











Environmental Monitoring Report

Reporting Period 04/04/2011-01/05/2011

Former Bayer Crop Science Site Hauxton Cambridgeshire

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Author:

M.J. Allsobrook M.Sc. B.Sc. Project Manager

On behalf of:

Harrow Estates Plc

Vertase F.L.I. Limited 3000 Aviator Way Manchester Business Park Manchester M22 5TG

Tel +44 (0) 161 437 2708 Fax +44 (0) 161 437 6300

Email info@vertasefli.co.uk www.vertasefli.co.uk



CONTENTS

1.0 Int	roduction	1
1.1.	General	1
1.2.	The site	1
1.3.	Remediation Brief and Philosophy	1
2.0	Monthly Progress	3
И И	Veek 56. Week Commencing 4 th April 2011 Veek 57. Week Commencing 11 th April 2011 Veek 58. Week Commencing 18 th April 2011 Veek 59. Week Commencing 25 th April 2011 Environmental Monitoring Summary	3 3 3
3.1.	Odour and VOC Emissions	4
3.2.	Dust Fibre and Particulate Emission	6
3.3.	Control of Mud and Debris	7
3.4.	Noise	7
3.5.	Litter	7
4.0	Surface and Ground Water Condition	9
4.1.	Surface Water Monitoring	9
4.2.	Surface Water Sampling and Analysis	9
4.3.	Groundwater Level Monitoring1	0
4.4.	Groundwater Sampling and Analysis1	1
5.0	Waste Water Treatment Plant1	2
6.0	Contaminants Not Previously Identified1	4

i



APPENDICIES

- A Drawings
- B Environmental Monitoring Data
- C Long Term Passive VOC Monitoring
- D Directional Dust Monitoring
- E Groundwater Level Data
- F Surface Water and Groundwater Analysis Reports
- G Groundwater Contour Plots
- H Waste Water Treatment Plant Discharge Analysis
- I Soil Characterisation Results Summary



1.0 Introduction

1.1. General

This report has been prepared and submitted in accordance Environmental Permitting Regulations 2007 with reference to the approved Deployment of Vertase FLI's Environmental Permit Ref: ERP/QP3293FY for the remediation works at the former Bayer CropScience site Hauxton, and in accordance with Condition 4 of the planning permission dated 5th February 2010.

The time period that this report represents is from the 4th of April 2011, until the 1st of May 2011.

1.2. The site

The site is the former Bayer Crop Science site, Cambridge Road, Hauxton, Cambridge. The site was used for the storage and production of agrichemicals from the 1940's through to ceasing production in 2004. The site was used primarily for the synthesis, formulation, packaging and storage of agrichemicals (both herbicides and pesticides). It is this former historical use that has led to the contamination legacy of soil and groundwater at the site.

There is also a Waste Water Treatment Plant (WWTP) and other agricultural land which is part of the former land holding of Bayer Crop Science and is part of that controlled by Harrow Estates. The WWTP will be utilised to assist in the treatment of recovered groundwater and will be improved to undertake this task and then maintained for the duration of the remediation. This area of the site will not be subject to remediation as part of this phase of works but will be remediated as a separate phase of work under a separate contract and separate Remediation Method Statement in the future.

1.3. Remediation Brief and Philosophy

The philosophy for this remediation project is set out in detail in the agreed Remediation Method Statement. The remediation of the site has been developed from knowledge of the site gained from historical site investigations, Atkins Preliminary Conceptual Model Report August 2006 (interpretative report defining the current and correct understanding of the geological and environmental conditions) and subsequent sampling and analysis defining the extent of contamination following further investigation. This information has allowed the conceptual site model and pollutant linkages to be developed to form the remediation methodology. Whilst the remediation work itself is complex and varied, the philosophy is simple and defines the proposed remedial action required. This philosophy has been designed with the brief in mind. This brief can be defined as "a remediation to address all pollutant linkages and ensure that following remediation and re-development no unacceptable risks will remain associated with the treated area of the site by applying the best available techniques not entailing excessive costs (BATNEEC)".

The philosophy behind the remediation is to remove all uncertainty relating to soils and groundwater within the site area by the excavation, characterisation and treatment. All pathways between the identified sources and receptors will be removed and the contaminant mass within soils reduced as far as the practical limits of cost effective technology permit. The Remediation Method Statement sets out how this philosophy or strategy will be achieved practically on site and validated with confirmative post remediation risk assessment.

These remediation works are also required to satisfy the regulators that adequate remediation works have been completed to satisfy their requirements under Part IIa of the Environmental Protection Act 1990.



2.0 Monthly Progress

Week 56. Week Commencing 4th April 2011

No excavation undertaken. Turning of treatment beds undertaken and spent mushroom compost was added to a number of treatment beds to assist in the stimulation of the biological process within the treatment bed. The biological filter on the force ventilation vapour extraction plant was replaced. Relocating of existing treatment beds and stockpiles was undertaken to create space for validation and backfilling.

Week 57. Week Commencing 11th April 2011

No excavation undertaken. Turning of treatment beds was undertaken to aid biological degradation and dry the material in preparation for reinstatement. The north of the site was validated and prepared for reinstatement.

Week 58. Week Commencing 18th April 2011

Restoration of remediated soils in the north of the site to grid squares K6, J6, K7, J7, I7, K8, J8, and I8. No excavation undertaken. Turning of treatment beds was undertaken and spent mushroom compost was added to a number of treatment beds to assist in the stimulation of the biological process within the treatment bed. Relocating of existing treatment beds and stockpiles was undertaken to create space for validation and backfilling.

Week 59. Week Commencing 26th April 2011

Restoration of remediated soils in the north of the site to grid squares K6, J6, K7, J7, I7, K8, J8, and I8. Excavation in I10, J10 and K10 material was formed in to treatment bed adjacent to the dig, to reduce odour generation. Turning of treatment beds was undertaken to assist in the biodegradation of the contaminants and reduce the moisture content of the material. Relocating of existing treatment beds and stockpiles was undertaken to create space for validation and backfilling.



3.0 Environmental Monitoring Summary

The environmental monitoring locations detailed in the Environmental Permit deployment form for the site are highlighted in drawing D907_33C in Appendix A.

The detailed environmental monitoring data can be found in Appendix B, the following chapters summarise the finding from the monitoring undertaken by Vertase FLI Site Engineers.

3.1. Odour and VOC Emissions

Odour and VOC monitoring around the site boundary commenced on the 22nd March 2010 and has been undertaken twice daily at eight compass points around the site boundary, in the public access areas. Odour and VOC related observations in between the eight compass points around the site are also noted by the Vertase FLI representative undertaking the monitoring.

In addition to physical control via covers and management of activities odour controlling suppressants and masking agent are being used around the site boundary to mitigate the impact of odour migration off site. Three mobile telescopic misting fans were used on site and a full boundary misting system was also used to supplement the mobile units.

Site generated odours including those from the remediation processes and the odour suppression systems observed during the monitoring rounds beyond the site boundary are listed in the environmental monitoring data spreadsheet in Appendix B.

The Vertase FLI Environmental Engineers and Site Management team have been working closely to prevent odours and VOC's generated by the remediation processes migrating off site, along with trying to achieve a fine balance of using a variety of odour control fragrance's at a variety of dilutions to reduce the impact of any odours detected off site.

The Environmental Engineers have logged the actions undertaken on site to reduce the impact of VOC/odours off site, these are noted in the environmental monitoring data in Appendix B. All mitigation measures have been in accordance with the actions stipulated in the deployment

Covering Period: 4th April 2011 to 1st May 2011



form, including some additional actions to reduce the potential of odour nuisance e.g. repositioning of mobile odour control systems.

During the twice daily environmental monitoring a Photoionisation Detector (PID) has been used to record VOC's present beyond the site boundary. The PID will not function correctly in wet weather conditions, this has prevented real-time monitoring on a number of days and data is missing from the environmental monitoring spreadsheet for this reason. During the reported period VOC's were not detected by the PID (Limit of detection of 0.1ppm) beyond the site boundary.

Long term passive VOC monitoring is carried out at eight compass point locations around the site boundary, in the public accessible areas, further monitoring locations are located within the centre of the waste water treatment works, on Church Road, Hauxton and Queens Close, Harston.

The results for the long term passive VOC monitoring carried out between 17/03/2011 and 14/04/2011 are reported in appendix C. The analysis undertaken for this monitoring period indicates that the majority of the VOC's detected are around the baseline, except for Tetrachloroethene which is on occasion slightly raised above the baseline values but are well below the levels considered to be within acceptable limits for published criteria.

The analysis for Church Road, Hauxton indicates there are some site related VOC's detected at these locations, but at levels that are considered to be within acceptable limits for published criteria. The monitoring undertaken at Queens Close, Harston was not successfully analysed at the laboratory and this data was lost.

The 28 day passive VOC monitoring results have been forwarded to the Health Protection Agency for review. The HPA have under taken independent risk assessment upon the data provided and have provided a positive non technical summary which is available on South Cambridgeshire District Councils website.



3.2. Dust Fibre and Particulate Emission

Both real time dust measurement and long term dust deposition monitoring has been undertaken around the site boundary at six compass point locations, north, east, south, west with two monitoring positions in the northeast (drawing D907_30C, Appendix A).

Real time airborne dust monitoring is undertaken as a minimum twice daily by an Environmental Engineer using a 'Dustmate' dust particle monitor around the site boundary as part of the environmental monitoring schedule, results are recorded in the environmental monitoring spreadsheet (Appendix B). The 'Dustmate' dust particle monitor will not function correctly in wet weather conditions, therefore on a number of days and data is missing from the environmental monitoring spreadsheet for this reason. Dust migration is however less likely in wet weather conditions.

Dust particle measurements at each monitoring location have varied, with the higher dust readings being generally at the locations adjacent to the heavily trafficked Cambridge Road (A10). The average Total Suspended Particulates (TSP) reading around the site is 141.92µg/m³, the average PM10 dust reading around the site is 86.36µg/m³. Where a potential for dust has been observed, on site dust suppression methods have been deployed immediately to reduce the generation of site dust and all haul routes are continually wetted to prevent dust release.

Directional dust deposition gauges at the six monitoring locations are analysed every fortnight for Effective Area Coverage (EAC) (percentage of dust deposition relating to the potential to cause nuisance), results generated by an external laboratory are presented in Appendix D.

Baseline dust monitoring undertaken between 19/02/2010 to 19/03/2010 (4 locations monitored) recorded a maximum dust deposition rate of 0.54%EAC at the western monitoring location.

Dust monitoring undertaken from the 21/03/2011 to 05/04/2011 (6 locations monitored) recorded a maximum dust deposition rate was 0.93%EAC at the west monitoring location. All other locations had a maximum dust deposition rate of 0.87%EAC, or less.



Dust monitoring undertaken from the 05/04/2011 to 18/04/2011 (6 locations monitored) recorded a maximum dust deposition rate was 1.38%EAC at the east monitoring location. All other locations had a maximum dust deposition rate of 1.31%EAC, or less.

Dust deposition values of less than 2.5% are regarded as having a very low nuisance potential. Only when percentages rise from 2.5% - 5% EAC is dust considered to have a low nuisance causing potential. During the reported period dust, fibre and particle emissions have been low, and have not caused visual dusting off site.

3.3. Control of Mud and Debris

A pressure washer has been on site constantly to allow any maintenance or plant delivery vehicles leaving contaminated parts of the site to be washed down thoroughly first, as not to take potentially contaminated mud and debris through the clean zone and off site. The movement of vehicles between the contaminated and clean parts of the site is strictly controlled by the site management team.

3.4. Noise

Noise monitoring around the site boundary commenced on the 22nd March 2010 and has been undertaken twice daily as a minimum, recording findings at eight compass points around the site boundary in the public access areas (drawing D907_30C, Appendix A).

Site operations are restricted to 8am to 6pm and site noise levels are consistently at an average acceptable low background level of 64dB. Exceedance's of the 80dB threshold (stipulated in the Environmental Permit deployment document) have been recorded during the monitoring period, however traffic along the A10 has been identified as the source of the slightly elevated noise levels. Data is recorded in the environmental monitoring data spreadsheet, Appendix B.

3.5. Litter

All litter occurrences are removed from within the site, and off site around the boundary fence, and disposed of appropriately. Litter is generally low off site, and is well managed on site, by all



site personnel. All recordings of the presence of litter are noted in the Environmental Monitoring Data spreadsheet in Appendix B.



4.0 Surface and Ground Water Condition

4.1. Surface Water Monitoring

As part of the environmental monitoring programme, the Riddy Brook located to the east of the site (Drawing D907_33C, Appendix A) is inspected daily as a minimum at two locations up and down stream for general observations, on any discolouration, sedimentation etc. The observations are recorded on the Environmental Monitoring Data (Appendix B). Throughout the monitoring period there have been no visual signs that the remediation works on site are having any impact on the Riddy Brook.

The water level within the Riddy Brook is monitored and recorded on a daily basis at a minimum of two locations, footbridge adjacent to Mill House (Riddy 1) and the most southerly footbridge over the Riddy Brook, adjacent to the eastern corner of the site (Riddy 4). Two further locations are also monitored, Riddy 2 at the footbridge over the Riddy Brook approximately 150m southeast of Mill House and the former fire exit bridge (Riddy 3), 210m southeast of Mill House. All the water level data is recorded in the main groundwater level data sheet in Appendix E. During the monitoring period there have not been any significant changes in levels along the Riddy Brook.

4.2. Surface Water Sampling and Analysis

Upstream and downstream water samples from both the River Cam (Granta) and the Riddy Brook are taken on a monthly basis. The results for samples taken on 31st March 2011 are presented in Appendix F. The results for samples taken on 27th April 2011 are pending and will be presented in a supplemental report.

The surface water analysis of the 31^{st} March 2011 shows traces of Tetrachloroethylene (3 µg/l), were detected in all surface water samples analysed, the Riddy Brook upstream and downstream and the River Cam upstream and down stream. Trichloroethylene (9 µg/l), Cis1,2-Dichloroethylene (6 µg/l) and Ethofumesate (0.2 µg/l) were detected in both the downstream samples of the Riddy Brook and River Cam. These trace levels of have been recorded in the baseline data collected prior to the commencement of the remediation project and are not related to a specific incident.



4.3. Groundwater Level Monitoring

Groundwater levels are recorded within at least 11 borehole locations onsite on a daily basis, to ensure the groundwater beneath the site remains in a static condition during the remediation works and does not pose a risk to surface and groundwater bodies beyond the site boundary.

During the initial excavation works on site very little groundwater has been encountered, the majority of excavations located in the northern parts of the site have exceeded a depth of 4m below current ground level and have penetrated the Gault Clay in parts.

The main source of water encountered during excavations has been discontinuous contaminated perched water present in the Made Ground. This water has been captured and treated in the Waste Water Treatment Works associated with the site.

From approximately 2-3m below ground level discontinuous thin sand and gravel bands have also produced some limited quantities of water, which have tended to dry up within 24 hours.

The groundwater levels measured at locations around the site are shown in drawing D907_31G, in appendix A. The groundwater levels are presented in Appendix E.

Groundwater contour plots are drawn up on a weekly basis to interpret the potential movement of the water beneath the site. Contour plots D907_164, D907_165, D907_166, and D907_167 (Appendix G) illustrate the weekly groundwater levels for the reported period.

The four contour plots constructed (Appendix G) illustrate that there have been little changes to groundwater levels within the boreholes on site, due to the discontinuous nature of the geology on site and the depth of open excavation, the contour plots do not accurately depict groundwater level across the site.

There has been no recharge of groundwater in the central and northern part of the site where the main excavations have taken place, the base of excavations on site are approximately at 10.00mAOD and remain free of groundwater. There has not been any change to the pumping regime in this part of the site during the monitoring period.

Covering Period: 4th April 2011 to 1st May 2011



4.4. Groundwater Sampling and Analysis

Groundwater samples from 11 monitoring locations on site are taken on a monthly basis. The results for samples taken on 31st March 2011 are presented in Appendix F. The results for samples taken on 27th April 2011 are pending and will be presented in a supplemental report.

The contaminant concentrations present in the samples taken on the 31st of March 2011 are similar to the baseline data collected during the summer of 2008, but there appears to be gradual reduction in concentration of the main contaminants in the groundwater samples adjacent to the areas that have undergone remediation.

Note: sample references 233231011 and 233231012 are not relevant to the assessment of groundwater quality on the site.



5.0 Waste Water Treatment Plant

The Waste Water Treatment Plant (WWTP) is part of the former land holding of Bayer Cropscience and is part of that controlled by Harrow Estates. The WWTP was an integral part of the former Bayer Crop Science site, located to the west of the A10, specifically designed to treat and discharge liquid waste products derived from the production of agrochemicals (both herbicides and pesticides) and sewage from the facility.

The WWTP has been previously operated (until the 15th of March 2010) by Alpheus Environmental Ltd. to maintain the required discharge volume generated by the groundwater pumping systems on the main Bayer Cropscience site along the bentonite cut off wall and the high bay warehouse.

Vertase FLI have established a maintenance programme and control procedures to ensure the WWTP is operated within the constraints of the discharge consent. Essential system checks and improvements have been made to the plant to ensure it can treat the volume and concentrations of influent generated by the continued groundwater control and the contaminated water recovered during the remediation activities on the main site.

The composition of the water discharged to the River Cam (Granta) must not exceed the permitted levels in paragraphs 1.7.1, 1.8.1 and 1.8.2 of the discharge consent PR1NF/1744D01 Issued and regulated by the Environment Agency.

The treated effluent is sampled at the specified location as stipulated in the discharge consent. Vertase FLI also sample the influent to the WWTP, along with a sample taken after the primary carbon treatment, this is to assess the performance of main treatment process of the WWTP and highlight potential expiry of the primary carbon vessels.

The fortnightly samples are analytically tested for the water quality parameters and the chemical compounds specified in paragraph 1.7.1 of the discharge consent PR1NF/1744 D 01. The data is tabulated and presented in Appendix H along with the raw data from the laboratory reports.



Throughout the reporting period the WWTP has been successful in treating the compounds listed within paragraph 1.7.1 (consent PR1NF/1744D01) to acceptable levels for discharge to the River Cam (Granta) under the regulated discharge consent.

The Environment Agency carry out independent discharge monitoring at the WWTP on a monthly basis, during the reportable period Vertase FLI and Harrow Estates Plc have not been notified of any unacceptable effluent discharging to the River Cam (Granta) from the operating plant.



6.0 Contaminants Not Previously Identified

To fulfil the requirements of condition 4 and condition 9, Planning Condition Document ref:S/2307/06/f Issued 10/02/2010, Vertase FLI are continually undertaking soil characterisation sampling prior to remediation processes to identify the types and concentrations of contaminants present in the specific grid squares across the entire site.

The soil characterisation samples undergo a series of laboratory analyses consisting of targeted analysis, screening against known contaminants and a full GCMS scan to identify any contaminants not previously identified.

All characterisation samples analysed and found to contain previously unidentified contaminants are reported in accordance with condition 9 of the Planning Condition Document ref:S/2307/06/f Issued 10/02/2010.

From the commencement of site works (15/03/2010) to 01/05/2011, eighty three characterisation samples have been taken by Vertase FLI in partnership with Atkins to assess the contamination type and concentrations prior to remediation of the materials. Thirty Seven characterisation samples analysed contained a total of twenty three compounds / potential contaminants that had not been previously identified.

A summary table of the soil characterisation testing is presented in Appendix I, the previously unidentified compounds are listed here, with comments regarding the origin and likely usage on site.

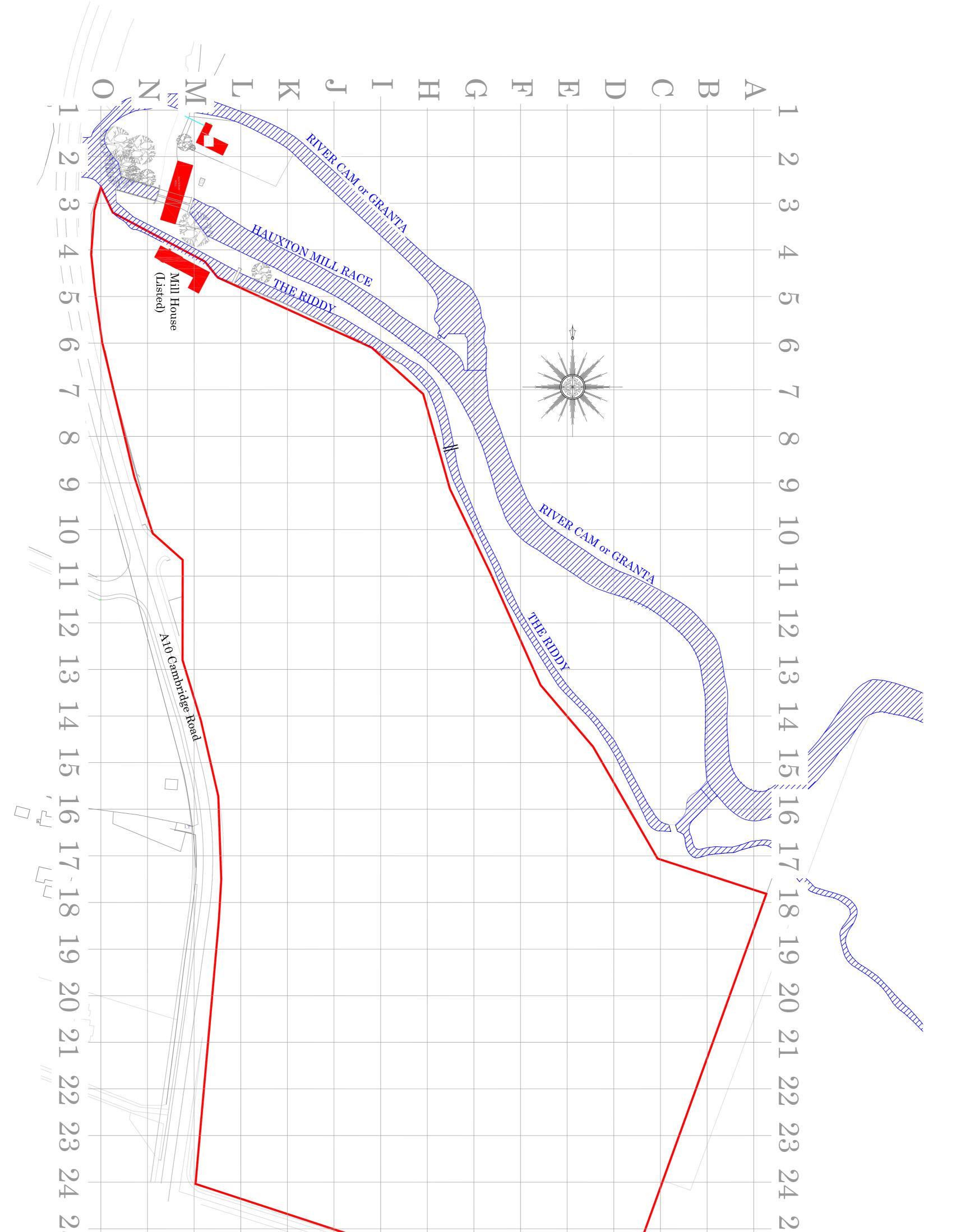
The remediation project consultants Atkins continuously review the soil characterisation analysis and report previously unidentified contaminates in accordance with condition 9, Planning Condition Document ref:S/2307/06/f Issued 10/02/2010.



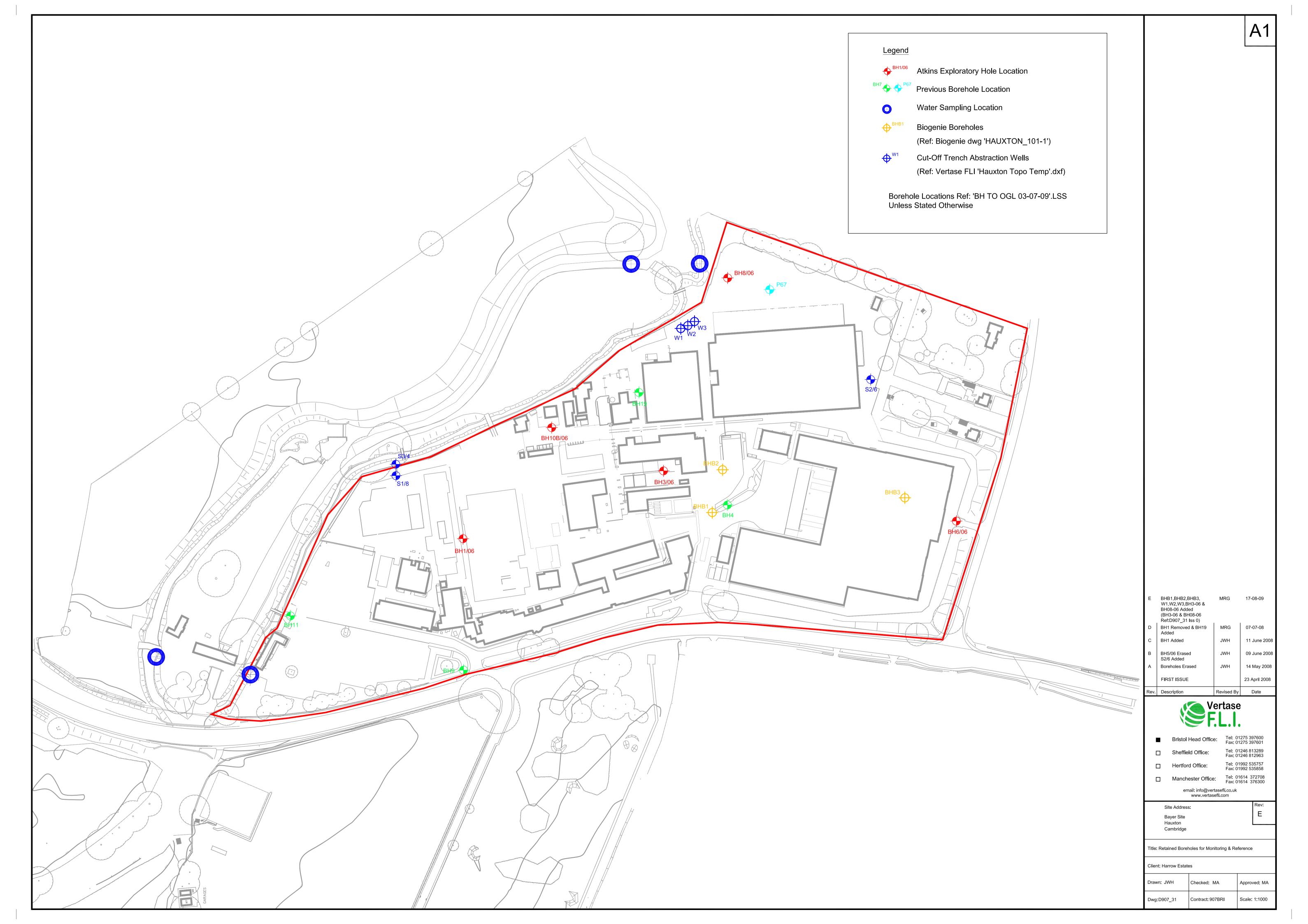
Appendix A

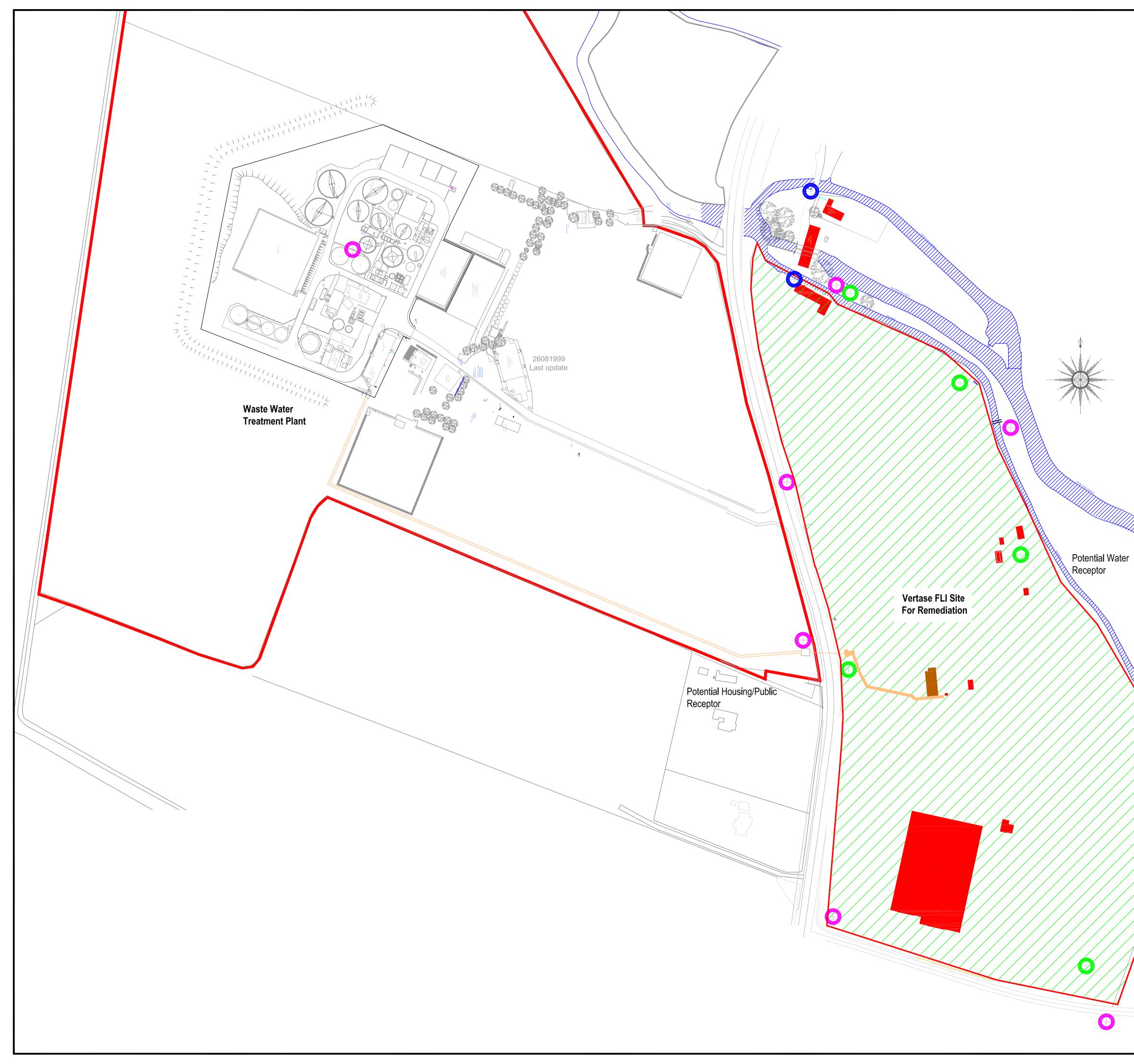
Drawings

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Bristol Head Office:Tel: 01275 397600 Fax: 01275 397601Sheffield Office:Tel: 01246 813289 Fax: 01246 812963Hertford Office:Tel: 01925 535757 Fax: 01992 535858Manchester Office:Tel: 01614 376300 Fax: 01614 376300 HauxtonSite Address:Tel: 01614 376300 Fax: 01614 376300 	Raw. Description Raw. 21 April 2008 Image: State St	Drawing Base : Ref LW/HAUX-002/2006	Site Boundar	Water Course	Buildings to Remain	Legend A1





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Drawn: JWH	Checked: MA	Approved: MA
Dwg: D907_33	Contract: 907BR	Scale: 1:1250



Appendix B

Environmental Monitoring Data

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Assessor Date	Daily Activity	Boundary	Start Finis Time Tim	h Dotactability Intensity (Yes or No) (1 to 3) Quality (Description)	Hedonic	Location (Ddour tource (ppm)	TSP	PM10	NOISE Average	LITTE Present Description)	R Materials attracting	RIDD	Y BROOK Water Level (mAOD)	Complaints	Action Required	METEOROLOGICAI Wind Speed Direction (1 to 6)	AND ENVIRONMEN Description (Rain,	TAL CONDITIONS Cloud Ground Crouge Conditions	
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T Walker 06/04/2011 T Walker 06/04/2011 T Walker 06/04/2011	ed turning ed turning ed turning	NE1 E	9.55 10.0 10.00 10.0	6 n			0	146	34 86	70 0		10	dear	9.632	no no					
T Walker 06/04/2011 T Walker 06/04/2011 T Walker 06/04/2011 T Walker 06/04/2011	ed turning	SE	10.05 10.	Sin Sin			0	106	71	60 n		10			no					
T Walker 06/04/2011 T Walker 06/04/2011 T Walker 06/04/2011	ed suming eed suming eed suming	W W	10.15 10.3	50 00			0	96	77	0 58 0 41		10			no no					
Stepherson 06/04/2011	ed turning ed turning ed turning	N NE	17.55 18.1	0 n Sy 4 chlorinated phenols	-1 4	4	0	16.4 14.3	28.1 22.6	58.6 n 61.4 n	o n	10	dear	9.19	no no	check odour control	6.7 SW 23.3	sun	0 diy	to odour at church
Stephenson 06/04/2011 Stephenson 06/04/2011	ed turning ed turning ed turning	NE1 E	10.15 10.1 10.29 10.1 10.29 10.1 10.25 10.1 17.25 18.0 17.25 18.0 17.25 17.1 17.26 17.2 17.26 17.2 17.26 17.2 17.38 17.7 17.28 17.2 17.28 17.2 17.28 17.2 17.29 17.2 9.29 9.2 9.29 9.2 9.29 9.2 9.29 9.2 9.20 9.2 9.20 9.2 9.20 9.2 9.20 9.2 9.20 9.2 9.20 9.2 9.20 9.2 9.20 9.2 9.20 17.00 17.00 17.10 17.00 17.11 17.20 17.2 17.20 17.2 <	0 5 y 2 pesticides/odour control	0 4	2	0	13 38	49.9 17	65.2 n	o n	10	dear	9.632	no					
Stephenson 06/04/2011 Stephenson 06/04/2011 Stephenson 06/04/2011 Stephenson 06/04/2011	wa samng eed saming	SE SW	17.35 17.4 17.30 17.3 17.25 17	on 6 n	2		0	21.9	10.7	+4.6 0 52.5 0 71.5		10			no no					
I Stephenson 06/04/2011 I Stephenson 06/04/2011	eed samig mig add samig add samig ad	W	17.20 17.1	56 06		-	0	21.9 150 104 158	15.5	75.5 n 77.3 n	- 10 0 11	10	_		no no					
I Saphancon (00042011) I Saphancon (00042011) T Wakee 07042011) T Wakee 07042011 T Wakee 07042011	ed turning ed turning	N NE	9.20 9.3 9.25 9.3	5 n 0 n	-		0	104 158	46 86	55 n 64 n	o n o n	10	slear slear	9.19	no no		6 nw 19	diry	1 diry	
T Walker 07/04/2011 T Walker 07/04/2011	ed turning ed turning	NE1 E	9.30 9.3	5 8 9	-			131	71 33	68 n	o n	10	dear dear	9.632	no no					
T Walker 07/04/2011 T Walker 07/04/2011 T Walker 07/04/2011	as uming ad uming ad uming	S SW	9.40 9.4 9.40 9.4	Sy 3 chlorinated solvents Sy 4/5 chlorinated solvents	-2 5	5	0	106	61	50 19 71 0 70 0		10			y v	increased odour control				
T Walker 07/04/2011 T Walker 07/04/2011	sed turning sed turning	W	9.55 10.0 10.05 10.1	0 n	-	-	0	181	73	67 n 62 n	o n o n	10			no no		4 av 17			
T Walker 07/04/2011	ed turning	N NE	17.00 17.0	5 n 0 n			0	186 104	74 82	47.4 n 58 n	n o n	10	dear dear	9.19	no no		4 nw 17	dry	1 dry	
T Waker 07/04/2011 T Waker 07/04/2011 T Waker 07/04/2011	ed turing ed turing	E ec	17.05 17.	0 5 n 0		_	0	131	180 76	39 n	o n	10	clear clear	9.632	no no					
T Walker 07/04/2011 T Walker 07/04/2011	ad suming ad suming	S	17.20 17.	5 n 0 n			0 0	74	36	47 n 65 n	o n o n	10			no no					
1 Waker 07/04/2011 T Waker 08/04/2011	ed turning ed turning	W NW	17.30 17. 17.35 17.4	5 n 0 n	4		0		86	70 n 71 n	o n o n	10			no no		3 nw 17			
	sed suming sed suming sed suming	N NE	10.00 10.0	5 h			0			58 n 54 n	o n o n	10	tlear tlear	9.18	no no		3 nw 17	dry	1 dry	
T Walker 08/04/2011	ed suring ed suring	E	10.10 10.	5 n Dv 3 chlorinated solvents	-1	5	0			62 n 58 n	o n	10	clear	9.619	no no					
T Walker 08/04/2011 T Walker 08/04/2011	ed turning ed turning	S SW	10.20 10.3	0 y 3 chlorinated solvents 5 y 2 chlorinated solvents 0 h	1	5	0 0			62 n 58 n	o n o n	10			no no					
T Walker 08/04/2011	ed turning ed turning	W	10.30 10.3	5n 0n	4		0	174	24	50 n 56 n	o n o n	10			no		3.1 nw 20			
T Waker 08/04/2011 T Waker 08/04/2011 T Waker 08/04/2011	ed turning ed turning ed turnina	N NE NE1	15.00 15.0 15.05 15.0 15.05 15.0	5y 2 odour control On	2 3		0	171 146 98	36 57 73	58 n 61 n	o n o n	10	dear dear dear	9.18	no no no		3.1 mw 20	dry	0 any	
T Walker (8804/2011) T Walker (8804/2011)	eed samig and samig ad samig s	E SE	15.10 15.	5 n 0 n			0 0	204	101	70 n 69 n	o n o n	10	clear	9.619	no no					
T Walker 08/04/2011 T Walker 08/04/2011	ed turning ed turning	S SW	15.20 15. 15.25 15.	On Sy 2 slight HC odour Din	-1 3	5	0	133	78	71 n 80 n	o n o n	10 10			no no					
T Waker 08/04/2011 T Waker 08/04/2011 T Waker 08/04/2011	ed turning ed turning	W NW N	15.30 15.3 15.35 15.4	56 06 56			0	146 170 121	55	79 n 83 n 651 n	o n o n	10	loar	0.108	no no		3 nw 17	div	7 ///	desel spill on corner of church road and A10 strong odour.
T Walker 11/04/2011 T Walker 11/04/2011	ed suming ed suming ed suming ed suming	NE NE1	12.25 12.	0 n			0	121	101 36	70 n	o n	10	slear slear		no no			-,	-,	
1 Walker 11/04/2011 T. Walker 11/04/2011 T. Walker 11/04/2011 T. Walker 11/04/2011 T. Walker 11/04/2011	ed turning	E SE	12.20 12.3	5 n 0 n			0	146 204	114	68 n 49 n	o n o n	10	clear	9.629	no		3 nw 17			
1 Waker 11/04/2011 T Waker 11/04/2011 T Waker 11/04/2011	wa summa wa tuming wa tumion	SW W	12.30 12.1 12.35 12.4	Sn On Sv 6 dissel	2		0	104	25	53 0 62 0		10			no no					
T Walker 11/04/2011 I Stephenson 11/04/2011	ed turning sid surning	NW N	12.45 12.5	S n		-	0	128	124	60 n 79 n 67.1 n	- n o n	10	dear	9.198	no no		18 mw 13	rain	8 wit	no odour at church
1 Waker 1104/2011 T Waker 1104/2011 T Waker 1104/2011 I Stephenson 1104/2011 I Stephenson 1104/2011 I Stephenson 1104/2011 I Stephenson 1104/2011 I Stephenson 1104/2011 I Stephenson 1104/2011	ed turning	NE NE1	10.15 10.1 10.20 10.2 10.20 10.2 10.20 10.2 10.20 10.2 10.30 10.2 10.30 10.2 10.30 10.2 15.00 15.1 15.00 15.1 15.00 15.1 15.10 15.2 15.20 15.1 15.20 15.2 15.20 15.2 15.20 15.2 15.20 15.2 15.20 15.2 15.20 15.2 15.20 15.2 15.20 15.2 15.20 15.2 15.20 15.2 12.20 12.2 12.20 12.2 12.20 12.2 12.20 12.2 12.20 12.2 12.20 12.2 12.20 12.2 12.20 12.2 12.20 12.2 </td <td>0 n 5</td> <td>-</td> <td>_</td> <td>0 0</td> <td>93.6 274</td> <td>204 165</td> <td>54.8 n</td> <td>o n</td> <td>10</td> <td>slear slear</td> <td></td> <td>no</td> <td></td> <td></td> <td></td> <td></td> <td></td>	0 n 5	-	_	0 0	93.6 274	204 165	54.8 n	o n	10	slear slear		no					
Supperson 11/04/2011 Supperson 11/04/2011	wa samng ked saming wed saming	E SE S	17.25 17.3	5 n 5 y 3 pesticides wet veg and oc 0 y 3 pesticides wet veg and oc	1 1	3	0	149.7 78	27	63.2 n 68.8 n 69.5 n		10	andf	9.029	no no					
Stephenson 11/04/2011	ed turning	SW	17.10 17.				0 0		73	71.3 n	o n	10			no no					
I Stephenson 11/04/2011 T Walker 12/04/2011	ed turning ed turning	NW N	17.00 17.0 9.30 9.3	5 n 5 n			0	141	70	78.9 n 78.2 n 57 n	o n o n	10	slear	9.196	no no		3.1 mv 17	dry	2 diry	
T Walker 12/04/2011 T Walker 12/04/2011 T Walker 12/04/2011 T Walker 12/04/2011	ed turning	NE NE1	2.35 2. 2.35 2. 2.40 2. 2.45 2.	0 y 4 odour centrol	3 3	5	0 0	138 104 104	68 60 71	62 n		10	dear dear dear	9.645	no no					
T Walker 12/04/2011 T Walker 12/04/2011 T Walker 12/04/2011	sed suming sed suming sed suming	SE S	2.45 9.50 0.4	0 y 2 solvents 6 n	1	5	0	98	60	62 n 58 n	- n o n	10		and M	no no					
T Walker 12/04/2011 T Walker 12/04/2011 T Walker 12/04/2011	ed turning ed turning ed turning	SW W	9.50 9.5 9.55 10.0 10.00 10.0	60 n 5 n	4		ő	96	27	62 n 58 n	o n o n	10 10			no no					
Walker 20042011 Walker 12042011 Walker 12042011	eed suming within the second sec	NW N	10.05 10.	0e			0	146	52	80 n 84 n		10	dear	9.196	no		4 nw 17	diy	5 dry	Gusts ranging from solvents to odour control on Riddy boundary. Not deemed problemati
T Walker 12/04/2011 T Walker 12/04/2011 T Walker 12/04/2011	ed turning sed turning sed turning	NE1 E	10.05 10. 10.05 10. 15.15 15.15 15.20 15.15 15.20 15.15 15.30 15.15 15.30 15.15 15.30 15.15 15.40 15.15 15.40 15.15 15.40 15.15 15.40 15.15 15.40 15.15 15.40 15.15 15.40 15.15 15.40 15.15 10.40 10.10 10.40 10.10 10.40 10.10 10.40 10.10 10.50 11.11 10.00 11.11 11.00 11.11 11.00 11.11 11.00 11.11 11.00 11.11 11.00 11.11 11.00 11.11 11.00 11.11 11.00 11.11 11.00 11.11 15.01	Operation of the second s		4	0	156 100 186 102	71 91	62 0	- n	10	dear dear	9.645	no no					
T Walker 12/04/2011 T Walker 12/04/2011	ed turing	SE S	15.35 15.4	0 n 6 n		Í	ő	102	67	70 n 58 n	o n	10			no no					
T Walker 12/04/2011 T Walker 12/04/2011 T Walker 12/04/2011 T Walker 12/04/2011	ed turning ed suming	SW	15.45 15.5	60 n 5 n			0 0	97	54	62 n 71 n	o n	10			no no		2 sw 11.7			
1 Walker 12/04/2011 T Walker 13/04/2011 T Walker 13/04/2011	ed turning ed turning	NW N	15.55 16.0 10.40 10.4 10.45 10.4	Sn Sn Ov 2 solventbeginides	1	e	0 0	146	78	64 D 58 D		10	slear slear	9.195	no no no		2 sw 11.7	dry	7 dry	slight odsur on banks of Riddy but not considered a problem
T Walker 13/04/2011 T Walker 13/04/2011 T Walker 13/04/2011 T Walker 13/04/2011	ed turning ed turning	NE1 E	10.48 10.5	0 y 2 solvent/pesticides					96 37	P 58 h		10	dear dear	9.645	no no					
T Walker 13/04/2011 T Walker 13/04/2011	sed turning	SE S	10.55 11.0	0 n 5 n			0	97	27	62 n 68 n	o n	10			no					
T Walker 13/04/2011 T Walker 13/04/2011 T Walker 13/04/2011 T Walker 13/04/2011	vid Sumig dd Sumig dd Sumig dd Sumig dd Sumig dd Sumig dd Sumig dd Sumig	SW W	11.05 11.	0n 5n		-	0	97 98 146 72	72	62 n 68 n	o n o n	10			no no					
T Walker 13/04/2011 T Walker 13/04/2011 T Walker 13/04/2011 T Walker 13/04/2011	ed summa ed turning ed turnina	NW N	11.15 11.1 16.00 16.1 16.08 16	0h Bh 0y 2 bis(2-chlorosther)	0		0	146	62 26	62 n 65 n		10	dear dear	9.196	no no no		4 wsw 15	dry	8 dry	
		NE1 E	16.08 16.	5 n			0	104	91 60	co n 76 n		10	slear slear	9.645	no no					
T Walker 13/04/2011 T Walker 13/04/2011	ed turning sed turning	SE S	16.15 16. 16.20 16.	0 n 5 y 2 pumt wood	1	1	0		81	58 n 62 n	o n o n	10 10			no no					
T Walker 13/04/2011 T Walker 13/04/2011 T Walker 13/04/2011 T Walker 14/04/2011	sed suming sed suming sed suming	SW W	16.25 16.3 16.30 16.3	Din 1 no odour Sy 2 blossom Din	2 4	1		105	81	68 n 62 n	o n o n	10			no no					
T Walker 14/04/2011	Bed turning/restoration	N	8.30 8.3	6 y 3 odour control	1	1	0	162	76	62 n	o 1	10	dear	9.195	no		6 św 10	dry	8 diy	1

N N N N N N N N N N N N <th< th=""><th>T Walker 14/h/2011 Bart turnine/insterration</th><th>NF 8.95 8.40 v 3 index control</th><th>1 2 1 0 104 81 58 km km elear</th><th></th><th></th></th<>	T Walker 14/h/2011 Bart turnine/insterration	NF 8.95 8.40 v 3 index control	1 2 1 0 104 81 58 km km elear		
N N N N N N N N N N N N <t< th=""><th>T Walker 14/04/2011 Bed turning/testoration T Walker 14/04/2011 Bed turning/testoration T Walker 14/04/2011 Bed turning/testoration</th><th>NE1 8.38 8.40 E 8.40 8.45 n</th><th>1 2 1 0 104 61 98 no no Gear 107 58 dear 2 0 189 98 76 no no dear</th><th>00 0.845 00</th><th></th></t<>	T Walker 14/04/2011 Bed turning/testoration T Walker 14/04/2011 Bed turning/testoration T Walker 14/04/2011 Bed turning/testoration	NE1 8.38 8.40 E 8.40 8.45 n	1 2 1 0 104 61 98 no no Gear 107 58 dear 2 0 189 98 76 no no dear	00 0.845 00	
N N N N N N N N N N N N <t< th=""><th>T Walker 14/04/2011 Bed turning/restoration T Walker 14/04/2011 Bed turning/restoration</th><th>SE 8.45 8.50 m S 8.50 8.55 m</th><th>3 0 146 80 58 no no</th><th></th><th></th></t<>	T Walker 14/04/2011 Bed turning/restoration T Walker 14/04/2011 Bed turning/restoration	SE 8.45 8.50 m S 8.50 8.55 m	3 0 146 80 58 no no		
N N N N N N N N N N N N <t< th=""><th>T Walker 14/04/2011 Bed turning/restoration T Walker 14/04/2011 Bed turning/restoration</th><th>SW 8.55 9.00 h W 9.00 9.05 h</th><th>4 0 60 ho ho 4 0 102 56 62 ho ho</th><th>no no</th><th></th></t<>	T Walker 14/04/2011 Bed turning/restoration T Walker 14/04/2011 Bed turning/restoration	SW 8.55 9.00 h W 9.00 9.05 h	4 0 60 ho ho 4 0 102 56 62 ho ho	no no	
N N N N N N N N N N N N <t< th=""><th>T Walker 14/04/2011 Bed turning/restoration T Walker 14/04/2011 Bed turning/restoration</th><th>NW 9.05 9.10 n N 16.05 16.10 n</th><th>2 0 60 no no 2 0 204 98 56 no no clear</th><th>0.155 ho 6.9 k 164 dy 8 dy</th><th></th></t<>	T Walker 14/04/2011 Bed turning/restoration T Walker 14/04/2011 Bed turning/restoration	NW 9.05 9.10 n N 16.05 16.10 n	2 0 60 no no 2 0 204 98 56 no no clear	0.155 ho 6.9 k 164 dy 8 dy	
N N N N N N N N N N N N <t< th=""><th>T Walker 14/04/2011 Bed turning/restoration T Walker 14/04/2011 Bed turning/restoration</th><th>NE 16.10 16.15 y 2 odour control NE1 16.15 16.20</th><th>-1 2 1 0 178 70 62 no no dear 124 46 dear</th><th></th><th></th></t<>	T Walker 14/04/2011 Bed turning/restoration T Walker 14/04/2011 Bed turning/restoration	NE 16.10 16.15 y 2 odour control NE1 16.15 16.20	-1 2 1 0 178 70 62 no no dear 124 46 dear		
N N N N N N N N N N N N <t< th=""><th>1 Walker 14/04/2011 Bild turninginestoration T Walker 14/04/2011 Bild turninginestoration</th><th>E 16.25 16.30m SE 16.30 16.35m</th><th>2 0 176 78 58 10 10 pair 3 0 56 10 10 10</th><th></th><th></th></t<>	1 Walker 14/04/2011 Bild turninginestoration T Walker 14/04/2011 Bild turninginestoration	E 16.25 16.30m SE 16.30 16.35m	2 0 176 78 58 10 10 pair 3 0 56 10 10 10		
N N N N N N N N N N N N <t< th=""><th>T Walker 14/04/2011 Bed turning/reatoration T Walker 14/04/2011 Bed turning/reatoration</th><th>SW 16.40 16.45 n</th><th>4 0 105 00 52 10 10 4 0 88 10 10</th><th></th><th></th></t<>	T Walker 14/04/2011 Bed turning/reatoration T Walker 14/04/2011 Bed turning/reatoration	SW 16.40 16.45 n	4 0 105 00 52 10 10 4 0 88 10 10		
N N N N N N N N N N N N <t< th=""><th>T Walker 14/04/2011 Bed turning/restoration T Walker 15/04/2011 Bed turning/restoration</th><th>NW 16.50 16.55 n N 9.00 9.05 n</th><th>2 0 54 24 66 no no clear</th><th>92 P.122 P.222 P.2</th><th></th></t<>	T Walker 14/04/2011 Bed turning/restoration T Walker 15/04/2011 Bed turning/restoration	NW 16.50 16.55 n N 9.00 9.05 n	2 0 54 24 66 no no clear	92 P.122 P.222 P.2	
100 1	T Walker 15/04/2011 Bed turning/testoration T Walker 15/04/2011 Bed turning/testoration	NE 9.05 9.10 n NE1 9.10 9.15	2 0 136 77 54 ho no clear 193 115 clear	NO N	
100 1	T Walker 15/04/2011 Bed turning/restoration T Walker 15/04/2011 Bed turning/restoration	E 9.15 9.20 n SE 9.20 9.25 n	2 0 127 124 83 no no clear 3 0 87 no no		
	T Walker 15/04/2011 Bed turning/restoration	5 9.35 9.30 h SW 9.30 9.35 h	3 0 114 91 63 no no 4 0 66 no no	no n	
N N N N N N N N N N <th< th=""><th>1 Walker 15/04/2011 Bed turning/netocration T Walker 15/04/2011 Bed turning/netocration</th><th>W 9.35 9.40n NW 9.40 9.65 n</th><th>4 0 192 145 78 no no 2 0 76 no no 10</th><th></th><th></th></th<>	1 Walker 15/04/2011 Bed turning/netocration T Walker 15/04/2011 Bed turning/netocration	W 9.35 9.40n NW 9.40 9.65 n	4 0 192 145 78 no no 2 0 76 no no 10		
N N N N N N N N N N <th< th=""><th>T Walker 15/04/2011 Bed turning/neatoration T Walker 15/04/2011 Bed turning/neatoration</th><th>N 15.00 15.05m NE 15.05 15.10m</th><th>2 0 174 76 86 10 10 0447 2 0 126 104 82 no no olear</th><th></th><th></th></th<>	T Walker 15/04/2011 Bed turning/neatoration T Walker 15/04/2011 Bed turning/neatoration	N 15.00 15.05m NE 15.05 15.10m	2 0 174 76 86 10 10 0447 2 0 126 104 82 no no olear		
N N N N N N N N N N <th< th=""><th>T Waker 15042011 Bed turning/restoration T Waker 15042011 Bed turning/restoration</th><th>E 15.10 15.15n SE 15.15 15.20n</th><th>2 0 126 98 58 no no dear 3 0 71 ho no</th><th>9.845 mo</th><th></th></th<>	T Waker 15042011 Bed turning/restoration T Waker 15042011 Bed turning/restoration	E 15.10 15.15n SE 15.15 15.20n	2 0 126 98 58 no no dear 3 0 71 ho no	9.845 mo	
N N N N N N N N N N <th< th=""><th>T Walker 15/04/2011 Bed turning/restoration T Walker 15/04/2011 Bed turning/restoration</th><th>S 15.20 15.25 n SW 15.25 15.30 n</th><th>3 0 134 102 74 no no 4 0 76 no no</th><th></th><th></th></th<>	T Walker 15/04/2011 Bed turning/restoration T Walker 15/04/2011 Bed turning/restoration	S 15.20 15.25 n SW 15.25 15.30 n	3 0 134 102 74 no no 4 0 76 no no		
N N N N N N N N N N <th< th=""><th>T Walker 15/04/2011 Bed turning/restoration T Walker 15/04/2011 Bed turning/restoration</th><th>W 15.30 15.35 n NW 15.35 15.40 n</th><th>4 0 105 74 82 no no 2 0 80 no no</th><th>90 100 100 100 100 100 100 100 100 100 1</th><th></th></th<>	T Walker 15/04/2011 Bed turning/restoration T Walker 15/04/2011 Bed turning/restoration	W 15.30 15.35 n NW 15.35 15.40 n	4 0 105 74 82 no no 2 0 80 no no	90 100 100 100 100 100 100 100 100 100 1	
N N N N N N N N N N <th< th=""><th>T Walker 18/04/2011 Bed turning/restoration T Walker 18/04/2011 Bed turning/restoration</th><th>N 8.45 8.50n NE 8.50 8.55n</th><th>2 0 274 104 52 no no diaar 2 0 189 102 58 no no diaar</th><th>9.198 no. 1 sw 10 day 8 day No. No. 1 sw 10 day 9 day</th><th></th></th<>	T Walker 18/04/2011 Bed turning/restoration T Walker 18/04/2011 Bed turning/restoration	N 8.45 8.50n NE 8.50 8.55n	2 0 274 104 52 no no diaar 2 0 189 102 58 no no diaar	9.198 no. 1 sw 10 day 8 day No. No. 1 sw 10 day 9 day	
N N N N N N N N N N <th< th=""><th>1 Walker 18/04/2011 Bid turning/reatoration T Walker 18/04/2011 Bid turning/reatoration 19/04/2011 Bid turning/reatoration</th><th>NE1 850 855 E 855 9.00 n</th><th>2 0 104 76 82 to to clear</th><th>0.030 NO</th><th></th></th<>	1 Walker 18/04/2011 Bid turning/reatoration T Walker 18/04/2011 Bid turning/reatoration 19/04/2011 Bid turning/reatoration	NE1 850 855 E 855 9.00 n	2 0 104 76 82 to to clear	0.030 NO	
No	T Walker 18/04/2011 Bed turning/restoration T Walker 18/04/2011 Bed turning/restoration	S 2.05 2.10 n SW 2.10 2.15 n	3 0 97 63 57 00 00 4 0 56 00 40		
No	T Walker 18/04/2011 Bad turning/restonation T Walker 18/04/2011 Bad turning/restonation	W 9.15 9.20 n NW 9.20 9.25 n	4 0 178 82 80 90 10 2 0 78 10 10		
No	O Davies 18/04/2011 Bed turning/restoration O Davies 18/04/2011 Bed turning/restoration	N 15.00 15.05 n NE 15.10 15.12 n	2 0 28 17.5 62.5 no ho dear 2 0 62.1 33.4 61 no ho dear	8.198 No 1 e 18 sun/clouds/dry 8 dry No	-
VI	O Davies 18/04/2011 Bed turning/restoration O Davies 18/04/2011 Bed turning/restoration O Davies 18/04/2011 Bed turning/restoration	NE1 15.15 15.17 E 15.20 15.22 h	24 11.7 clear 2 0 25.8 21 54 no no clear	00 0.830 P0 0	
VI	D Davies 18/04/2011 Bed turning/restoration D Davies 18/04/2011 Bed turning/restoration D Davies 18/04/2011 Bed turning/restoration	oc 13.49 115.27 h S 15.30 15.22 h	3 0 42.8 33.7 52 no no		
1 1	O Davies 18/04/2011 Bed turning/restoration O Davies 18/04/2011 Bed turning/restoration	W 15.40 15.42n W 15.45 15.42n	4 0 112.8 62.3 60 no no 2 0 66 no no	ho ho	
Name Name<	O Davies 19/04/2011 Bed turning/restoration	N 9.35 9.37 n NE 9.40 9.41 n	2 0 159 181 46 no no clear 2 0 314 278 63 no no clear	9.191 no 0 16 kunidiy 4 diy	
Name Name<		NE1 9.45 9.47 E 9.50 9.52 h	2 0 165 147 54 no no dear	00 0.036 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
Name Name<	O Davies 19/04/2011 Bed turning/reatoration D Davies 19/04/2011 Bed turning/reatoration	SE 9.55 9.57 n S 10.00 10.02 n	3 0 56 no no 3 0 167 182 58 no no		
Name Name<	O Davies 19/04/2011 Bed turning/restoration O Davies 19/04/2011 Bed turning/restoration	SW 10.05 10.07 n W 10.10 10.12 n	4 0 60 no no 4 0 163 130 80 no no		
Name Name<		NW 16.15 16.17 m N 15.05 15.07 y 1 leaves, pollen	1 2 1 0 75 71 84 to to dear	9.191 to 22 kun 1 dry 2 complaints No odour detected at locations off site	
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M Alisobrook 28/04/2	2011 E	Excavating in grids J10, H10, I10/bed turning	SW	11	1.39 11	.44 y	4	adour control	1	4	6	0			73.7	10	no			no	reduce odour control solution					
M Alisobrook 28/04/2	2011 E	Excavating in grids J10, H10, I10/bed turning	W	11	1.45 11	.50 y	5	odour control	-1	4	6	0 14	0.1	24.6	77.2	10	no			no	reduce odour control solution					
		Excavating in grids J10, H10, I10/bed turning	NW	11	1.51 11	.56 y	3	traffic and odour control	-1	2	2	0			79.4	10	no			no						
Stephenson 28/04/2	2011 E	Excavating in grid J,K and I10, bed turning	N	15	5.40 15	.45 h			1	2		0 21	6	117	68.6	10	no	clear	9.222	no	no	1.5	ne 14.4	sunny spells	6 dry	no odour at church
Stephenson 28/04/2	2011 E	Excavating in grid J,K and I10, bed turning	NE	15	5.35 15	.40 n			1	2		0 38	13	70.8	68.5	10	no	clear		no	no					
		Excavating in grid J,K and I10, bed turning	NE1	15	5.30 15	.35						50	16	219.8				clear		no	10					
Stephenson 28/04/2	2011 E	Excavating in grid J,K and I10, bed turning	E	15	5.25 15	.30 y	5	mossold	2	2	1	0 55	4.9	299.8	68.7	10	no	dear	9.645	no	no					
Stephenson 28/04/2	2011 E	Excavating in grid J,K and I10, bed turning	SE	15	5.20 15	25 y	3	soil - clean	0	3	6	0			67.A	10	no			no	no					
Stephenson 28/04/2	2011 E	Excavating in grid J,K and I10, bed turning	s	15	5.15 15	.20 y	6	blossom	1	3	1	0 12	10	97.3	65.2	10	no			no	10					
Stephenson 28/04/2	2011 E	Excavating in grid J,K and I10, bed turning	SW	15	5.10 15	.15 y	4	odour control, chlorinated solvents	-1	4	6	0			72.4	10	no			no	covering tb142					
Stephenson 28/04/2	2011 E	Excavating in grid J,K and I10, bed turning	W	15	5.05 15	.10 n			1	4		0 29	17	200	70.1	10	no			no	no					
Stephenson 28/04/2	2011 E	Excavating in grid J,K and I10, bed turning	NW	15	5.00 15	.05 m				2		0			72.9	10	00			00	no					



Appendix C

Long term Passive VOC Monitoring

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LABORATORY ANALYSIS REPORT

REPORT NUMBER CUSTOMER GRADKO LAB REFERENCE DATE SAMPLES RECEIVED JOB NUMBER BOOKING IN REF. GCMS 4711 Vertase FLI Ltd GMSF 0576-0585 18.04.11 907BRI/5311 E 1992

SEMI-QUANTITATIVE ANALYSIS FOR TOP 10 VOC'S ON TENAX DIFFUSION TUBES BY GC/MS Analysis has been carried out in accordance with in-house method GLM 13

Tube Number Exposure Time(mins) Sample ID	GRA 09663 39980 North		
Top 10 VOC'S			
Compounds		ng on tube	ppb in air*
Tetrachloroethylene		311.12	3.89
Naphthalene		182.85	2.29
Toluene		55.14	0.69
Naphthalene, 2-methyl-		48.54	0.61
Benzene, 1,2,3-trichloro-4-methyl-		42.16	0.53
Trichloroethylene		28.85	0.36
m/p-Xylene		25.88	0.32
Naphthalene, 1-methyl-		20.62	0.26
Naphthalene, 2,7-dimethyl-		20.58	0.26
Acenaphthene		20.29	0.25
Tube Number	GRA 06118		
Exposure Time(mins)	39980		
Sample ID	North East		
Top 10 VOC'S			
Compounds		ng on tube	ppb in air*
Tetrachloroethylene		683.06	8.54
Toluene		149.70	1.87
Trichloroethylene		141.81	1.77
Benzene, 1,2,3-trichloro-4-methyl-		103.76	1.30
Benzene, 1,2-dichloro-		88.57	1.11

The Diffusion Tubes have been tested within the scope of Gradko International Ltd. Laboratory Quality Procedures calculations and assessments involving the exposure procedures and periods provided by the client are not within the scope of our UKAS accreditation. Those results obtained using exposure data shall be indicated by an asterisk. Any queries concerning the data in this report should be directed to the Laboratory Manager Gradko International Ltd.

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Page 1 of 6

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This signature	confirms the authenticity of these results
Signed	Batis
	Gates, Laboratory Supervisor





LABORATOR	Y ANALYSI	S REPORT	-
m/p-Xylene		84.51	1.06
Benzene, 1,2,4-trichloro-3-methyl-		66.11	0.83
Naphthalene		42.42	0.53
Benzene, 1,4-dichloro-2-methyl-		39.89	0.50
o-Xylene		29.05	0.36
Tube Number Exposure Time(mins) Sample ID	GRA 09616 39980 East		
Top 10 VOC'S			
Compounds		ng on tube	ppb in air*
Tetrachloroethylene		785.87	9.83
Benzene, 1,2,3-trichloro-4-methyl-		169.38	2.12
Toluene		160.23	2.00
Benzene, 1,2,4-trichloro-3-methyl-		80.41	1.01
Benzene, 1,4-dichloro-2-methyl-		69.62 60.07	0.87
Trichloroethylene m/p-Xylene		55.85	0.75 0.70
Benzene, 1,2,4-trichloro-		43.95	0.70
Phenol, 2,4-dichloro-6-methyl-		43.55	0.54
Naphthalene		36.55	0.46
Tube Number Exposure Time(mins)	GRA 00146 39980		
Sample ID	South East		
Top 10 VOC'S			
Compounds		ng on tube	ppb in air*
Tetrachloroethylene		464.17	5.80
Toluene		100.40	1.26
Benzene, 1,2,3-trichloro-4-methyl-		79.46	0.99
Benzene, 1,4-dichloro-2-methyl-		41.84	0.52
m/p-Xylene		40.27	0.50
Heptane, 2,2,4,6,6-pentamethyl-		36.69	0.46
Benzene, 1,2,4-trichloro-		35.59	0.45
Benzamide, N,N-dimethyl-		35.36	0.44
Trichloroethylene		30.60	0.38

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Benzene, 1,2,4-trichloro-3-methyl-

Report Number GCMS4711

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Page 2 of 6

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Signed.	tis
	ratory Supervisor

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LABORATORY ANALYSIS REPORT

Tube Number	GRA 09759
Exposure Time(mins)	39980
Sample ID	South

Top 10 VOC'S		
Compounds	ng on tube	ppb in air*
Tetrachloroethylene	139.58	1.75
Toluene	45.50	0.57
Benzene, 1,2,3-trichloro-4-methyl-	29.58	0.37
Naphthalene	24.08	0.30
m/p-Xylene	20.96	0.26
1SalphaPinene	19.99	0.25
Benzene, 1,2,4-trichloro-3-methyl-	18.07	0.23
Phenol	17.26	0.22
Benzene, 1,4-dichloro-2-methyl-	15.51	0.19
Benzene	11.56	0.14

Tube Number	GRA 09348
Exposure Time(mins)	39980
Sample ID	South West

Top 10 VOC'S

Compounds	ng on tube	ppb in air*
Tetrachloroethylene	201.19	2.52
Toluene	78.76	0.98
Benzene, 1,2,3-trichloro-4-methyl-	41.40	0.52
Benzamide, N,N-dimethyl-	40.76	0.51
Benzothiazole	31.87	0.40
m/p-Xylene	29.86	0.37
Dodecane	23.89	0.30
o-Xylene	21.46	0.27
Benzene, 1,2,4-trichloro-3-methyl-	18.57	0.23
Pentadecane	13.95	0.17

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Page 3 of 6

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	Gradko International Ltd
This sign	ature confirms the authenticity of these results
Signed	Byatis
	L. Gates, Laboratory Supervisor



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St. Martins House, 77 Wales Street Winchester, Hampshire SO23 0RH tel.: 01962 860331 fax: 01962 841339 e-mail:diffusion@gradko.co.uk

LABORATORY ANALYSIS REPORT

Tube Number	GRA 02574
Exposure Time(mins)	39980
Sample ID	West

Top 10 VOC'S		
Compounds	ng on tube	ppb in air*
Tetrachloroethylene	298.66	3.74
Toluene	64.38	0.81
m/p-Xylene	36.18	0.45
Benzene, 1,2,3-trichloro-4-methyl-	25.52	0.32
Naphthalene	24.34	0.30
Nonadecane	20.44	0.26
Trichloroethylene	20.34	0.25
Heptadecane	16.74	0.21
Ethylbenzene	16.71	0.21
o-Xylene	16.41	0.21

Tube Number	GRA 05938
Exposure Time(mins)	39980
Sample ID	North West

Top 10 VOC'S		
Compounds	ng on tube	ppb in air*
Tetrachloroethylene	266.47	3.33
Toluene	84.67	1.06
m/p-Xylene	60.49	0.76
Octadecane	32.48	0.41
o-Xylene	31.18	0.39
Dodecane	29.71	0.37
Benzene, 1,2,3-trichloro-4-methyl-	28.59	0.36
Heptadecane	22.67	0.28
Tridecane	21.42	0.27
Tetradecane	19.80	0.25

The Diffusion Tubes have been tested within the scope of Gradko International Ltd. Laboratory Quality Procedures calculations and assessments involving the exposure procedures and periods provided by the client are not within the scope of our UKAS accreditation. Those results obtained using exposure data shall be indicated by an asterisk. Any queries concerning the data in this report should be directed to the Laboratory Manager Gradko International Ltd.

Form LQF32b Issue 3 – March 2011

Report Number GCMS4711

Page 4 of 6

REPORT OFFICIALLY (CHECKED
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Gradko International Ltd This signature confirms the authenticity of these results Signed.....L. Gates, Laboratory Supervisor





LABORATORY ANALYSIS REPORT

Tube Number Exposure Time(mins) Sample ID	GRA 05951 39980 WWTW		
Top 10 VOC'S			
Compounds		ng on tube	ppb in air*
Tetrachloroethylene		33.41	0.42
Toluene		22.22	0.28
Benzene		13.05	0.16
o-Xylene		11.40	0.14
Benzothiazole		10.75	0.13
Octane		9.66	0.12
Pentadecane		9.48	0.12
m/p-Xylene		9.45	0.12
Benzene, 1,2,3-trichloro-4-methyl-		6.53	0.08
Phenol		6.16	0.08

Tube Number	GRA 09746
Exposure Time(mins)	39980
Sample ID	Church Road

Тор	10	voc's
-----	----	-------

Compounds	ng on tube	ppb in air*
Naphthalene	136.22	1.70
Tetrachloroethylene	39.76	0.50
m/p-Xylene	17.78	0.22
Tridecane	15.04	0.19
Toluene	14.93	0.19
Naphthalene, 2-methyl-	13.57	0.17
o-Xylene	13.08	0.16
Dodecane	11.11	0.14
Heptane, 2,2,4,6,6-pentamethyl-	10.21	0.13
Undecane	9.70	0.12

The Diffusion Tubes have been tested within the scope of Gradko International Ltd. Laboratory Quality Procedures calculations and assessments involving the exposure procedures and periods provided by the client are not within the scope of our UKAS accreditation. Those results obtained using exposure data shall be indicated by an asterisk. Any queries concerning the data in this report should be directed to the Laboratory Manager Gradko International Ltd.

Form LQF32b Issue 3 - March 2011

Report Number GCMS4711

Page 5 of 6

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	Gradko International Ltd
This signa	ature confirms the authenticity of these results
Signed	Reates
Signounn	L. Gates, Laboratory Supervisor

REPORT OFFICIALLY CHECKED





LABORATORY ANALYSIS REPORT

Tube Number Exposure Time(mins) Sample ID GRA 05160 39980 Queen's Close

Unicarb tube. Has to be analysed on a different method.

Semi-quantitative results for ng on tube are calculated using toluene standards.

M.Angelova

Analysts Name

Date of Analysis 19.04.11

Date of Report 20.04.11

The Diffusion Tubes have been tested within the scope of Gradko International Ltd. Laboratory Quality Procedures calculations and assessments involving the exposure procedures and periods provided by the client are not within the scope of our UKAS accreditation. Those results obtained using exposure data shall be indicated by an asterisk. Any queries concerning the data in this report should be directed to the Laboratory Manager Gradko International Ltd.

Form LQF32b Issue 3 - March 2011

REPORT OFFICIALLY CHECKED

Report Number GCMS4711

Page 6 of 6

This signatu	Gradko International Ltd re confirms the authenticity of these results
Signed	Katis
	. Gates, Laboratory Supervisor



Appendix D

Directional Dust Monitoring

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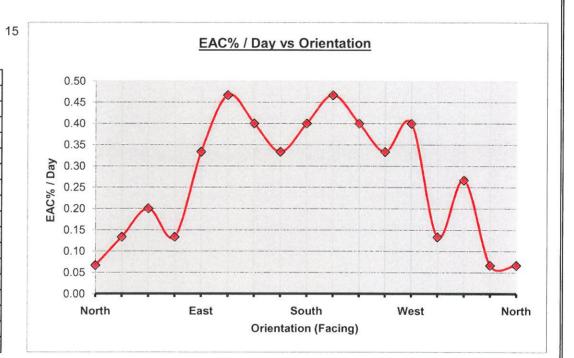


Gauge Number-North Location 907BRI

Sticky Pad Data

Date On	21/03/2011	Date Off	05/04/2011	Days =	
Clean =	90				

X Axis mm	Meter	Angle Deg	Orientation	EAC% / Day
0	89	360	North	0.07
20	89	337		0.07
40	86	314		0.27
60	88	291		0.13
80	84	269	West	0.40
100	85	246		0.33
120	84	223		0.40
140	83	200		0.47
160	84	177	South	0.40
180	85	154		0.33
200	84	131		0.40
220	83	109		0.47
240	85	86	East	0.33
260	88	63		0.13
280	87	40		0.20
300	88	17		0.13
315	89	0	North	0.07



Note:

Cells coloured red are inputs.

The rest are either constants or calculated values.

The calculation is based on taking readings at 20mm intervals along the sticky pad.



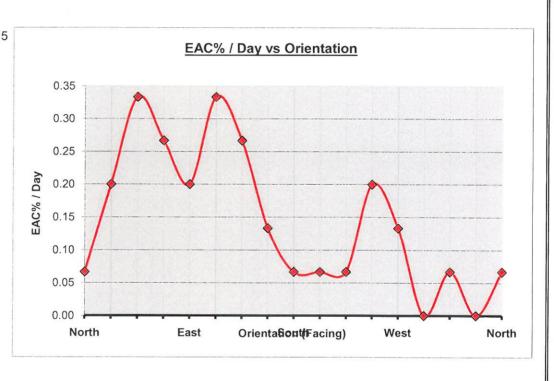
Sticky Pad Data

Gauge Number-East Location 907BRI

Sticky Pad Data

Date On 21/03/2011 Date Off 05/04/2011 Days = 15 Clean = 90

X Axis mm	Meter	Angle Deg	Orientation	EAC% / Day
0	89	360	North	0.07
20	90	337		0.00
40	89	314		0.07
60	90	291		0.00
80	88	269	West	0.13
100	87	246		0.20
120	89	223		0.07
140	89	200		0.07
160	89	177	South	0.07
180	88	154		0.13
200	86	131		0.27
220	85	109		0.33
240	87	86	East	0.20
260	86	63		0.27
280	85	40		0.33
300	87	17		0.20
315	89	0	North	0.07



Note:

Cells coloured red are inputs.

The rest are either constants or calculated values.

The calculation is based on taking readings at 20mm intervals along the sticky pad.

3	Chemtest	
	The right chemistry to deliver results	

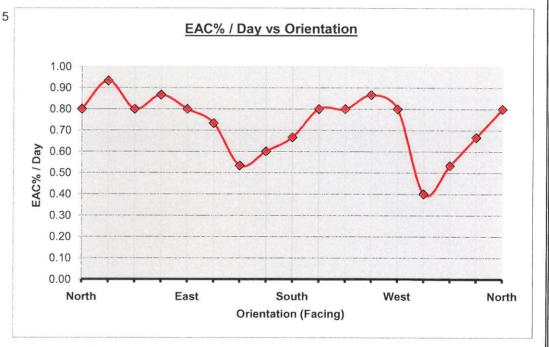
Sticky Pad Data

Gauge Number-West Location 907BRI

Sticky Pad Data

Date On 21/03/2011 Date Off 05/04/2011 Days = 15 Clean = 90

X Axis mm	Meter	Angle Deg	Orientation	EAC% / Day
0	78	360	North	0.80
20	80	337		0.67
40	82	314		0.53
60	84	291		0.40
80	78	269	West	0.80
100	77	246		0.87
120	78	223		0.80
140	78	200		0.80
160	80	177	South	0.67
180	81	154		0.60
200	82	131		0.53
220	79	109		0.73
240	78	86	East	0.80
260	77	63		0.87
280	78	40		0.80
300	76	17		0.93
315	78	0	North	0.80



Note:

Cells coloured red are inputs.

The rest are either constants or calculated values.

The calculation is based on taking readings at 20mm intervals along the sticky pad.

	INET LOC	cation 90	/BRI					
	Date Off	05/04/2011	Days = 15	[
	Dute on	00/04/2011	Day3 - 10		EAC%	6 / Day vs Orientation		
Meter	Angle Deg	Orientation	EAC% / Day	0.70				
88	360	North	0.13				1	
			0.27	0.60			×	
the second second second second in								
		·	0.47	0.50				
		West		2			•	
				0 .40				X
				/ %				
the second s	-		and the second se	Q 0.30				
		South	AV 903 1003					
and the second s			the second s	0.20				
				0.10	~			4
	and the second se			0.10				
		East		0.00				
					Eact	South	West	No
85			Contraction and the Contraction of the Contraction	NOTUT	Lasi		WESI	NO
0/	17		0.20			Orientation (Facing)		
	Data 21/03/2011 90 Meter 88 88 88 88 83 80 81 82 81 82 84 83 84 83 84 83 84 83 84 85	Data21/03/2011Date Off90Date Off90Date Off84360863378431483291802698124682223842008317784154861318610987868540	Data Date Off 05/04/2011 90 05/04/2011 90 05/04/2011 90 0 Meter Angle Deg Orientation 88 360 North 86 337 1 84 314 1 83 291 1 80 269 West 81 246 1 82 223 1 84 200 1 83 177 South 84 154 1 86 131 1 86 109 1 87 86 East 88 63 1 85 40 1	Data Date Off 05/04/2011 Days = 15 90 Date Off 05/04/2011 Days = 15 Meter Angle Deg Orientation EAC% / Day 88 360 North 0.13 86 337 0.27 84 314 0.40 83 291 0.47 80 269 West 0.67 81 246 0.60 82 223 0.53 84 200 0.40 83 177 South 0.47 84 200 0.53 84 200 0.40 83 177 South 0.47 84 154 0.27 86 131 0.27 86 109 0.27 87 86 East 0.20 88 63 0.13 0.33	Data $21/03/2011$ 90Date Off $05/04/2011$ Days =Days =15MeterAngle DegOrientationEAC% / Day88360North0.13863370.27843140.40832910.4780269West0.67812460.60822230.53842000.4083177South841540.40861310.27861090.278786East85400.33	Data Date Off 05/04/2011 Days = 15 Meter Angle Deg Orientation EAC% / Day 88 360 North 0.13 86 337 0.27 84 314 0.40 83 291 0.47 80 269 West 0.67 81 246 0.60 82 223 0.53 84 154 0.40 83 177 South 0.47 86 131 0.27 86 131 0.27 86 131 0.27 86 131 0.27 86 109 0.27 87 86 East 88 63 0.13 85 40 0.33	Data $21/03/2011$ Date Off $05/04/2011$ Days = 15 90 $EAC\% / Day$ $EAC\% / Day$ 88 360 North 0.13 86 337 0.27 84 314 0.40 83 291 0.47 80 269 West 0.67 81 246 0.60 82 223 0.53 84 154 0.40 83 177 South 0.47 86 131 0.27 86 109 0.27 87 86 63 109 0.27 87 86 63 85 40 0.33	Data 21/03/2011 Date Off 05/04/2011 Days = 15 90 Image: Deg Orientation EAC% / Day 88 360 North 0.13 86 337 0.27 84 314 0.40 83 291 0.47 80 269 West 0.67 81 246 0.60 82 223 0.40 83 177 South 0.47 84 154 0.40 86 131 0.27 86 109 0.27 87 86 East 0.13 85 40 0.33

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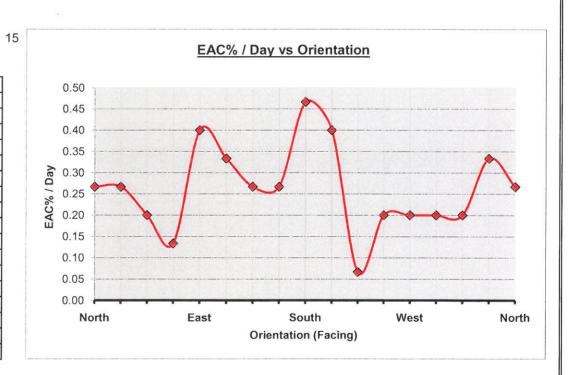
Sticky Pad Data

Gauge Number-NE2 Location 907BRI

Sticky Pad Data

Date On	21/03/2011	Date Off	05/04/2011	Days =	3
Clean =	90				

X Axis mm	Meter	Angle Deg	Orientation	EAC% / Day
0	86	360	North	0.27
20	85	337		0.33
40	87	314		0.20
60	87	291		0.20
80	87	269	West	0.20
100	87	246		0.20
120	89	223		0.07
140	84	200		0.40
160	83	177	South	0.47
180	86	154		0.27
200	86	131		0.27
220	85	109		0.33
240	84	86	East	0.40
260	88	63		0.13
280	87	40		0.20
300	86	17		0.27
315	86	0	North	0.27



Note:

Cells coloured red are inputs.

The rest are either constants or calculated values.

The calculation is based on taking readings at 20mm intervals along the sticky pad.



Sticky Pad Data

ne right chemistry to deliver results

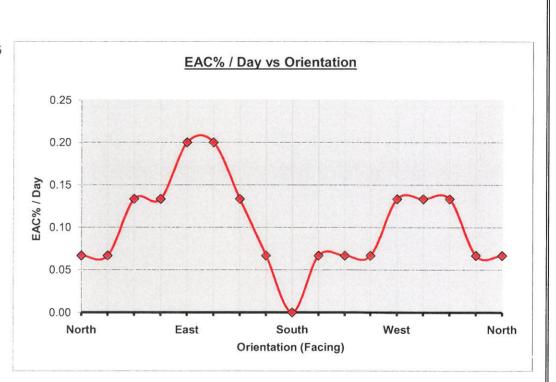
Gauge Number-South Location 907BRI

Sticky Pad Data

1

Date On	21/03/2011	Date Off	05/04/2011	Days =	15
Clean =	90				

X Axis mm	Meter	Angle Deg	Orientation	EAC% / Day
0	89	360	North	0.07
20	89	337		0.07
40	88	314		0.13
60	88	291		0.13
80	88	269	West	0.13
100	89	246		0.07
120	89	223		0.07
140	89	200		0.07
160	90	177	South	0.00
180	89	154		0.07
200	88	131		0.13
220	87	109		0.20
240	87	86	East	0.20
260	88	63		0.13
280	88	40		0.13
300	89	17		0.07
315	89	0	North	0.07



Note:

Cells coloured red are inputs.

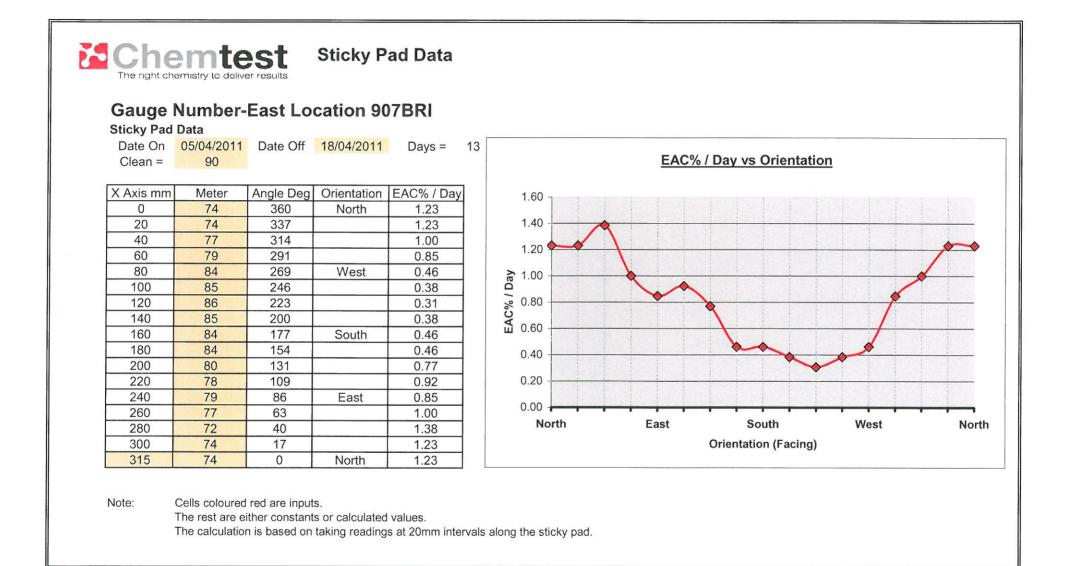
The rest are either constants or calculated values.

The calculation is based on taking readings at 20mm intervals along the sticky pad.

The right ch	emistry to delive		Sticky P	ad Data	
Sticky Pad	Data		ocation 9		13 <u>EAC% / Day vs Orientation</u>
X Axis mm	Meter	Angle Deg	Orientation	EAC% / Day	0.45
0	88	360	North	0.15	0.40
20	89	337		0.08	0.40
40	87	314		0.23	0.35
60	85	291		0.38	
80	88	269	West	0.15	≥ 0.30
100	89	246		0.08	0.25
120	89	223		0.08	78
140	87	200		0.23	S 0.20
160	86	177	South	0.31	^{¹¹} 0.15
180	88	154		0.15	
200	89	131		0.08	0.10
220	89	109		0.08	0.05
240	88	86	East	0.15	
260	88	63		0.15	0.00
280	89	40		0.08	North East South West Nort
300	88	17		0.15	Orientation (Facing)
315	89	0	North	0.08	

Note:

Cells coloured red are inputs. The rest are either constants or calculated values. The calculation is based on taking readings at 20mm intervals along the sticky pad.



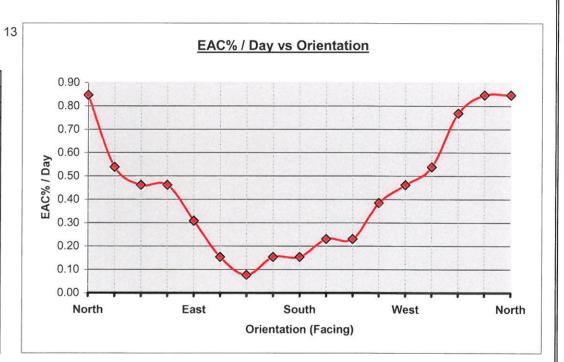
Chemtest	Sticky Pad Data
The right chemistry to deliver results	

Gauge Number-West Location 907BRI

Sticky Pad Data

Date On	05/04/2011	Date Off	18/04/2011	Days =	
Clean =	90				

X Axis mm	Meter	Angle Deg	Orientation	EAC% / Day
0	79	360	North	0.85
20	79	337		0.85
40	80	314		0.77
60	83	291		0.54
80	84	269	West	0.46
100	85	246		0.38
120	87	223		0.23
140	87	200		0.23
160	88	177	South	0.15
180	88	154		0.15
200	89	131		0.08
220	88	109		0.15
240	86	86	East	0.31
260	84	63		0.46
280	84	40		0.46
300	83	17		0.54
315	79	0	North	0.85



Note:

Cells coloured red are inputs.

The rest are either constants or calculated values.

The calculation is based on taking readings at 20mm intervals along the sticky pad.

Sticky Pad			cation 90	/ DKI	
	05/04/2011 90	Date Off	18/04/2011	Days = 13	EAC% / Day vs Orientation
X Axis mm	Meter	Angle Deg	Orientation	EAC% / Day	0.25
0	87	360	North	0.23	0.23
20	89	337	TTOTAT	0.08	
40	89	314		0.08	0.20
60	88	291		0.15	
80	87	269	West	0.23	0.15
100	88	246		0.15	01.0 BC% Day
120	89	223		0.08	0.10
140	89	200		0.08	
160	89	177	South	0.08	
180	89	154		0.08	0.05
200	90	131		0.00	
220	89	109		0.08	0.00
240	90	86	East	0.00	North East South West No
260	88	63		0.15	
280	89	40		0.08	-0.05
300	88	17		0.15	Orientation (Facing)
315	87	0	North	0.23	

-			1000			
	Ch	ler	no fr	OC		Sti
		ICI		62)L	Our
	The righ					

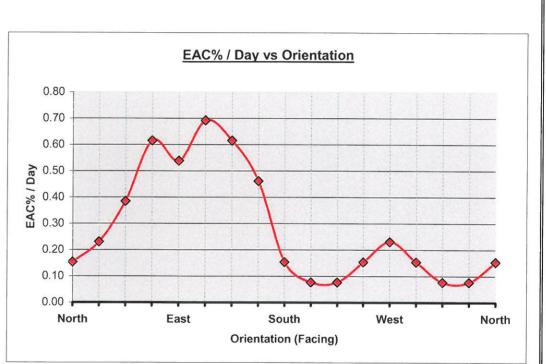
Sticky Pad Data

Gauge Number-NE2 Location 907BRI

Sticky Pad Data

Date On	05/04/2011	Date Off	18/04/2011	Days =	13
Clean =	90				

X Axis mm	Meter	Angle Deg	Orientation	EAC% / Day
0	88	360	North	0.15
20	89	337		0.08
40	89	314		0.08
60	88	291		0.15
80	87	269	West	0.23
100	88	246		0.15
120	89	223		0.08
140	89	200		0.08
160	88	177	South	0.15
180	84	154		0.46
200	82	131		0.62
220	81	109		0.69
240	83	86	East	0.54
260	82	63		0.62
280	85	40		0.38
300	87	17		0.23
315	88	0	North	0.15



Note:

Cells coloured red are inputs.

The rest are either constants or calculated values.

The calculation is based on taking readings at 20mm intervals along the sticky pad.

Sticky Pad		South L	ocation §	907BRI					
		Date Off	18/04/2011	Days = 13		EAC	% / Day vs Orientatio	n	
X Axis mm	Meter	Angle Deg	Orientation	EAC% / Day	1.40 ¬				
0	73	360	North	1.31	1.40				
20	76	337		1.08	1.20				
40	78	314		0.92					
60	80	291		0.77	1.00				
80	82	269	West	0.62	A.			1	×
100	83	246		0.54	08.0 Day 08.0 C%			/	
120	85	223		0.38	1%				
140	83	200		0.54	9 0.60	*			
160	82	177	South	0.62					
180	81	154		0.69	0.40				1 1
200	83	131		0.54					
220	82	109		0.62	0.20				
240	80	86	East	0.77	0.00				
260	77	63		1.00		Faat	South	West	North
280	76	40		1.08	North	East	South	West	North
300	74	17		1.23			Orientation (Facing)		
315	73	0	North	1.31					



Appendix E Groundwater Level Data

L

Date	BH6/06	S3/4	BH4	BH10B/06	BH9	S1/8	BH11*	S2/6	BHB1	W1 (n)	W2	W3 (s)	Riddy 1	Riddy 2	Riddy 3	Riddy 4	V F12	V N3	WS16	P107	P73
04/04/2011	10.247	10.365	9.873	Covered	10.467	Lost	9.640	Covered	9.270	No Access	No Access	9.620	9.190	9.295	9.528	9.631	9.936	10.052	10.056	10.113	10.320
05/04/2011	10.035	10.365	9.873	Covered	10.467	Lost	9.640	Covered	9.281	No Access	No Access	9.615	9.190	9.295	9.529	9.631	9.936	10.051	10.057	10.118	10.319
06/04/2011	10.269	10.371	9.921	Covered	10.414	Lost	9.652	Covered	9.279	No Access	No Access	9.620	9.190	9.296	9.528	9.632	9.978	10.010	10.032	10.116	9.931
07/04/2011	10.269	10.371	9.921	Covered	10.414	Lost	9.652	Covered	9.279	No Access	No Access	9.620	9.190	9.296	9.528	9.632	9.978	10.010	10.032	10.116	9.931
08/04/2011	10.248	10.366	9.922	Covered	10.408	Lost	9.687	Covered	9.300	No Access	No Access	9.620	9.180	9.273	9.515	9.619	9.988	10.004	10.027	10.090	10.265
11/04/2011	10.221	10.394	9.920	Covered	10.405	Lost	9.654	Covered	9.322	No Access	No Access	9.620	9.198	9.315	9.528	9.629	9.997	10.009	10.023	10.055	10.273
12/04/2011	10.204	10.414	9.909	Covered	10.390	Lost	9.650	Covered	9.289	No Access	No Access	9.620	9.196	9.322	9.508	9.645	10.032	10.000	10.010	10.057	10.263
13/04/2011	10.203	10.413	9.908	Covered	10.390	Lost	9.649	Covered	9.280	No Access	No Access	9.620	9.195	9.321	9.507	9.645	10.033	9.992	9.964	10.057	10.263
14/04/2011	10.203	10.413	9.908	Covered	10.390	Lost	9.649	Covered	9.280	No Access	No Access	9.620	9.195	9.321	9.507	9.645	10.033	9.992	9.964	10.057	10.263
15/04/2011	10.181	10.401	9.791	Covered	10.386	Lost	9.641	Covered	9.182	No Access	No Access	9.620	9.195	9.321	9.507	9.645	10.033	9.992	9.964	10.057	10.263
18/04/2011	10.179	10.400	9.785	Covered	10.379	Lost	9.640	Covered	9.181	No Access	No Access	9.620	9.198	9.322	9.507	9.639	9.978	9.972	9.956	10.055	10.264
19/04/2011	10.012	10.000	9.732	Covered	10.340	Lost	9.558	Covered	9.129	No Access	No Access	9.620	9.191	9.264	9.528	9.636	9.993	9.991	9.748	10.041	10.225
20/04/2011	9.999	10.000	9.706	Covered	10.339	Lost	9.557	Covered	9.117	No Access	No Access	DRY	9.201	9.265	9.527	9.636	9.986	9.992	9.749	10.040	10.224
21/04/2011	10.010	9.974	9.724	Covered	10.337	Lost	9.553	Covered	9.120	No Access	No Access	DRY	9.200	9.264	9.527	9.635	9.990	8.522	9.747	10.040	9.954
26/04/2011	10.134	10.134	9.831	Covered	10.343	Lost	9.334	Covered	9.273	No Access	No Access	DRY	9.243	9.270	9.527	9.646	9.952	9.943	9.955	10.057	9.793
27/04/2011	10.088	10.080	9.813	Covered	10.299	Lost	9.325	Covered	9.202	No Access	No Access	DRY	9.234	9.272	9.530	9.646	9.962	9.884	9.373	10.036	9.762
28/04/2011	10.088	10.080	9.824	Covered	10.323	Lost	9.327	Covered	9.247	No Access	No Access	DRY	9.222	9.265	9.534	9.645	9.957	9.890	9.954	10.037	9.780



Appendix F Surface Water Analysis Reports

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Scientific Analysis Laboratories

Certificate of Analysis

Hadfield House Hadfield Street Combrook Manchester M16 9FE Tel : 0161 874 2400 Fax : 0161 874 2468

Scientific Analysis Laboratories is a limited company registered in England and Wales (No 2514788) whose address is at Hadfield House, Hadfield Street, Manchester M16 9FE

Report Number: 233231-1

Date of Report: 08-Apr-2011

Customer: VertaseFLI Limited 19 Napier Court Barlborough Links Barlborough S43 4PZ

Customer Contact: The Project Management

Customer Job Reference: 907 BRI Date Job Received at SAL: 04-Apr-2011 Date Analysis Started: 04-Apr-2011 Date Analysis Completed: 08-Apr-2011

The results reported relate to samples received in the laboratory

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation This report should not be reproduced except in full without the written approval of the laboratory Tests covered by this certificate were conducted in accordance with SAL SOPs





Report checked and authorised by : Amelia McVennon Project Manager Issued by : Amelia McVennon Project Manager

SAL Reference: 233231 Customer Reference: 907 BRI

Soil

SAL Reference 233231 011 233231 01										
Customer Sample Reference J7 BV J8 BV										
			Da	ate Sampled	21-MAR-2011	21-MAR-201				

Analysed as Soil

Dotominana	moniou	Sample		•		-
Moisture	T277	AR	0.1	%	17	19

SAL Reference: 233231 Customer Reference: 907 BRI

Analysed as Soil

Vertase Hauxton Suite

Soil

					_	
			SA	L Reference	233231 011	233231 012
		Custor	ner Sampl	e Reference	J7 BV	J8 BV
	ate Sampled	21-MAR-2011	21-MAR-2011			
Determinand	Method	Test Sample	LOD	Units		
Electrical Conductivity	T7	AR	10	µS/cm	2600	2300
рН	T7	AR			7.8	8.0

SAL Reference: 233231 Customer Reference: 907 BRI

Soil

Vertase Hauxton OP/ON Suite

			SA	L Reference	233231 011	233231 012	
		Custon	ner Sampl	e Reference	J7 BV	J8 BV	
		- 95	Da	ate Sampled	21-MAR-2011	21-MAR-2011	
Determinand	Method	Test Sample	LOD	Units			
Dimefox	T16	AR	10	µg/kg	<10	<10	
Ethofumesate	T16	AR	10	µg/kg	<10	140	
Hempa	T16	AR	10	µg/kg	<10	<10	
Schradan	T16	AR	10	µg/kg	<10	<10	
Simazine	T16	AR	10	µg/kg	<10	<10	

Analysed as Soil

Analysed as Soil

SAL Reference: 233231 Customer Reference: 907 BRI

Soil

Vertase Hauxton Phenoxy Acid Herbs Suite

	233231 011 J7 BV 21-MAR-2011	233231 012 J8 BV 21-MAR-2011				
Determinand	Method	Test Sample	LOD	Units		
Dicamba	T16	AR	10	µg/kg	<10	<10
Dichlorprop	T16	AR	10	µg/kg	<10	<10
Phenoxy Acetic acid herbicide: MCPA	T16	AR	10	µg/kg	<10	<10
Mecoprop	T16	AR	10	µg/kg	<10	<10

SAL Reference: 233231 Customer Reference: 907 BRI

Soil Analysed as Soil

Vertase Hauxton SVOC Suite

			SA	L Reference	233231 011	233231 012
		Custor	ner Sampl	le Reference	J7 BV	J8 BV
			Da	ate Sampled	21-MAR-2011	21-MAR-2011
Determinand	Method	Test Sample	LOD	Units		
2,4,6-Trichlorophenol	T16	AR	100	µg/kg	<100	<100
2-Methyl-4,6-dinitrophenol	T16	AR	100	µg/kg	<100	<100
4-Chloro-2-methylphenol	T16	AR	100	µg/kg	<100	<100
Bis (2-chloroethyl) ether	T16	AR	100	µg/kg	<100	<100
Phenol	T16	AR	100	µg/kg	<100	<100

SAL Reference: 233231 Customer Reference: 907 BRI

Analysed as Soil

Soil Vertase Hauxton VOC Suite

SAL Reference 233231 011 233231 012 **Customer Sample Reference** J7 BV J8 BV Date Sampled 21-MAR-2011 21-MAR-2011 Test Sample Determinand Method LOD Units 1,2-Dichlorobenzene T54 AR 5 <5 µg/kg <5 (13) <5 (13) <5 1,2-Dichloroethane T54 AR 5 µg/kg Cis-1,2-Dichloroethylene T54 <5 <5 AR 5 µg/kg Cyclohexanone T54 AR 10 µg/kg <10 <10 T54 AR Tetrachloroethene 5 <5 <5 µg/kg Toluene T54 AR 1 µg/kg 1 1 Trichloroethene T54 AR <5 5 µg/kg <5 Vinyl chloride T54 AR 5 µg/kg <5 <5 T54 AR <1 Xylene (Total) 1 <1 µg/kg

> SAL Reference: 233231 Customer Reference: 907 BRI

> > Analysed as Water

Vertase Hauxton Suite

Water

			SA	L Reference	233231 001	233231 002	233231 003	233231 004	233231 005
		Custor	ner Sampl	le Reference	BH9	BH11	N3	S3/4	S3/6
			Da	ate Sampled	21-MAR-2011	21-MAR-2011	21-MAR-2011	21-MAR-2011	21-MAR-201
Determinand	Method	Test Sample	LOD	Units	-				
Electrical Conductivity	T7	AR	10	µS/cm	3200	1900	3400	5000	4300
pН	T7	AR			7.0	7.3	7.3	7.4	7.4

SAL Ret	ference:	233231							
Customer Ref	ference:	907 BRI							
Water		Analysed	as Water						
Vertase Hauxton Suite									
			SA	L Reference	233231 006	233231 007	233231 008	233231 009	233231 010
		Custor	ner Sampl	le Reference	VF12	BH6/06	BH4	BHB1	WS107
			Da	ate Sampled	21-MAR-2011	21-MAR-2011	21-MAR-2011	21-MAR-2011	21-MAR-2011
Determinand	Method	Test Sample	LOD	Units					
Electrical Conductivity	T7	AR	10	µS/cm	1400	1300	2800	3200	4800
pН	T7	AR			7.6	7.5	7.3	7.2	7.2

Produced by Scientific Analysis Laboratories, Hadfield House, Hadfield Street, Cornbrook, Manchester, M16 9FE Page 3 of 7

SAL Reference: 233231

Analysed as Water

Customer Reference: 907 BRI

Water

Vertase Hauxton OP/ON Suite

					•				
			SA	L Reference	233231 001	233231 002	233231 003	233231 004	233231 005
		Custor	ner Sampl	e Reference	BH9	BH11	N3	S3/4	S3/6
			Da	ate Sampled	21-MAR-2011	21-MAR-2011	21-MAR-2011	21-MAR-2011	21-MAR-2011
Determinand	Method	Test Sample	LOD	Units					
Dimefox	T16	AR	0.1	µg/l	<0.1	<0.1	<0.1	⁽⁹⁾ <1.0	⁽⁹⁾ <1.0
Ethofumesate	T16	AR	0.1	µg/l	12	6.6	5.5	18	230
Hempa	T16	AR	0.1	µg/l	0.3	<0.1	<0.1	67	⁽⁹⁾ <1.0
Schradan	T16	AR	0.1	µg/l	<0.1	2.9	0.2	29	430
Simazine	T16	AR	0.01	µg/l	<0.01	0.77	0.02	⁽⁹⁾ <1.0	⁽⁹⁾ <1.0

SAL Reference: 233231 Customer Reference: 907 BRI

Water Vertase Hauxton OP/ON Suite

Analysed as Water

			SA	L Reference	233231 006	233231 007	233231 008	233231 009	233231 010
		Custon	ner Sampl	e Reference	VF12	BH6/06	BH4	BHB1	WS107
			21-MAR-2011	21-MAR-2011	21-MAR-2011	21-MAR-2011			
Determinand	Method	Test Sample	LOD	Units					
Dimefox	T16	AR	0.1	µg/l	⁽⁹⁾ <1.0	<0.1	⁽⁹⁾ <1.0	⁽⁹⁾ <1.0	<0.1
Ethofumesate	T16	AR	0.1	µg/l	350	2.0	250	190	1.1
Hempa	T16	AR	0.1	µg/l	⁽⁹⁾ <1.0	<0.1	⁽⁹⁾ <1.0	⁽⁹⁾ <1.0	0.6
Schradan	T16	AR	0.1	µg/l	⁽⁹⁾ <1.0	<0.1	18	15	0.3
Simazine	T16	AR	0.01	µg/l	4.6	<0.01	2.3	2.1	< 0.01

SAL Reference: 233231

Customer Reference: 907 BRI

Analysed as Water

Water

Vertase Hauxton Phenoxy Acid Herbs Suite

									_
			SA	L Reference	233231 001	233231 002	233231 003	233231 004	233231 005
		Custon	ner Sampl	e Reference	BH9	BH11	N3	S3/4	S3/6
Date Sampled 21-MAR-2011 21-MAR-201									
Determinand	Method	Test Sample	LOD	Units				10 M	
Dicamba	T16	AR	0.1	µg/l	<0.1	<0.1	<0.1	1.2	52
Dichlorprop	T16	AR	0.1	µg/l	<0.1	<0.1	<0.1	38	1500
Phenoxy Acetic acid herbicide: MCPA	T16	AR	0.1	µg/l	<0.1	<0.1	<0.1	<0.1	1800
Mecoprop	T16	AR	0.1	µg/l	60	3.3	9.3	140	1100

SAL Reference:	233231											
Customer Reference:	907 BRI											
Water	Analysed as V	Vater										
/ertase Hauxton Phenoxy Acid Herbs Suite												
SAL Reference 233231 006 233231 007 233231 008 233231 009 233231 01												
Customer Sample Reference VF12 BH6/06 BH4 BHB1 WS107												
			Da	ate Sampled	21-MAR-2011	21-MAR-2011	21-MAR-2011	21-MAR-2011	21-MAR-2011			
Determinand	Method	Test Sample	LOD	Units								
Dicamba	T16	AR	0.1	µg/l	0.4	<0.1	12	12	0.2			
Dichlorprop	T16	AR	0.1	µg/l	2.0	<0.1	59	45	2.4			
Phenoxy Acetic acid herbicide: MCPA	T16	AR	0.1	µg/l	4.4	<0.1	260	200	<0.1			
Месоргор	T16	AR	0.1	µg/l	49	0.3	210	200	96			

SAL Reference: 233231 Customer Reference: 907 BRI

Analysed as Water

Water

Vertase Hauxton SVOC Suite

			SA	L Reference	233231 001	233231 002	233231 003	233231 004	233231 005	
		Custor	ner Sampl	e Reference	BH9	BH11	N3	S3/4	S3/6	
Date Sampled 21-MAR-2011 21-MAR-2011 21-MAR-2011 21-MAR-2011 21-MAR-2011 21-MAR-20										
Determinand	Method	Test Sample	LOD	Units						
2,4,6-Trichlorophenol	T16	AR	10	µg/l	<10	<10	<10	<10	1300	
2-Methyl-4,6-dinitrophenol	T16	AR	10	µg/l	<10	<10	<10	<10	⁽⁹⁾ <1000	
4-Chloro-2-methylphenol	T16	AR	10	µg/l	<10	<10	<10	60	1100	
Bis (2-chloroethyl) ether	T16	AR	10	µg/l	190	30	230	1700	6400	
Phenol	T16	AR	10	µg/l	<10	<10	<10	<10	⁽⁹⁾ <1000	

SAL Reference: 233231 Customer Reference: 907 BRI

Water

Analysed as Water

Vertase Hauxton SVOC Su	ite								
			SA	L Reference	233231 006	233231 007	233231 008	233231 009	233231 010
		Custon	ner Sampl	e Reference	VF12	BH6/06	BH4	BHB1	WS107
			Da	ate Sampled	21-MAR-2011	21-MAR-2011	21-MAR-2011	21-MAR-2011	21-MAR-2011
Determinand	Method	Test Sample	LOD	Units					1
2,4,6-Trichlorophenol	T16	AR	10	µg/l	<10	<10	<10	<10	⁽⁹⁾ <1000
2-Methyl-4,6-dinitrophenol	T16	AR	10	µg/l	<10	<10	<10	<10	⁽⁹⁾ <1000
4-Chloro-2-methylphenol	T16	AR	10	µg/l	<10	<10	590	<10	⁽⁹⁾ <1000
Bis (2-chloroethyl) ether	T16	AR	10	µg/l	<10	<10	160	140	2800
Phenol	T16	AR	10	µg/l	<10	<10	<10	<10	⁽⁹⁾ <1000

SAL Reference: 233231

Customer Reference: 907 BRI Water Analysed as Water Vertase Hauxton VOC Suite 233231 001 233231 002 233231 003 233231 004 233231 005 SAL Reference **Customer Sample Reference** BH9 BH11 N3 S3/4 S3/6 Date Sampled 21-MAR-2011 21-MAR-2011 21-MAR-2011 21-MAR-2011 21-MAR-2011 Test Sample Determinand Method LOD Units 1,2-Dichlorobenzene T54 AR 1 µg/l <1 <1 <1 <1 ⁽¹⁹⁾ 870 ^(13,19) 900 ⁽¹³⁾ <1 ⁽¹³⁾ <1 ⁽¹³⁾ <1 ⁽¹³⁾ <1 1,2-Dichloroethane T54 AR 1 µg/l Cis-1,2-Dichloroethylene T54 AR 1 2 4 1 1 ⁽¹⁹⁾ 10000 µg/l (19,9) <200 Cyclohexanone T54 AR 10 µg/l <10 <10 <10 <10 ⁽¹⁹⁾ 54000 Tetrachloroethene T54 AR <1 1 µg/l <1 <1 <1 ⁽¹⁹⁾ 19000 1 Toluene T54 AR µg/l <1 <1 <1 66 (19) 39000 T54 Trichloroethene AR 1 <1 <1 <1 <1 µg/l ⁽¹⁹⁾ 680 Vinyl chloride T54 AR 1 µg/l <1 <1 <1 1 ⁽¹⁹⁾ 5100 Xylene (Total) T54 AR 60 1 3 <1 <1 µg/l

SAL Reference: 233231 Customer Reference: 907 BRI

Analysed as Water

Water

Vertase Hauxton VOC Su	ite								
			SA	L Reference	233231 006	233231 007	233231 008	233231 009	233231 010
		Custor	ner Sampl	e Reference	VF12	BH6/06	BH4	BHB1	WS107
			Da	ate Sampled	21-MAR-2011	21-MAR-2011	21-MAR-2011	21-MAR-2011	21-MAR-2011
Determinand	Method	Test Sample	LOD	Units					
1,2-Dichlorobenzene	T54	AR	1	µg/l	2	<1	2	2	<1
1,2-Dichloroethane	T54	AR	1	µg/l	⁽¹³⁾ <1	⁽¹³⁾ <1	⁽¹³⁾ 17	⁽¹³⁾ 14	⁽¹³⁾ <1
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l	4	<1	⁽¹⁹⁾ 1200	⁽¹⁹⁾ 700	33
Cyclohexanone	T54	AR	10	µg/l	<10	<10	<10	<10	<10
Tetrachloroethene	T54	AR	1	µg/l	40	24	31	58	3
Toluene	T54	AR	1	µg/l	4	3	13	2	<1
Trichloroethene	T54	AR	1	µg/l	10	4	17	10	2
Vinyl chloride	T54	AR	1	µg/l	3	<1	250	190	22
Xylene (Total)	T54	AR	1	µg/l	<1	<1	87	120	<1

Index to symbols used in 233231-1

Value	Description								
AR	As Received								
9	LOD raised due to dilution of sample								
13	Results have been blank corrected.								
19	Due to high levels the analysis was conducted on a diluted sample								
U	Analysis is UKAS accredited								
Ν	Analysis is not UKAS accredited								

Method Index

Value	Description
T7	Probe
T16	GC/MS
T54	GC/MS (Headspace)
T277	Grav (1 Dec) (40 C)

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Moisture	T277	AR	0.1	%	N	011-012
Electrical Conductivity	T7	AR	10	µS/cm	N	011-012
рН	T7	AR			U	011-012
Dimefox	T16	AR	10	µg/kg	N	011-012
Ethofumesate	T16	AR	10	µg/kg	N	011-012
Hempa	T16	AR	10	µg/kg	N	011-012
Schradan	T16	AR	10	µg/kg	N	011-012
Simazine	T16	AR	10	µg/kg	N	011-012
Dicamba	T16	AR	10	µg/kg	N	011-012
Dichlorprop	T16	AR	10	µg/kg	N	011-012
Phenoxy Acetic acid herbicide: MCPA	T16	AR	10	µg/kg	N	011-012
Месоргор	T16	AR	10	µg/kg	N	011-012
2,4,6-Trichlorophenol	T16	AR	100	µg/kg	U	011-012
2-Methyl-4,6-dinitrophenol	T16	AR	100	µg/kg	N	011-012
4-Chloro-2-methylphenol	T16	AR	100	µg/kg	N	011-012
Bis (2-chloroethyl) ether	T16	AR	100	µg/kg	U	011-012
Phenol	T16	AR	100	µg/kg	U	011-012
1,2-Dichlorobenzene	T54	AR	5	µg/kg	U	011-012
1,2-Dichloroethane	T54	AR	5	µg/kg	U	011-012
Cis-1,2-Dichloroethylene	T54	AR	5	µg/kg	U	011-012
Cyclohexanone	T54	AR	10	µg/kg	N	011-012
Tetrachloroethene	T54	AR	5	µg/kg	U	011-012
Toluene	T54	AR	1	µg/kg	U	011-012
Trichloroethene	T54	AR	5	µg/kg	U	011-012
Vinyl chloride	T54	AR	5	µg/kg	U	011-012
Xylene (Total)	T54	AR	1	µg/kg	U	011-012

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Electrical Conductivity	T7	AR	10	µS/cm	N	001-010
рН	T7	AR			U	001-010
Dimefox	T16	AR	0.1	µg/l	N	001-010
Ethofumesate	T16	AR	0.1	µg/l	N	001-010
Hempa	T16	AR	0.1	µg/l	N	001-010
Schradan	T16	AR	0.1	µg/l	N	001-010
Simazine	T16	AR	0.01	µg/l	N	001-010
Dicamba	T16	AR	0.1	µg/l	N	001-010
Dichlorprop	T16	AR	0.1	µg/l	N	001-010
Phenoxy Acetic acid herbicide: MCPA	T16	AR	0.1	µg/l	N	001-010
Месоргор	T16	AR	0.1	µg/l	N	001-010
2,4,6-Trichlorophenol	T16	AR	10	µg/l	U	001-010
2-Methyl-4,6-dinitrophenol	T16	AR	10	µg/l	N	001-010
4-Chloro-2-methylphenol	T16	AR	10	µg/l	N	001-010
Bis (2-chloroethyl) ether	T16	AR	10	µg/l	U	001-010
Phenol	T16	AR	10	µg/l	U	001-010
1,2-Dichlorobenzene	T54	AR	1	µg/l	U	001-010
1,2-Dichloroethane	T54	AR	1	µg/l	U	001-010
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l	U	001-010
Cyclohexanone	T54	AR	10	µg/l	N	001-010
Tetrachloroethene	T54	AR	1	µg/l	U	001-010
Toluene	T54	AR	1	µg/l	U	001-010
Trichloroethene	T54	AR	1	µg/l	U	001-010
Vinyl chloride	T54	AR	1	µg/l	U	001-010
Xylene (Total)	T54	AR	1	µg/l	U	001-010





Scientific Analysis Laboratories

Certificate of Analysis

Hadfield House Hadfield Street Combrook Manchester M16 9FE Tel : 0161 874 2400 Fax : 0161 874 2468

Scientific Analysis Laboratories is a limited company registered in England and Wales (No 2514788) whose address is at Hadfield House, Hadfield Street, Manchester M16 9FE

Report Number: 234169-1

Date of Report: 18-Apr-2011

Customer: VertaseFLI Limited 19 Napier Court Barlborough Links Barlborough S43 4PZ

Customer Contact: The Project Management

Customer Job Reference: 907 BRI Date Job Received at SAL: 12-Apr-2011 Date Analysis Started: 12-Apr-2011 Date Analysis Completed: 18-Apr-2011

The results reported relate to samples received in the laboratory

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation This report should not be reproduced except in full without the written approval of the laboratory Tests covered by this certificate were conducted in accordance with SAL SOPs





Report checked and authorised by : Amelia McVennon Project Manager Issued by : Amelia McVennon Project Manager



SAL Reference: 234169

Analysed as Water

Customer	Reference:	907 BRI
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Water

Vertase Hauxton Suite

vertase flauxion Suite								
			SA	L Reference	234169 001	234169 002	234169 003	234169 004
		Custon	ner Sampl	CAM UP	CAM DOWN	RIDDY UP	RIDDY DOWN	
			Da	12-APR-2011	12-APR-2011	12-APR-2011	12-APR-2011	
Determinand	Method	Test Sample	LOD	Units				
Electrical Conductivity	T7	AR	10	µS/cm	960	930	980	980
рН	T7	AR			7.2	8.0	8.1	8.2

SAL Reference: 234169

Customer Reference: 907 BRI

Water Analysed as Water

Vertase Hauxton OP/ON Suite

	SAL Reference				234169 001	234169 002	234169 003	234169 004	
		Custor	ner Sampl	e Reference	e CAM UP CAM DOWN		RIDDY UP	RIDDY DOWN	
Date Sample					12-APR-2011	12-APR-2011	12-APR-2011	12-APR-2011	
Determinand	Method	Test Sample	LOD	Units			1000		
Dimefox	T16	AR	0.1	µg/l	<0.1	<0.1	<0.1	<0.1	
Ethofumesate	T16	AR	0.1	µg/l	<0.1	0.1	<0.1	0.2	
Hempa	T16	AR	0.1	µg/l	<0.1	<0.1	<0.1	<0.1	
Schradan	T16	AR	0.1	µg/l	<0.1	<0.1	<0.1	<0.1	
Simazine	T16	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	

SAL Reference: 234169 Customer Reference: 907 BRI

Analysed as Water

Vertase Hauxton Phenoxy Acid Herbs Suite

Water

	1.25	1.00	SA	L Reference	234169 001	234169 002	234169 003	234169 004
	Customer Sample Reference							RIDDY DOWN
			Da	ate Sampled	12-APR-2011	12-APR-2011	12-APR-2011	12-APR-2011
Determinand	Method	Test Sample	LOD	Units				
Dicamba	T16	AR	0.1	µg/l	<0.1	<0.1	<0.1	<0.1
Dichlorprop	T16	AR	0.1	µg/l	<0.1	<0.1	<0.1	<0.1
Phenoxy Acetic acid herbicide: MCPA	T16	AR	0.1	µg/l	<0.1	<0.1	<0.1	<0.1
Mecoprop	T16	AR	0.1	µg/l	<0.1	<0.1	<0.1	<0.1

SAL Reference: 234169 Customer Reference: 907 BRI

Water Analysed as Water

Vertase Hauxton SVOC Suite

			SA	234169 001	234169 002	234169 003	234169 004	
	ner Sampl	CAM UP	CAM DOWN	RIDDY UP	RIDDY DOWN			
	12-APR-2011	12-APR-2011	12-APR-2011	12-APR-2011				
Determinand	Method	Test Sample	LOD	Units				
2,4,6-Trichlorophenol	T16	AR	10	µg/l	<10	<10	<10	<10
2-Methyl-4,6-dinitrophenol	T16	AR	10	µg/l	<10	<10	<10	<10
4-Chloro-2-methylphenol	T16	AR	10	µg/l	<10	<10	<10	<10
Bis (2-chloroethyl) ether	T16	AR	10	µg/l	<10	<10	<10	<10
Phenol	T16	AR	10	µg/l	<10	<10	<10	<10

SAL Re	eference:	234169						
Customer Re	eference:	907 BRI						
Water		Analysed as	s Water					
Vertase Hauxton VOC Su	ite							
			SA	L Reference	234169 001	234169 002	234169 003	234169 004
		Custor	ner Sampl	e Reference	CAM UP	CAM DOWN	RIDDY UP	RIDDY DOWN
			D	ate Sampled	12-APR-2011	12-APR-2011	12-APR-2011	12-APR-2011
Determinand	Method	Test Sample	LOD	Units				
1,2-Dichlorobenzene	T54	AR	1	µg/l	<1	<1	<1	<1
1,2-Dichloroethane	T54	AR	1	µg/l	⁽¹³⁾ <1	⁽¹³⁾ <1	⁽¹³⁾ <1	⁽¹³⁾ <1
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l	<1	3	<1	6
Cyclohexanone	T54	AR	10	µg/l	<10	<10	<10	<10
Tetrachloroethene	T54	AR	1	µg/l	3	1	2	2
Toluene	T54	AR	1	µg/l	<1	<1	<1	<1
Trichloroethene	T54	AR	1	µg/l	<1	5	<1	9
Vinyl chloride	T54	AR	1	µg/l	<1	<1	<1	<1
Xylene (Total)	T54	AR	1	µg/l	<1	<1	<1	<1

Index to symbols used in 234169-1

Value	Description
AR	As Received
13	Results have been blank corrected.
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

Value	Description
T7	Probe
T16	GC/MS
T54	GC/MS (Headspace)

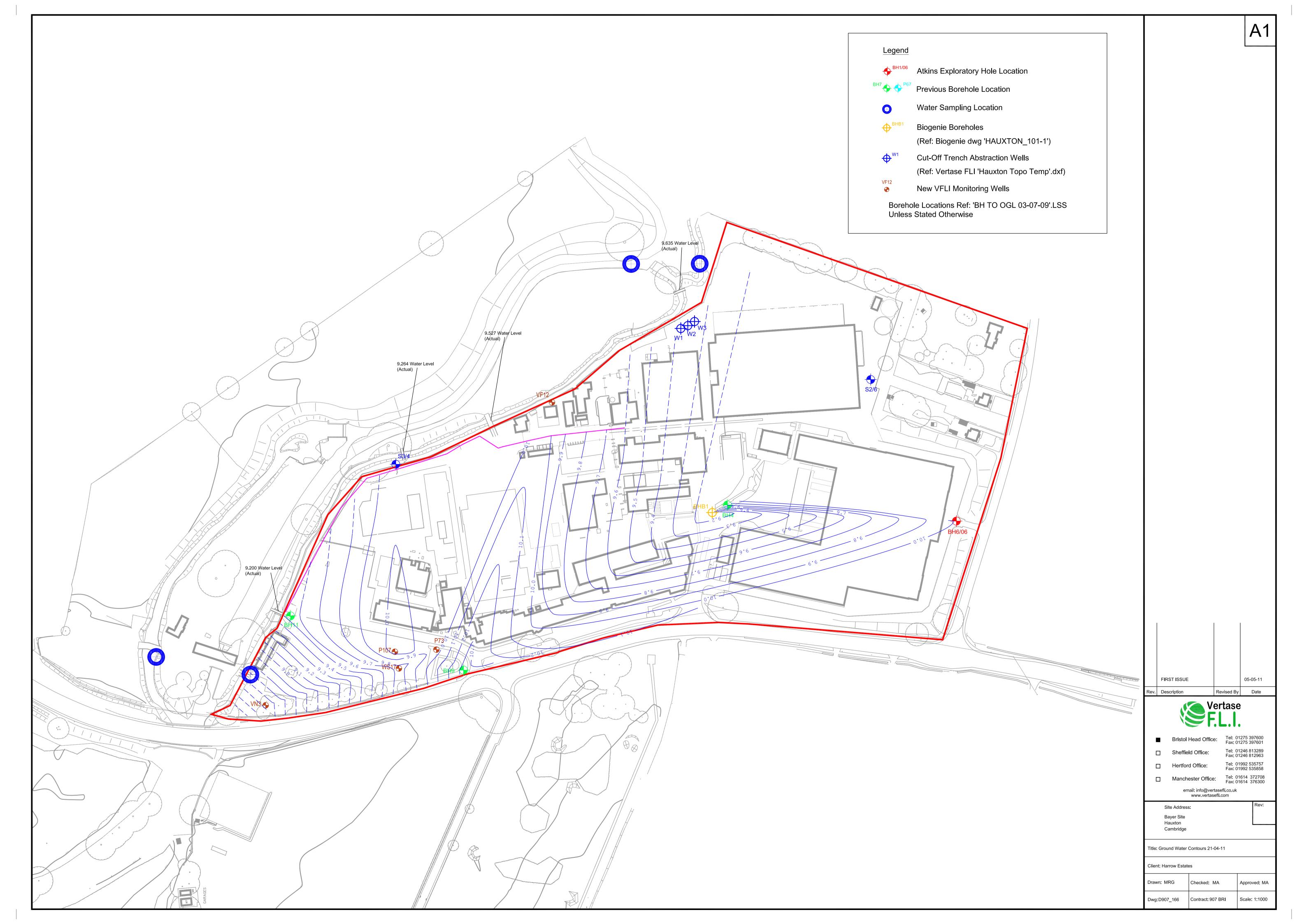
Accreditation Summary

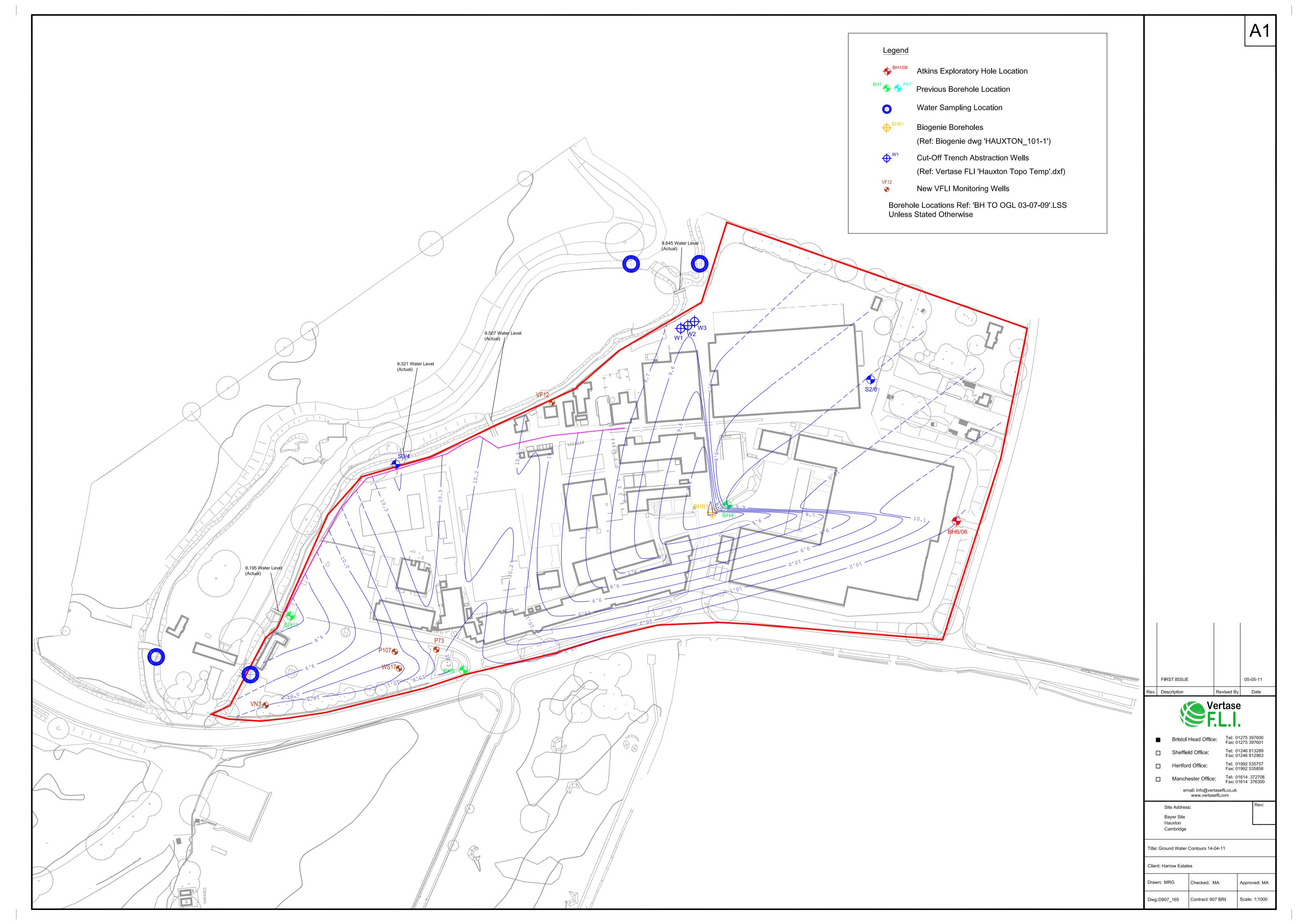
Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Electrical Conductivity	T7	AR	10	µS/cm	N	001-004
pH	T7	AR			U	001-004
Dimefox	T16	AR	0.1	µg/l	N	001-004
Ethofumesate	T16	AR	0.1	µg/l	N	001-004
Hempa	T16	AR	0.1	µg/l	N	001-004
Schradan	T16	AR	0.1	µg/l	N	001-004
Simazine	T16	AR	0.01	µg/l	N	001-004
Dicamba	T16	AR	0.1	µg/l	N	001-004
Dichlorprop	T16	AR	0.1	µg/l	N	001-004
Phenoxy Acetic acid herbicide: MCPA	T16	AR	0.1	µg/l	N	001-004
Месоргор	T16	AR	0.1	µg/l	N	001-004
2,4,6-Trichlorophenol	T16	AR	10	µg/l	U	001-004
2-Methyl-4,6-dinitrophenol	T16	AR	10	µg/l	N	001-004
4-Chloro-2-methylphenol	T16	AR	10	µg/l	N	001-004
Bis (2-chloroethyl) ether	T16	AR	10	µg/l	U	001-004
Phenol	T16	AR	10	µg/l	U	001-004
1,2-Dichlorobenzene	T54	AR	1	µg/l	U	001-004
1,2-Dichloroethane	T54	AR	1	µg/l	U	001-004
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l	U	001-004
Cyclohexanone	T54	AR	10	µg/l	N	001-004
Tetrachloroethene	T54	AR	1	µg/l	U	001-004
Toluene	T54	AR	1	µg/l	U	001-004
Trichloroethene	T54	AR	1	µg/l	U	001-004
Vinyl chloride	T54	AR	1	µg/l	U	001-004
Xylene (Total)	T54	AR	1	µg/l	U	001-004

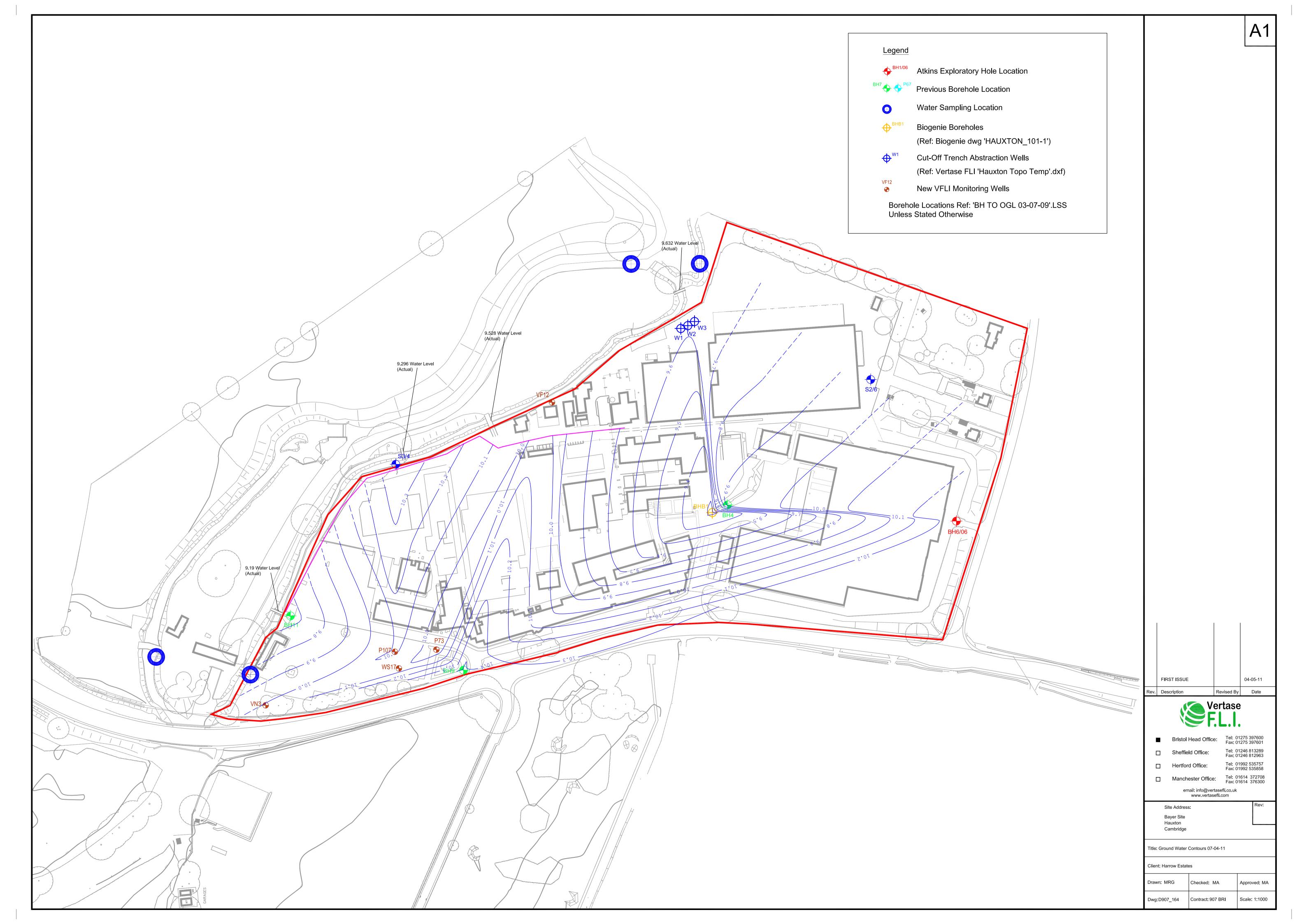


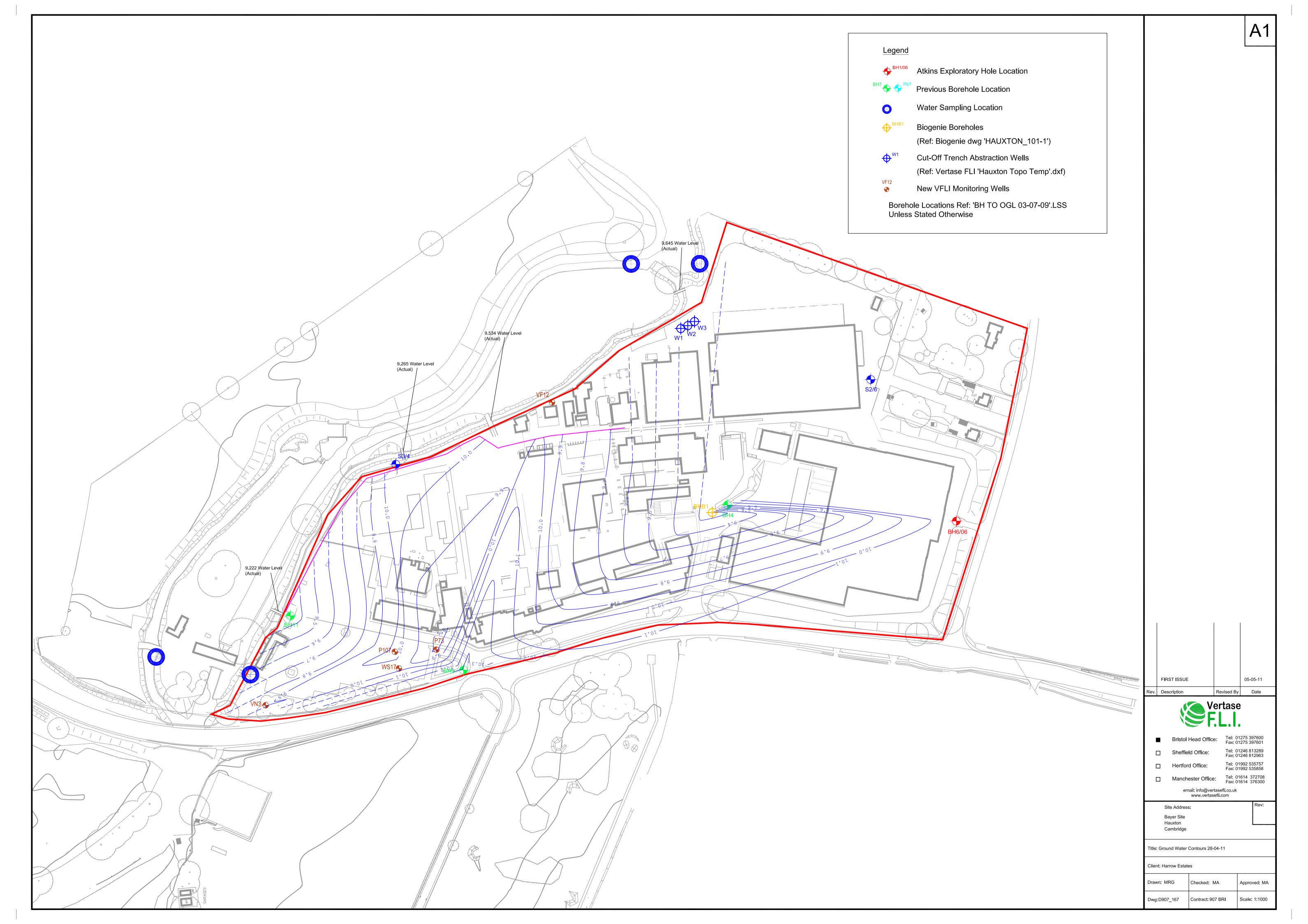
Appendix G Groundwater Contour Plots

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Appendix H Waste Water Treatment Plant Discharge Analysis

L

											Total Atrazine.					
				Suspended		Biochemical					Trietazine					
			Sulphate	Solids	Ammoniacal	Oxygen					and					
	Bromide	Chloride	lon	(Total)	Nitrogen	Demand	pН	Atrazine	Trietazine	Simazine	Simazine	Benazolin	2,3,6-TBA	Dicamba	Hempa	Schradan
Sample Taken Report Date Report Number Sample Location	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l		µg/l	µg/l	µg/l	ug/l	µg/l	µg/l	µg/l	µg/l	µg/l
Consented Levels	50	3000	5000	45	15	30	na	T	otal of all th	ree	250	50	20	50	274	135
01/03/2010 17/03/2010 193447 Discharge Point	0.30	84.00	150.00	<10	<0.05	<3	8.4	<0.02	0.07	<0.01	0.07	<0.1	0.40	<0.1	<0.1	<0.1
30/03/2010 09/04/2010 195429 Discharge Point	0.40	110.00	180.00	<10	<0.05	<3	8.7	<0.01	<0.01	<0.01	0.00	<0.1	0.30	<0.1	0.40	<0.1
08/04/2010 13/04/2010 196139 T99 Circ	<1.0	110.00	190.00	<10	<0.05	<3	8.0	<0.01	<0.01	<0.01	0.00	<0.1	<0.1	<0.1	2.90	0.40
10/04/2010 19/04/2010 196379 T100 Circ	<1.0	110.00	190.00	<10	0.05	<3	7.9		0.01	<0.01	0.01	<0.1	<0.1	<0.1	0.90	0.30
12/04/2010 21/04/2010 196517 T100 Circ	<1.0	1100.00	200.00	<10	<0.05	<3	8.2	<0.01	<0.01	<0.01	0.00	<0.1	<0.1	<0.1	1.50	<0.1
28/04/2010 19/05/2010 199291 Discharge Point	<1.0	130.00	200.00	<10	<0.05	<3	8.1	<0.01	<0.01	<0.01	0.00	<0.1	<0.1	<0.1	5.10	1.50
07/05/2010 17/05/2010 199176 T99 Discharge	<1.0	110.00	200.00	<10	<0.05	6.6	8.2	<0.01	<0.01	<0.01	0.00	<0.2	3.00	<0.2	3.30	0.60
18/05/2010 01/06/2010 200382 Discharge Point	<1.0	180.00	280.00	<10	0.09	<3	8.0	<0.01	0.01	<0.01	0.01	0.60	5.20	0.20	6.30	3.80
28/05/2010 17/06/2010 201487 Discharge Point	<1.0	130.00	210.00	<10	<0.05	<3	8.1	<0.01	<0.01	<0.01	0.00	<0.1	1.30	<0.1	4.30	1.10
15/06/2010 28/06/2010 203351 WTW Discharge	2.7	240.00	320.00	<10	0.05	<3	8.1	<0.01	0.02	<0.01	0.02	<0.1	2.40	0.2	4.10	1.00
01/07/2010 19/07/2010 205613 WWTW Discharge	3.3	290.00	370.00	13	0.07	<3	8.1	<0.01	<0.01	<0.01	0.00	<0.1	0.40	<0.1	<0.1	<0.1
05/08/2010 16/08/2010 208693 WWTW Discharge	<1.0	160.00	300.00	<10	<0.05	<3	8.0	0.02	0.09	0.02	0.13	<0.5	0.40	<0.1	<0.1	<0.1
19/08/2010 26/08/2010 209961 WWTW Discharge	<0.1	160.00	260.00	<10	< 0.05	<3	7.7	< 0.01	<0.01	<0.01	0.00	<0.1	<0.1	<0.1	<0.1	<0.1
01/09/2010 09/09/2010 211356 WWTW Discharge	2.6	180.00	280.00	<10	<0.05	5	8.1	<0.01	<0.01	<0.01	0.00	<0.1	<0.1	<0.1	2.9	<0.1
16/09/2010 29/09/2010 212901 WWTW Discharge	<0.1	86.00	170.00	<10	0.08	<3	7.9	< 0.01	<0.01	<0.01	0.00	<0.1	<0.1	<0.1	24	3.5
24/09/2010 04/10/2010 213745 WWTW Discharge	<0.1	160.00	340.00	35	< 0.05	<3	8.0	<0.01	<0.01	<0.01	0.00	<0.1	<0.1	<0.1	24	0.6
08/10/2010 21/10/2010 215625 WWTW Discharge	<0.1	150.00	270.00	<10	< 0.05	<3	8.2	< 0.01	<0.01	<0.01	0.00	<0.1	<0.1	<0.1	52	2.2
21/10/2010 01/11/2010 216826 WWTW Discharge	<0.1	200.00	240.00	11	< 0.05	<3	7.7	<0.01	<0.01	<0.01	0.00	<0.1	<0.1	<0.1	24	9.4
10/11/2010 22/11/2010 218850 WWTW Discharge	<0.1	81.00	120.00	<10	< 0.05	<3	8.1	< 0.01	0.03	< 0.01	0.03	<0.1	0.7	<0.1	15	6.2
16/11/2010 23/11/2010 219447 WWTW Discharge	<0.1	150.00	160.00	<10	< 0.05	<3	8.0	<0.01	<0.01	<0.01	0.00	<0.1	0.9	0.1	14	24
09/12/2010 23/12/2010 222558 WWTW Discharge	<0.2	64.00	120.00	<10	0.73	<3	8.1	< 0.01	< 0.01	< 0.01	0.00	<0.1	2.9	0.3	10	5.1
22/12/2010 13/01/2011 223307 WWTW Discharge	<0.1	66.00	100.00	<10	< 0.05	<3	8.0	< 0.01	< 0.01	< 0.01	0.00	<0.1	<0.1	< 0.01	11	8.5
13/01/2011 25/01/2011 224623 WWTW Discharge	<0.2	92.00	140.00	<10	0.38	<3	7.6	<0.01	0.05	< 0.01	0.05	<0.1	<0.1	0.1	15	6.5
15/02/2011 23/02/2011 228099 WWTW Discharge	<0.1	170.00	220.00	<10	0.08	<3	9.1	< 0.01	< 0.01	< 0.01	0.00	1.1	<0.1	< 0.01	<0.1	<0.1
02/03/2011 15/03/2011 229789 WWTW Discharge	<0.1	220.00	290.00	<10	< 0.05	<3	8.2	< 0.01	0.02	< 0.01	0.02	<0.1	0.4	<0.1	0.9	0.4
23/03/2011 01/04/2011 232143 WWTW Discharge	<0.1	190.00	210.00	<10	< 0.05	<3	7.9	< 0.01	0.02	< 0.01	0.02	<0.1	<0.1	<0.1	0.5	0.2
05/04/2011 13/04/2011 233543 WWTW Discharge 20/04/2011 03/05/2011 235339 WWTW Discharge	<0.1	190.00	200.00	<10 <10	<0.05 <0.05	<3 <3	8.0	<0.01 <0.01	0.03	< 0.01	0.03	<0.1 <0.1	0.8 <0.1	<0.1	1.1 1.2	0.5
20/04/2011 03/05/2011 235339 WWTW Discharge	<0.1	150.00	190.00	<10	<0.05	<3	4.0	<0.01	<0.01	<0.01	0.00	<0.1	<0.1	<0.1	1.Z	0.4



Scientific Analysis Laboratories

Certificate of Analysis

Hadfield House Hadfield Street Combrook Manchester M16 9FE Tel : 0161 874 2400 Fax : 0161 874 2468

Scientific Analysis Laboratories is a limited company registered in England and Wales (No 2514788) whose address is at Hadfield House, Hadfield Street, Manchester M16 9FE

Report Number: 233543-1

Date of Report: 13-Apr-2011

Customer: VertaseFLI Limited 19 Napier Court Barlborough Links Barlborough S43 4PZ

Customer Contact: The Project Management

Customer Job Reference: 907BRI WWTW Customer Purchase Order: 907BRI WWTW Date Job Received at SAL: 06-Apr-2011 Date Analysis Started: 07-Apr-2011 Date Analysis Completed: 13-Apr-2011

The results reported relate to samples received in the laboratory

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation This report should not be reproduced except in full without the written approval of the laboratory Tests covered by this certificate were conducted in accordance with SAL SOPs





Report checked and authorised by : Amelia McVennon Project Manager Issued by : Amelia McVennon Project Manager

SAL Referer	nce: 23354	43									
Customer Referen	nce: 907B	RI WWTW									
Water Miscellaneous	Analy	vsed as Wat	ter								
SAL Reference 233543 001 233543 002 Customer Sample Reference PRIMARY DISCHARGE											
		ousion		ate Sampled		04-APR-2011					
Determinand	Method	Test Sample	LOD	Units							
Ammoniacal nitrogen	T4	AR	50	µg/l	110	<50					
Biochemical Oxygen Demand	T7	T7 AR 3000 μg/l <3000 <3000									
рН	T7	AR			7.2	8.0					

SAL Reference: 233543 Customer Reference: 907BRI WWTW Water Analysed as Water Suite A SAL Reference 233543 001 233543 002 Customer Sample Reference PRIMARY DISCHARGE Date Sampled 04-APR-2011 04-APR-2011 Test Sample Determinand Method LOD Units T16 0.01 Atrazine AR µg/l 0.51 <0.01 Trietazine T16 0.01 AR 49 0.03 µg/l

SAL	Reference:	233543				
Custome	r Reference:	907BRI W	/WTW			
Water		Analysed	as Water			
Suite B						
			SA	L Reference	233543 001	233543 002
		Custon	ner Sampl	e Reference	PRIMARY	DISCHARGE
		10	Da	ate Sampled	04-APR-2011	04-APR-2011
Determinand	Method	Test Sample	LOD	Units		
Deneralia	T16	AR	0.1	µg/l	<0.1	<0.1
Benazolin						

SAL Ret Customer Ret	ference:		/TW			
Water		Analysed as	Water			
Suite C						
			SA	L Reference	233543 001	233543 002
		Custor	ner Sampl	e Reference	PRIMARY	DISCHARGE
			Da	ate Sampled	04-APR-2011	04-APR-2011
Determinand	Method	Test Sample	LOD	Units		
Bromide	T253	AR	100	µg/l	⁽⁹⁾ <1000	⁽⁹⁾ <1000
Chloride	T253	AR	200	µg/l	240000	190000
Sulphate ion	T253	AR	100	µg/l	250000	200000
Suspended Solids (Total)	T2	AR	10000	µg/l	230000	<10000

SAL	Reference:	233543								
Customer	Reference:	907BRI W	/WTW							
Water		Analysed	as Water							
Suite D										
			SA	L Reference	233543 001	233543 002				
Customer Sample Reference PRIMARY DISCHARGE										
			Da	ate Sampled	04-APR-2011	04-APR-2011				
Determinand	Method	Test Sample	LOD	Units						
Dicamba	T16	AR	0.1	µg/l	0.6	<0.1				
Hempa	T16	AR	0.1	µg/l	8.9	1.1				
Schradan	T16	AR	0.1	µg/l	3.1	0.5				
Simazine	T16	AR	0.01	µg/l	0.90	<0.01				

SAL R	eference:	233543				
Customer R	eference:	907BRI W	WTW			
Water Suite E		Analysed a	as Water			
			SA	L Reference	233543 001	233543 002
		Custor	ner Samp	le Reference	PRIMARY	DISCHARGE
			D	ate Sampled	04-APR-2011	04-APR-2011
Determinand	Method	Test Sample	LOD	Units		
TVC at 22 C after 3 days	T34	AR	10	cfu/ml	9900	9100
TVC at 37 C after 2 days	T34	AR	10	cfu/ml	1800	2600

Index to symbols used in 233543-1

Value	Description
AR	As Received
9	LOD raised due to dilution of sample
W	Analysis was performed at another SAL laboratory
S	Analysis was subcontracted
U	Analysis is UKAS accredited
Ν	Analysis is not UKAS accredited

Method Index

Value	Description
T2	Grav
T16	GC/MS
T4	Colorimetry
T34	Micro
T253	IC(EID299)
T7	Probe

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Ammoniacal nitrogen	T4	AR	50	µg/l	U	001-002
Biochemical Oxygen Demand	T7	AR	3000	µg/l	N	001-002
рН	T7	AR			U	001-002
Atrazine	T16	AR	0.01	µg/l	N	001-002
Trietazine	T16	AR	0.01	µg/l	N	001-002
Benazolin	T16	AR	0.1	µg/l	N	001-002
2,3,6-TCB	T16	AR	0.1	µg/l	Ν	001-002
Bromide	T253	AR	100	µg/l	WU	001-002
Chloride	T253	AR	200	µg/l	WU	001-002
Sulphate ion	T253	AR	100	µg/l	WU	001-002
Suspended Solids (Total)	T2	AR	10000	µg/l	WN	001-002
Dicamba	T16	AR	0.1	µg/l	N	001-002
Hempa	T16	AR	0.1	µg/l	N	001-002
Schradan	T16	AR	0.1	µg/l	N	001-002
Simazine	T16	AR	0.01	µg/l	N	001-002

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
TVC at 22 C after 3 days	T34	AR	10	cfu/ml	SN	001-002
TVC at 37 C after 2 days	T34	AR	10	cfu/ml	SN	001-002





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Report Number: 235339-1

Date of Report: 03-May-2011

Customer: VertaseFLI Limited 19 Napier Court Barlborough Links Barlborough S43 4PZ

Customer Contact: The Project Management

Customer Job Reference: 907BRI Customer Purchase Order: 907BRI Date Job Received at SAL: 21-Apr-2011 Date Analysis Started: 26-Apr-2011 Date Analysis Completed: 03-May-2011

The results reported relate to samples received in the laboratory

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation This report should not be reproduced except in full without the written approval of the laboratory Tests covered by this certificate were conducted in accordance with SAL SOPs





Report checked and authorised by : Amelia McVennon Project Manager Issued by : Amelia McVennon Project Manager

SAL Referen	nce: 2353	39				
Customer Referer	nce: 907B	RI				
Water	Analy	vsed as Wat	ter			
Miscellaneous						
			SA	L Reference	235339 001	235339 002
		Custor	ner Sampl	e Reference	PRIMARY	DISCHARGE
			Da	ate Sampled	20-APR-2011	20-APR-2011
Determinand	Method	Test Sample	LOD	Units		
Ammoniacal nitrogen	T4	AR	50	µg/l	<50	<50
Biochemical Oxygen Demand	T7	AR	3000	µg/l	<3000	<3000
pН	T7	AR			5.0	4.0

SAL Reference: 235339 Customer Reference: 907BRI Water Analysed as Water Suite A SAL Reference 235339 001 235339 002 Customer Sample Reference PRIMARY DISCHARGE Date Sampled 20-APR-2011 20-APR-2011 Test Sample Determinand Method LOD Units ⁽²⁾ <0.50 T16 0.01 Atrazine AR µg/l <0.01 Trietazine T16 0.01 0.14 < 0.01 AR µg/l

SAL	Reference:	235339	1.00			
Customer	Reference	907BRI				
Water Suite B		Analysed	as Water			
			SA	L Reference	235339 001	235339 002
		Custor	ner Sampl	e Reference	PRIMARY	DISCHARGE
		1	Da	ate Sampled	20-APR-2011	20-APR-2011
Determinand	Method	Test Sample	LOD	Units		
Benazolin	T16	AR	0.1	µg/l	<0.1	<0.1
2,3,6-TCB	T16	AR	0.1	µg/l	7.4	<0.1

SAL Re	ference: 2	235339				
Customer Re	ference: 9	907BRI				
Water		Analysed as	Water			
Suite C						
			SA	L Reference	235339 001	235339 002
		Custor	ner Sampl	e Reference	PRIMARY	DISCHARGE
			Da	ate Sampled	20-APR-2011	20-APR-2011
Determinand	Method	Test Sample	LOD	Units		
Bromide	T253	AR	100	µg/l	400	⁽⁹⁾ <1000
Chloride	T253	AR	200	µg/l	140000	150000
Sulphate ion	T253	AR	100	µg/l	190000	190000
Suspended Solids (Total)	T2	AR	10000	µg/l	<10000	<10000

SAL R	eference:	235339				
Customer R	eference:	907BRI				
Water Suite D		Analysed	as Water			
			SA	L Reference	235339 001	235339 002
		Custon	ner Sampl	e Reference	PRIMARY	DISCHARGE
			Da	ate Sampled	20-APR-2011	20-APR-2011
Determinand	Method	Test Sample	LOD	Units		
Dicamba	T16	AR	0.1	ua/l	0.4	<0.1

		Sample				
Dicamba	T16	AR	0.1	µg/l	0.4	<0.1
Hempa	T16	AR	0.1	µg/l	6.5	1.2
Schradan	T16	AR	0.1	µg/l	7.4	0.4
Simazine	T16	AR	0.01	µg/l	0.20	<0.01

SAL	Reference:	235339				
Customer	Reference:	907BRI				
Water Suite E		Analysed	as Water			34
			SA	L Reference	235339 001	235339 002
		Custor	ner Sampl	e Reference	PRIMARY	DISCHARGE
			Da	ate Sampled	20-APR-2011	20-APR-2011
Determinand	Method	Test Sample	LOD	Units		
TVC at 22 C	T34	AR	10	cfu/ml	2800	2300
TVC at 37 C	T34	AR	10	cfu/ml	1800	160

Index to symbols used in 235339-1

Value	Description
AR	As Received
2	LOD Raised Due to Matrix Interference
9	LOD raised due to dilution of sample
W	Analysis was performed at another SAL laboratory
S	Analysis was subcontracted
U	Analysis is UKAS accredited
Ν	Analysis is not UKAS accredited

Method Index

Value	Description
T7	Probe
T2	Grav
T253	IC(EID299)
T4	Colorimetry
T16	GC/MS
T34	Micro

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Ammoniacal nitrogen	T4	AR	50	µg/l	U	001-002
Biochemical Oxygen Demand	T7	AR	3000	µg/l	N	001-002
рН	T7	AR			U	001-002
Atrazine	T16	AR	0.01	µg/l	N	001-002
Trietazine	T16	AR	0.01	µg/l	N	001-002
Benazolin	T16	AR	0.1	µg/l	N	001-002
2,3,6-TCB	T16	AR	0.1	µg/l	N	001-002
Bromide	T253	AR	100	µg/l	WU	001-002
Chloride	T253	AR	200	µg/l	WU	001-002
Sulphate ion	T253	AR	100	µg/l	WU	001-002
Suspended Solids (Total)	T2	AR	10000	µg/l	N	001-002
Dicamba	T16	AR	0.1	µg/l	N	001-002
Hempa	T16	AR	0.1	µg/l	N	001-002
Schradan	T16	AR	0.1	µg/l	N	001-002

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Simazine	T16	AR	0.01	µg/l	N	001-002
TVC at 22 C	T34	AR	10	cfu/ml	SN	001-002
TVC at 37 C	T34	AR	10	cfu/ml	SN	001-002





Appendix I Soil Characterisation Results Summary

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Results Received	Reported to SCDC	Grid square	Contaminant	Concentration (µg/kg)	Likely use/origin
12.04.2010	06.05.2010	K15		VOC/SVOC peak	ks detected
12.04.2010	06.05.2010	K16	Series of Aromatic Hydrocarbons circa C ₁₃ -C ₁₆	17,000	Potential herbicide degradation products. The structures are smaller and less complex than contaminants of concern and will therefore degrade more readily than the target contaminants and will be captured by the remediation process.
			2(1-methylpropyl)-phenol	10,000	Encountered and assessed during site investigation, not a priority contaminant
			2,6-bis(1-methylpropyl)-phenol	100,000	Commonly used in the manufacture of specialty surfactants used as wetting agents for agrochemicals.
15.04.2010	06.05.2010 (09.06.2010)	J16	2,6-bis(1,1-dimethylethyl)-4-(1- methylpropyl)-phenol	6,000	Commonly used as an antioxidant and stabiliser, also used in oils used in industrial applications.
			Unidentified branched aromatic alcohol, C ₁₄	240,000	Potential herbicide degradation products. The structures are smaller and less complex
			Unidentified branched aromatic alcohol, C ₁₈	290,000	than contaminants of concern and will therefore degrade more readily than the target contaminants and will be captured by
			Phenanthrene	4,100	Encountered and assessed during site
15.04.2010	06.05.2010	K14	Fluoranthene Pyrene	4,800 3,900	investigation, concentration below target
			Benzo(b/k)Fluoranthene	2,200	value
			Dodecanoic acid (Lauric acid),	2,200	Lauric acid - main acid in coconut oil and
			isooctyl ester	2,100	palm kernel oil, is non-toxic and safe to handle, is used in many soaps, shampoos and body butters.
07.05.2010	24.05.2010	К9	Unidentified Aliphatic Hydrocarbon circa C ₃₀	2,300	Potential herbicide degradation products. The structures are smaller and less complex than contaminants of concern and will therefore degrade more readily than the target contaminants and will be captured by the remediation process.
			2,4-Dichloro-o-cresol	9,000	Potential herbicide degradation product
			Bis(2-ethylhexyl) maleate	3,800	Commonly used as an intermediate in hydrogenation or acetylation reactions, possibly used in agrochemicals manufacture
			Cyclo octaatomic sulphur	2,800	S_{ϑ} is the most common form of sulphur in the solid state, widely used in insecticide and fungicide manufacture
07.05.2010	24.05.2010 (09.06.2010)	L8	Dodecanoic acid (Lauric acid), isooctyl ester	7,400	Lauric acid - main acid in coconut oil and palm kernel oil, is non-toxic and safe to handle, is used in many soaps, shampoos and body butters.
			Unidentified aromatic hydrocarbon containing O and Cl circa C ₇	8,400	Potential herbicide degradation products. The structures are smaller and less complex than contaminants of concern and will therefore degrade more readily than the target contaminants and will be captured by the remediation process.

07.05.2010	24.05.2010	L9	Unidentified Aliphatic Hydrocarbon circa C ₃₀	2,300	Potential herbicide degradation products. The structures are smaller and less complet than contaminants of concern and will therefore degrade more readily than the target contaminants and will be captured by the remediation process.
13.05.2010	24.05.2010	H8	No VOC/SVOC peaks detected		
			1,2-bis(2,4,6- trichlorophenoxy)ethane	6,900	Potential Prochloraz degradation product
			Prochloraz	9,100	Fungicide
13.05.2010	24.05.2010 (09.06.2010)	H9	Unidentified aromatic hydrocarbon containing Cl circa C ₈	9,400	Potential herbicide degradation products. The structures are smaller and less complete than contaminants of concern and will
			Unidentified aromatic amine containing CI circa C ₁₁	2,100	therefore degrade more readily than the target contaminants and will be captured b the remediation process.
13.05.2010	24.05.2010	17	No SVOC peaks detected		·
			2,4-Dichloro-o-cresol	29.000	
			2,3,6-Trichlorotoluene	47,000	1
			1-(2-Chloroethoxy)-2-(o- Tolyloxy)-ethane	20,000	 Potential herbicide degradation product
13.05.2010	24.05.2010 (09.06.2010)	19	Unidentified aromatic alcohol containing CI circa C ₇	25,000	Potential herbicide degradation products The structures are smaller and less complete
			Unidentified aromatic hydrocarbon containing O circa C ₁₆₋₁₈	12,000	than contaminants of concern and will therefore degrade more readily than the target contaminants and will be captured the remediation process.
					the remediation process.
13.05.2010	24.05.2010	J7	No VOC/SVOC peaks detected		
20.05.2010	24.05.2010	J8	No VOC/SVOC peaks detected		
26.05.2010		J9	No VOC/SVOC peaks detected		
04.06.2010	16.06.2010 (09.06.2010)	H7	Dichloromethyl phenol	2,100	Same as 2,4-Dichloro-o-cresol (I9)
05.05.2010	16.06.2010	K7	1,2-bis(2,4,6-	2400.0	As for H9
	(09.06.2010)		trichlorophenoxy)ethane		
05.05.2010	16.06.2010	K8	No VOC/SVOC peaks detected		
18.06.2010	29.06.2010	18	2-methyl phenol	5,500	Encountered and assessed during si investigation, not a priority contaminant
			1,2-dichlorobenzene	3,600	Contaminant of concern, already included the standard validation suite
17.06.2010	29.06.2010 (09.06.2010)	K10	2,4-Dichloro-o-cresol	550,000	As for I9 and H7
22.06.2010		L10	Cyclo octaatomic sulphur	16,000	As for L8 - Sulphur
			Dichloromethyl phenol	1,800,000	As for 2,4-Dichloro-o-cresol (I9, H7, K10)
			Naphthalene	4,600,000	Encountered and assessed during site
			2-methylnaphthalene	3,900,000	investigation, not a priority contaminant
20.07.2010	21.07.2010	K10 NAPL	1-methylnaphthalene	2,400,000	More toxic than 2-methylnaphthalene, mu
			CAS 90-12-0		be assessed separately
			Dinoseb CAS 88-85-7	68,000,000	2-(1-methylpropyl)-4,6-dinitro- phenol herbicide and insecticide. Yellow crystallir solid.
			Dichloromethyl phenol	24,000	As for 2,4-Dichloro-o-cresol (I9, H7, K10)
			1-(2-Chloroethoxy)-2-(o- Tolyloxy)-ethane CAS 21120-80-9	13,000	Same as 19
			1,2,4-Trichlorobenzene	28,000	+
		1			Encountered and assessed during site
21.07.2010	22 07 2010	J10	Trichlorobenzene	32,000	investigation not a priority contaminant

		1	2-Chlorotoluene	60,000	แกระราชสาเอก, กอน ล คาอกนร ออกเลกแกลก
			Trichloro toluene isomer	48,000	Same as 19
			Trichloro benzenamine isomer	11,000	
			2,3-Dichlorotoluene		Potential herbicide degradation product
			CAS 32768-54-0	290,000	i otomiai norbiolae aegradation product
21.07.2010	22.07.2010	L11	Dichloromethyl phenol	5,000	As for 2,4-Dichloro-o-cresol (I9, H7, K10 J10)
			2,4-Dichloro-o-cresol CAS 1570-65-6	10,000	As for I9, H7, K10, J10, L11
28.07.2010	02.08.2010	H10	Trichloro toluene isomers	58,000	Same as I9, J10
28.07.2010	02.06.2010	HIU	Dichlorotoluene isomer	52,000	6 possible isomers, but very little data, using surrogate.
			2-Chlorotoluene	39,000	Encountered and assessed during site
			Trichlorobenzene	350,000	investigation, not a priority contaminant
			2,4-Dichloro-o-cresol CAS 1570-65-6	5,000	As for I9, H7, K10, J10, L11, H10
28.07.2010	02.08.2010	110	Trichloro toluene isomers	24,000	Same as I9, J10, H10
03.08.2010	04.08.2010	L12	2,4-Dichloro-o-cresol CAS 1570-65-6	7,000	As for I9, H7, K10, J10, L11, H10, I10
03.08.2010	04.08.2010	L13	No VOC/SVOC peaks detected		-
03.08.2010	04.08.2010	K12	2,4-Dichloro-o-cresol	7,000	As for I9, H7, K10, J10, L11, H10, I10, L12
			CAS 1570-65-6		
03.08.2010	04.08.2010	K13 sand & gravel	Cyclo octaatomic sulphur	68,000	As for L8, L10 - Sulphur
05.08.2010	N/A	/A K13 chalk	2,4-Dichloro-o-cresol CAS 1570-65-6	650,000	As for I9, H7, K10, J10, L11, H10, I10, L12 K12
			Trichloro toluene isomers	1,140,000	Same as I9, J10, H10, I10
			1-(2-Chloroethoxy)-2-(o- Tolyloxy)-ethane CAS 21120-80-9	140,000	Same as I9 and J10
			Dichlorotoluene isomer	99,000	Same as J10. H10
			2-Chlorotoluene	12,000	Encountered and assessed during site
05 00 00 10	N1/A	1444		00.000	investigation, not a priority contaminant
05.08.2010	N/A	K11	2,4-Dichloro-o-cresol CAS 1570-65-6	22,000	As for I9, H7, K10, J10, L11, H10, I10, L12, K12, K13
05.08.2010	N/A	J11	2,4-Dichloro-o-cresol CAS 1570-65-6	220,000	As for I9, H7, K10, J10, L11, H10, I10, L12 K12, K13
			Trichloro toluene isomers	376,000	Same as I9, J10, H10, I10, K13
			Dinoseb CAS 88-85-7	90,000	Same as K10
			Dichlorotoluene isomer	18,000	Same as H10, K13
			2-Chlorotoluene	13,000	Encountered and assessed during site investigation, not a priority contaminant
12.08.2010	17.08.2010	J12	2-chloro Benzenemethanol CAS 17849-38-6	620	Potential agrochemical synthesis ingredient further investigation is required
			2-Chlorobenzalazine CAS 5328-80-3	5,900	
			2,4-Dichloro-o-cresol CAS 1570-65-6	2,000	As for I9, H7, K10, J10, L11, H10, I10, L12 K12, K13, J11
			2(1-methylpropyl)-phenol	610	Encountered and assessed during site investigation, not a priority contaminant
12.08.2010	N/A	J13	2,4-Dichloro-o-cresol CAS 1570-65-6	3,400	As for I9, H7, K10, J10, L11, H10, I10, L12, K12, K13, J11, J12

24.08.2010	25.08.2010	J14	Total Petroleum	43,000	Encountered and assessed during site
24.00.2010	23.00.2010	514	Hydrocarbons (C5-C12)	-10,000	investigation, not a priority contaminant
			1,3,5-Trimethylbenzene	1,600	Encountered and assessed during site
			CAS 108-67-8	1,000	investigation, not a priority contaminant
			1,2,4-Trimethylbenzene	600	······································
		CAS 95-63-6			
			1,2,3-Trimethylbenzene	700	Isomers encountered and assessed during
			CAS 526-73-8		site investigation, quantitative risk
					assessment not required
			1-Ethyl-2-Methylbenzene CAS 611-14-3	500	Potential agrochemical synthesis ingredient further investigation is required
05 00 0010	N1/A	140	1-methylnaphthalene	100	Same as K10NAPL
25.08.2010	N/A	113	CAS 90-12-0	100	Same as KTUNAPL
			Phenanthrene	200	Encountered and assessed during site
			Fluoranthene	300	investigation, not a priority contaminant
			Pyrene	300	investigation, not a phonty contaminant
			Benzo(b/k)Fluoranthene	200	-
01.09.2010	N/A	114	Trichloro methyl benzene	400	Same as I9, J10, H10, I10, K13, J11
01.03.2010	19/75	114	(trichloro toluene)	400	Game as 15, 510, 1110, 110, 110, 111
01.09.2010	N/A	115	Dichlorocresol	2600	As for I9, H7, K10, J10, L11, H10, I10, L12,
01.09.2010	IN/A	115	Dichlorocresor	2000	K12, K13, J11, J12
			Dichlorophenoxybutyric acid	6300	Herbicide encountered and assessed during
				0000	site investigation, similar to MCPA and
					Mecoprop which are higher risk substances,
					therefore not a priority contaminant
					······
01.09.2010	N/A	H14	No VOC/SVOC peaks detected		•
01.09.2010	N/A	H15	No VOC/SVOC peaks detected		
03.09.2010	N/A	111	Dichlorocresol	3,300	As for I9, H7, K10, J10, L11, H10, I10, L12, K12, K13, J11, J12, I15
			Trichloro methyl benzene (trichloro toluene)	1,000	Same as 19, J10, H10, I10, K13, J11, I14
			Prochloraz CAS 67747-09-5	800	Same as H9
03.09.2010	N/A	A 12	1-methylnaphthalene	40,000	Same as K10NAPL, I13
			CAS 90-12-0	-	
			Dibenzofuran	24,000	Encountered and assessed during site
			Phenanthrene	60,000	investigation, not a priority contaminant
			Fluoranthene	29,000	
			Acenaphthene	31,000	
24.09.2010	N/A	J15	Methylpropyl phenol	340	Encountered and assessed during site investigation, not a priority contaminant
24.09.2010	28.09.2010	H13	Oxathiane 4,4-dioxide	220	
			CAS 107-61-9		
	N/A		Trichloro methyl benzene	230	Same as I9, J10, H10, I10, K13, J11, I14,
			(trichloro toluene)		111
			Dichloromethylphenol	2100	As for I9, H7, K10, J10, L11, H10, I10, L12,
					K12, K13, J11, J12, I15, I11
			1-(2-Chloroethoxy)-2-(o-	470	Same as I9, J10, K13
			Tolyloxy)-ethane		
			CAS 21120-80-9		
01.10.2010	N/A	H11	No VOC/SVOC peaks detected		
01.10.2010	05.10.2010	H12	Indane	3700000	2-ring hydrocarbon
	N/A		CAS 496-11-7	4500000	As J14
	IN/A		Ethyltoluene	4500000	AS J 14
			(ethyl methyl benzene) isomer		

			Bis methylpropyl phenol isomer	980000	As J16
			1,3,5-Trimethylbenzene	3900000	Encountered and assessed during site
			1,2,4-Trimethylbenzene	10000000	investigation, not a priority contaminant
			1,2,3-Trimethylbenzene	3100000	
22.10.2010	25.10.2010	G12	Nicotine	6400	Natural insecticide
(216017)	N/A		Dichloromethyl phenol	2900	As for I9, H7, K10, J10, L11, H10, I10, L12 K12, K13, J11, J12, I15, I11, H13
			Methylpropyl phenol	9400	Encountered and assessed during site investigation, not a priority contaminant
			Schradan	1200	Contaminant of concern, already included the standard validation suite
22.10.2010 (216017)	N/A	G13	1-methylnaphthalene CAS 90-12-0	170	Same as K10NAPL, I13, I12
			Isophorone CAS 78-59-1	530	Encountered and assessed during site investigation, not a priority contaminant
			Naphthalene	690	
			2-methylnaphthalene	270	
			Phenanthrene	410	
			Fluoranthene	380	
			Pyrene	310	
22.10.2010 (216017)	N/A	G14	No VOC/SVOC peaks detected		
29.10.2010 (216821)	N/A	H17	No VOC/SVOC peaks detected		
29.10.2010 (216821)	N/A	G17	No VOC/SVOC peaks detected		
01.11.2010 (216817)	30.11.2010	G10	Dibromochloromethane CAS 124-48-1	300	Risk Assessment
-	N/A	A	Dichloromethyl phenol	1300	As for I9, H7, K10, J10, L11, H10, I10, L12, K12, K13, J11, J12, I15, I11, H13, G12
			Isophorone	7100	Encountered and assessed during site
			Benzyl Chloride (1-chloro-2-methylbenzene CAS 95-49-8)	200	investigation, not a priority contaminant
			Methylpropyl phenol	7100	_
			3,3,5- trimethyl cyclohexanone	700	
01.11.2010 (216817)	N/A	G11	Dichloromethyl phenol	2300	As for I9, H7, K10, J10, L11, H10, I10, L12 K12, K13, J11, J12, I15, I11, H13, G12, G10
			Trichloro methyl benzene (trichloro toluene)	2400	Same as I9, J10, H10, I10, K13, J11, I14, I11, H13
			1-Methyl naphthalene	760	Same as K10NAPL, I13, I12, G13
			2-methyl phenol	800	Encountered and assessed during site
		1	Methylpropyl phenol	22000	investigation, not a priority contaminant
			2-Methylnaphthalene	1500	
			2,4,5-Trichlorophenol	360]
			Chloroform	500	
			1,2-dibromoethane	700	
			EthylBenzene	1800	
			1,4-Dichlorobenzene	700	
			1,2,3-Trichlorobenzene	2000	
01.11.2010	30.11.2010	G15	Ethyl methyl phenol	18000	Risk Assessment

(216817)			Dimethyl naphthalene	59000	Risk Assessment
	N/A		Dichloromethyl phenol	2400	As for I9, H7, K10, J10, L11, H10, I10, L12
					K12, K13, J11, J12, I15, I11, H13, G12,
					G10, G11
			1-Methyl naphthalene	26000	Same as K10NAPL, I13, I12, G13
		1-ethyl-3-	600	As J14, H12	
			methyl benzene (ethyl toluene)		
			Ethyltoluene	300	
			Isophorone	37000	Encountered and assessed during site
			Naphthalene	43000	investigation, not a priority contaminant
			Methylpropyl phenol	30000	
			2-Methylnaphthalene	21000	
			Phenanthrene	110000	
			Fluoranthene	69000	
			1,3,5-Trimethylbenzene	900	
			1,2,4-Trimethylbenzene	1600	
			1,2,3-Trimethylbenzene	400	
08.11.2010	N/A	M7	No VOC/SVOC peaks detected		
(217789)					
08.11.2010	N/A	M8	2-methyl phenol	11,000	Encountered and assessed during site
(217789)					investigation, not a priority contaminant
08.11.2010	N/A	M6	No VOC/SVOC peaks detected		
217793)					
08.11.2010	N/A	N6	No VOC/SVOC peaks detected		
217793)					
08.11.2010	N/A	L5	No VOC/SVOC peaks detected		
217795)					
08.11.2010	N/A	M4	No VOC/SVOC peaks detected		
217795)	10/7	141-1			
08.11.2010	N/A	M5	No VOC/SVOC peaks detected		
217797)	19/75	1415	No voc/svoc peaks delected		
08.11.2010	N/A	N4	No VOC/SVOC peaks detected		
(217797)	IN/A	114	No voc/svoc peaks delected		
08.11.2010	N/A	N5			
(217797)	IN/A	N0	No VOC/SVOC peaks detected		
08.11.2010	N/A	M9			
(217800)	IN/A	1019	No VOC/SVOC peaks detected		
8.11.2010	N1/A	10			
	N/A	16	No VOC/SVOC peaks detected		
218834)	N1/A	1.4			
23.11.2010	N/A	L4	No VOC/SVOC peaks detected		
219458)					
23.11.2010	N/A	N3	No VOC/SVOC peaks detected		
(219456)		_			
20.01.2011	N/A	F11	No VOC/SVOC peaks detected		
224432)		_			
20.01.2011	N/A	F12	No VOC/SVOC peaks detected		
224432)					
20.01.2011	24.01.2011	F13	Total Petroleum Hydrocarbons	16000	Controlled Waters risk assessment
(224432)			(C8-C14)		required, Human Health risk assessment
					previously actioned
20.01.2011	24.01.2011	E12	Total Petroleum Hydrocarbons	28000	Controlled Waters risk assessment
(224432)			(C8-C14)		required, Human Health risk assessment
-					previously actioned
	N/A		1-Ethyl-2-Methylbenzene (o-ethy	300	As J14, H12, G15
			toluene) CAS 611-14-3		

			1,2,4-Trimethylbenzene	700	Encountered and assessed during site investigation, not a priority contaminant
20.01.2011	24.01.2011	E13	DDD	4100	Pesticide Risk Assessment Required.
(224432)	N/A		m/p ethyl toluene	1200	Encountered and assessed during site
	,		m-ethyl toluene:1-ethyl-3- methylbenzene, CAS 620-14-4		investigation, not a priority contaminants
			p-ethyl toluene: 1-ethyl-4- methylbenzene, CAS 622-96-8		
	24.01.2011		Total Petroleum Hydrocarbons (C8-C13)	73000	Controlled Waters risk assessment required, Human Health risk assessment previously actioned
	N/A		2,6-bis(1-methylpropyl)-phenol	5000	As J16, H12
			DDT	3200	Encountered and assessed during site investigation, not a priority contaminant
			4-(1-methylpropyl)phenol	2700	,,,,,,
			2(1-methylpropyl)-phenol	12000	
			1,2,3-trimethylbenzene	600	
			1,3,5-trimethylbenzene	1700	
			1,2,4-trimethylbenzene	3000	
			p-Isopropyltoluene	400	
24.01.2011 (224621)	25.01.2011	F15A	No VOC/SVOC peaks detected		<u>.</u>
24.01.2011 (224621)	25.01.2011	F15B	No VOC/SVOC peaks detected		
09.02.2011 (226719)	10.02.2011	H6	No VOC/SVOC peaks detected		
09.02.2011 (226719)	10.02.2011	J5	No VOC/SVOC peaks detected		
09.02.2011 (226719)	10.02.2011	J6	No VOC/SVOC peaks detected		
17.03.2011 (230436)	21.03.2011	K5	Bis(2-ethylhexyl) maleate CAS 142-16-5	1,800	As L8
21.03.2011 (230436)	22.03.2011	K6	2,3-Dichlorotoluene CAS 32768-54-0	300	As J10, J11, H10, K13
, ,			Bis(2-ethylhexyl) maleate CAS 142-16-5	2,000	As L8, K5
		Squalene CAS 7683-64-9	2,000	Natural organic compound found in the human body. Used in cosmetics, vaccines and steroid synthesis. Risk assessment not required.	
			Glycerol tricaprylate CAS 538-28-8	4,700	Cosmetic ingredient. RisK Assessment notrequired.
28.03.2011 (231689)	29.03.2011	M10	No VOC/SVOC peaks detected		
30.03.2011 (232134)	01.04.2011	L14	No VOC/SVOC peaks detected		