropane	78875	µg kg ⁻¹	U	<1.0
	Dibromomethane	74953	µg kg ⁻¹	U	<10
	Bromodichloromethane	75274	µg kg ⁻¹	U	<5.0
	cis-1,3-Dichloropropene	10061015	µg kg ⁻¹	N	<10
	Toluene	108883	µg kg ⁻¹	M	<1.0
	trans-1,3-Dichloropropene	10061026	µg kg ⁻¹	N	<10
	1,1,2-Trichloroethane	79005	µg kg ⁻¹	U	<10
	Tetrachloroethene	127184	µg kg ⁻¹	M	<1.0
	1,3-Dichloropropane	142289	µg kg ⁻¹	U	<2.0
	Dibromochloromethane	124481	µg kg ⁻¹	U	<10
	1,2-Dibromoethane	106934	µg kg ⁻¹	U	<5.0
	Chlorobenzene	108907	µg kg ⁻¹	M	<1.0
	1,1,1,2-Tetrachloroethane	630206	µg kg ⁻¹	M	<2.0
	Ethylbenzene	100414	µg kg ⁻¹	M	<1.0
	m- & p-Xylene	1330207	µg kg ⁻¹	U	<1.0
	o-Xylene	95476	µg kg ⁻¹	U	<1.0
	Styrene	100425	µg kg ⁻¹	U	<1.0
	Tribromomethane	75252	µg kg ⁻¹	U	<10
	Isopropylbenzene	98828	µg kg ⁻¹	U	<1.0

All tests undertaken between 27/04/2011 and 09/05/2011

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page.

Column page 1

Report page 3 of 8

LIMS sample ID range AF99208 to AF99209

LABORATORY TEST REPORT

Results of analysis of 2 samples
received 27 April 2011

Report Date
21 July 2011

Coed Darcy Sludge Remediation - C1434

					58862
					AF99208
					EBV2
					26/04/2011
					SOIL
2760	Bromobenzene	108861	µg kg ⁻¹	U	<1.0
	1,1,2,2-Tetrachloroethane	79345	µg kg ⁻¹	N	ne
	1,2,3-Trichloropropane	96184	µg kg ⁻¹	N	<50
	n-Propylbenzene	103651	µg kg ⁻¹	U	<1.0
	2-Chlorotoluene	95498	µg kg ⁻¹	M	<1.0
	1,2,4-Trimethylbenzene	95636	µg kg ⁻¹	U	<1.0
	4-Chlorotoluene	106434	µg kg ⁻¹	U	<1.0
	tert-Butylbenzene	98066	µg kg ⁻¹	U	<1.0
	1,3,5-Trimethylbenzene	108678	µg kg ⁻¹	U	<1.0
	sec-Butylbenzene	135988	µg kg ⁻¹	U	<1.0
	1,3-Dichlorobenzene	541731	µg kg ⁻¹	U	<1.0
	4-Isopropyltoluene	99876	µg kg ⁻¹	U	<1.0
	1,4-Dichlorobenzene	106467	µg kg ⁻¹	U	<1.0
	n-Butylbenzene	104518	µg kg ⁻¹	U	<1.0
	1,2-Dichlorobenzene	95501	µg kg ⁻¹	U	<1.0
	1,2-Dibromo-3-chloropropane	96128	µg kg ⁻¹	U	<50
	1,2,4-Trichlorobenzene	120821	µg kg ⁻¹	U	<1.0
	Hexachlorobutadiene	87683	µg kg ⁻¹	U	<1.0
	1,2,3-Trichlorobenzene	87616	µg kg ⁻¹	U	<2.0
2762	Tentatively Identified Compounds		µg kg ⁻¹		None Detected
2920	Catechols		mg kg ⁻¹	N	<0.05
	Phenol	108952	mg kg ⁻¹	M	<0.05
	Cresols		mg kg ⁻¹	N	<0.05
	Xylenols		mg kg ⁻¹	N	<0.05
	Naphthols		mg kg ⁻¹	N	<0.05
	Trimethyl phenols		mg kg ⁻¹	N	<0.05
	Phenols (total)		mg kg ⁻¹	N	<0.3
2030	Moisture		%	n/a	17

All tests undertaken between 27/04/2011 and 09/05/2011

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page.

Column page 1

Report page 4 of 8

LIMS sample ID range AF99208 to AF99209

Celtic
Columbus House
Greenmeadow Springs, Tongwynlais
Cardiff
CF15 7NE
FAO J Hearing / Neil Hopkins

LABORATORY TEST REPORT

Results of analysis of 2 samples
received 27 April 2011



Report Date
21 July 2011

Coed Darcy Sludge Remediation - C1434

					58862
					AF99208
					EBV2
					26/04/2011
					SOIL
2030	Stones content (>50mm)		%	n/a	<0.02
2140	Soil colour			n/a	brown
	Soil texture			n/a	clay
	Other material			n/a	roots

All tests undertaken between 27/04/2011 and 09/05/2011

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page.

Column page 1

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LIMS sample ID range AF99208 to AF99209

APPENDIX C4 – TRIAL PIT LOGS

Project No: C1434

Engineer: NH

Easting: 271863.550

Site Location: Coed Darcy Urban Village

Contractor:

Northing: 196673.730

Client: St. Modwen Developments

Plant: DS 220 Excavator

Datum: 29.110m

WATER				SUBSURFACE PROFILE			
Water Strike	PID Results	Olfactory Score	Visual Score	DESCRIPTION OF STRATA	Depth (m bgl)	Legend	Level (m AOD)
	0.0	0	0	MADE GROUND: Firm to stiff medium brown slightly sandy clayey SILT. Very thin (c. 1mm) very light grey precipitate on surface. No visual olfactory evidence of hydrocarbons.	0.10		29.010
		0	0	MADE GROUND: Firm to stiff medium brown slightly sandy clayey SILT. Very thin (c. 1mm) very light grey precipitate on surface. No visual olfactory evidence of hydrocarbons.			
	0.0				1.00		28.110
	0.0	0	0	MADE GROUND: Firm to stiff medium brown slightly sandy clayey SILT. Very thin (c. 1mm) very light grey precipitate on surface. No visual olfactory evidence of hydrocarbons.	1.20		27.910
				End of Trial Pit			

Comments: Groundwater standing at 1.0m after 1 hour.



Width: 1.00m

Length: 2.60m

Project No: C1434

Engineer: NH

Easting: 2721842.72

Site Location: Coed Darcy Urban Village

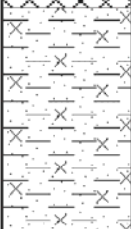
Contractor:

Northing: 196702.020

Client: St. Modwen Developments

Plant: DS 220 Excavator

Datum: 29.240m

WATER				SUBSURFACE PROFILE			
Water Strike	PID Results	Olfactory Score	Visual Score	DESCRIPTION OF STRATA	Depth (m bgl)	Legend	Level (m AOD)
0	0.0	0	0	MADE GROUND: Firm to stiff medium brown slightly sandy clayey SILT. Very thin (c. 1mm) very light grey precipitate on surface. No visual olfactory evidence of hydrocarbons.	0.30		28.940
1.00m	0.0	0	0	MADE GROUND: Firm to stiff medium brown slightly sandy clayey SILT. Very thin (c. 1mm) very light grey precipitate on surface. No visual olfactory evidence of hydrocarbons.	1.10		28.140
				End of Trial Pit			
2							
3							
4							

Comments: Groundwater standing at 1.0m after 1 hour.



Width: 2.00m

Length: 2.00m

Project No: C1434

Engineer: NH

Easting: 271806.930

Site Location: Coed Darcy Urban Village

Contractor:

Northing: 196692.580

Client: St. Modwen Developments

Plant: DS 220 Excavator

Datum: 28.080m

WATER				SUBSURFACE PROFILE			
Water Strike	PID Results	Olfactory Score	Visual Score	DESCRIPTION OF STRATA	Depth (m bgl)	Legend	Level (m AOD)
	0.0	0	0	MADE GROUND: Firm to stiff medium brown slightly sandy clayey SILT. Very thin (c. 1mm) very light grey precipitate on surface. No visual olfactory evidence of hydrocarbons.	0.10		27.980
		0	0	MADE GROUND: Firm to stiff medium brown slightly sandy clayey SILT. Very thin (c. 1mm) very light grey precipitate on surface. No visual olfactory evidence of hydrocarbons.			
	1.00m	0.0		End of Trial Pit	1.00		27.080

Comments: Groundwater standing at 1.0m after 1 hour.



Width: 2.00m

Length: 2.60m

Project No: C1434

Engineer: NH

Easting: 271813.500

Site Location: Coed Darcy Urban Village

Contractor:

Northing: 196665.920

Client: St. Modwen Developments

Plant: DS 220 Excavator

Datum: 27.970m

WATER				SUBSURFACE PROFILE			
Water Strike	PID Results	Olfactory Score	Visual Score	DESCRIPTION OF STRATA	Depth (m bgl)	Legend	Level (m AOD)
	0.0	0	0	MADE GROUND: Firm to stiff medium brown slightly sandy clayey SILT. Very thin (c. 1mm) very light grey precipitate on surface. No visual olfactory evidence of hydrocarbons.	0.10		27.870
	0.0	0	0	MADE GROUND: Firm to stiff medium brown slightly sandy clayey SILT. Very thin (c. 1mm) very light grey precipitate on surface. No visual olfactory evidence of hydrocarbons.			
				MADE GROUND: Firm to stiff medium brown slightly sandy clayey SILT. Very thin (c. 1mm) very light grey precipitate on surface. No visual olfactory evidence of hydrocarbons.	1.00		26.970
	0.0	0	0	MADE GROUND: Firm to stiff medium brown slightly sandy clayey SILT. Very thin (c. 1mm) very light grey precipitate on surface. No visual olfactory evidence of hydrocarbons.	1.20		26.770
				End of Trial Pit			

Comments: Groundwater standind at 1.0m after 1hour.



Width: 2.20m

Length: 2.50m

Project No: C1434

Engineer: NH

Easting: 271842.170

Site Location: Coed Darcy Urban Village

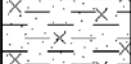
Contractor:

Northing: 196642.550

Client: St. Modwen Developments

Plant: DS 220 Excavator

Datum: 29.290m

WATER				SUBSURFACE PROFILE			
Water Strike	PID Results	Olfactory Score	Visual Score	DESCRIPTION OF STRATA	Depth (m bgl)	Legend	Level (m AOD)
0	0.0	0	0	MADE GROUND: Firm to stiff medium brown slightly sandy clayey SILT. Very thin (c. 1mm) very light grey precipitate on surface. No visual olfactory evidence of hydrocarbons.	0.15		29.140
	0.0	0	0	MADE GROUND: Firm to stiff medium brown slightly sandy clayey SILT. Very thin (c. 1mm) very light grey precipitate on surface. No visual olfactory evidence of hydrocarbons.	0.60		28.690
	0.0	0	0	MADE GROUND: Firm to stiff medium brown slightly sandy clayey SILT. Very thin (c. 1mm) very light grey precipitate on surface. No visual olfactory evidence of hydrocarbons.	0.80		28.490
1		0	0	MADE GROUND: Firm to stiff medium brown slightly sandy clayey SILT. Very thin (c. 1mm) very light grey precipitate on surface. No visual olfactory evidence of hydrocarbons.			
				End of Trial Pit			
2							
3							
4							

Comments: Groundwater not encountered.



Width: 1.70m

Length: 2.10m

APPENDIX C5 – FIELD DENSITY RESULTS

North Site Biopile - Field Density Tests

Location	Date	Volume (l)	Mass (kg)	Density (kg/l)	Density (kg/m ³)
1	28/07/2011	0.5	0.378	0.756	756
2	28/07/2011	0.5	0.372	0.744	744
3	28/07/2011	0.5	0.418	0.836	836
4	28/07/2011	0.5	0.510	1.020	1020
5	28/07/2011	0.5	0.463	0.926	926
6	28/07/2011	0.5	0.349	0.698	698
7	28/07/2011	0.5	0.426	0.852	852
8	28/07/2011	0.5	0.391	0.782	782
9	28/07/2011	0.5	0.423	0.846	846
10	28/07/2011	0.5	0.458	0.916	916

1020	Maximum
698	Minumum
838	Average

APPENDIX D

POST WORKS SURFACE WATER MONITORING RESULTS

D1 – Discharge Water Monitoring

D2 – Post Works Water Monitoring

APPENDIX D1 – DISCHARGE WATER MONITORING (DURING WORKS)

Celtic
Columbus House
Greenmeadow Springs, Tongwynlais
Cardiff
CF15 7NE
FAO J Hearing / N Hopkins

LABORATORY TEST REPORT

Results of analysis of 1 sample
received 6 May 2011



Report Date
16 May 2011

C1434 - Coed Darcy Sludge Remediation

Login Batch No

Chemtest LIMS ID

Sample ID

Sample No

Sampling Date

Depth

Matrix

SOP↓	Determinand↓	CAS No↓	Units↓	*	
1010	pH	PH		U	7.2
1030	Suspended solids at 105°C	SS_105	mg l ⁻¹	N	1000
1670	TPH (Aqueous Phase)		µg l ⁻¹	U	1000
1760	Methyl tert-butylether	1634044	µg l ⁻¹	N	<1.0
	Dichlorodifluoromethane	75718	µg l ⁻¹	U	<1.0
	Chloromethane	74873	µg l ⁻¹	U	<1.0
	Vinyl chloride	75014	µg l ⁻¹	U	<1.0
	Bromomethane	74839	µg l ⁻¹	U	<20
	Chloroethane	75003	µg l ⁻¹	U	<2.0
	Trichlorofluoromethane	75694	µg l ⁻¹	U	<1.0
	1,1-Dichloroethene	75354	µg l ⁻¹	U	<1.0
	Dichloromethane	75092	µg l ⁻¹	N	ne
	trans-1,2-Dichloroethene	156605	µg l ⁻¹	U	<1.0
	1,1-Dichloroethane	75343	µg l ⁻¹	U	<1.0
	cis-1,2-Dichloroethene	156592	µg l ⁻¹	U	<1.0
	Bromochloromethane	74975	µg l ⁻¹	U	<1.0
	Trichloromethane	67663	µg l ⁻¹	U	<1.0
	1,1,1-Trichloroethane	71556	µg l ⁻¹	U	<1.0
	Tetrachloromethane	56235	µg l ⁻¹	U	<1.0
	1,1-Dichloropropene	563586	µg l ⁻¹	U	<1.0
	Benzene	71432	µg l ⁻¹	U	<1.0
	1,2-Dichloroethane	107062	µg l ⁻¹	U	<2.0
	Trichloroethene	79016	µg l ⁻¹	N	<1.0
	1,2-Dichloropropane	78875	µg l ⁻¹	U	<1.0
	Dibromomethane	74953	µg l ⁻¹	U	<10
	Bromodichloromethane	75274	µg l ⁻¹	U	<5.0
	cis-1,3-Dichloropropene	10061015	µg l ⁻¹	U	<10

All tests undertaken between 15/05/2011 and 16/05/2011

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page.

Column page 1

Report page 1 of 3

LIMS sample ID range AG01296 to AG01296

Celtic
Columbus House
Greenmeadow Springs, Tongwynlais
Cardiff
CF15 7NE
FAO J Hearing / N Hopkins

LABORATORY TEST REPORT

Results of analysis of 1 sample
received 6 May 2011



Report Date
16 May 2011

C1434 - Coed Darcy Sludge Remediation

136346					
AG01296					
EB					
Discharge					
05/05/2011					
WATER					
1760	Toluene	108883	µg l ⁻¹	U	<1.0
	trans-1,3-Dichloropropene	10061026	µg l ⁻¹	U	<10
	1,1,2-Trichloroethane	79005	µg l ⁻¹	U	<10
	Tetrachloroethene	127184	µg l ⁻¹	U	<1.0
	1,3-Dichloropropane	142289	µg l ⁻¹	U	<2.0
	Dibromochloromethane	124481	µg l ⁻¹	U	<10
	1,2-Dibromoethane	106934	µg l ⁻¹	U	<5.0
	Chlorobenzene	108907	µg l ⁻¹	U	<1.0
	1,1,1,2-Tetrachloroethane	630206	µg l ⁻¹	U	<2.0
	Ethylbenzene	100414	µg l ⁻¹	U	<1.0
	m- & p-Xylene	1330207	µg l ⁻¹	U	<1.0
	o-Xylene	95476	µg l ⁻¹	U	<1.0
	Styrene	100425	µg l ⁻¹	U	<1.0
	Tribromomethane	75252	µg l ⁻¹	U	<10
	Isopropylbenzene	98828	µg l ⁻¹	U	<1.0
	Bromobenzene	108861	µg l ⁻¹	U	<1.0
	1,2,3-Trichloropropane	96184	µg l ⁻¹	U	<50
	n-Propylbenzene	103651	µg l ⁻¹	U	<1.0
	2-Chlorotoluene	95498	µg l ⁻¹	U	<1.0
	1,2,4-Trimethylbenzene	95636	µg l ⁻¹	U	<1.0
	4-Chlorotoluene	106434	µg l ⁻¹	U	<1.0
	tert-Butylbenzene	98066	µg l ⁻¹	U	<1.0
	1,3,5-Trimethylbenzene	108678	µg l ⁻¹	U	<1.0
	sec-Butylbenzene	135988	µg l ⁻¹	U	<1.0
	1,3-Dichlorobenzene	541731	µg l ⁻¹	U	<1.0
	4-Isopropyltoluene	99876	µg l ⁻¹	U	<1.0
	1,4-Dichlorobenzene	106467	µg l ⁻¹	U	<1.0
	n-Butylbenzene	104518	µg l ⁻¹	U	<1.0

All tests undertaken between 15/05/2011 and 16/05/2011

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page.

Column page 1

Report page 2 of 3

LIMS sample ID range AG01296 to AG01296

LABORATORY TEST REPORT

**Results of analysis of 1 sample
received 6 May 2011**

C1434 - Coed Darcy Sludge Remediation



Report Date
16 May 2011

					136346
					AG01296
					EB
					Discharge
					05/05/2011
					<i>WATER</i>
1760	1,2-Dichlorobenzene	95501	µg l ⁻¹	U	<1.0
	1,2-Dibromo-3-chloropropane	96128	µg l ⁻¹	U	<50
	1,2,4-Trichlorobenzene	120821	µg l ⁻¹	U	<1.0
	Hexachlorobutadiene	87683	µg l ⁻¹	U	<1.0
	1,2,3-Trichlorobenzene	87616	µg l ⁻¹	U	<2.0

Celtic
Columbus House
Greenmeadow Springs, Tongwynlais
Cardiff
CF15 7NE

FAO J Hearing / N Hopkins
16 May 2011

Dear J Hearing / N Hopkins

Test Report Number 136346
Your Project Reference C1434 - Coed Darcy Sludge Remediation

Please find enclosed the results of analysis for the samples received 6 May 2011.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely


Authorised Signatory

☒ Darrell Hall Director
☐ Phil Hellier Director
☐ Keith Jones Technical Manager
☐ John Crawford Quality Manager
☐ Malcolm Avis Director



2183



Notes to accompany report:

- The sign < means 'less than'
- Tests marked 'U' hold UKAS accreditation
- Tests marked 'M' hold MCertS (and UKAS) accreditation
- Tests marked 'N' do not currently hold UKAS accreditation
- Tests marked 'S' were subcontracted to an approved laboratory
- n/e means 'not evaluated'
- i/s means 'insufficient sample'
- u/s means 'unsuitable sample'
- Comments or interpretations are beyond the scope of UKAS accreditation
- The results relate only to the items tested

Test Report 136346 Cover Sheet

Celtic
Columbus House
Greenmeadow Springs, Tongwynlais
Cardiff
CF15 7NE
FAO J Hearing / N Hopkins

LABORATORY TEST REPORT

Results of analysis of 1 sample
received 7 April 2011



Report Date
15 April 2011

C1434 - Coed Darcy Sludge Remediation

Login Batch No

Chemtest LIMS ID

Sample ID

Sample No

Sampling Date

Depth

Matrix

SOP↓	Determinand↓	CAS No↓	Units↓	*	
1010	pH	PH		U	7.7
1030	Suspended solids at 105°C	SS_105	mg l ⁻¹	N	10
1670	TPH (Aqueous Phase)		µg l ⁻¹	U	<10
1760	Methyl tert-butylether	1634044	µg l ⁻¹	N	<1.0
	Dichlorodifluoromethane	75718	µg l ⁻¹	U	<1.0
	Chloromethane	74873	µg l ⁻¹	U	<1.0
	Vinyl chloride	75014	µg l ⁻¹	U	<1.0
	Bromomethane	74839	µg l ⁻¹	U	<20
	Chloroethane	75003	µg l ⁻¹	U	<2.0
	Trichlorofluoromethane	75694	µg l ⁻¹	U	<1.0
	1,1-Dichloroethene	75354	µg l ⁻¹	U	<1.0
	Dichloromethane	75092	µg l ⁻¹	N	ne
	trans-1,2-Dichloroethene	156605	µg l ⁻¹	U	<1.0
	1,1-Dichloroethane	75343	µg l ⁻¹	U	<1.0
	cis-1,2-Dichloroethene	156592	µg l ⁻¹	U	<1.0
	Bromochloromethane	74975	µg l ⁻¹	U	<1.0
	Trichloromethane	67663	µg l ⁻¹	U	<1.0
	1,1,1-Trichloroethane	71556	µg l ⁻¹	U	<1.0
	Tetrachloromethane	56235	µg l ⁻¹	U	<1.0
	1,1-Dichloropropene	563586	µg l ⁻¹	U	<1.0
	Benzene	71432	µg l ⁻¹	U	<1.0
	1,2-Dichloroethane	107062	µg l ⁻¹	U	<2.0
	Trichloroethene	79016	µg l ⁻¹	N	<1.0
	1,2-Dichloropropane	78875	µg l ⁻¹	U	<1.0
	Dibromomethane	74953	µg l ⁻¹	U	<10
	Bromodichloromethane	75274	µg l ⁻¹	U	<5.0
	cis-1,3-Dichloropropene	10061015	µg l ⁻¹	U	<10

All tests undertaken between 11/04/2011 and 14/04/2011

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page.

Column page 1

Report page 1 of 3

LIMS sample ID range AF92933 to AF92933

LABORATORY TEST REPORT

Results of analysis of 1 sample
received 7 April 2011

Report Date
15 April 2011

C1434 - Coed Darcy Sludge Remediation

					135646
					AF92933
					EB Discharge
					2103
					06/04/2011
					WATER
1760	Toluene	108883	µg l ⁻¹	U	<1.0
	trans-1,3-Dichloropropene	10061026	µg l ⁻¹	U	<10
	1,1,2-Trichloroethane	79005	µg l ⁻¹	U	<10
	Tetrachloroethene	127184	µg l ⁻¹	U	<1.0
	1,3-Dichloropropane	142289	µg l ⁻¹	U	<2.0
	Dibromochloromethane	124481	µg l ⁻¹	U	<10
	1,2-Dibromoethane	106934	µg l ⁻¹	U	<5.0
	Chlorobenzene	108907	µg l ⁻¹	U	<1.0
	1,1,1,2-Tetrachloroethane	630206	µg l ⁻¹	U	<2.0
	Ethylbenzene	100414	µg l ⁻¹	U	<1.0
	m- & p-Xylene	1330207	µg l ⁻¹	U	<1.0
	o-Xylene	95476	µg l ⁻¹	U	<1.0
	Styrene	100425	µg l ⁻¹	U	<1.0
	Tribromomethane	75252	µg l ⁻¹	U	<10
	Isopropylbenzene	98828	µg l ⁻¹	U	<1.0
	Bromobenzene	108861	µg l ⁻¹	U	<1.0
	1,2,3-Trichloropropane	96184	µg l ⁻¹	U	<50
	n-Propylbenzene	103651	µg l ⁻¹	U	<1.0
	2-Chlorotoluene	95498	µg l ⁻¹	U	<1.0
	1,2,4-Trimethylbenzene	95636	µg l ⁻¹	U	<1.0
	4-Chlorotoluene	106434	µg l ⁻¹	U	<1.0
	tert-Butylbenzene	98066	µg l ⁻¹	U	<1.0
	1,3,5-Trimethylbenzene	108678	µg l ⁻¹	U	<1.0
	sec-Butylbenzene	135988	µg l ⁻¹	U	<1.0
	1,3-Dichlorobenzene	541731	µg l ⁻¹	U	<1.0
	4-Isopropyltoluene	99876	µg l ⁻¹	U	<1.0
	1,4-Dichlorobenzene	106467	µg l ⁻¹	U	<1.0
	n-Butylbenzene	104518	µg l ⁻¹	U	<1.0

All tests undertaken between 11/04/2011 and 14/04/2011

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page.

Column page 1

Report page 2 of 3

LIMS sample ID range AF92933 to AF92933

Celtic
Columbus House
Greenmeadow Springs, Tongwynlais
Cardiff
CF15 7NE
FAO J Hearing / N Hopkins

LABORATORY TEST REPORT

Results of analysis of 1 sample
received 7 April 2011



Report Date
15 April 2011

C1434 - Coed Darcy Sludge Remediation

135646
AF92933
EB Discharge
2103
06/04/2011
WATER

1760	1,2-Dichlorobenzene	95501	µg l ⁻¹	U	<1.0
	1,2-Dibromo-3-chloropropane	96128	µg l ⁻¹	U	<50
	1,2,4-Trichlorobenzene	120821	µg l ⁻¹	U	<1.0
	Hexachlorobutadiene	87683	µg l ⁻¹	U	<1.0
	1,2,3-Trichlorobenzene	87616	µg l ⁻¹	U	<2.0

All tests undertaken between 11/04/2011 and 14/04/2011

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page.

Column page 1

Report page 3 of 3

LIMS sample ID range AF92933 to AF92933

Celtic
Columbus House
Greenmeadow Springs, Tongwynlais
Cardiff
CF15 7NE

FAO J Hearing / N Hopkins
15 April 2011

Dear J Hearing / N Hopkins

Test Report Number 135646

Your Project Reference C1434 - Coed Darcy Sludge Remediation

Please find enclosed the results of analysis for the samples received 7 April 2011.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely



Authorised Signatory

☐ Darrell Hall	Director
☐ Phil Hellier	Director
☒ Keith Jones	Technical Manager
☐ John Crawford	Quality Manager
☐ Malcolm Avis	Director



Notes to accompany report:

- The sign < means 'less than'
- Tests marked 'U' hold UKAS accreditation
- Tests marked 'M' hold MCertS (and UKAS) accreditation
- Tests marked 'N' do not currently hold UKAS accreditation
- Tests marked 'S' were subcontracted to an approved laboratory
- n/e means 'not evaluated'
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- u/s means 'unsuitable sample'
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- The results relate only to the items tested

Test Report 135646 Cover Sheet

LABORATORY TEST REPORT

Results of analysis of 1 sample
received 22 March 2011

Report Date
30 March 2011

FAO J Hearing / N Hopkins

C1434 - Coed Darcy Sludge Remediation

Login Batch No					135211
Chemtest LIMS ID					AF87402
Sample ID					EB SEP DIS
Sample No					2103
Sampling Date					21/03/2011
Depth					
Matrix					WATER
SOP↓	Determinand↓	CAS No↓	Units↓	*	
1010	pH	PH		U	7.6
1030	Suspended solids at 105°C	SS_105	mg l ⁻¹	N	120
1670	TPH (Aqueous Phase)		µg l ⁻¹	U	360
1760	Methyl tert-butylether	1634044	µg l ⁻¹	N	<1.0
	Dichlorodifluoromethane	75718	µg l ⁻¹	U	<1.0
	Chloromethane	74873	µg l ⁻¹	U	<1.0
	Vinyl chloride	75014	µg l ⁻¹	U	<1.0
	Bromomethane	74839	µg l ⁻¹	U	<20
	Chloroethane	75003	µg l ⁻¹	U	<2.0
	Trichlorofluoromethane	75694	µg l ⁻¹	U	<1.0
	1,1-Dichloroethene	75354	µg l ⁻¹	U	<1.0
	Dichloromethane	75092	µg l ⁻¹	N	ne
	trans-1,2-Dichloroethene	156605	µg l ⁻¹	U	<1.0
	1,1-Dichloroethane	75343	µg l ⁻¹	U	<1.0
	cis-1,2-Dichloroethene	156592	µg l ⁻¹	U	<1.0
	Bromochloromethane	74975	µg l ⁻¹	U	<1.0
	Trichloromethane	67663	µg l ⁻¹	U	<1.0
	1,1,1-Trichloroethane	71556	µg l ⁻¹	U	<1.0
	Tetrachloromethane	56235	µg l ⁻¹	U	<1.0
	1,1-Dichloropropene	563586	µg l ⁻¹	U	<1.0
	Benzene	71432	µg l ⁻¹	U	<1.0
	1,2-Dichloroethane	107062	µg l ⁻¹	U	<2.0
	Trichloroethene	79016	µg l ⁻¹	N	<1.0
	1,2-Dichloropropane	78875	µg l ⁻¹	U	<1.0
	Dibromomethane	74953	µg l ⁻¹	U	<10
	Bromodichloromethane	75274	µg l ⁻¹	U	<5.0
	cis-1,3-Dichloropropene	10061015	µg l ⁻¹	U	<10

All tests undertaken between 28/03/2011 and 30/03/2011

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page.

Column page 1

Report page 1 of 3

LIMS sample ID range AF87402 to AF87402

LABORATORY TEST REPORT

Results of analysis of 1 sample
received 22 March 2011

Report Date
30 March 2011

FAO J Hearing / N Hopkins

C1434 - Coed Darcy Sludge Remediation

					135211
					AF87402
					EB SEP DIS
					2103
					21/03/2011
					WATER
1760	Toluene	108883	µg l ⁻¹	U	<1.0
	trans-1,3-Dichloropropene	10061026	µg l ⁻¹	U	<10
	1,1,2-Trichloroethane	79005	µg l ⁻¹	U	<10
	Tetrachloroethene	127184	µg l ⁻¹	U	<1.0
	1,3-Dichloropropane	142289	µg l ⁻¹	U	<2.0
	Dibromochloromethane	124481	µg l ⁻¹	U	<10
	1,2-Dibromoethane	106934	µg l ⁻¹	U	<5.0
	Chlorobenzene	108907	µg l ⁻¹	U	<1.0
	1,1,1,2-Tetrachloroethane	630206	µg l ⁻¹	U	<2.0
	Ethylbenzene	100414	µg l ⁻¹	U	<1.0
	m- & p-Xylene	1330207	µg l ⁻¹	U	<1.0
	o-Xylene	95476	µg l ⁻¹	U	<1.0
	Styrene	100425	µg l ⁻¹	U	<1.0
	Tribromomethane	75252	µg l ⁻¹	U	<10
	Isopropylbenzene	98828	µg l ⁻¹	U	<1.0
	Bromobenzene	108861	µg l ⁻¹	U	<1.0
	1,2,3-Trichloropropane	96184	µg l ⁻¹	U	<50
	n-Propylbenzene	103651	µg l ⁻¹	U	<1.0
	2-Chlorotoluene	95498	µg l ⁻¹	U	<1.0
	1,2,4-Trimethylbenzene	95636	µg l ⁻¹	U	<1.0
	4-Chlorotoluene	106434	µg l ⁻¹	U	<1.0
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	4-Isopropyltoluene	99876	µg l ⁻¹	U	<1.0
	1,4-Dichlorobenzene	106467	µg l ⁻¹	U	<1.0
	n-Butylbenzene	104518	µg l ⁻¹	U	<1.0

All tests undertaken between 28/03/2011 and 30/03/2011

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page.

Column page 1

Report page 2 of 3

LIMS sample ID range AF87402 to AF87402

Celtic
Columbus House
Greenmeadow Springs, Tongwynlais
Cardiff
CF15 7NE

FAO J Hearing / N Hopkins

LABORATORY TEST REPORT

Results of analysis of 1 sample
received 22 March 2011

C1434 - Coed Darcy Sludge Remediation



Report Date
30 March 2011

					135211
					AF87402
					EB SEP DIS
					2103
					21/03/2011
					WATER
1760	1,2-Dichlorobenzene	95501	µg l ⁻¹	U	<1.0
	1,2-Dibromo-3-chloropropane	96128	µg l ⁻¹	U	<50
	1,2,4-Trichlorobenzene	120821	µg l ⁻¹	U	<1.0
	Hexachlorobutadiene	87683	µg l ⁻¹	U	<1.0
	1,2,3-Trichlorobenzene	87616	µg l ⁻¹	U	<2.0

All tests undertaken between 28/03/2011 and 30/03/2011

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page.

Column page 1

Report page 3 of 3

LIMS sample ID range AF87402 to AF87402

Celtic
Columbus House
Greenmeadow Springs, Tongwynlais
Cardiff
CF15 7NE

FAO J Hearing / N Hopkins
30 March 2011

Dear J Hearing / N Hopkins

Test Report Number 135211

Your Project Reference C1434 - Coed Darcy Sludge Remediation

Please find enclosed the results of analysis for the samples received 22 March 2011.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely



Authorised Signatory

☒ Darrell Hall	Director
☐ Phil Hellier	Director
☐ Keith Jones	Technical Manager
☐ John Crawford	Quality Manager
☐ Malcolm Avis	Director



Notes to accompany report:

- The sign < means 'less than'
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- Tests marked 'M' hold MCertS (and UKAS) accreditation
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- n/e means 'not evaluated'
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- u/s means 'unsuitable sample'
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- The results relate only to the items tested

Test Report 135211 Cover Sheet

APPENDIX D2 – POST WORKS WATER MONITORING

Celtic
Columbus House
Greenmeadow Springs, Tongwynlais
Cardiff
CF15 7NE
FAO J Hearing / N Hopkins

LABORATORY TEST REPORT

Results of analysis of 3 samples
received 11 July 2011



Report Date
19 July 2011

C1352 - Coed Darcy Sludge Remediation

Login Batch No

Chemtest LIMS ID

Sample ID

Sample No

Sampling Date

Depth

Matrix

					118533		
					AG23486	AG23487	AG23488
					EB 1	EB 2	EB 3
					08/07/2011	08/07/2011	08/07/2011
					WATER	WATER	WATER
SOP↓	Determinand↓	CAS No↓	Units↓	*			
1010	pH	PH		U	8.3	8.2	8.1
1030	Suspended solids at 105°C	SS_105	mg l ⁻¹	N	51	78	33
1450	Arsenic	7440382	µg l ⁻¹	U	4.7	3.1	8.9
	Cadmium	7440439	µg l ⁻¹	U	1.1	0.35	0.23
	Chromium (total)	7440473	µg l ⁻¹	U	35	21	16
	Copper	7440508	µg l ⁻¹	U	6.9	5.0	9.9
	Mercury	7439976	µg l ⁻¹	U	<0.50	<0.50	<0.50
	Nickel	7440020	µg l ⁻¹	U	9.5	5.9	5.8
	Lead	7439921	µg l ⁻¹	U	3.5	1.2	1.7
	Selenium	7782492	µg l ⁻¹	U	6.4	1.9	1.8
	Zinc	7440666	µg l ⁻¹	U	19	8.3	14
1670	TPH (Aqueous Phase)		µg l ⁻¹	U	<10	<10	<10
1700	Naphthalene	91203	µg l ⁻¹	U	<0.1	<0.1	<0.1
	Acenaphthylene	208968	µg l ⁻¹	U	<0.1	<0.1	<0.1
	Acenaphthene	83329	µg l ⁻¹	U	<0.1	<0.1	<0.1
	Fluorene	86737	µg l ⁻¹	U	<0.1	<0.1	<0.1
	Phenanthrene	85018	µg l ⁻¹	U	<0.1	<0.1	<0.1
	Anthracene	120127	µg l ⁻¹	U	<0.1	<0.1	<0.1
	Fluoranthene	206440	µg l ⁻¹	U	<0.1	<0.1	<0.1
	Pyrene	129000	µg l ⁻¹	U	<0.1	<0.1	<0.1
	Benzo[a]anthracene	56553	µg l ⁻¹	U	<0.1	<0.1	<0.1
	Chrysene	218019	µg l ⁻¹	U	<0.1	<0.1	<0.1
	Benzo[b]fluoranthene	205992	µg l ⁻¹	U	<0.1	<0.1	<0.1
	Benzo[k]fluoranthene	207089	µg l ⁻¹	U	<0.1	<0.1	<0.1
	Benzo[a]pyrene	50328	µg l ⁻¹	U	<0.1	<0.1	<0.1
	Dibenzo[a,h]anthracene	53703	µg l ⁻¹	U	<0.1	<0.1	<0.1
	Indeno[1,2,3-cd]pyrene	193395	µg l ⁻¹	U	<0.1	<0.1	<0.1

All tests undertaken between 15/07/2011 and 19/07/2011

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LIMS sample ID range AG23486 to AG23488

LABORATORY TEST REPORT

Results of analysis of 3 samples
received 11 July 2011

Report Date
19 July 2011

C1352 - Coed Darcy Sludge Remediation

					118533		
					AG23486	AG23487	AG23488
					EB 1	EB 2	EB 3
					08/07/2011	08/07/2011	08/07/2011
					WATER	WATER	WATER
1700	Benzo[g,h,i]perylene	191242	µg l ⁻¹	U	<0.1	<0.1	<0.1
	Total (of 16) PAHs		µg l ⁻¹		<2	<2	<2
1760	Methyl tert-butylether	1634044	µg l ⁻¹	N	<1.0	<1.0	<1.0
	Dichlorodifluoromethane	75718	µg l ⁻¹	U	<1.0	<1.0	<1.0
	Chloromethane	74873	µg l ⁻¹	U	<1.0	<1.0	<1.0
	Vinyl chloride	75014	µg l ⁻¹	U	<1.0	<1.0	<1.0
	Bromomethane	74839	µg l ⁻¹	U	<20	<20	<20
	Chloroethane	75003	µg l ⁻¹	U	<2.0	<2.0	<2.0
	Trichlorofluoromethane	75694	µg l ⁻¹	U	<1.0	<1.0	<1.0
	1,1-Dichloroethene	75354	µg l ⁻¹	U	<1.0	<1.0	<1.0
	Dichloromethane	75092	µg l ⁻¹	N	ne	ne	ne
	trans-1,2-Dichloroethene	156605	µg l ⁻¹	U	<1.0	<1.0	<1.0
	1,1-Dichloroethane	75343	µg l ⁻¹	U	<1.0	<1.0	<1.0
	cis-1,2-Dichloroethene	156592	µg l ⁻¹	U	<1.0	<1.0	<1.0
	Bromochloromethane	74975	µg l ⁻¹	U	<1.0	<1.0	<1.0
	Trichloromethane	67663	µg l ⁻¹	U	<1.0	<1.0	<1.0
	1,1,1-Trichloroethane	71556	µg l ⁻¹	U	<1.0	<1.0	<1.0
	Tetrachloromethane	56235	µg l ⁻¹	U	<1.0	<1.0	<1.0
	1,1-Dichloropropene	563586	µg l ⁻¹	U	<1.0	<1.0	<1.0
	Benzene	71432	µg l ⁻¹	U	<1.0	<1.0	<1.0
	1,2-Dichloroethane	107062	µg l ⁻¹	U	<2.0	<2.0	<2.0
	Trichloroethene	79016	µg l ⁻¹	N	<1.0	<1.0	<1.0
	1,2-Dichloropropane	78875	µg l ⁻¹	U	<1.0	<1.0	<1.0
	Dibromomethane	74953	µg l ⁻¹	U	<10	<10	<10
	Bromodichloromethane	75274	µg l ⁻¹	U	<5.0	<5.0	<5.0
	cis-1,3-Dichloropropene	10061015	µg l ⁻¹	U	<10	<10	<10
	Toluene	108883	µg l ⁻¹	U	<1.0	<1.0	<1.0
	trans-1,3-Dichloropropene	10061026	µg l ⁻¹	U	<10	<10	<10

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LIMS sample ID range AG23486 to AG23488

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					118533		
					AG23486	AG23487	AG23488
					EB 1	EB 2	EB 3
					08/07/2011	08/07/2011	08/07/2011
					WATER	WATER	WATER
1760	1,1,2-Trichloroethane	79005	µg l ⁻¹	U	<10	<10	<10
	Tetrachloroethene	127184	µg l ⁻¹	U	<1.0	<1.0	<1.0
	1,3-Dichloropropane	142289	µg l ⁻¹	U	<2.0	<2.0	<2.0
	Dibromochloromethane	124481	µg l ⁻¹	U	<10	<10	<10
	1,2-Dibromoethane	106934	µg l ⁻¹	U	<5.0	<5.0	<5.0
	Chlorobenzene	108907	µg l ⁻¹	U	<1.0	<1.0	<1.0
	1,1,1,2-Tetrachloroethane	630206	µg l ⁻¹	U	<2.0	<2.0	<2.0
	Ethylbenzene	100414	µg l ⁻¹	U	<1.0	<1.0	<1.0
	m- & p-Xylene	1330207	µg l ⁻¹	U	<1.0	<1.0	<1.0
	o-Xylene	95476	µg l ⁻¹	U	<1.0	<1.0	<1.0
	Styrene	100425	µg l ⁻¹	U	<1.0	<1.0	<1.0
	Tribromomethane	75252	µg l ⁻¹	U	<10	<10	<10
	Isopropylbenzene	98828	µg l ⁻¹	U	<1.0	<1.0	<1.0
	Bromobenzene	108861	µg l ⁻¹	U	<1.0	<1.0	<1.0
	1,2,3-Trichloropropane	96184	µg l ⁻¹	U	<50	<50	<50
	n-Propylbenzene	103651	µg l ⁻¹	U	<1.0	<1.0	<1.0
	2-Chlorotoluene	95498	µg l ⁻¹	U	<1.0	<1.0	<1.0
	1,2,4-Trimethylbenzene	95636	µg l ⁻¹	U	<1.0	<1.0	<1.0
	4-Chlorotoluene	106434	µg l ⁻¹	U	<1.0	<1.0	<1.0
	tert-Butylbenzene	98066	µg l ⁻¹	U	<1.0	<1.0	<1.0
	1,3,5-Trimethylbenzene	108678	µg l ⁻¹	U	<1.0	<1.0	<1.0
	sec-Butylbenzene	135988	µg l ⁻¹	U	<1.0	<1.0	<1.0
	1,3-Dichlorobenzene	541731	µg l ⁻¹	U	<1.0	<1.0	<1.0
	4-Isopropyltoluene	99876	µg l ⁻¹	U	<1.0	<1.0	<1.0
	1,4-Dichlorobenzene	106467	µg l ⁻¹	U	<1.0	<1.0	<1.0
	n-Butylbenzene	104518	µg l ⁻¹	U	<1.0	<1.0	<1.0
	1,2-Dichlorobenzene	95501	µg l ⁻¹	U	<1.0	<1.0	<1.0
	1,2-Dibromo-3-chloropropane	96128	µg l ⁻¹	U	<50	<50	<50

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LIMS sample ID range AG23486 to AG23488

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					118533		
					AG23486	AG23487	AG23488
					EB 1	EB 2	EB 3
					08/07/2011	08/07/2011	08/07/2011
					WATER	WATER	WATER
1760	1,2,4-Trichlorobenzene	120821	µg l ⁻¹	U	<1.0	<1.0	<1.0
	Hexachlorobutadiene	87683	µg l ⁻¹	U	<1.0	<1.0	<1.0
	1,2,3-Trichlorobenzene	87616	µg l ⁻¹	U	<2.0	<2.0	<2.0