Environmental Monitoring Report

Reporting Period
30/01/2011-27/02/2011
Supplemental report

Former Bayer Crop Science Site
Hauxton
Cambridgeshire

20th May 2011

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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 30th of January 2011, until the 27th of February 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 47. Week Commencing 31st January 2011

Excavation of contaminated soils progressed into grid squares H6 and I6 in the north of the site continued through the week removing impacted marl and Gault clay to approximately 4m below ground level. Contaminated materials were placed in treatment beds in the east of the site. Trial pits were excavated in the north of the site to asses the depth of validation required in the recently excavated areas. A section of the force ventilation vapour extraction bed was isolated and pipe work removed to allow the treated materials to be removed and relocated on site.. Relocating of existing treatment beds and stockpiles was undertaken to create further space for newly created treatment beds. The majority of the treatment beds on site are to wet to be processed.

Week 48. Week Commencing 7th February 2011

Excavation of contaminated materials continued through in to grid square I6, with treatment beds being created in the east of the site. Tarmac from this area was excavated and segregated to wait off site disposal. Further treatment beds that require force ventilation vapour extraction treatment were relocated to the force ventilation area, fitted with the pipe work and commissioned for treatment, these works were halted in unfavourable weather conditions to prevent potential site odours affecting local residents. Turning of treatment beds was undertaken on a number of beds that were previously too wet for processing, but have recently become dryer and easier to process to promote bioremediation.

Week 49. Week Commencing 14th February 2011

Excavation of contaminated materials continued in to grid squares H6, J5 and J6 with treatment beds being created in the east of the site. Turning of treatment beds was undertaken on a number of beds that were previously too wet for processing, but have recently become dryer and easier to process to promote bioremediation.

Week 50. Week Commencing 21st February 2011

Excavation of contaminated materials continued in to grid squares K5, K6 and K7 removing contaminated Gault Clay with treatment beds being created in the east of the site. Turning of

treatment beds was undertaken on a number of beds 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.

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. Initially two mobile telescopic misting fans were used on site and a full boundary misting system was also erected to supplement the mobile units, along with the addition of two further mobile units to focus specifically on the excavation.

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

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, therefore due to the significant amount of snow fall and heavy rain during the reporting period 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 detected by the PID (Limit of detection of 0.1ppm) beyond the site boundary on the following occasion:

On the 25/02/2011at 08:30 the PID registered an intermittent peak of 1.0ppm at the northern and northeast monitoring location, odours related to the excavation process were intermittent, generally strong smell of solvents. Additional odour control measures were applied to allow the excavation to continue whilst reducing the odour impact 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 20/01/2011 and 17/02/2011 are reported in appendix C. Unfortunately a number of the sampling media were damaged in transit to the laboratory and could not be analysed. The analysis undertaken for this monitoring period indicates that the majority of the VOC's detected are around the baseline, except for Toluene 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 and Queens Close, Harston 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 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 due to the significant amount of snow fall during the reporting period this has prevented real-time dust monitoring 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 143.50µg/m^3, the average PM10 dust reading around the site is 87.06µg/m^3. 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 24/01/2011 to 07/02/2011 (5 locations monitored) recorded a maximum dust deposition rate was 2.57%EAC at the north monitoring location. All other locations had a maximum dust deposition rate of 1.07%EAC, or less.
Dust monitoring undertaken from the 07/02/2011 to 22/02/2011 (6 locations monitored) recorded a maximum dust deposition rate was 0.47%EAC at the north monitoring location. All other locations had a maximum dust deposition rate of 0.33%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 61dB. 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 has been some significant changes in levels along the Riddy Brook due which are effects of the recent heavy rain events notably on the 21st of February 2011.

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 24th February 2011 and are presented in Appendix F.

The surface water analysis of the 24th February 2011 shows traces of Trichloroethylene (7 µg/l), Cis1,2-Dichloroethylene (3 µg/l), Tetrachloroethylene (3 µg/l) and Ethofumesate (0.1 µg/l) were detected in the downstream samples of the Riddy Brook. Trace levels of Tetrachloroethylene (2 µg/l) were also detected in the down stream sample of the 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_31E, 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_149, D907_150, D907_151 and D907_152 (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.

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 1st February 2011 and 25th of February are presented in Appendix F.

The contaminant concentrations present in the samples taken on the 1st of February 2011 and 25th of February 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.

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 27/02/2011, seventy four 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 five characterisation samples analysed contained a total of twenty three compounds / potential contaminants that had not been previously identified.

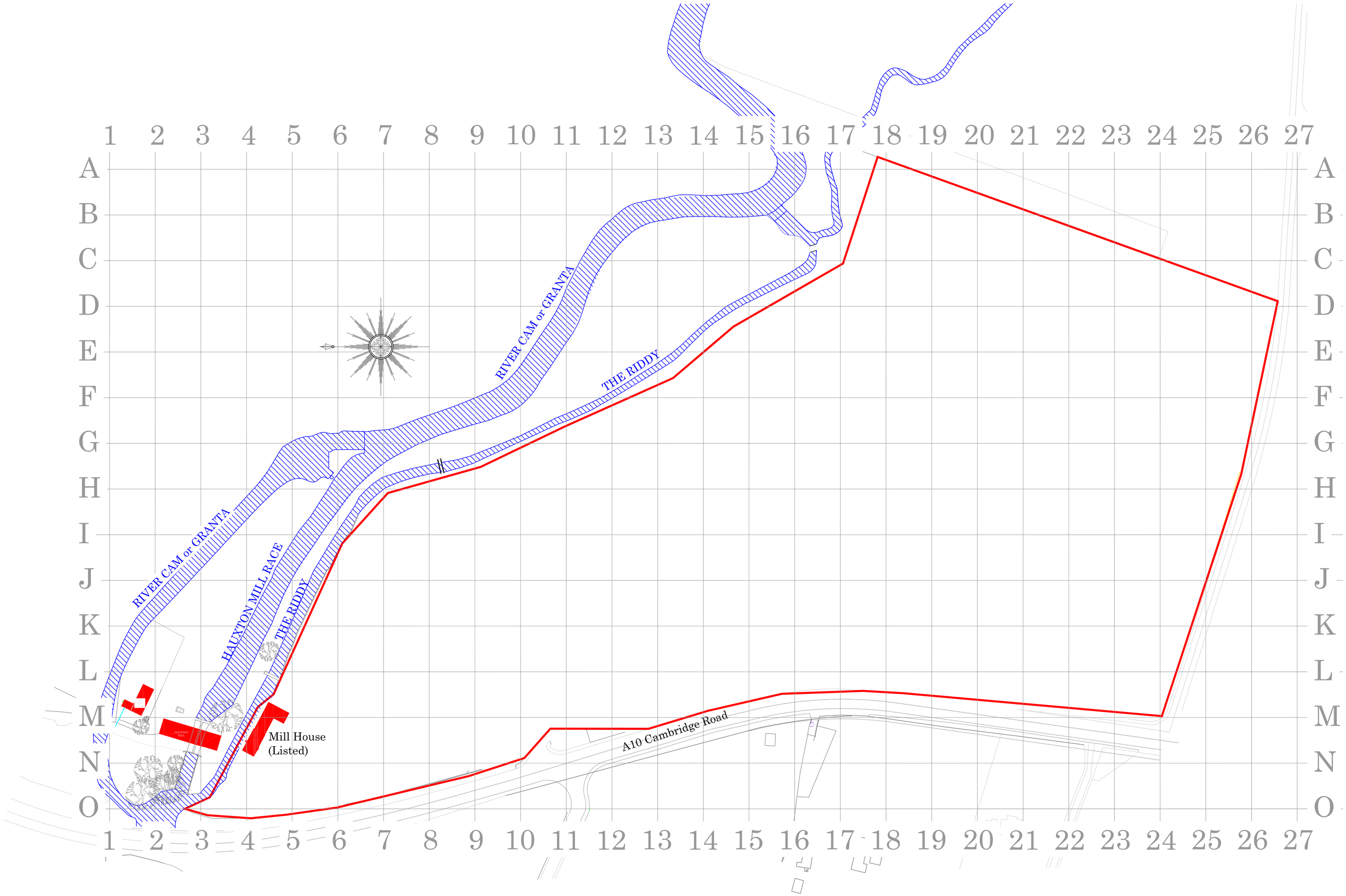
A summary table of the soil characterisation testing is presented in Appendix I, the previously unidentified compounds are listed here, with comments regarding the origin and likely usage on site.

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

A1



Legend

- Buildings to Remain
- Water Course
- Site Boundary

Drawing Base : Ref
LW/HAUX-002/2006

Rev.	Description	Revised By	Date
	FIRST ISSUE		21 April 2008

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Site Address:

Bayer Site
Hauxton
Cambridge

Rev:

Title: Blank Site Plan with Grid

Client: Harrow Estates

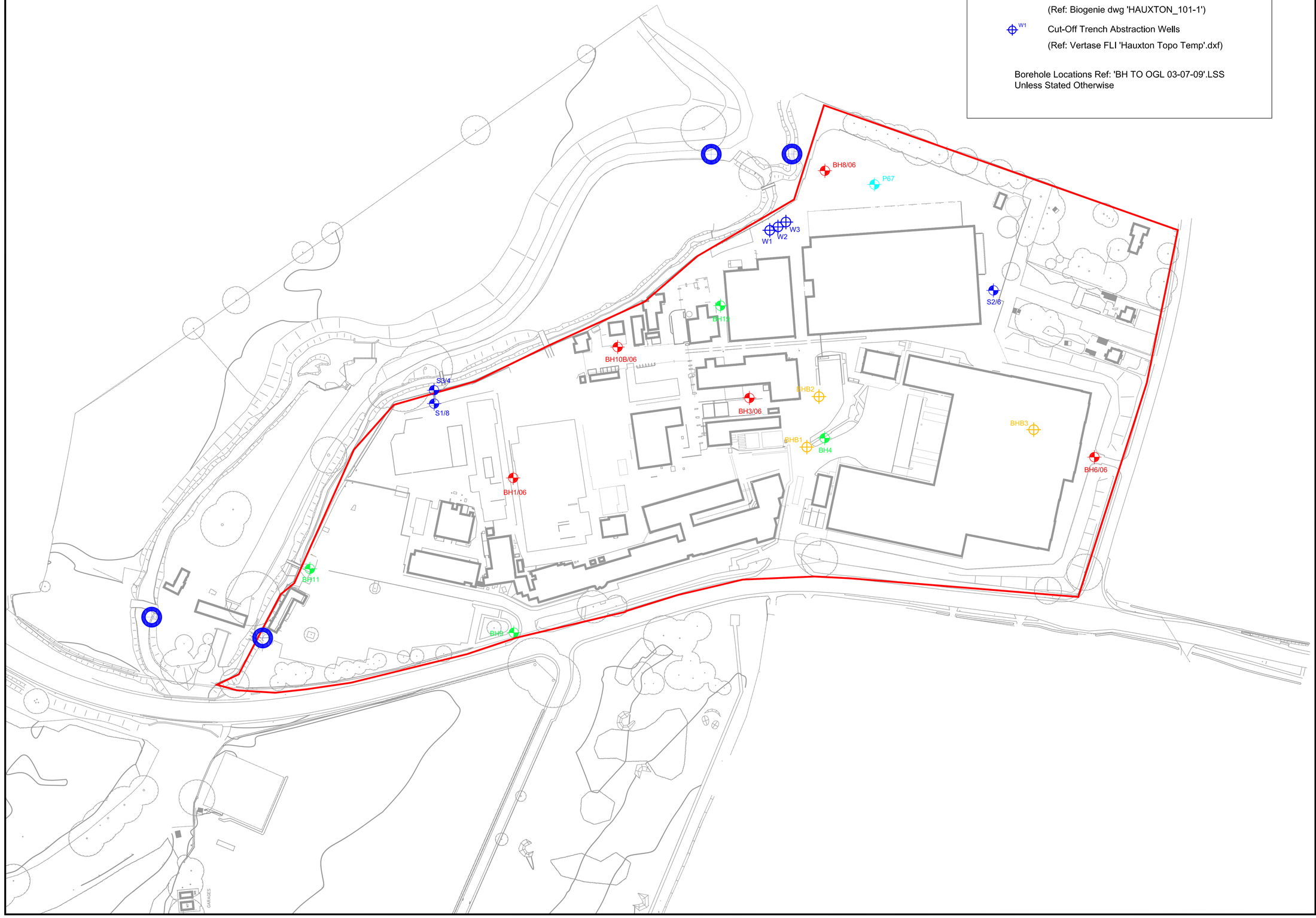
Drawn: JWH	Checked: MA	Approved: MA
Dwg: D907_07	Contract: 907BRI	Scale: 1:1000

A1

Legend

- BH1/06 — Atkins Exploratory Hole Location
- BH7 / P67 — Previous Borehole Location
- Water Sampling Location
- BHB1 — Biogenie Boreholes (Ref: Biogenie dwg 'HAUXTON_101-1')
- W1 — Cut-Off Trench Abstraction Wells (Ref: Vertase FLI 'Hauxton Topo Temp'.dxf)

Borehole Locations Ref: 'BH TO OGL 03-07-09'.LSS
Unless Stated Otherwise



Rev.	Description	Revised By	Date
E	BHB1,BHB2,BHB3, W1,W2,W3,BH3-06 & BH08-06 Added (BH3-06 & BH08-06 Ref:D907_31 Iss 0)	MRG	17-08-09
D	BH1 Removed & BH19 Added	MRG	07-07-08
C	BH1 Added	JWH	11 June 2008
B	BH5/06 Erased S2/6 Added	JWH	09 June 2008
A	Boreholes Erased	JWH	14 May 2008
	FIRST ISSUE		23 April 2008

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Site Address:
Bayer Site
Hauxton
Cambridge

Rev: E

Title: Retained Boreholes for Monitoring & Reference

Client: Harrow Estates

Drawn: JWH	Checked: MA	Approved: MA
Dwg: D907_31	Contract: 907BRI	Scale: 1:1000

A1

Waste Water
Treatment Plant

26081999
Last update

Potential Water
Receptor

Vertase FLI Site
For Remediation

Potential Housing/Public
Receptor

Legend

- Sub-Station/Buildings to Remain
- Water Course
- Vertase FLI Site for Remediation
- Mobile Treatment Licence Boundary
- Site Effluent Sump and Ducting
- Diffusion Tubes /Monitoring Location
- Dust Monitoring Location
- Water Sampling Location

Drawing Base : Ref
LW/HAUX-002/2006

Rev.	Description	Revised By	Date
C	Dust Monitoring Locations Amended	MRG	14 July 08
B	Dust Monitoring Location Amended	JWH	09 June 08
A	Water Sampling Points Added Treatment Building Amended	JWH	15 May 2008
	FIRST ISSUE		21 April 2008

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Site Address:

Bayer Site
Hauxton
Cambridge

Rev: C

Title: Environmental Monitoring Plan

Client: Harrow Estates

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

Appendix B

Environmental Monitoring Data

						ODOUR					DUST		NOISE	LITTER		RIDDY BROOK				METEOROLOGICAL AND ENVIRONMENTAL CONDITIONS						
Assessor	Date	Daily Activity	Boundary	Start Time	Finish Time	Detectability (Yes or No)	Intensity (1 to 9)	Quality (Description)	Hedonic Tone (-3 to+3)	Location Sensitivity (1 to 5)	Odour Source (1 to 5)	PID (ppm)	TSP	PM10	Average (dBa)	Present (Description)	Materials attracting scavengers	Inspection	Water Level (mAOD)	Complaints	Action Required	Wind Speed (1 to 6)	Wind Direction	Air Temp (C)	Description (Rain, Sun)	Cloud Cover (0 to 8)	Ground Conditions (Wet, dry)	General Notes
T Walker	31/01/2011	excavating in grids/bed turning	N	10.30	10.35		1	no odour	0	2	1	0	63	67	70	no	no	clear	9.189	no	no							TCE/pesticide odour at the NE boundary next to the dig. Deemed to be not to give rise to complaints or nuisance
T Walker	31/01/2011	excavating in grids/bed turning	NE	10.35	10.40		3	TCE/Pesticides	-1	2	3	0	399	104	68	no	no	clear		no	no							
T Walker	31/01/2011	excavating in grids/bed turning	NE1	10.35	10.40								83	31		no	no	clear		no	no							
T Walker	31/01/2011	excavating in grids/bed turning	SE	10.40	10.45		2	exhaust fumes	-1	2	3	0	78	50	55	no	no	clear	9.639	no	no							
T Walker	31/01/2011	excavating in grids/bed turning	SE	10.45	10.50		2	odour control	1	3	3	0			50	no	no			no	no							
T Walker	31/01/2011	excavating in grids/bed turning	S	10.50	10.55		1	no odour	0	3	1	0	133	24	53	no	no			no	no							
T Walker	31/01/2011	excavating in grids/bed turning	SW	10.55	11.00		1	no odour	0	4	1	0			66	no	no			no	no							
T Walker	31/01/2011	excavating in grids/bed turning	W	11.00	11.10		1	no odour	0	4	1	0	67	79	74	no	no			no	no							
T Walker	31/01/2011	excavating in grids/bed turning	NW	11.05	11.10		1	no odour	0	2	1	0			56.3	no	no			no	no							
T Walker	31/01/2011	excavating in grids/bed turning	N	16.00	16.05		1	no odour	0	2	1	0	135	35	58	no	no	clear	9.189	no	no							
T Walker	31/01/2011	excavating in grids/bed turning	NE	16.05	16.10		4	TCE/Pesticides	4	2	3	0	47	42	71	no	no	clear		no	no							
T Walker	31/01/2011	excavating in grids/bed turning	NE1	16.10	16.15								61	16		no	no	clear		no	no							
T Walker	31/01/2011	excavating in grids/bed turning	E	16.15	16.20		4	TCE/Pesticides	3	2	3	0	58	42	62	no	no	clear	9.639	no	no							
T Walker	31/01/2011	excavating in grids/bed turning	SE	16.20	16.25		1	no odour	0	3	1	0			71	no	no			no	no							
T Walker	31/01/2011	excavating in grids/bed turning	S	16.25	16.30		1	no odour	0	3	1	0	111	61	63	no	no			no	no							
T Walker	31/01/2011	excavating in grids/bed turning	SW	16.30	16.35		1	no odour	0	4	1	0			60	no	no			no	no							
T Walker	31/01/2011	excavating in grids/bed turning	W	16.35	16.40		1	no odour	0	4	1	0	49	22	26	no	no			no	no							
T Walker	31/01/2011	excavating in grids/bed turning	NW	16.40	16.45		1	no odour	0	2	1	0			44	no	no			no	no							
T Walker	01/02/2011	excavating in grids/bed turning	N	10.00	10.05		1	no odour	0	2	1	0	43	21	56	no	no	clear	9.189	no	no	2	SW	7	dry	3	dry	Excavation producing some odours onto Riddy brook footpath but odours are not excessive
T Walker	01/02/2011	excavating in grids/bed turning	NE	10.05	10.10		3	TCE	-1	2	3	0	91	36	57	no	no	clear		no	no							
T Walker	01/02/2011	excavating in grids/bed turning	NE1	10.10	10.15								110	34		no	no	clear		no	no							
T Walker	01/02/2011	excavating in grids/bed turning	E	10.15	10.20		3	TCE	-1	2	3	0	126	34	67	no	no	clear	9.638	no	no							
T Walker	01/02/2011	excavating in grids/bed turning	SE	10.20	10.25		1	no odour	0	3	1	0			51	no	no			no	no							
T Walker	01/02/2011	excavating in grids/bed turning	S	10.25	10.30		1	no odour	0	3	1	0	101	10	49	no	no			no	no							
T Walker	01/02/2011	excavating in grids/bed turning	SW	10.30	10.35		1	no odour	0	4	1	0			47	no	no			no	no							
T Walker	01/02/2011	excavating in grids/bed turning	W	10.35	10.40		1	no odour	0	4	1	0	123	88	48	no	no			no	no							
T Walker	01/02/2011	excavating in grids/bed turning	NW	10.40	10.45		1	no odour	0	2	1	0			53	no	no			no	no							
T Walker	01/02/2011	excavating in grids/bed turning	N	15.00	15.05		1	no odour	0	2	1	0	76	36	56	no	no	clear	9.189	no	no	3	ww	6	sun	3	dry	odours from moving force vented bed beginning to cause odours on boundary; odour control system has been turned on to run overnight.
T Walker	01/02/2011	excavating in grids/bed turning	NE	15.20	15.25		1	no odour	0	2	1	0	67	23	67	no	no	clear		no	no							
T Walker	01/02/2011	excavating in grids/bed turning	NE1	15.15	15.20								111	42		no	no	clear		no	no							
T Walker	01/02/2011	excavating in grids/bed turning	E	15.20	15.25		1	no odour	0	2	1	0	146	18	43	no	no	clear	9.638	no	no							
T Walker	01/02/2011	excavating in grids/bed turning	SE	15.25	15.30		2	TCE	-1	3	3	0			58	no	no			no	no							
T Walker	01/02/2011	excavating in grids/bed turning	S	15.30	15.35		2	TCP	-1	3	3	0	64	26	71	no	no			no	no							
T Walker	01/02/2011	excavating in grids/bed turning	SW	15.35	15.40		1	no odour	0	4	1	0			70	no	no			no	no							
T Walker	01/02/2011	excavating in grids/bed turning	W	15.40	15.45		1	no odour	0	4	1	0	28	29	67	no	no			no	no							
T Walker	01/02/2011	excavating in grids/bed turning	NW	15.45	15.50		1	no odour	0	2	1	0			65	no	no			no	no							
T Walker	02/02/2011	excavating in grids/bed turning/concrete crushing	N	9.00	9.05		1	no odour	0	2	1	0	84	36	57	no	no	clear	9.189	no	no	2.9	sw	5	dry/overcast	6	dry	odours on boundary are minima
T Walker	02/02/2011	excavating in grids/bed turning/concrete crushing	NE	9.05	9.10		3	odour control	1	2	3	0	116	28	63	no	no	clear		no	no							
T Walker	02/02/2011	excavating in grids/bed turning/concrete crushing	NE1	9.10	9.15								99	14		no	no	clear		no	no							
T Walker	02/02/2011	excavating in grids/bed turning/concrete crushing	SE	9.15	9.20		1	no odour	0	2	1	0	121	16	60	no	no	clear	9.639	no	no							
T Walker	02/02/2011	excavating in grids/bed turning/concrete crushing	SE	9.20	9.25		1	no odour	0	3	1	0			53	no	no			no	no							
T Walker	02/02/2011	excavating in grids/bed turning/concrete crushing	S	9.35	9.40		1	no odour	0	3	1	0	106	22	48	no	no			no	no							
T Walker	02/02/2011	excavating in grids/bed turning/concrete crushing	SW	9.40	9.45		1	no odour	0	4	1	0			48	no	no			no	no							
T Walker	02/02/2011	excavating in grids/bed turning/concrete crushing	W	9.50	9.55		1	no odour	0	4	1	0	104	26	47	no	no			no	no							
T Walker	02/02/2011	excavating in grids/bed turning/concrete crushing	NW	10.00	10.05		1	no odour	0	2	1	0			64	no	no			no	no							
T Walker	02/02/2011	excavating in grids/bed turning/concrete crushing	N	16.30	16.35		1	no odour	0	2	1	0	46	71	61	no	no	clear	9.189	no	no							Weather station not in use
T Walker	02/02/2011	excavating in grids/bed turning/concrete crushing	NE	16.35	16.40		4	tcp/odour control	2	2	3	0	47	23	57	no	no	clear		no	no							
T Walker	02/02/2011	excavating in grids/bed turning/concrete crushing	NE1	16.40	16.45								141	26		no	no	clear		no	no							
T Walker	02/02/2011	excavating in grids/bed turning/concrete crushing	E	16.45	16.50		4	tcp/odour control	2	2	3	0	38	31	54	no	no	clear	9.639	no	no							
T Walker	02/02/2011	excavating in grids/bed turning/concrete crushing	SE	16.50	17.00		1	no odour	0	3	1	0			63	no	no			no	no							
T Walker	02/02/2011	excavating in grids/bed turning/concrete crushing	S	17.00	17.05		1	no odour	0	3	1	0	53	48	48	no	no			no	no							
T Walker	02/02/2011	excavating in grids/bed turning/concrete crushing	SW	17.05	17.10		1	no odour	0	4	1	0			66	no	no			no	no							
T Walker	02/02/2011	excavating in grids/bed turning/concrete crushing	W	17.10	17.18		1	no odour	0	4	1	0	67	97	70	no	no			no	no							
T Walker	02/02/2011	excavating in grids/bed turning/concrete crushing	NW	17.18	17.22		1	no odour	0	2	1	0			70	no	no			no	no							
I Stephenson	03/02/2011	moving 93 and 87 into warehouse	N	8.40	8.45					2		0	98.2	70	66.6	no	no	clear	9.189	no	no							
I Stephenson	03/02/2011	moving 93 and 87 into warehouse	NE	8.45	8.50					2		0	33.3	29.3	54.8	no	no	clear		no	no							
I Stephenson	03/02/2011	moving 93 and 87 into warehouse	NE1	8.50	8.55								21.4	16.5		no	no	clear		no	no							
I Stephenson	03/02/2011	moving 93 and 87 into warehouse	E	8.55	9.00		4	chlorinated phenols consistent with wind	-1	2	4	0	17.3	3.1	50	no	no	clear	9.639	no	odour control needs activating/adjus	6.5	SW	4.8	dry	7	damp	no odour at church
I Stephenson	03/02/2011	moving 93 and 87 into warehouse	SE	9.00	9.05		3	very faint chemical odour sweet consistent with wa	0	3	3	0			47.1	no	no			no	no							
I Stephenson	03/02/2011	moving 93 and 87 into warehouse	S	9.05	9.10					3		0	68.1	19.4	65.6	no	no			no	no							
I Stephenson	03/02/2011	moving 93 and 87 into warehouse	SW	9.10	9.15		3	wet veg and car emissions	-1	4	1	0			75.1	no	no			no	no							
I Stephenson	03/02/2011	moving 93 and 87 into warehouse	W	9.15	9.20					4		0	121.9	31.2	63.5	no	no			no	no							
I Stephenson	03/02/2011	moving 93 and 87 into warehouse	NW	9.20	9.25		3	car emissions	0	2	3	0			59.4	no	no			no	no							
I Stephenson	03/02/2011	moving 93 and 87	N	17.00	17.05					2			200	107	61.3	no	no	clear	9.189	no	no	8	SW	7	sunny	8	damp	no odour at church
I Stephenson	03/02/2011	moving 93 and 87	NE	17.05	17.10					2			217	120	68.5	no	no	clear		no	no							
I Stephenson	03/02/2011	moving 93 and 87	NE1	17.10	17.15					2			134	154		no	no	clear		no	no							
I Stephenson	03/02/2011	moving 93 and 87	E	17.15	17.20		4	slight chlorinated phenols and veg	-1	2	3	0	141	130	61.2	no	no	clear	9.639	no	no							
I Stephenson	03/02/2011	moving 93 and 87	SE	17.20	17.25					3		0			54.3	no	no			no	no							
I Stephenson	03/02/2011	moving 93 and 87	S	17.25	17.30					3		0	171	126	71.2	no	no			no	no							
I Stephenson	03/02/2011	moving 93 and 87	SW	17.30	17.35					4		0			73.4	no	no			no	no							
I Stephenson	03/02/2011	moving 93 and 87	W	17.35	17.40					4		0	372	105	75.1	no	no			no	no							
I Stephenson	03/02/2011	moving 93 and 87	NW	17.40	17.45		5	ashphalt, car fumes	-1	2	3	0			81.2	no	no			no	no							
I Stephenson	04/02/2011	moving 93 and 87 into warehouse	N	8.50	8.55					2		0			68.4	no	no	clear	9.189	no	no	2	SW	4	clear	2	damp	No odour at church
I Stephenson	04/02/2011	moving 93 and 87 into warehouse	NE	8.55	9.00		4	odour control fresh linen	0	2	3	0			69.2	no	no	clear		no	no							
I Stephenson	04/02/2011	moving 93 and 87 into warehouse	NE1	9.00	9.05											no	no	clear		no	no							
I Stephenson	04/02/2011	moving 93 and 87 into warehouse	E	9.05	9.10					2		0			64.8	no	no	clear	9.639	no	no							
I Stephenson	04/02/2011	moving 93 and 87 into warehouse	SE	9.10	9.15		4	odour control fresh linen	2	3	3	0			63.1	no	no			no	no							
I Stephenson	04/02/2011	moving 93 and 87 into warehouse	S	9.15	9.20		3	wet veg and tarmac	-1	3	3	0			69.3	no	no			no	no							
I Stephenson	04/02/2011	moving 93 and 87 into warehouse	SW	9.20	9.25		5	wet veg exhaust fumes tarmac	-2	4	1	0			72.6	no	no			no	no							
I Stephenson	04/02/2011	moving 93 and 87 into warehouse	W	9.25	9.30		3	exhaust emissions	-1	4	1	0			74.9	no	no			no	no							
I Stephenson	04/02/2011	moving 93 and 87 into warehouse	NW	9.30	9.35		3	exhaust emissions	-1	2	1	0			73.8	no	no			no	no							
I Stephenson	04/02/2011	moving 93 and 87 into warehouse	N	16.30	16.35					2		0	133	131	63.8	no	no	clear	9.189	no		15	SW	5	gales	8	damp	damp vegetation odour at church
I Stephenson	04/02/2011	moving 93 and 87 into warehouse	NE	16.35	16.40		5	odour control and wet veg and chlorinated phenol	-1	2	3	0	208	157	68.9	no	no	clear		no	no							
I Stephenson	04/02/2011	moving 93 and 87 into warehouse	NE1	16.40	16.45								247	158		no	no	clear		no	no							
I Stephenson	04/02/2011	moving 93 and 87 into warehouse	E	16.45	16.50		3	odour control and and fresh linen	-1	2	3	0	188	210	54.2	no	no	clear	9.639	no	no							
I Stephenson	04/02/2011	moving 93 and 87 into warehouse	SE	16.50	16.55		4	odour control and chlorinated phenol	-1	3	5	0			39.8	no	no			no	adjust odour control							
I Stephenson	04/02/2011	moving 93 and 87 into warehouse	S	16.55	17.00					3		0	173	172	68.2	no	no			no	no							
I Stephenson	04/02/2011	moving 93 and 87 into warehouse	SW	17.00	17.05					4		0			71.3	no	no			no	no							
I Stephenson	04/02/2011	moving 93 and 87 into warehouse	W	17.05	17.10			car fumes and veg	0	4	1	0	145	184	70.7	no	no			no	no							
I Stephenson	04/02/2011	moving 93 and 87 into warehouse	NW	17.10	17.15		3	car fumes and wet veg	-1	2	1	0			76.2	no	no			no	no							
I Stephenson	07/02/2011	No Works	N	10.30	10.35					2		0	133.9	28.5	63.3	no	no	clear	9.169	no	no	26	SW	4.5	cloudy and wind	8	damp	no odour at church
I Stephenson	07/02/2011	No Works	NE	10.35	10.40		3	chlorinated phenols	-1	2	3	0		21.9	43.7	72.8	no	no	clear		no	no							
I Stephenson	07/02/2011	No Works	NE1	10.40	10.45								61.2	58.9		no	no	clear		no	no							
I Stephenson	07/02/2011	No Works	E	10.45	10.50		4	Chlorinated phenols	-2	2	4	0	44.1	38.3	73.6	no	no	clear	9.648	no	check/activate odour control							
I Stephenson	07/02/2011	No Works	SE	10.50	10.55					3		0			48.7	no	no			no	no							
I Stephenson	07/02/2011	No Works	S	10.55	11.00		2	car exhaust emissions	0	3	1	0	78.6	13.2	68.2	no	no			no	no							
I Stephenson	07/02/2011	No Works	SW	11.00	11.05		4	car exhaust emissions	-1	4	1	0			78.4	no	no			no	no							
I Stephenson	07/02/2011	No Works	W	11.05	11.10		4	car exhaust emissions	0	4	1	0	28.4	16.2	75.6	no	no			no	no							
I Stephenson	07/02/2011	No Works	NW	11.10	11.20								77.1		73.1	no	no			no	no							
I Stephenson	07/02/2011	No Works	N	17.00	17.05					2		0	18.4	22.9	53.8	no	no	clear	9.169	no	no	18	w	8	sunny		damp	no odour at church
I Stephenson	07/02/2011	No Works	NE	17.05	17.10					2		0	73.6	22.1	55.3	no	no	clear		no	no							
I Stephenson	07/02/2011	No Works	NE1	17.10	17.15								104.3	17.8		no	no	clear		no	no							
I Stephenson	07/02/2011	No Works	E	17.15	17.20		3	chlorinated phenols	0	2	3	0	56.7	42.4	48.2	no	no	clear	9.648	no	check when odour control online							
I Stephenson	07/02/2011	No Works	SE	17.20	17.25		3	chlorinated phenols	-1	3	3	0			46.1	no	no			no	check when odour control online							
I Stephenson	07/02/2011	No Works	S	17.25	17.30					3		0	34.8	18.9	64.1	no	no			no	no							
I Stephenson	07/02/2011	No Works	SW	17.30	17.35					4		0			66.7	no	no			no	no							
I Stephenson	07/02/2011	No Works	W	17.35	17.40		3	exhaust fumes ashphalt	-1	4	1	0	73.8	11.2	71.9	no	no			no	no							
I Stephenson	07/02/2011	No Works	NW	17.40	17.45					2		0			79.5	no	no			no	no							
I Stephenson	08/02/2011	Moving 66D into force vent kit	N	9.30	9.35					2		0	53.8		53.8	no	no	clear	9.119	no	no	3	SW	1	clear	0	damp	bonfire smoke odour at church
I Stephenson	08/02/2011	Moving 66D into force vent kit	NE	9.35	9.40		4	chlorinated phenols	-1	2	4	0			53.3	no	no	clear		no	no							
I Stephenson	08/02/2011	Moving 66D into force vent kit	NE1	9.40	9.45											no	no	clear		no	no							
I Stephenson	08/02/2011	Moving 66D into force vent kit	E	9.45	9.50		3	slight sweet chemical odour	0	2	3	0			48.4	no	no	clear	9.628	no	no							
I Stephenson	08/02/2011	Moving 66D into force vent kit	SE	9.50	9.55		5	bonfire smoke	-1	3	3	0			56.2	no	no			no	no							
I Stephenson	08/02/2011	Moving 66D into force vent kit	S	9.55	10.05		5	bonfire smoke	-1	3	3	0			46.1	no	no			no	no							
I Stephenson	08/02/2011	Moving 66D into force vent kit	SW	10.05	10.10		5	bonfire smoke	-1	4	3	0			55.4	no	no			no	no							
I Stephenson	08/02/2011	Moving 66D into force vent kit	W	10.10	10.15		4	car fumes	0	4	1	0			67.7	no	no			no	no							
I Stephenson	08/02/2011	Moving 66D into force vent kit	NW	10.15	10.20		4	ashphalt	-1	2	1	0			67.8	no	no			no	no							
I Stephenson	08/02/2011	Moving bed into force vent kit	N	15.00	15.05					2		0	66.2	48.5	67.3	no	no	clear	9.119	no	no	8	SSE	8	cloudy	8	damp	no odour at church
I Stephenson	08/02/2011	Moving bed into force vent kit	NE	15.05	15.10		5	hydrocarbon and chlorinated phenols	1	2	5	0	24.3	9.8	73.7	no	no	clear		no	no							
I Stephenson	08/02/2011	Moving bed into force vent kit	NE1	15.10	15.15								16	21.9		no	no	clear		no	no							
I Stephenson	08/02/2011	Moving bed into force vent kit	E	15.15	15.20					3		0	49.7	12.8	49.3	no	no	clear	9.628	no	no							
I Stephenson	08/02/2011	Moving bed into force vent kit	SE	15.20	15.25					3		0			39.8	no	no	clear		no	no							
I Stephenson	08/02/2011	Moving bed into force vent kit	S	15.25	15.30					3		0	23.1	3.4	51.6	no	no			no	no							
I Stephenson	08/02/2011	Moving bed into force vent kit	SW	15.30	15.35		5	car exhaust fumes	2	4	1	0			74.6	no	no			no	no							
I Stephenson	08/02/2011	Moving bed into force vent kit	W	15.35	15.40		4	car exhaust and slight TCP	-1	4	2	0	71.4	61.5	73.2	no	no			no	no							
I Stephenson	08/02/2011	Moving bed into force vent kit	NW	15.40	15.45		4	Car exhaust emissions	0	2	1	0			62.2	no	no			no	no							
I Stephenson	08/02/2011	Moving bed into force vent kit	N	17.00	17.05					2		0	28.7	20.7	58	no	no	clear	9.119	no	no	2	S	8.1	sunny	1	damp	slight bonfire odour at church
I Stephenson	08/02/2011	Moving bed into force vent kit	NE	17.05	17.10					2		0	82.4	31.6	50.4	no	no	clear		no	no							
I Stephenson	08/02/2011	Moving bed into force vent kit	NE1	17.10	17.15								13.5	14.2		no	no	clear		no	no							
I Stephenson	08/02/2011	Moving bed into force vent kit	E	17.15	17.20					2		0	53.6	11.2	42.9	no	no	clear	9.628	no	no							
I Stephenson	08/02/2011	Moving bed into force vent kit	SE	17.20	17.25					3		0			41.3	no	no	clear		no	no							
I Stephenson	08/02/2011	Moving bed into force vent kit	S	17.25	17.30		3	bonfire smoke	1	3	3	0	24.2	13.1	46.7	no	no			no	no							
I Stephenson	08/02/2011	Moving bed into force vent kit	SW	17.30	17.35					4		0			73.9	no	no			no	no							
I Stephenson	08/02/2011	Moving bed into force vent kit	W	17.35	17.40		5	chlorinated phenols	-1	4	4	0	71.3	54.2	66.1	no	no			no	odour control							
I Stephenson	08/02/2011	Moving bed into force vent kit	NW	17.40	17.45					2		0			62.3	no	no			no	no							
M Allsobrook	09/02/2011	Moving TB69	N	16.00	16.05		3	exhaust fumes	-1	2	5	0	250.4	79.6	64.8	small amount	no	clear	9.189	no	filter collected	8	S	11	sun dry	2	dry	
M Allsobrook	09/02/2011	Moving TB69	NE	15.43	15.48		1	vegetation	1	2	3	0	73.3	50.4	51.8	no	no	clear		no	no							
M Allsobrook	09/02/2011	Moving TB69	NE1	15.37	15.42								97.6	75.5		no	no	clear		no	no							
M Allsobrook	09/02/2011	Moving TB69	E	15.31	15.36					2		0	71.7	65.8	45	no	no	clear	9.628	no	no							
M Allsobrook	09/02/2011	Moving TB69	SE	15.25	15.30		1	vegetation	1	3	3	0			51.7	no	no	clear		no	no							
M Allsobrook	09/02/2011	Moving TB69	S	15.18	15.23					3		0	90.9	77.7	68.7	no	no			no	no							
M Allsobrook	09/02/2011	Moving TB69	SW	15.12	15.17		4	traffic fumes	-2	4	3	0			81.1	no	no			no	no							
M Allsobrook	09/02/2011	Moving TB69	W	15.06	15.11					4		0	56.4	53.4	75.1	no	no			no	no							

M Allsobrook	09/02/2011	Moving TB69	NW	15.00	15.05	y	2	traffic fumes	-1	2	-1	0			76.5	no	no				no									
Stephenson	10/02/2011	Moving 66D into warehouse	N	10.30	10.35	y	4	fresh linen odour control	1	2	5	0			59.0	no	no	clear	9.189		no	no	5	S		rain	8	wet	odour of wet veg at the church, no dustmate due to heavy rair
Stephenson	10/02/2011	Moving 66D into warehouse	NE	10.35	10.40	y	5	wet veg, chlorinated phenols, odour control	1	2	4	0			67.4	no	no	clear			no	no								
Stephenson	10/02/2011	Moving 66D into warehouse	NE1	10.40	10.45													clear			no	no								
Stephenson	10/02/2011	Moving 66D into warehouse	E	10.45	10.50	y	5	wet veg and fresh linen odour control	1	2	3	0			59.3	no	no	clear	9.638		no	no								
Stephenson	10/02/2011	Moving 66D into warehouse	SE	10.50	10.55	y	6	wet vegetation	-3	3	-1	0			52.5	no	no				no	no								
Stephenson	10/02/2011	Moving 66D into warehouse	S	10.55	11.00	y	4	wet veg and ashphalt	-1	3	-1	0			48.7	no	no				no	no								
Stephenson	10/02/2011	Moving 66D into warehouse	SW	11.00	11.05	y	4	wet vegetation	0	4	1	0			68.1	no	no				no	no								
Stephenson	10/02/2011	Moving 66D into warehouse	W	11.05	11.10	y	5	wet tarmac, exhaust fumes odour control	-1	4	-2	0			77.8	no	no				no	no								
Stephenson	10/02/2011	Moving 66D into warehouse	NW	11.15	11.20	y	5	wet tarmac and ashphalt fumes	-1	2	-1	0			81.1	no	no				no	no								
Stephenson	10/02/2011	moving tarmac	N	17.00	17.05	y	5	fresh linen odour control and wet veg	0	2	5	0			63.8	no	no	clear	9.189		no	no	5.5	S	10	rain-heavy	8	wet	wet veg & asphalt odour at church, no dustmate due to heavy rair
Stephenson	10/02/2011	moving tarmac	NE	17.05	17.10	y	4	wet veg and odour control	-1	2	3	0			67.2	no	no	clear			no	no								
Stephenson	10/02/2011	moving tarmac	NE1	17.10	17.15													clear			no	no								
Stephenson	10/02/2011	moving tarmac	E	17.15	17.20	y	6	wet veg	-1	2	-1	0			65.9	no	no	clear	9.638		no	no								
Stephenson	10/02/2011	moving tarmac	SE	17.20	17.25	y	6	wet veg	-1	3	-1	0			70.8	no	no				no	no								
Stephenson	10/02/2011	moving tarmac	S	17.25	17.30	y	5	wet ashphalt and veg	-1	3	-1	0			72.1	no	no				no	no								
Stephenson	10/02/2011	moving tarmac	SW	17.30	17.35	y	4	wet veg and car fumes	-2	4	-1	0			73.5	no	no				no	no								
Stephenson	10/02/2011	moving tarmac	W	17.35	17.40	y	5	wet veg and car fumes	-2	4	-1	0			81.8	no	no				no	no								
Stephenson	10/02/2011	moving tarmac	NW	17.40	17.45	y	4	wet veg and exhaust fumes	-1	2	-1	0			76.4	no	no				no	no								
Stephenson	11/02/2011	moving tarmac	N	9.30	9.35	y	4	ashphalt, wet veg, river	-1	2	-1	0	28.1	17.7	58	no	no	clear	9.229		no	no	5.5	S	10.1	clear	1	wet	no odour at church
Stephenson	11/02/2011	moving tarmac	NE	9.35	9.40	y	4	wet veg, river, odour control, slight TCP	0	2	3	0	84.7	36.9	55.8	no	no	clear			no	no								
Stephenson	11/02/2011	moving tarmac	NE1	9.40	9.45								23.2	22.2				clear			no	no								
Stephenson	11/02/2011	moving tarmac	E	9.45	9.50					2		0	34.9	8.2	45.7	no	no	clear	9.678		no	no								
Stephenson	11/02/2011	moving tarmac	SE	9.50	9.55	y	3	wet vegetation	0	3	1	0			68.8	no	no				no	no								
Stephenson	11/02/2011	moving tarmac	S	9.55	10.00	y				3		0	18.5	17	51.1	no	no				no	no								
Stephenson	11/02/2011	moving tarmac	SW	10.05	10.10	y				4		0			72.9	no	no				no	no								
Stephenson	11/02/2011	moving tarmac	W	10.10	10.15	y	2	wet ashphalt slight TCP	0	4	0	0	16.8	9.2	76.2	no	no				no	no								
Stephenson	11/02/2011	moving tarmac	NW	10.15	10.20	y				2		0			73.2	no	no				no	no								
Stephenson	11/02/2011	moving tarmac	N	17.00	17.05	y	4	odour control	1	2	4	0			63.3	no	no	clear	9.229		no	no	6.5	S	10	cloudy	8	wet	no odour at church
Stephenson	11/02/2011	moving tarmac	NE	17.05	17.10	y	5	odour control and solvent and veg	-1	2	4	0			68.4	no	no	clear			no	no								
Stephenson	11/02/2011	moving tarmac	NE1	17.10	17.15													clear			no	no								
Stephenson	11/02/2011	moving tarmac	E	17.15	17.20	y	4	wet veg and odour control	1	2	3	0			55.7	no	no	clear	9.678		no	no								
Stephenson	11/02/2011	moving tarmac	SE	17.20	17.25	y	3	wet veg	-1	3	-1	0			54.6	no	no				no	no								
Stephenson	11/02/2011	moving tarmac	S	17.25	17.30					3		0			67.5	no	no				no	no								
Stephenson	11/02/2011	moving tarmac	SW	17.30	17.35					4		0			71	no	no				no	no								
Stephenson	11/02/2011	moving tarmac	W	17.35	17.40	y				4		0			74.6	no	no				no	no								
Stephenson	11/02/2011	moving tarmac	NW	17.40	17.45					2		0			68.3	no	no				no	no								
Stephenson	14/02/2011	excavating in grids H6	N	9.30	9.35	y	3	veg, OC, slight chemical	0	2	3	0	98.4	64	59.4	no	no	clear	9.229		no	no	6.5	SE	6	clear	1	wet	Church - no odour
Stephenson	14/02/2011	excavating in grids H6	NE	9.35	9.40	y	5	chlorinated phenols	-1	2	5	0	108.9	49.8	67	no	no	clear			no	no								
Stephenson	14/02/2011	excavating in grids H6	NE1	9.40	9.45								113.3	66.2				clear			no	no								
Stephenson	14/02/2011	excavating in grids H6	E	9.45	9.50	y	5	wet veg, oc, chlorinated phenols	0	2	3	0	78.2	16.8	60.9	no	no	clear	9.678		no	no								
Stephenson	14/02/2011	excavating in grids H6	SE	9.50	9.55	y	4	wet vegetation	-1	3	-1	0			57.2	no	no				no	no								
Stephenson	14/02/2011	excavating in grids H6	S	9.55	10.00	y	2	wet ashphalt	0	3	0	0	17.2	13.5	63.8	no	no				no	no								
Stephenson	14/02/2011	excavating in grids H6	SW	10.00	10.05					4		0			71.6	no	no				no	no								
Stephenson	14/02/2011	excavating in grids H6	W	10.10	10.15					4		0	29.6	17.1	78.3	no	no				no	no								
Stephenson	14/02/2011	excavating in grids H6	NW	10.15	10.20	y	4	chlorinated phenols	-1	2	5	0			61.4	no	no				no	no								
Stephenson	14/02/2011	excavating in grids H6	N	17.00	17.05	y	4	fresh linen	1	2	3	0	151	73	59.5	no	no	clear	9.229		no	no	7	S	7.9	clear	1	wet	odour of wet veg and asphalt at the churcl
Stephenson	14/02/2011	excavating in grids H6	NE	17.05	17.10	y	6	solvents and hydrocarbons	1	2	5	0	104	74	70.2	no	no	clear			no	no				stoner bed 136 asap				
Stephenson	14/02/2011	excavating in grids H6	NE1	17.10	17.15								103	93				clear			no	no								
Stephenson	14/02/2011	excavating in grids H6	E	17.15	17.20	y	4	fresh linen	1	2	3	0	92	64	47.2	no	no	clear	9.678		no	no								
Stephenson	14/02/2011	excavating in grids H6	SE	17.20	17.25										53.1	no	no				no	no								
Stephenson	14/02/2011	excavating in grids H6	S	17.25	17.30					3		0	84	115	48.9	no	no				no	no								
Stephenson	14/02/2011	excavating in grids H6	SW	17.30	17.35	y	3	bonfire smoke	1	4	1	0			69	no	no				no	no								
Stephenson	14/02/2011	excavating in grids H6	W	17.35	17.40					4		0	104	89	76	no	no				no	no								
Stephenson	14/02/2011	excavating in grids H6	NW	17.40	17.45	y	5	fresh linen, car fumes	2	2	3	0			67.2	no	no				no	no								
T Walker	15/02/2011	excavating in grids/bed turning/concrete crushing	N	9.00	9.05	y	3	no odour	0	2	5	0	127	71	56	no	no	clear	9.203		no	no	6	SE	7	dry	6	dry	slight pesticides odour on A10 but not considered problematic at the current time
T Walker	15/02/2011	excavating in grids/bed turning/concrete crushing	NE	9.05	9.10	y	1	no odour	0	2	5	0	131	56	59	no	no	clear			no	no								
T Walker	15/02/2011	excavating in grids/bed turning/concrete crushing	NE1	9.05	9.10								113	27				clear			no	no								
T Walker	15/02/2011	excavating in grids/bed turning/concrete crushing	E	9.10	9.15	y	1	no odour	0	2	5	0	98	31	62	no	no	clear	9.639		no	no								
T Walker	15/02/2011	excavating in grids/bed turning/concrete crushing	SE	9.15	9.20	y	1	no odour	0	3	5	0			67	no	no				no	no								
T Walker	15/02/2011	excavating in grids/bed turning/concrete crushing	S	9.20	9.25	y	1	no odour	0	3	5	0	94	39	69	no	no	clear			no	no								
T Walker	15/02/2011	excavating in grids/bed turning/concrete crushing	SW	9.25	9.30	y	1	no odour	0	4	5	0			71	no	no				no	no								
T Walker	15/02/2011	excavating in grids/bed turning/concrete crushing	W	9.30	9.35	y	3	pesticides	1	4	5	0	141	101	69	no	no	clear			no	no								
T Walker	15/02/2011	excavating in grids/bed turning/concrete crushing	NW	9.35	9.40	y	2	pesticides	1	2	3	0			44	no	no				no	no								
Stephenson	15/02/2011	excavating in grids J5 &J6/bed turning	N	17.00	17.05	y				2		0	170	139	63.8	no	no	clear	9.203		no	no	12	SE	6	drizzle	8	wet	Bonfire odour and wet veg at church
Stephenson	15/02/2011	excavating in grids J5 &J6/bed turning	NE	17.05	17.10	y	4	hydrocarbon and OC	-1	2	4	0	183	117	40	no	no	clear			no	no								
Stephenson	15/02/2011	excavating in grids J5 &J6/bed turning	NE1	17.10	17.15								129	53.9				clear			no	no								
Stephenson	15/02/2011	excavating in grids J5 &J6/bed turning	E	17.15	17.20	y				2		0	182	82.9	52.3	no	no	clear	9.639		no	no								
Stephenson	15/02/2011	excavating in grids J5 &J6/bed turning	SE	17.20	17.25	y						0			61.9	no	no				no	no								
Stephenson	15/02/2011	excavating in grids J5 &J6/bed turning	S	17.25	17.30	y	4	bonfire smoke	2	3	1	0	91.6	163.7	65.3	no	no				no	no								
Stephenson	15/02/2011	excavating in grids J5 &J6/bed turning	SW	17.30	17.35	y	5	bonfire smoke ashphalt fumes	1	4	1	0			78.5	no	no				no	no								
Stephenson	15/02/2011	excavating in grids J5 &J6/bed turning	W	17.35	17.40	y	4	wet ashphalt and car fumes	-1	4	1	0	509.8	137.6	76.2	no	no				no	no								
Stephenson	15/02/2011	excavating in grids J5 &J6/bed turning	NW	17.40	17.45	y	3	wet ashphalt	0	2	0	0			72.4	no	no				no	no								
T Walker	16/02/2011	excavating in grids/bed turning/concrete crushing	N	10.30	10.35	y	2	heavy oil/cp	-1	2	-1	0	229	226	69	no	no	clear	9.198		no	no	8	SW	8.9	dry	3	dry	
T Walker	16/02/2011	excavating in grids/bed turning/concrete crushing	NE	10.35	10.40	y	1	odour control	0	2	5	0	415	158	60	no	no	clear			no	no								
T Walker	16/02/2011	excavating in grids/bed turning/concrete crushing	NE1	10.35	10.40								117	156				clear			no	no								
T Walker	16/02/2011	excavating in grids/bed turning/concrete crushing	E	10.40	10.45	y	1	no odour	0	2	5	0	401	170	66	no	no	clear	9.636		no	no								
T Walker	16/02/2011	excavating in grids/bed turning/concrete crushing	SE	10.45	10.50	y	1	no odour	0	3	5	0			69	no	no				no	no								
T Walker	16/02/2011	excavating in grids/bed turning/concrete crushing	S	10.50	10.55	y	1	no odour	0	3	5	0	327	170	57	no	no				no	no								
T Walker	16/02/2011	excavating in grids/bed turning/concrete crushing	SW	10.55	11.00	y	1	no odour	0	4	5	0			63	no	no				no	no								
T Walker	16/02/2011	excavating in grids/bed turning/concrete crushing	W	11.00	11.05	y	1	no odour	0	4	5	0	253	228	77	no	no				no	no								
T Walker	16/02/2011	excavating in grids/bed turning/concrete crushing	NW	11.05	11.10	y	1	no odour	0	2	5	0			76	no	no				no	no								
T Walker	16/02/2011	excavating in grids/bed turning/concrete crushing	N	15.00	15.05	y	2	pesticides/tcp	-1	2	5	0	202	93	56	no	no	clear	9.198		no	no	8	SW	8	dry	3	dry	
T Walker	16/02/2011	excavating in grids/bed turning/concrete crushing	NE	15.05	15.10	y	2	pesticides/tcp	-1	2	5	0	146	187	62	no	no	clear			no	no								
T Walker	16/02/2011	excavating in grids/bed turning/concrete crushing	NE1	15.10	15.15								107	107				clear			no	no								
T Walker	16/02/2011	excavating in grids/bed turning/concrete crushing	E	15.15	15.20	y	1	no odour	0	2	5	0	105	87	71	no	no	clear	9.636		no	no								
T Walker	16/02/2011	excavating in grids/bed turning/concrete crushing	SE	15.20	15.25	y	1	no odour	0	3	5	0			62	no	no				no	no								
T Walker	16/02/2011	excavating in grids/bed turning/concrete crushing	S	15.25	15.30	y	1	no odour	0	3	5	0	216	86	74	no	no				no	no								
T Walker	16/02/2011	excavating in grids/bed turning/concrete crushing	SW	15.30	15.35	y	1	no odour	0	4	5	0			73	no	no				no	no								
T Walker	16/02/2011	excavating in grids/bed turning/concrete crushing	W	15.35	15.40	y	1	no odour	0	4	5	0	202	141	72	no	no				no	no								
T Walker	16/02/2011	excavating in grids/bed turning/concrete crushing	NW	15.40	15.45	y	1	no odour	0	2	5	0			70	no	no				no	no								
T Walker	17/02/2011	excavating in grids/bed turning/concrete crushing	N	9.30	9.35	y	1	no odour		2	1	0	129	57	56	no	no	clear	9.193		no	no	6	SW	9	dry	3	dry	strong odour on S/SW corner of site on church road moved fogger onto church road/A10 corner to prevent orders
T Walker	17/02/2011	excavating in grids/bed turning/concrete crushing	NE	9.35	9.40	y	1	no odour		2	1	0	206	81	62	no	no	clear			no	no								
T Walker	17/02/2011	excavating in grids/bed turning/concrete crushing	NE1	9.40	9.45								154	41				clear			no	no								
T Walker	17/02/2011	excavating in grids/bed turning/concrete crushing	E	9.45	9.50	y	1	no odour		2	1	0	106	71	61	no	no	clear	9.633		no	no								
T Walker	17/02/2011	excavating in grids/bed turning/concrete crushing	SE	9.50	9.55	y	1	no odour		3	1	0			71	no	no				no	no								
T Walker	17/02/2011	excavating in grids/bed turning/concrete crushing	S	9.55	10.00	y	4	kpitce	-2	3	-1	0	121	86	70	no	no	clear			no	no								
T Walker	17/02/2011	excavating in grids/bed turning/concrete crushing	SW	10.05	10.10	y	4	kpitce	-2	4	-1	0			69	no	no				no	no								
T Walker	17/02/2011	excavating in grids/bed turning/concrete crushing	W	10.10	10.15	y	1	no odour		4	1	0	114	102	68	no	no				no	no								
T Walker	17/02/2011	excavating in grids/bed turning/concrete crushing	NW	10.15	10.20	y	1	no odour		2	-1	0			67	no	no				no	no								
Stephenson	17/02/2011	Excavating in grids J5/J6	N	15.00	15.05	y				2		0			59.8	no	no	clear	9.193		no	no	8	NNW	5.7	clear	4	wet	smell of fresh linen down southern boundary with church lane. No odour at the churc
Stephenson	17/02/2011	Excavating in grids J5/J6	NE	15.05	15.25	y	2	Fresh linen OC	0	2	0	0			60.1	no	no	clear			no	no								
Stephenson	17/02/2011	Excavating in grids J5/J6	NE1	15.15	15.20													clear			no	no								
Stephenson	17/02/2011	Excavating in grids J5/J6	E	15.20	15.25	y				2		0			54.4	no	no	clear	9.633		no	no								
Stephenson	17/02/2011	Excavating in grids J5/J6	SE	15.25	15.30	y	5	Fresh linen OC	1	3	5	0			53.8	no	no				no	no								
Stephenson	17/02/2011	Excavating in grids J5/J6	S	15.30	15.35	y	3	Bonfire smell, fresh linen OC	1	3	3	0			52.4	no	no				no	no								
Stephenson	17/02/2011	Excavating in grids J5/J6	SW	15.35	15.40	y	3	Veg, car fumes, chemical odour	0	4	2	0			64.6	no	no				no	no								
Stephenson	17/02/2011	Excavating in grids J5/J6	W	15.40	15.45	y	3	Vegetation and car fumes	0	4	1	0			76.6	no	no				no	no								
Stephenson	17/02/2011	Excavating in grids J5/J6	NW	15.45	15.50										79.8	no	no				no	no								
T Walker	18/02/2011	excavating in grids/bed turning/concrete crushing	N	9.15	9.20	y	1	no odour		2	1	0	332	210	81	no	no	clear	9.191		no	no	5.9	SW	7	dry	8	dry	Slight smell on A10 of pesticides but nothing to cause offence
T Walker	18/02/2011	excavating in grids/bed turning/concrete crushing	NE	9.10	9.15	y	1	no odour		2	1	0	342	122	57	no	no	clear			no	no								
T Walker	18/02/2011	excavating in grids/bed turning/concrete crushing	NE1	9.10	9.15								412	106				clear			no	no								
T Walker	18/02/2011	excavating in grids/bed turning/concrete crushing	E	9.20	9.25	y	1	no odour		2	1	0	464	202	62	no	no	clear	9.633		no	no								
T Walker	18/02/2011	excavating in grids/bed turning/concrete crushing	SE	9.25	9.30	y	1	no odour		3	1	0			48	no	no				no	no								
T Walker	18/02/2011	excavating in grids/bed turning/concrete crushing	S	9.30	9.35	y	1	no odour		3	1	0	134	284	61	no	no				no	no								
T Walker	18/02/2011	excavating in grids/bed turning/concrete crushing	SW	9.35	9.40	y	1	no odour		4	1	0			62	no	no				no	no								
T Walker	18/02/2011	excavating in grids/bed turning/concrete crushing	W	9.40	9.41	y	3	pesticides	-1	4	5	0	224	119	70	no	no				no	no								
T Walker	18/02/2011	excavating in grids/bed turning/concrete crushing	NW	9.05	9.10	y	3	odour control	-1	2	5	0			55	no	no				no	no								
T Walker	18/02/2011	excavating in grids/bed turning/concrete crushing	N	15.00	15.05	y	1	no odour		2	1	0	124	56	56	no	no	clear	9.191		no	no	8.7	SE	5	dry	8	dry	Pesticide odour at gate on the A10 is noticeable but a nuisance. Foggers and odour suppressant in this area
T Walker	18/02/2011	excavating in grids/bed turning/concrete crushing	NE	15.05	15.15	y	1	no odour		2	1	0	246	111	61	no	no	clear			no	no								
T Walker	18/02/2011	excavating in grids/bed turning/concrete crushing	NE1	15.05	15.15								512	249				clear			no	no								
T Walker	18/02/2011	excavating in grids/bed turning/concrete crushing	E	15.10	15.15	y	1	no odour		2	1	0	346	107	72	no	no	clear	9.633		no	no								
T Walker	18/02/2011	excavating in grids/bed turning/concrete crushing	SE	15.15	15.20	y	1	no odour		3	1	0			47	no	no				no	no								
T Walker	18/02/2011	excavating in grids/bed turning/concrete crushing	S	15.20	15.25	y	1	no odour		3	1	0	106	96	52	no	no				no	no								
T Walker	18/02/2011	excavating in grids/bed turning/concrete crushing	SW	15.25	15.30	y	3	pesticides/TCE	-1	4	5	0			65	no	no				no	no								
T Walker	18/02/2011	excavating in grids/bed turning/concrete crushing	W	15.30	15.35	y	3	pesticides/TCE	-1	4	5	0	110	83	81	no	no				no	no								
T Walker	18/02/2011	excavating in grids/bed turning/concrete crushing	NW	15.35	15.40	y	3	pesticides/TCE	-2	2	5	0			65	no	no				no	no								
Stephenson	21/02/2011	Excavating in grids J5	N	8.00	8.05	y				2		0	225	187	68.1	no	no	clear	10.789		no	no	8	SE	4.6	cloudy	8	damp	no odour at church
Stephenson	21/02/2011	Excavating in grids J5	NE	8.05	8.10	y	4	wet veg	0	2	1	0	216	255	59.2	no	no	clear			no	no								
Stephenson	21/02/2011	Excavating in grids J5	NE1	8.10	8.15								229	228				clear			no	no								
Stephenson	21/02/2011	Excavating in grids J5	E	8.15	8.20	y				2		0	249	232	45.2	no	no	clear	11.609		no	no								
Stephenson	21/02/2011	Excavating in grids J5	SE	8.20	8.25	y	3	wet veg	0	3	1	0			52.3	no	no				no	no								
Stephenson	21/02/2011	Excavating in grids J5	S	8.25	8.30	y	3	wet veg	0	3	1	0	222	200	61.5	no	no				no	no								
Stephenson	21/02/2011	Excavating in grids J5	SW	8.30	8.35	y	4	car fumes and wet veg	-1	4	1	0			66.2	no	no				no	no								
Stephenson	21/02/2011	Excavating in grids J5	W	8.35	8.40	y	4	car fumes and ashphalt	-1	4	1	0	183	240	78.3	no	no				no	no								
Stephenson	21/02/2011	Excavating in grids J5	NW	8.40	8.45	y	4	car fumes and ashphalt	-1	2	1	0			78.2	no	no				no	no								
Stephenson	21/02/2011	Excavating in grids J5, bed turning 130,137, Mushroom compost on site	N	17.00	17.05	y	5	river cam	-2	2	1	0	304	150	65.4	no	no	clear	10.789		no	no	7.6	SE	9.9	cloudy	8	damp	bonfire smell at church
Stephenson	21/02/2011	Excavating in grids J5, bed turning 130,137, Mushroom compost on site	NE	17.05	17.10					2		0	184	174	66.3	no	no	clear			no	no								
Stephenson	21/02/2011	Excavating in grids J5, bed turning 130,137, Mushroom compost on site	NE1	17.10	17.15								234	211				clear			no	no								
Stephenson	21/02/2011	Excavating in grids J5, bed turning 130,137, Mushroom compost on site	E	17.15	17.20	y				2		0	213	202	55.9	no	no	clear	11.609		no	no								
Stephenson	21/02/2011	Excavating in grids J5, bed turning 130,137, Mushroom compost on site	SE	17.20	17.25	y				3		0			47.7	no	no				no	no								
Stephenson	21/02/2011	Excavating in grids J5, bed turning 130,137, Mushroom compost on site	S	17.25	17.30	y				3		0	201	181	55.6	no	no				no	no								
Stephenson	21/02/2011	Excavating in grids J5, bed turning 130,137, Mushroom compost on site	SW	17.30	17.35	y	3	fresh linen OC and veg	0	4	3	0			71.7	no	no				no	no								
Stephenson	21/02/2011	Excavating in grids J5, bed turning 130,137, Mushroom compost on site	W	17.35	17.40	y	4	conifer and wet veg	1	4	5	0	307	194	71.2	no	no				no	no								
Stephenson	21/02/2011	Excavating in grids J5, bed turning 130,137, Mushroom compost on site	NW	17.40	17.45	y	4	fresh linen oc	1	2	4	0			76.1	no	no				no	no								
T Walker	22/02/2011	excavating in grids/bed turning/concrete crushing	N	11.00	11.05	y	2	odour control	1	2	5	0	326	261	68	no	no	clear	9.208		no	no	8	SW	9	dry	8	dry	
T Walker	22/02/2011	excavating in grids/bed turning/concrete crushing	NE	11.05	11.10	y	1	no odour	0	2	5	0	375	296	66	no	no	clear			no	no								

T Walker	22/02/2011	excavating in grids/bed turning/concrete crushing	NE1	11.05	11.10									428	289				clear		no	no										
T Walker	22/02/2011	excavating in grids/bed turning/concrete crushing	E	11.10	11.15	1	no odour	0	2	1	0			516	395	56	no	no	clear	9.649	no	no										
T Walker	22/02/2011	excavating in grids/bed turning/concrete crushing	SE	11.15	11.20	1	no odour	0	3	1	0					47	no	no			no	no										
T Walker	22/02/2011	excavating in grids/bed turning/concrete crushing	S	11.20	11.25	1	no odour	0	3	1	0			319	269	52	no	no			no	no										
T Walker	22/02/2011	excavating in grids/bed turning/concrete crushing	SW	11.25	11.30	1	no odour	0	4	1	0					48	no	no			no	no										
T Walker	22/02/2011	excavating in grids/bed turning/concrete crushing	W	11.30	11.35	1	no odour	0	4	1	0			453	249	63	no	no			no	no										
T Walker	22/02/2011	excavating in grids/bed turning/concrete crushing	NW	11.35	11.40	1	no odour	0	2	1	0					63	no	no			no	no										
T Walker	22/02/2011	excavating in grids/bed turning/concrete crushing	N	17.00	17.05	1	no odour	0	2	1	0					56	no	no	clear	9.206	no	no	8	SW	9	dry	8	dry				
T Walker	22/02/2011	excavating in grids/bed turning/concrete crushing	NE	17.05	17.10			0	2	1	0					53	no	no	clear		no	no										
T Walker	22/02/2011	excavating in grids/bed turning/concrete crushing	NE1	17.10	17.15														clear		no	no										
T Walker	22/02/2011	excavating in grids/bed turning/concrete crushing	E	17.15	17.20	1	no odour	0	2	1	0					61	no	no	clear	9.649	no	no										
T Walker	22/02/2011	excavating in grids/bed turning/concrete crushing	SE	17.20	17.25	1	no odour	0	3	1	0					60	no	no			no	no										
T Walker	22/02/2011	excavating in grids/bed turning/concrete crushing	S	17.25	17.30	1	no odour	0	3	1	0					62	no	no			no	no										
T Walker	22/02/2011	excavating in grids/bed turning/concrete crushing	SW	17.30	17.35	1	no odour	0	4	1	0					64	no	no			no	no										
T Walker	22/02/2011	excavating in grids/bed turning/concrete crushing	W	17.35	17.40	1	no odour	0	4	1	0					59	no	no			no	no										
T Walker	22/02/2011	excavating in grids/bed turning/concrete crushing	NW	17.40	17.45	1	no odour	0	2	1	0					58	no	no			no	no										
T Walker	23/02/2011	excavating in grids/bed turning/concrete crushing	N	13.00	13.05	1	no odour	0	2	1	0					52	no	no	clear	9.213	no	no	5	SE	8	rain	3	wet	dust sampling not done due to heavy rai			
T Walker	23/02/2011	excavating in grids/bed turning/concrete crushing	NE	13.05	13.10	1	odour control	1	2	1	0					60	no	no	clear		no	no										
T Walker	23/02/2011	excavating in grids/bed turning/concrete crushing	NE1	13.10	13.15														clear		no	no										
T Walker	23/02/2011	excavating in grids/bed turning/concrete crushing	E	13.15	13.20	1	odour control	1	2	1	0					53	no	no	clear	9.645	no	no										
T Walker	23/02/2011	excavating in grids/bed turning/concrete crushing	SE	13.20	13.25	1	no odour	1	3	1	0					52	no	no			no	no										
T Walker	23/02/2011	excavating in grids/bed turning/concrete crushing	S	13.25	13.30	1	no odour	1	3	1	0					55	no	no			no	no										
T Walker	23/02/2011	excavating in grids/bed turning/concrete crushing	SW	13.30	13.35	1	no odour	1	4	1	0					52	no	no			no	no										
T Walker	23/02/2011	excavating in grids/bed turning/concrete crushing	W	13.35	13.40	1	no odour	1	4	1	0					56	no	no			no	no										
T Walker	23/02/2011	excavating in grids/bed turning/concrete crushing	NW	12.55	13.00	1	no odour	0	2	1	0					50	no	no			no	no										
T Stephenson	23/02/2011	no works due to rain	N	17.25	17.30			0	2	1	0					53.1	no	no	clear	9.213	no	no	8	SW	8.7	rain	8	wet	smell of wet veg at church			
T Stephenson	23/02/2011	no works due to rain	NE	17.20	17.25	4	odour control, wet timber (bridge)	0	2	4	0					52.8	no	no	clear		no	no										
T Stephenson	23/02/2011	no works due to rain	NE1	17.15	17.20														clear		no	no										
T Stephenson	23/02/2011	no works due to rain	E	17.10	17.15			0	2	1	0					45.7	no	no	clear	9.645	no	no										
T Stephenson	23/02/2011	no works due to rain	SE	17.05	17.10	4	wet veg and odour control	1	3	3	0					50	no	no			no	no										
T Stephenson	23/02/2011	no works due to rain	S	17.00	17.05	5	diesel/petrol fuel	1	3	3	0					57.8	no	no			no	no										Diesel/petrol fuel odour coming from cambs farm machinery/organic food shoj
T Stephenson	23/02/2011	no works due to rain	SW	16.55	17.00	2	wet ashphalt	0	4	1	0					72.3	no	no			no	no										
T Stephenson	23/02/2011	no works due to rain	W	16.50	16.55	4	wet ashphalt and car fumes	-1	4	1	0					63.1	no	no			no	no										
T Stephenson	23/02/2011	no works due to rain	NW	16.45	16.50	3	damp ashphalt	-1	2	1	0					60.4	no	no			no	no										
T Walker	24/02/2011	excavating in grids/bed turning/concrete crushing	N	9.05	9.10	1	no odour	0	2	1	0					53	clear	no	clear	9.218	no	no	5	SW	9	dry	3	dry				
T Walker	24/02/2011	excavating in grids/bed turning/concrete crushing	NE	9.10	9.15	2	odour control	1	2	1	0					61	clear	no	clear		no	no										
T Walker	24/02/2011	excavating in grids/bed turning/concrete crushing	NE1	9.15	9.20														clear		no	no										
T Walker	24/02/2011	excavating in grids/bed turning/concrete crushing	E	9.20	9.25	1	no odour	0	2	1	0					64	clear	no	cloudy	9.639	no	no										
T Walker	24/02/2011	excavating in grids/bed turning/concrete crushing	SE	9.25	9.30	1	no odour	0	3	1	0					67	clear	no			no	no										
T Walker	24/02/2011	excavating in grids/bed turning/concrete crushing	S	9.30	9.35	1	no odour	0	3	1	0					75	clear	no			no	no										
T Walker	24/02/2011	excavating in grids/bed turning/concrete crushing	SW	9.35	9.40	1	no odour	0	4	1	0					76	clear	no			no	no										
T Walker	24/02/2011	excavating in grids/bed turning/concrete crushing	W	9.40	9.50	1	no odour	0	4	1	0					71	clear	no			no	no										
T Walker	24/02/2011	excavating in grids/bed turning/concrete crushing	NW	9.50	9.55	1	no odour	0	2	1	0					69	clear	no			no	no										
T Walker	24/02/2011	excavating in grids/bed turning/concrete crushing	N	16.30	16.35	1	no odour	0	2	1	0			305	126	63	no	no	cloudy slightly	9.218	no	no	8	SW	10	dry	3	dry				
T Walker	24/02/2011	excavating in grids/bed turning/concrete crushing	NE	16.35	16.40	1	no odour	0	3	1	0	246	121	56	no	no	slightly cloudy		no	no											
T Walker	24/02/2011	excavating in grids/bed turning/concrete crushing	NE1	16.35	16.40							94	37				slightly cloudy		no	no											
T Walker	24/02/2011	excavating in grids/bed turning/concrete crushing	E	16.40	16.45	4	odour control-top	-1	2	5	0	104	63	61	no	no	slightly cloudy	9.639	no	no											
T Walker	24/02/2011	excavating in grids/bed turning/concrete crushing	SE	16.45	16.50	1	no odour	0	3	1	0			67	no	no			no	no											
T Walker	24/02/2011	excavating in grids/bed turning/concrete crushing	S	16.50	16.55	1	no odour	0	3	1	0	143	27	61	no	no			no	no											
T Walker	24/02/2011	excavating in grids/bed turning/concrete crushing	SW	16.55	17.00	1	wood smoke	1	4	1	0			61	no	no			no	no											
T Walker	24/02/2011	excavating in grids/bed turning/concrete crushing	W	17.00	17.05	2	odour control	0	4	1	0	184	148	69	no	no			no	no											
T Walker	24/02/2011	excavating in grids/bed turning/concrete crushing	NW	17.05	17.10	1	no odour	0	2	1	0			71	no	no			no	no											
T Walker	25/02/2011	excavating in grids/bed turning/concrete crushing	N	8.30	8.35	6	thinners/solvent	-3	2	5	-1	246	104	56	no	no	clear	9.209	no	no	8	SW	10	dry	7	dry					Elevated PID readings at Mill House footpath ranging up to 1.0ppm Fogger moved down to cover the area. Readings are very intermittent and reduced with fogger, work was continued.
T Walker	25/02/2011	excavating in grids/bed turning/concrete crushing	NE	8.35	8.40	3	thinners/pesticides	-2	2	5	0.5-0.7	189	72	41	no	no	clear		no	no											
T Walker	25/02/2011	excavating in grids/bed turning/concrete crushing	NE1	8.35	8.40							105	38				clear		no	no											
T Walker	25/02/2011	excavating in grids/bed turning/concrete crushing	E	8.40	8.45	1	no odour	0	2	1	0	87	26	58	no	no	clear	9.639	no	no											
T Walker	25/02/2011	excavating in grids/bed turning/concrete crushing	SE	8.45	8.50	1	no odour	0	3	1	0			46	no	no			no	no											
T Walker	25/02/2011	excavating in grids/bed turning/concrete crushing	S	8.50	8.55	1	no odour	0	3	1	0	76	32	61	no	no			no	no											
T Walker	25/02/2011	excavating in grids/bed turning/concrete crushing	SW	8.55	9.00	1	no odour	0	4	1	0			60	no	no			no	no											
T Walker	25/02/2011	excavating in grids/bed turning/concrete crushing	W	9.00	9.05	1	no odour	0	4	1	0	114	56	66	no	no			no	no											
T Walker	25/02/2011	excavating in grids/bed turning/concrete crushing	NW	9.05	9.10	1	no odour	0	2	1	0			72	no	no			no	no											
T Stephenson	25/02/2011	excavating in grids Kb-7/bed turning	N	11.10	11.15	5	intermittent solvents	-2	2	5	0	28.1	74.9	64.2	no	no	clear	9.209	no	move fogger closer to dig, continue	8.2	SW	8	patchy	6	wet	no odour at church			
T Stephenson	25/02/2011	excavating in grids Kb-7/bed turning	NE	11.05	11.10							97.4	103.4	60	no	no	clear		no	no											
T Stephenson	25/02/2011	excavating in grids Kb-7/bed turning	NE1	11.00	11.05							95.4	42.4				clear		no	no											
T Stephenson	25/02/2011	excavating in grids Kb-7/bed turning	E	10.55	11.00			0	2	1	0	87.3	59.9	62.7	no	no	clear	9.639	no	no											
T Stephenson	25/02/2011	excavating in grids Kb-7/bed turning	SE	10.50	10.55	3	wet veg	0	3	1	0			58.2	no	no			no	no											
T Stephenson	25/02/2011	excavating in grids Kb-7/bed turning	S	10.45	10.50	3	car fumes	0	3	1	0	85.8	25.8	70.4	no	no			no	no											
T Stephenson	25/02/2011	excavating in grids Kb-7/bed turning	SW	10.40	10.45	5	car fumes	-1	4	5	0.1			81.5	no	no			no	no											
T Stephenson	25/02/2011	excavating in grids Kb-7/bed turning	W	10.35	10.40	4	car fumes and wet ashphalt	-1	4	1	0	188.8	104.5	71.2	no	no			no	no											
T Stephenson	25/02/2011	excavating in grids Kb-7/bed turning	NW	10.30	10.35	4	car fumes and wet ashphalt	-1	2	1	0			76.2	no	no			no	no											
T Stephenson	25/02/2011	turning and sealing up	N	16.10	16.15				2			36.3	24.3		no	no		9.209	no	no	8.1	sw		cloudy	8	wet	smell of diesel/petrol and machinery from Cambridge farm machines quite strong PID reading 0.			
T Stephenson	25/02/2011	turning and sealing up	NE	16.05	16.10	3	diesel smell and veg	0	2	3	0	43.8	80	59.4	no	no	clear		no	no											
T Stephenson	25/02/2011	turning and sealing up	NE1	16.00	16.05							46.4	76.7				clear		no	no											
T Stephenson	25/02/2011	turning and sealing up	E	15.55	16.00				2		0	85.8	93.2	62.4	no	no	clear	9.639	no	no											
T Stephenson	25/02/2011	turning and sealing up	SE	15.50	15.55				3		0			63.3	no	no			no	no											
T Stephenson	25/02/2011	turning and sealing up	S	15.45	15.50				3		0	62.5	48.5	65.1	no	no			no	no											
T Stephenson	25/02/2011	turning and sealing up	SW	15.40	15.45	4	car fumes and bonfires	1	4	1	0			68.4	no	no			no	no											
T Stephenson	25/02/2011	turning and sealing up	W	15.35	15.40				4		0	112.1	37.7	73.9	no	no			no	no											
T Stephenson	25/02/2011	turning and sealing up	NW	15.30	15.35	2	car fumes	0	2	1	0			71.8	no	no			no	no											
T Walker	28/02/2011	excavating in grids/bed turning/concrete crushing	N	10.00	10.05	1	no odour	0	2	1	0	146	89	56	no	no	clear	9.195	no	no	2.4	NE	4	wet	8	wet	complaint from 11 new road, visited complainant who stated odour was not now present. But had been present earlier. Phoned back EA to tell them of findings. Gave mobile number to complainant to phone me direct if he smelt the odour again.			
T Walker	28/02/2011	excavating in grids/bed turning/concrete crushing	NE	10.05	10.10	1	no odour	0	2	1	0	126	34	64	no	no	clear		no	no											
T Walker	28/02/2011	excavating in grids/bed turning/concrete crushing	NE1	10.05	10.10							326	241				clear		no	no											
T Walker	28/02/2011	excavating in grids/bed turning/concrete crushing	E	10.10	10.15	1	no odour	0	2	1	0	149	78	57	no	no	clear	9.645	no	no											
T Walker	28/02/2011	excavating in grids/bed turning/concrete crushing	SE	10.15	10.20	1	no odour	0	3	1	0			58	no	no			no	no											
T Walker	28/02/2011	excavating in grids/bed turning/concrete crushing	S	10.20	10.25	3	pesticides	-1	3	5	0	57	61	60	no	no			no	no											
T Walker	28/02/2011	excavating in grids/bed turning/concrete crushing	SW	10.25	10.30	2	pesticides	-1	4	5	0			57	no	no			no	see general notes											
T Walker	28/02/2011	excavating in grids/bed turning/concrete crushing	W	10.30	10.35	3	pesticides	-2	4	5	0	167	74	59	no	no			no	no											
T Walker	28/02/2011	excavating in grids/bed turning/concrete crushing	NW	10.35	10.40	1	no odour	0	2	1	0			61	no	no			no	no											
T Walker	28/02/2011	excavating in grids/bed turning/concrete crushing	N	16.40	16.45	1	no odour	0	2	1	0	120	72	54	no	no	clear	9.195	no	no	8	NW	4	wet	8	wet						
T Walker	28/02/2011	excavating in grids/bed turning/concrete crushing	NE	16.45	16.50	1	no odour	0	2	1	0	174	82	60	no	no	clear		no	no											
T Walker	28/02/2011	excavating in grids/bed turning/concrete crushing	NE1	16.50	16.55							208	141				clear		no	no											
T Walker	28/02/2011	excavating in grids/bed turning/concrete crushing	E	16.55	17.00	1	no odour	0	2	1	0	236	173	62	no	no	clear	9.645	no	no											
T Walker	28/02/2011	excavating in grids/bed turning/concrete crushing	SE	17.05	17.10	1	no odour	0	3	1	0			57	no	no			no	no											
T Walker	28/02/2011	excavating in grids/bed turning/concrete crushing	S	17.10	17.15	1	no odour	0	3	1	0	164	104	58	no	no			no	no											
T Walker	28/02/2011	excavating in grids/bed turning/concrete crushing	SW	17.15	17.20	4	pesticides	-1	4	5	0			62	no	no			no	no											
T Walker	28/02/2011	excavating in grids/bed turning/concrete crushing	W	17.20	17.25	3	pesticides	-1	4	5	0	100	38	61	no	no			no	no											
T Walker	28/02/2011	excavating in grids/bed turning/concrete crushing	NW	17.25	17.30	1	no odour	0	2	1	0			60	no	no			no	no											

Appendix C

Long term Passive VOC Monitoring

gradko environmental
(A division of Gradko International Ltd.)

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UKAS TESTING 2187

LABORATORY ANALYSIS REPORT

REPORT NUMBER	**GCMS 4637**
CUSTOMER	**Vertase FLI Ltd**
GRADKO LAB REFERENCE	**GMSF 0311-0320**
DATE SAMPLES RECEIVED	**23.02.11**
DESPATCH REF.NUMBER	**SOR006001**
JOB NUMBER	**907BR1/5302**
BOOKING IN REF.	**E1020**

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	**GRA 09015**
Exposure Time(mins)	**40160**
Sample ID	**North**

Top 10 VOC'S Compounds	**ng on tube**	**ppb in air***
Toluene	319.10	3.97
Naphthalene	78.12	0.97
Tetrachloroethylene	69.63	0.87
m/p-Xylene	34.87	0.43
Naphthalene, 2-methyl-	26.94	0.34
Benzene, 1,2,3-trichloro-4-methyl-	25.08	0.31
Pentadecane	22.77	0.28
Phenol	19.82	0.25
Naphthalene, 1-methyl-	16.14	0.20
Hexadecane	16.00	0.20

Tube Number	**GRA 09806**
Exposure Time(mins)	**40230**
Sample ID	**North West**

Top 10 VOC'S Compounds	**ng on tube**	**ppb in air***
Toluene	112.12	1.39
Tetrachloroethylene	68.80	0.86
m/p-Xylene	46.95	0.58

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REPORT OFFICIALLY CHECKED

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

gradko environmental
(A division of Gradko International Ltd.)
St. Martins House, 77 Wales Street Winchester, Hampshire SO23 0RH
tel.: 01962 860331 fax: 01962 841339 e-mail:diffusion@gradko.co.uk

UKAS TESTING 2187

LABORATORY ANALYSIS REPORT

o-Xylene	25.88	0.32
Undecane	22.99	0.29
Benzene, 1,2,3-trichloro-4-methyl-	22.05	0.27
Naphthalene	19.42	0.24
Benzene	18.71	0.23
Tridecane	15.80	0.20
Phenol	15.76	0.20

Tube Number	**GRA 09809**
Exposure Time(mins)	**40190**
Sample ID	**South**

Top 10 VOC'S

Compounds	**ng on tube**	**ppb in air***
Toluene	24.33	0.30
Benzene	14.19	0.18
m/p-Xylene	12.06	0.15
Phenol	11.68	0.15
o-Xylene	8.55	0.11
Tetrachloroethylene	8.37	0.10
Undecane	6.44	0.08
Benzonitrile	6.01	0.07
Dodecane	4.13	0.05
Decane	3.71	0.05

Tube Number	**GRA 09696**
Exposure Time(mins)	**40200**
Sample ID	**South West**

Top 10 VOC'S

Compounds	**ng on tube**	**ppb in air***
Toluene	51.78	0.64
Tetrachloroethylene	49.18	0.61
m/p-Xylene	24.28	0.30
Benzene	22.07	0.27
Phenol	18.27	0.23
Undecane	17.72	0.22
o-Xylene	17.38	0.22

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UKAS TESTING 2187

LABORATORY ANALYSIS REPORT

Dodecane	11.65	0.14
Heptane, 2,2,4,6,6-pentamethyl-	10.64	0.13
Tetradecane	10.53	0.13

Tube Number **GRA 09013**
Exposure Time(mins) **40170**
Sample ID **East**

Tube received damaged and could not be analysed.

Tube Number **GRA 09692**
Exposure Time(mins) **40165**
Sample ID **North East**

Tube received damaged and could not be analysed.

Tube Number **GRA 09786**
Exposure Time(mins) **40235**
Sample ID **West**

Top 10 VOC'S

Compounds	**ng on tube**	**ppb in air***
Toluene	79.42	0.99
Tetrachloroethylene	70.64	0.88
m/p-Xylene	26.96	0.33
o-Xylene	22.68	0.28
Benzene, 1,2,3-trichloro-4-methyl-	18.73	0.23
Benzene	12.60	0.16
Phenol	11.82	0.15
Pentadecane	11.20	0.14
Octadecane	10.14	0.13
Heptadecane	9.18	0.11

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LABORATORY ANALYSIS REPORT

Tube Number	**GRA 09796**
Exposure Time(mins)	**40230**
Sample ID	**WWTW**

Top 10 VOC'S

Compounds	**ng on tube**	**ppb in air***
Tridecane	35.87	0.45
Undecane	25.49	0.32
Dodecane	21.40	0.27
Tetradecane	20.02	0.25
Benzene	15.89	0.20
Toluene	15.84	0.20
Heptane, 2,2,4,6,6-pentamethyl-	14.25	0.18
Phenol	13.78	0.17
m/p-Xylene	13.39	0.17
o-Xylene	12.20	0.15

Tube Number	**GRA 09738**
Exposure Time(mins)	**40205**
Sample ID	**Queen's Close**

Top 10 VOC'S

Compounds	**ng on tube**	**ppb in air***
m/p-Xylene	18.62	0.23
Benzene	17.75	0.22
Toluene	17.45	0.22
Phenol	16.05	0.20
o-Xylene	13.27	0.17
Octane	8.40	0.10
Undecane	8.30	0.10
Pentadecane	7.15	0.09
Benzonitrile	6.79	0.08
Ethylbenzene	6.38	0.08

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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LABORATORY ANALYSIS REPORT

Tube Number	**GRA 09656**
Exposure Time(mins)	**40165**
Sample ID	**Church Road**

Top 10 VOC'S

Compounds	**ng on tube**	**ppb in air***
Naphthalene	154.36	1.92
Phenol	20.75	0.26
Toluene	20.69	0.26
m/p-Xylene	19.07	0.24
o-Xylene	14.99	0.19
Benzene	13.74	0.17
Benzene, 1,2,4-trimethyl-	12.68	0.16
Naphthalene, 2-methyl-	9.91	0.12
Benzonitrile	8.55	0.11
Ethylbenzene	6.65	0.08

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

Analysts Name **M.Angelova** **Date of Analysis** **24.02.11**

Date of Report **03.03.11**

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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L. Gates, Laboratory Supervisor

Appendix D

Directional Dust Monitoring

Chemtest
The right chemistry to deliver results

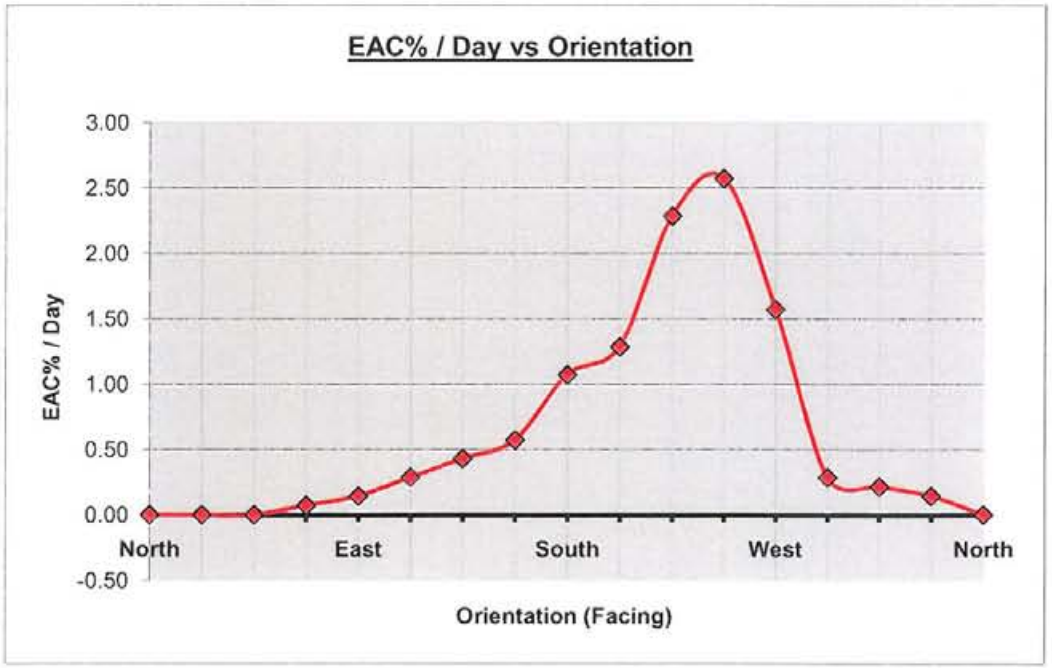
Sticky Pad Data

Gauge Number-North Location 907BRI

Sticky Pad Data

Date On 24/01/2011 Date Off 07/02/2011 Days = 14
Clean = 90

X Axis mm	Meter	Angle Deg	Orientation	EAC% / Day
0	90	360	North	0.00
20	88	337		0.14
40	87	314		0.21
60	86	291		0.29
80	68	269	West	1.57
100	54	246		2.57
120	58	223		2.29
140	72	200		1.29
160	75	177	South	1.07
180	82	154		0.57
200	84	131		0.43
220	86	109		0.29
240	88	86	East	0.14
260	89	63		0.07
280	90	40		0.00
300	90	17		0.00
315	90	0	North	0.00



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
The right chemistry to deliver results

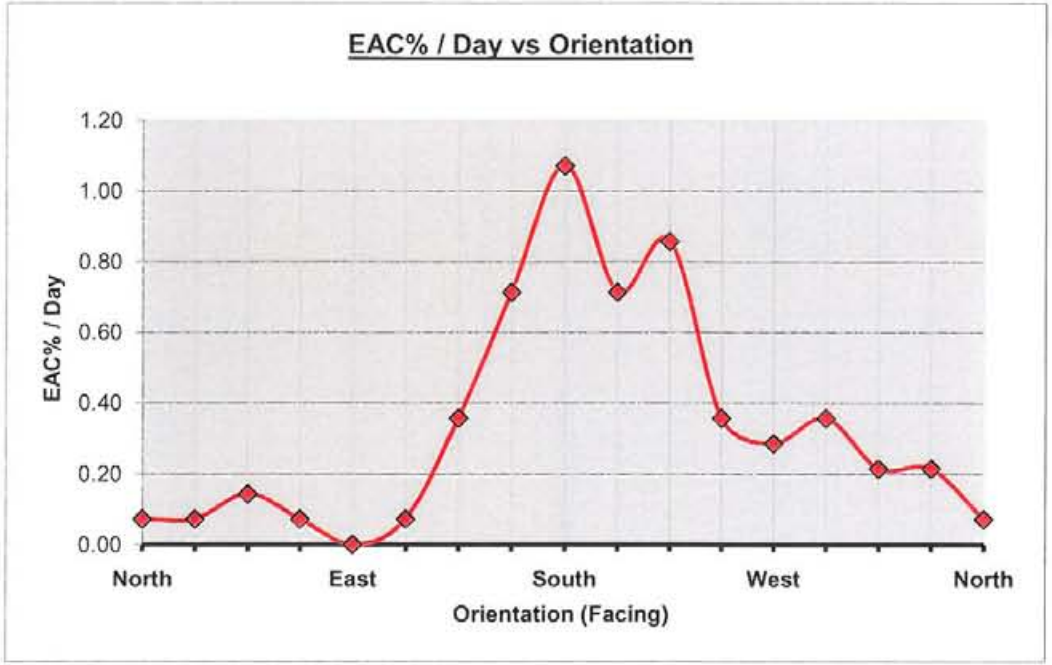
Sticky Pad Data

Gauge Number-East Location 907BRI

Sticky Pad Data

Date On 24/01/2011 Date Off 07/02/2011 Days = 14
Clean = 90

X Axis mm	Meter	Angle Deg	Orientation	EAC% / Day
0	89	360	North	0.07
20	87	337		0.21
40	87	314		0.21
60	85	291		0.36
80	86	269	West	0.29
100	85	246		0.36
120	78	223		0.86
140	80	200		0.71
160	75	177	South	1.07
180	80	154		0.71
200	85	131		0.36
220	89	109		0.07
240	90	86	East	0.00
260	89	63		0.07
280	88	40		0.14
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.

Chemtest
The right chemistry to deliver results

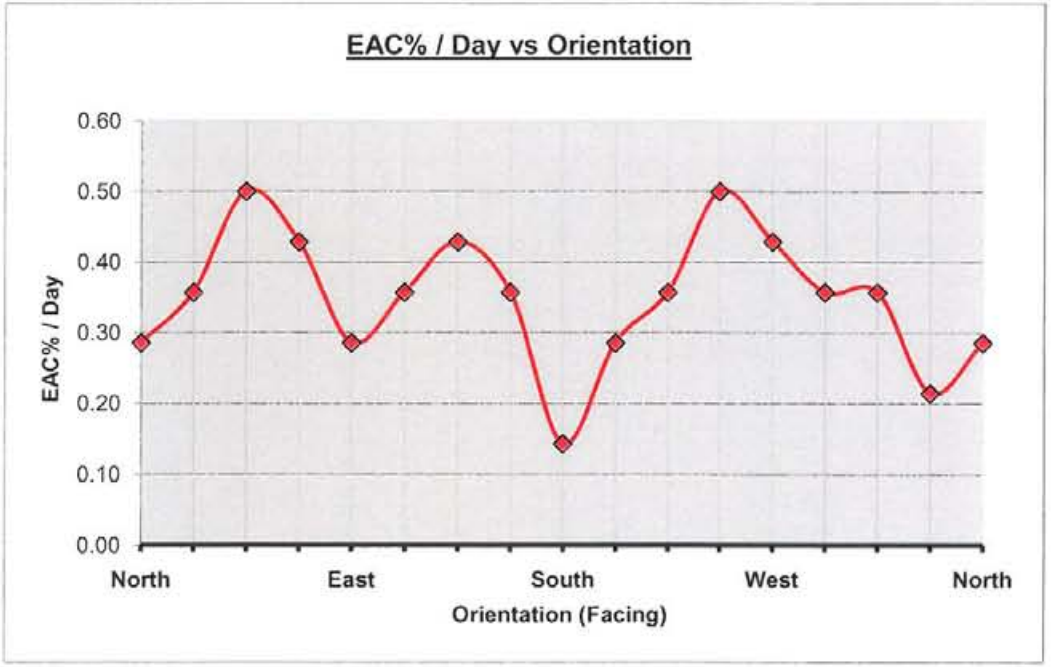
Sticky Pad Data

Gauge Number-West Location 907BRI

Sticky Pad Data

Date On 24/01/2011 Date Off 07/02/2011 Days = 14
Clean = 90

X Axis mm	Meter	Angle Deg	Orientation	EAC% / Day
0	86	360	North	0.29
20	87	337		0.21
40	85	314		0.36
60	85	291		0.36
80	84	269	West	0.43
100	83	246		0.50
120	85	223		0.36
140	86	200		0.29
160	88	177	South	0.14
180	85	154		0.36
200	84	131		0.43
220	85	109		0.36
240	86	86	East	0.29
260	84	63		0.43
280	83	40		0.50
300	85	17		0.36
315	86	0	North	0.29



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
The right chemistry to deliver results

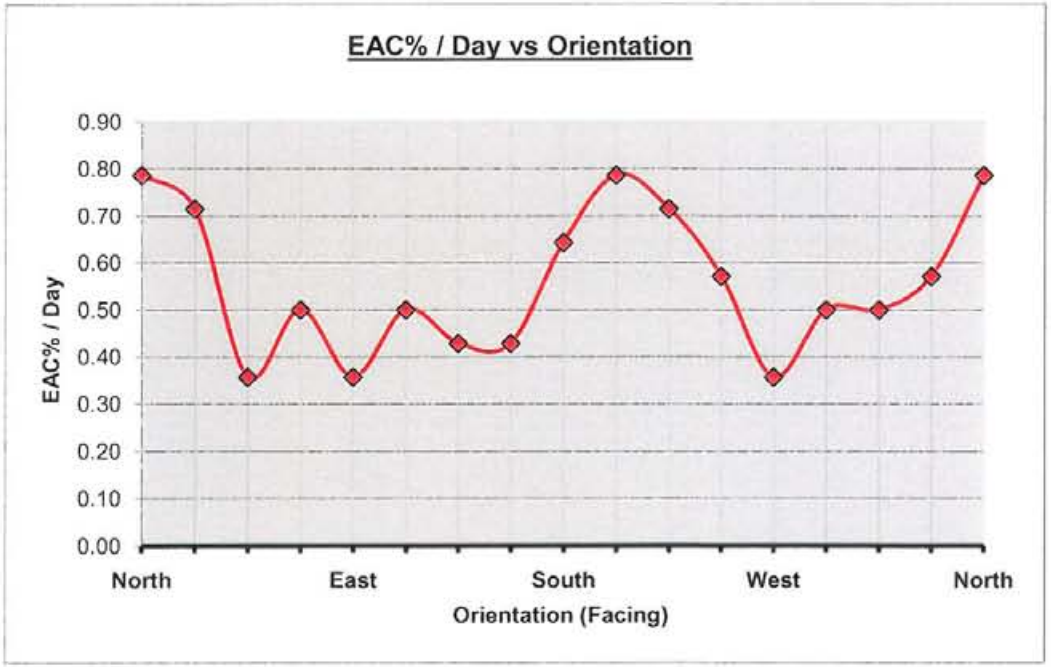
Sticky Pad Data

Gauge Number-NE2 Location 907BRI

Sticky Pad Data

Date On 24/01/2011 Date Off 07/02/2011 Days = 14
Clean = 90

X Axis mm	Meter	Angle Deg	Orientation	EAC% / Day
0	79	360	North	0.79
20	82	337		0.57
40	83	314		0.50
60	83	291		0.50
80	85	269	West	0.36
100	82	246		0.57
120	80	223		0.71
140	79	200		0.79
160	81	177	South	0.64
180	84	154		0.43
200	84	131		0.43
220	83	109		0.50
240	85	86	East	0.36
260	83	63		0.50
280	85	40		0.36
300	80	17		0.71
315	79	0	North	0.79



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
The right chemistry to deliver results

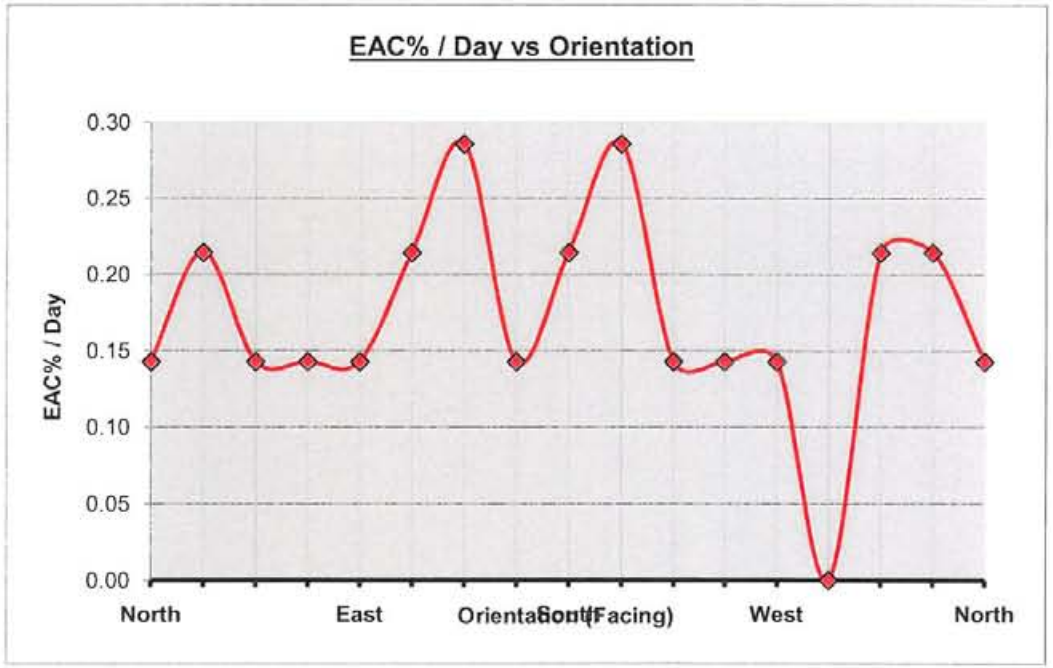
Sticky Pad Data

Gauge Number-South Location 907BRI

Sticky Pad Data

Date On 24/01/2011 Date Off 07/02/2011 Days = 14
Clean = 90

X Axis mm	Meter	Angle Deg	Orientation	EAC% / Day
0	88	360	North	0.14
20	87	337		0.21
40	87	314		0.21
60	90	291		0.00
80	88	269	West	0.14
100	88	246		0.14
120	88	223		0.14
140	86	200		0.29
160	87	177	South	0.21
180	88	154		0.14
200	86	131		0.29
220	87	109		0.21
240	88	86	East	0.14
260	88	63		0.14
280	88	40		0.14
300	87	17		0.21
315	88	0	North	0.14



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
The right chemistry to deliver results

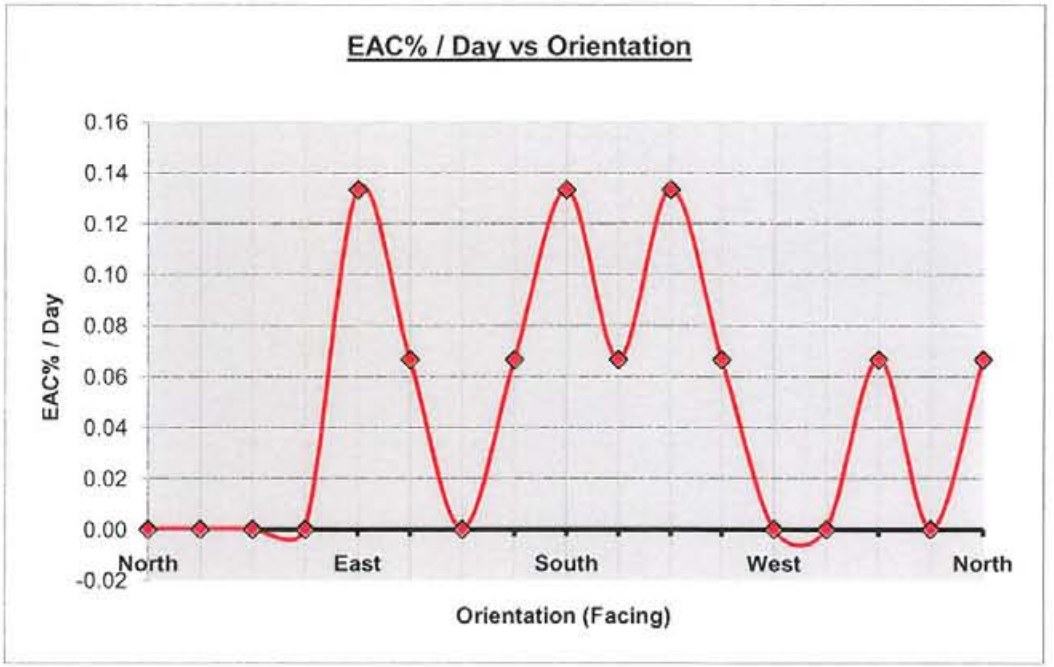
Sticky Pad Data

Gauge Number-North Location 907BRI

Sticky Pad Data

Date On 07/02/2011 Date Off 22/02/2011 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	90	269	West	0.00
100	89	246		0.07
120	88	223		0.13
140	89	200		0.07
160	88	177	South	0.13
180	89	154		0.07
200	90	131		0.00
220	89	109		0.07
240	88	86	East	0.13
260	90	63		0.00
280	90	40		0.00
300	90	17		0.00
315	90	0	North	0.00



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
The right chemistry to deliver results

Sticky Pad Data

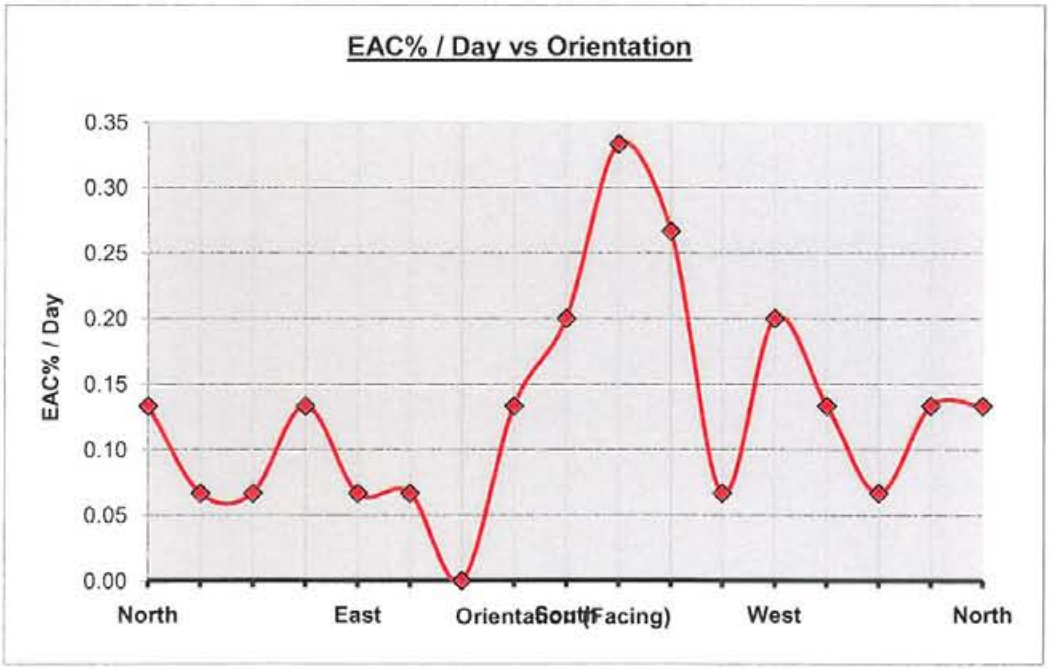
Gauge Number-East Location 907BRI

Sticky Pad Data

Date On 07/02/2011 Date Off 22/02/2011 Days = 15

Clean = 90

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



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.

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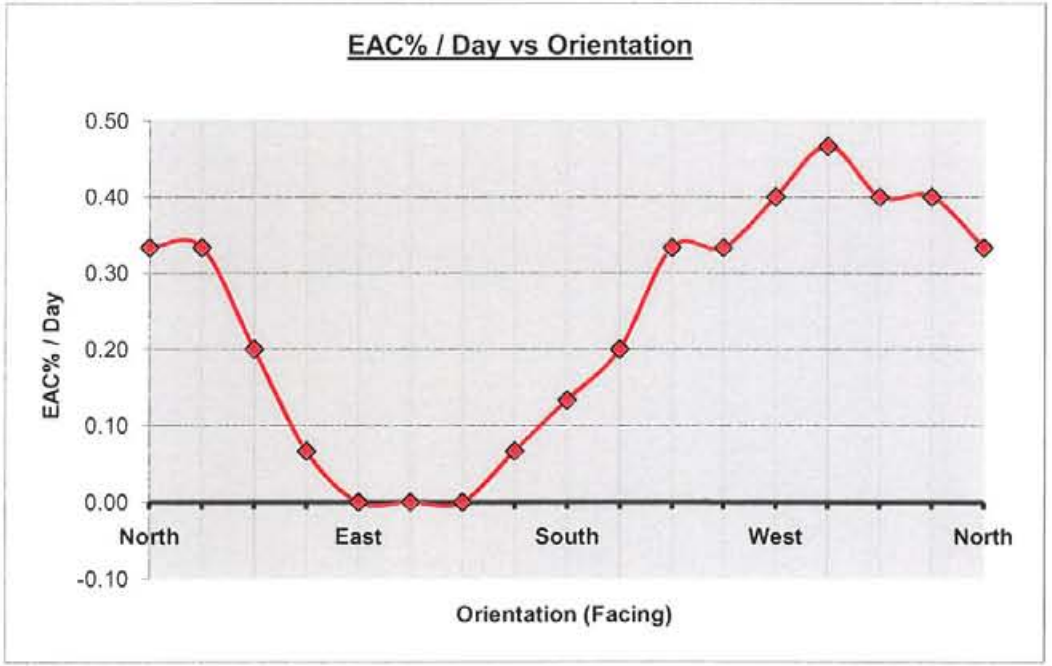
Sticky Pad Data

Gauge Number-West Location 907BRI

Sticky Pad Data

Date On 07/02/2011 Date Off 22/02/2011 Days = 15
Clean = 90

X Axis mm	Meter	Angle Deg	Orientation	EAC% / Day
0	85	360	North	0.33
20	84	337		0.40
40	84	314		0.40
60	83	291		0.47
80	84	269	West	0.40
100	85	246		0.33
120	85	223		0.33
140	87	200		0.20
160	88	177	South	0.13
180	89	154		0.07
200	90	131		0.00
220	90	109		0.00
240	90	86	East	0.00
260	89	63		0.07
280	87	40		0.20
300	85	17		0.33
315	85	0	North	0.33



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
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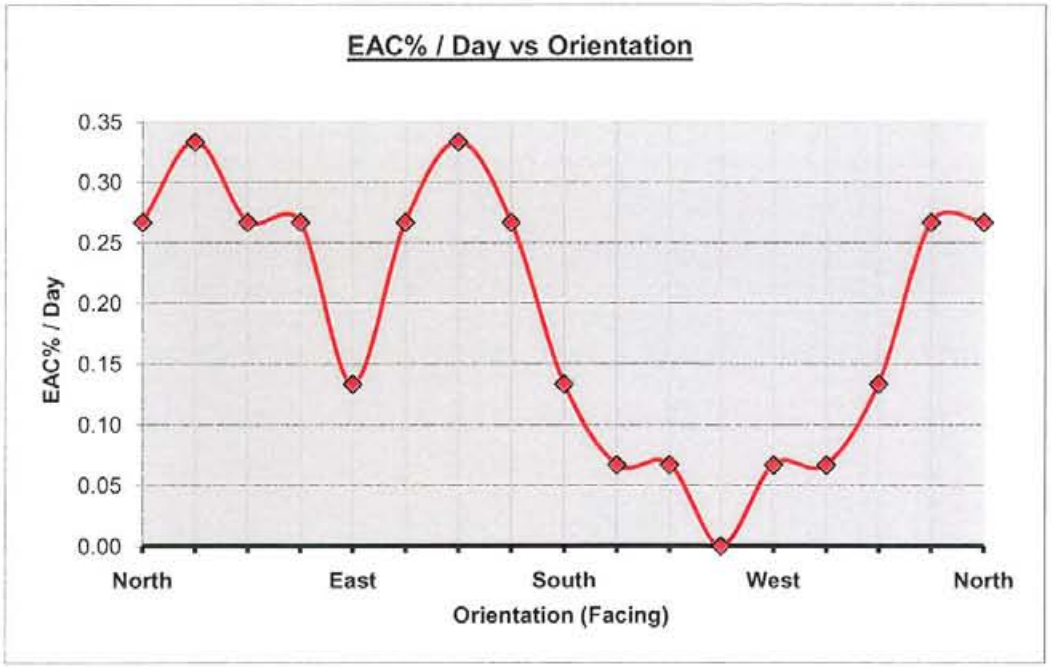
Sticky Pad Data

Gauge Number-NE1 Location 907BRI

Sticky Pad Data

Date On 07/02/2011 Date Off 22/02/2011 Days = 15
Clean = 90

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

Chemtest
The right chemistry to deliver results

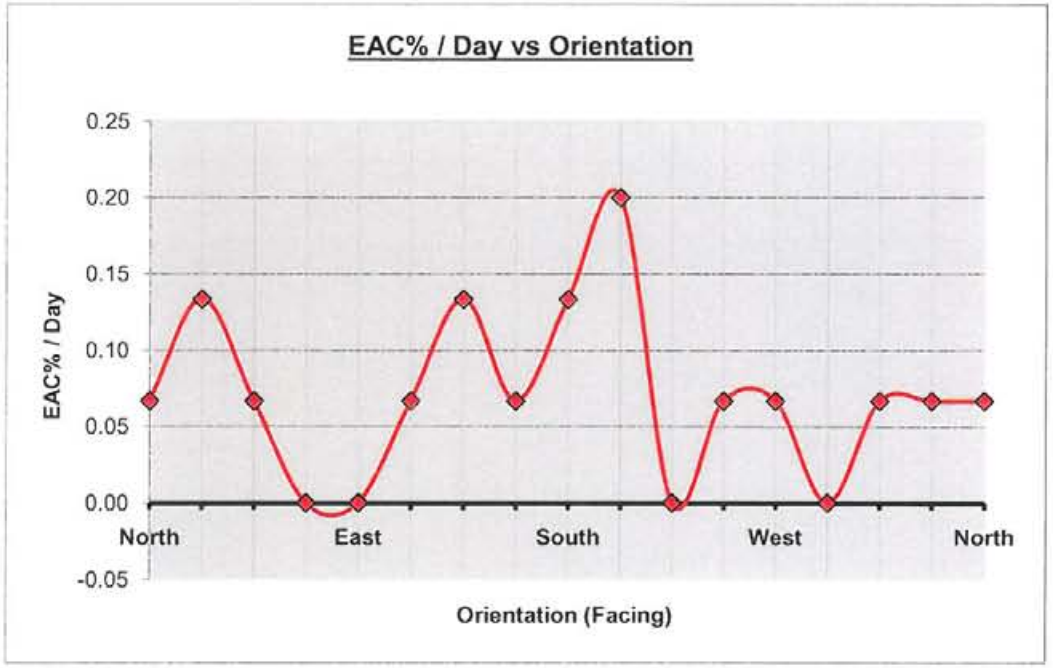
Sticky Pad Data

Gauge Number-NE2 Location 907BRI

Sticky Pad Data

Date On 07/02/2011 Date Off 22/02/2011 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	89	314		0.07
60	90	291		0.00
80	89	269	West	0.07
100	89	246		0.07
120	90	223		0.00
140	87	200		0.20
160	88	177	South	0.13
180	89	154		0.07
200	88	131		0.13
220	89	109		0.07
240	90	86	East	0.00
260	90	63		0.00
280	89	40		0.07
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.

Chemtest
The right chemistry to deliver results

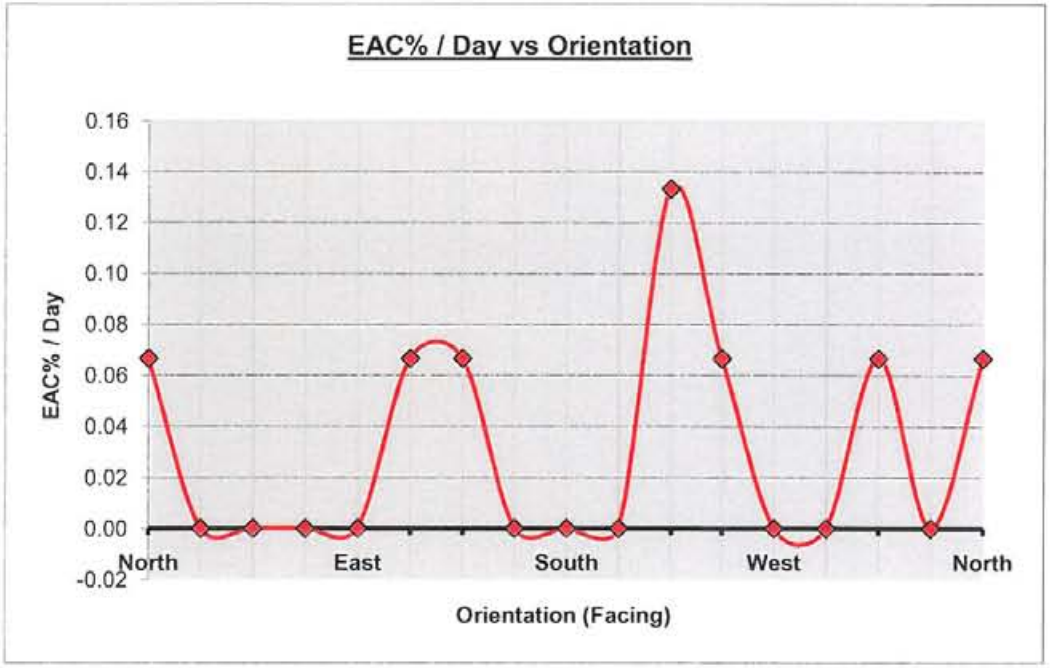
Sticky Pad Data

Gauge Number-South Location 907BRI

Sticky Pad Data

Date On 07/02/2011 Date Off 22/02/2011 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	90	269	West	0.00
100	89	246		0.07
120	88	223		0.13
140	90	200		0.00
160	90	177	South	0.00
180	90	154		0.00
200	89	131		0.07
220	89	109		0.07
240	90	86	East	0.00
260	90	63		0.00
280	90	40		0.00
300	90	17		0.00
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.

Appendix E
Groundwater Level Data

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	P67**
31/01/2011	10.348	10.398	10.054	Covered	10.627	Lost	9.659	Covered	9.509	No Access	No Access	9.827	9.189	9.323	9.549	9.639	10.109	10.198	Blocked
01/02/2011	10.339	10.402	10.053	Covered	10.616	Lost	9.66	Covered	9.501	No Access	No Access	9.827	9.189	9.318	9.548	9.638	10.109	10.194	Blocked
02/02/2011	10.352	10.418	10.243	Covered	10.601	Lost	9.64	Covered	9.509	No Access	No Access	9.82	9.189	9.317	9.549	9.639	10.315	10.197	Blocked
03/02/2011	10.350	10.415	10.239	Covered	10.607	Lost	9.643	Covered	9.55	No Access	No Access	9.83	9.189	9.318	9.549	9.639	10.268	10.196	Blocked
04/02/2011	10.349	10.41	10.238	Covered	10.603	Lost	9.654	Covered	9.54	No Access	No Access	9.828	9.189	9.319	9.548	9.639	10.268	10.197	Blocked
07/02/2011	10.336	10.402	10.052	Covered	10.616	Lost	9.661	Covered	9.5	No Access	No Access	9.82	9.169	9.334	9.530	9.648	10.119	10.122	Blocked
08/02/2011	10.340	10.41	10.044	Covered	10.609	Lost	9.654	Covered	9.41	No Access	No Access	9.78	9.119	9.318	9.538	9.628	10.118	10.182	Blocked
09/02/2011	10.335	10.408	10.014	Covered	10.608	Lost	9.654	Covered	9.48	No Access	No Access	9.77	9.189	9.314	9.530	9.628	10.109	10.175	Blocked
10/02/2011	10.335	10.402	10.024	Covered	10.609	Lost	9.6545	Covered	9.51	No Access	No Access	9.827	9.189	9.318	9.548	9.638	10.109	10.194	Blocked
11/02/2011	10.388	10.452	10.039	Covered	10.64	Lost	9.703	Covered	9.55	No Access	No Access	9.86	9.229	9.394	9.562	9.678	10.148	10.212	Blocked
14/02/2011	10.340	10.451	10.04	Covered	10.64	Lost	9.703	Covered	9.55	No Access	No Access	9.86	9.229	9.394	9.562	9.678	10.148	10.212	Blocked
15/02/2011	10.498	10.392	10.222	Covered	10.585	Lost	9.701	Covered	9.55	No Access	No Access	9.809	9.203	9.306	9.543	9.639	10.325	10.141	Blocked
16/02/2011	10.479	10.368	9.953	Covered	10.567	Lost	9.675	Covered	9.429	No Access	No Access	9.797	9.198	9.295	9.540	9.636	10.235	10.13	Blocked
17/02/2011	10.438	10.361	9.926	Covered	10.558	Lost	9.671	Covered	9.392	No Access	No Access	9.777	9.193	9.291	9.538	9.633	10.202	10.12	Blocked
18/02/2011	10.440	10.38	9.925	Covered	10.554	Lost	9.667	Covered	9.39	No Access	No Access	9.764	9.191	9.284	9.538	9.633	10.198	10.112	Blocked
21/02/2011	12.270	11.86	12.794	Covered	12.039	Lost	11.143	Covered	12.2	No Access	No Access	12.51	10.789	11.094	11.160	11.609	12.048	11.422	Blocked
22/02/2011	10.430	10.387	9.924	Covered	10.555	Lost	9.667	Covered	9.381	No Access	No Access	9.76	9.208	9.31	9.555	9.649	10.208	10.12	Blocked
23/02/2011	10.274	10.426	9.928	Covered	10.58	Lost	10.252	Covered	9.359	No Access	No Access	9.795	9.213	9.305	9.549	9.645	10.097	10.141	Blocked
24/02/2011	10.304	10.403	9.928	Covered	10.578	Lost	10.052	Covered	9.359	No Access	No Access	9.811	9.218	9.323	9.544	9.639	10.093	10.169	Blocked
25/02/2011	10.169	10.41	9.813	Covered	10.589	Lost	10.183	Covered	9.289	No Access	No Access	9.757	9.209	9.305	9.550	9.639	10.12	10.142	Blocked
28/02/2011	10.170	10.41	9.814	Covered	10.638	Lost	9.761	Covered	9.3	No Access	No Access	9.761	9.195	9.295	9.549	9.645	10.13	10.2	Blocked

Appendix F
Surface Water Analysis Reports

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

Scientific Analysis Laboratories

Certificate of Analysis

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

Report Number: 226523-1

Date of Report: 08-Feb-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: 02-Feb-2011
Date Analysis Started: 02-Feb-2011
Date Analysis Completed: 08-Feb-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

UKAS TESTING
1549

Report checked and authorised by :
Amelia McVennon
Project Manager

Issued by :
Amelia McVennon
Project Manager

SAL Reference: 226523
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton Suite

				SAL Reference	**226523 001**	**226523 002**	**226523 003**	**226523 004**
				Customer Sample Reference	**BH9**	**BH11**	**N3**	**S3/4**
				Date Sampled	**01-FEB-2011**	**01-FEB-2011**	**01-FEB-2011**	**01-FEB-2011**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
Electrical Conductivity	T7	AR	10	µS/cm	**2200**	**1100**	**2000**	**3700**
pH	T7	AR			**7.3**	**7.3**	**7.2**	**7.3**

SAL Reference: 226523
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton OP/ON Suite

				SAL Reference	**226523 001**	**226523 002**	**226523 003**	**226523 004**
				Customer Sample Reference	**BH9**	**BH11**	**N3**	**S3/4**
				Date Sampled	**01-FEB-2011**	**01-FEB-2011**	**01-FEB-2011**	**01-FEB-2011**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
Dimefox	T16	AR	0.1	µg/l	<0.1	<0.1	<0.1	<0.1
Ethofumesate	T16	AR	0.1	µg/l	**12**	**23**	**6.0**	**2.8**
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	**83**
Simazine	T16	AR	0.01	µg/l	<0.01	**0.55**	<0.01	<0.01

SAL Reference: 226523
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton Phenoxy Acid Herbs Suite

				SAL Reference	**226523 001**	**226523 002**	**226523 003**	**226523 004**
				Customer Sample Reference	**BH9**	**BH11**	**N3**	**S3/4**
				Date Sampled	**01-FEB-2011**	**01-FEB-2011**	**01-FEB-2011**	**01-FEB-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	**1.4**
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	**35**	**6.2**	**29**	**63**

SAL Reference: 226523
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton SVOC Suite

				SAL Reference	**226523 001**	**226523 002**	**226523 003**	**226523 004**
				Customer Sample Reference	**BH9**	**BH11**	**N3**	**S3/4**
				Date Sampled	**01-FEB-2011**	**01-FEB-2011**	**01-FEB-2011**	**01-FEB-2011**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
2,4,6-Trichlorophenol	T16	AR	10	µg/l	<10	<10	<10	**20**
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	**170**
Bis (2-chloroethyl) ether	T16	AR	10	µg/l	**190**	**40**	**210**	**2500**
Phenol	T16	AR	10	µg/l	<10	<10	<10	<10

SAL Reference: 226523
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton VOC Suite

	SAL Reference	226523 001	226523 002	226523 003	226523 004
	Customer Sample Reference	BH9	BH11	N3	S3/4
	Date Sampled	01-FEB-2011	01-FEB-2011	01-FEB-2011	01-FEB-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) 3**	(13) <1	**(13) 1**
Cis-1,2-Dichloroethylene / T54 / AR / 1 / µg/l		<1	**1**	<1	**2**
Cyclohexanone / T54 / AR / 10 / µg/l		<10	<10	<10	<10
Tetrachloroethene / T54 / AR / 1 / µg/l		<1	<1	<1	<1
Toluene / T54 / AR / 1 / µg/l		<1	<1	<1	**110**
Trichloroethene / T54 / AR / 1 / µg/l		<1	<1	<1	<1
Vinyl chloride / T54 / AR / 1 / µg/l		<1	<1	<1	<1
Xylene (Total) / T54 / AR / 1 / µg/l		<1	<1	<1	**42**

Index to symbols used in 226523-1

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

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
Mecoprop	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

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Scientific Analysis Laboratories

Certificate of Analysis

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

Report Number: 227044-1

Date of Report: 11-Feb-2011

Customer: VertaseFLI Limited
Vertase FLI Ltd
Regis building
3000 Manchester Business Park
Aviator Way
Manchester
M22 5TG

Customer Contact: Mr Michael Allsobrook

Customer Job Reference: 907 BRI
Date Job Received at SAL: 07-Feb-2011
Date Analysis Started: 08-Feb-2011
Date Analysis Completed: 11-Feb-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

UKAS TESTING
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Report checked and authorised by :
Amelia McVennon
Project Manager

Issued by :
Amelia McVennon
Project Manager

SAL Reference: 227044
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton Suite

				SAL Reference	**227044 001**	**227044 002**	**227044 003**	**227044 004**	**227044 005**
				Customer Sample Reference	**BH4**	**BH8/06**	**BH6/06**	**S3/6**	**VF12**
				Date Sampled	**04-FEB-2011**	**04-FEB-2011**	**04-FEB-2011**	**04-FEB-2011**	**04-FEB-2011**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Electrical Conductivity	T7	AR	10	µS/cm	**1900**	**3000**	**870**	**2800**	**890**
pH	T7	AR			**6.8**	**7.5**	**7.2**	**7.0**	**7.4**

SAL Reference: 227044
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton OP/ON Suite

				SAL Reference	**227044 001**	**227044 002**	**227044 003**	**227044 004**	**227044 005**
				Customer Sample Reference	**BH4**	**BH8/06**	**BH6/06**	**S3/6**	**VF12**
				Date Sampled	**04-FEB-2011**	**04-FEB-2011**	**04-FEB-2011**	**04-FEB-2011**	**04-FEB-2011**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Dimefox	T16	AR	0.1	µg/l	<0.1	<0.1	<0.1	<0.1	<0.1
Ethofumesate	T16	AR	0.1	µg/l	**300**	**0.1**	<0.1	**340**	**140**
Hempa	T16	AR	0.1	µg/l	<0.1	<0.1	<0.1	<0.1	**2.0**
Schradan	T16	AR	0.1	µg/l	**27**	<0.1	<0.1	**780**	<0.1
Simazine	T16	AR	0.01	µg/l	**1.6**	**1.3**	<0.01	<0.01	**12**

SAL Reference: 227044
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton Phenoxy Acid Herbs Suite

				SAL Reference	**227044 001**	**227044 002**	**227044 003**	**227044 004**	**227044 005**
				Customer Sample Reference	**BH4**	**BH8/06**	**BH6/06**	**S3/6**	**VF12**
				Date Sampled	**04-FEB-2011**	**04-FEB-2011**	**04-FEB-2011**	**04-FEB-2011**	**04-FEB-2011**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Dicamba	T16	AR	0.1	µg/l	**9.7**	**3.8**	**0.4**	**22**	**3.4**
Dichlorprop	T16	AR	0.1	µg/l	**18**	**0.4**	<0.1	**220**	**9.9**
Phenoxy Acetic acid herbicide: MCPA	T16	AR	0.1	µg/l	**75**	**2.0**	<0.1	**560**	**43**
Mecoprop	T16	AR	0.1	µg/l	**200**	**5.6**	**2.3**	**340**	**22**

SAL Reference: 227044
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton SVOC Suite

				SAL Reference	**227044 001**	**227044 002**	**227044 003**	**227044 004**	**227044 005**
				Customer Sample Reference	**BH4**	**BH8/06**	**BH6/06**	**S3/6**	**VF12**
				Date Sampled	**04-FEB-2011**	**04-FEB-2011**	**04-FEB-2011**	**04-FEB-2011**	**04-FEB-2011**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
2,4,6-Trichlorophenol	T16	AR	10	µg/l	<10	**10**	<10	**1400**	<10
2-Methyl-4,6-dinitrophenol	T16	AR	10	µg/l	<10	<10	<10	(9) <1000	<10
4-Chloro-2-methylphenol	T16	AR	10	µg/l	**1100**	<10	<10	**1100**	<10
Bis (2-chloroethyl) ether	T16	AR	10	µg/l	**280**	<10	<10	**7300**	**20**
Phenol	T16	AR	10	µg/l	<10	<10	<10	(9) <1000	<10

SAL Reference: 227044
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton VOC Suite

	SAL Reference	227044 001	227044 002	227044 003	227044 004	227044 005
	Customer Sample Reference	BH4	BH8/06	BH6/06	S3/6	VF12
	Date Sampled	04-FEB-2011	04-FEB-2011	04-FEB-2011	04-FEB-2011	04-FEB-2011
Determinand	**Method** / **Test Sample** / **LOD** / **Units**					
1,2-Dichlorobenzene	T54 / AR / 1 / µg/l	<1	<1	<1	**120**	<1
1,2-Dichloroethane	T54 / AR / 1 / µg/l	**(13) 9**	(13) <1	(13) <1	**(13) 370**	**(13) 1**
Cis-1,2-Dichloroethylene	T54 / AR / 1 / µg/l	**670**	**1**	<1	**1400**	**6**
Cyclohexanone	T54 / AR / 10 / µg/l	(5) <10	(5) <10	(5) <10	**(5) 580**	(5) <10
Tetrachloroethene	T54 / AR / 1 / µg/l	**2**	**43**	<1	**5400**	**5**
Toluene	T54 / AR / 1 / µg/l	**2**	<1	<1	**1600**	**1**
Trichloroethene	T54 / AR / 1 / µg/l	**5**	<1	<1	**3500**	**7**
Vinyl chloride	T54 / AR / 1 / µg/l	**180**	<1	<1	**210**	**1**
Xylene (Total)	T54 / AR / 1 / µg/l	**13**	<1	<1	**710**	<1

Index to symbols used in 227044-1

Value	Description
AR	As Received
9	LOD raised due to dilution of sample
5	Results are Semiquantitative
13	Results have been blank corrected.
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

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

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Electrical Conductivity	T7	AR	10	µS/cm	N	001-005
pH	T7	AR			U	001-005
Dimefox	T16	AR	0.1	µg/l	N	001-005
Ethofumesate	T16	AR	0.1	µg/l	N	001-005
Hempa	T16	AR	0.1	µg/l	N	001-005
Schradan	T16	AR	0.1	µg/l	N	001-005
Simazine	T16	AR	0.01	µg/l	N	001-005
Dicamba	T16	AR	0.1	µg/l	N	001-005
Dichlorprop	T16	AR	0.1	µg/l	N	001-005
Phenoxy Acetic acid herbicide: MCPA	T16	AR	0.1	µg/l	N	001-005
Mecoprop	T16	AR	0.1	µg/l	N	001-005
2,4,6-Trichlorophenol	T16	AR	10	µg/l	U	001-005
2-Methyl-4,6-dinitrophenol	T16	AR	10	µg/l	N	001-005
4-Chloro-2-methylphenol	T16	AR	10	µg/l	N	001-005
Bis (2-chloroethyl) ether	T16	AR	10	µg/l	U	001-005
Phenol	T16	AR	10	µg/l	U	001-005
1,2-Dichlorobenzene	T54	AR	1	µg/l	U	001-005
1,2-Dichloroethane	T54	AR	1	µg/l	U	001-005
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l	U	001-005
Cyclohexanone	T54	AR	10	µg/l	N	001-005
Tetrachloroethene	T54	AR	1	µg/l	U	001-005
Toluene	T54	AR	1	µg/l	U	001-005
Trichloroethene	T54	AR	1	µg/l	U	001-005
Vinyl chloride	T54	AR	1	µg/l	U	001-005
Xylene (Total)	T54	AR	1	µg/l	U	001-005

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Scientific Analysis Laboratories

Certificate of Analysis

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

Report Number: 229182-1

Date of Report: 03-Mar-2011

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

Customer Contact: The Project Management

Customer Job Reference: 907BRI
Date Job Received at SAL: 25-Feb-2011
Date Analysis Started: 25-Feb-2011
Date Analysis Completed: 03-Mar-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

UKAS TESTING
1549

Report checked and authorised by :
Amelia McVennon
Project Manager

Issued by :
Amelia McVennon
Project Manager

SAL Reference: 229182
Customer Reference: 907BRI

Water Analysed as Water
Vertase Hauxton Suite

				SAL Reference	**229182 001**	**229182 002**	**229182 003**	**229182 004**
				Customer Sample Reference	**RIDDY DOWNSTREAM**	**RIDDY UPSTREAM**	**CAM UPSTREAM**	**CAM DOWNSTREAM**
				Date Sampled	**24-FEB-2011**	**24-FEB-2011**	**24-FEB-2011**	**24-FEB-2011**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
Electrical Conductivity	T7	AR	10	µS/cm	**930**	**940**	**870**	**950**
pH	T7	AR			**7.5**	**7.7**	**7.9**	**8.0**

SAL Reference: 229182
Customer Reference: 907BRI

Water Analysed as Water
Vertase Hauxton OP/ON Suite

				SAL Reference	**229182 001**	**229182 002**	**229182 003**	**229182 004**
				Customer Sample Reference	**RIDDY DOWNSTREAM**	**RIDDY UPSTREAM**	**CAM UPSTREAM**	**CAM DOWNSTREAM**
				Date Sampled	**24-FEB-2011**	**24-FEB-2011**	**24-FEB-2011**	**24-FEB-2011**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
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	<0.1
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: 229182
Customer Reference: 907BRI

Water Analysed as Water
Vertase Hauxton Phenoxy Acid Herbs Suite

				SAL Reference	**229182 001**	**229182 002**	**229182 003**	**229182 004**
				Customer Sample Reference	**RIDDY DOWNSTREAM**	**RIDDY UPSTREAM**	**CAM UPSTREAM**	**CAM DOWNSTREAM**
				Date Sampled	**24-FEB-2011**	**24-FEB-2011**	**24-FEB-2011**	**24-FEB-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: 229182
Customer Reference: 907BRI

Water Analysed as Water
Vertase Hauxton SVOC Suite

				SAL Reference	**229182 001**	**229182 002**	**229182 003**	**229182 004**
				Customer Sample Reference	**RIDDY DOWNSTREAM**	**RIDDY UPSTREAM**	**CAM UPSTREAM**	**CAM DOWNSTREAM**
				Date Sampled	**24-FEB-2011**	**24-FEB-2011**	**24-FEB-2011**	**24-FEB-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 Reference: 229182
Customer Reference: 907BRI

Water Analysed as Water
Vertase Hauxton VOC Suite

	SAL Reference	229182 001	229182 002	229182 003	229182 004
	Customer Sample Reference	RIDDY DOWNSTREAM	RIDDY UPSTREAM	CAM UPSTREAM	CAM DOWNSTREAM
	Date Sampled	24-FEB-2011	24-FEB-2011	24-FEB-2011	24-FEB-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	<1	<1	<1	<1
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l	**3**	<1	<1	<1
Cyclohexanone	T54	AR	10	µg/l	<10	<10	<10	<10
Tetrachloroethene	T54	AR	1	µg/l	**3**	<1	<1	**2**
Toluene	T54	AR	1	µg/l	<1	<1	<1	<1
Trichloroethene	T54	AR	1	µg/l	**7**	<1	<1	<1
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 229182-1

Value	Description
AR	As Received
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

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

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
Mecoprop	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

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

Scientific Analysis Laboratories

Certificate of Analysis

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

Report Number: 229703-1

Date of Report: 10-Mar-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: 02-Mar-2011
Date Analysis Started: 03-Mar-2011
Date Analysis Completed: 10-Mar-2011

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation

Tests covered by this certificate were conducted in accordance with SAL SOPs

UKAS TESTING
1549

Report checked and authorised by :
Amelia McVennon
Project Manager

Issued by :
Amelia McVennon
Project Manager

SAL Reference: 229703
Customer Reference: 907BRI

Water Analysed as Water
Vertase Hauxton Suite

				SAL Reference	**229703 001**	**229703 002**	**229703 003**	**229703 004**	**229703 005**
				Customer Sample Reference	**S3/6**	**VF12**	**BH8/06**	**BH6/06**	**BH4**
				Date Sampled	**25-FEB-2011**	**25-FEB-2011**	**25-FEB-2011**	**25-FEB-2011**	**25-FEB-2011**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Electrical Conductivity	T7	AR	10	µS/cm	**3000**	**980**	**3300**	**900**	**2000**
pH	T7	AR			**7.0**	**7.4**	**7.6**	**7.2**	**6.8**

SAL Reference: 229703
Customer Reference: 907BRI

Water Analysed as Water
Vertase Hauxton Suite

				SAL Reference	**229703 006**	**229703 007**	**229703 008**	**229703 009**	**229703 010**
				Customer Sample Reference	**BHB1**	**N3**	**S314**	**BH9**	**BH11**
				Date Sampled	**25-FEB-2011**	**25-FEB-2011**	**25-FEB-2011**	**25-FEB-2011**	**25-FEB-2011**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Electrical Conductivity	T7	AR	10	µS/cm	**2100**	**2200**	**3700**	**2300**	**640**
pH	T7	AR			**6.9**	**7.2**	**7.2**	**7.3**	**7.4**

SAL Reference: 229703
Customer Reference: 907BRI

Water Analysed as Water
Vertase Hauxton OP/ON Suite

				SAL Reference	**229703 001**	**229703 002**	**229703 003**	**229703 004**	**229703 005**
				Customer Sample Reference	**S3/6**	**VF12**	**BH8/06**	**BH6/06**	**BH4**
				Date Sampled	**25-FEB-2011**	**25-FEB-2011**	**25-FEB-2011**	**25-FEB-2011**	**25-FEB-2011**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Dimefox	T16	AR	0.1	µg/l	(19,9) <10	(9,19) <1.0	(19,9) <1.0	<0.1	(19,9) <10
Ethofumesate	T16	AR	0.1	µg/l	**(19) 930**	**(19) 670**	**(19) 32**	**0.8**	**(19) 1400**
Hempa	T16	AR	0.1	µg/l	(9,19) <10	(19,9) <1.0	(19,9) <1.0	<0.1	(9,19) <10
Schradan	T16	AR	0.1	µg/l	**(19) 1400**	(9,19) <1.0	(9,19) <1.0	<0.1	(9,19) <10
Simazine	T16	AR	0.01	µg/l	(9,19) <1.0	(19,9) <0.10	**(19) 25**	<0.01	(9,19) <1.0

SAL Reference: 229703
Customer Reference: 907BRI

Water Analysed as Water
Vertase Hauxton OP/ON Suite

				SAL Reference	**229703 006**	**229703 007**	**229703 008**	**229703 009**	**229703 010**
				Customer Sample Reference	**BHB1**	**N3**	**S314**	**BH9**	**BH11**
				Date Sampled	**25-FEB-2011**	**25-FEB-2011**	**25-FEB-2011**	**25-FEB-2011**	**25-FEB-2011**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Dimefox	T16	AR	0.1	µg/l	(19,9) <10	<0.1	<0.1	<0.1	<0.1
Ethofumesate	T16	AR	0.1	µg/l	**(19) 2300**	**6.3**	**2.7**	**8.6**	**0.3**
Hempa	T16	AR	0.1	µg/l	(19,9) <10	<0.1	<0.1	<0.1	**0.2**
Schradan	T16	AR	0.1	µg/l	(9,19) <10	<0.1	<0.1	<0.1	<0.1
Simazine	T16	AR	0.01	µg/l	(9,19) <1.0	**0.14**	<0.01	<0.01	**1.5**

SAL Reference: 229703
Customer Reference: 907BRI

Water Analysed as Water
Vertase Hauxton Phenoxy Acid Herbs Suite

				SAL Reference	**229703 001**	**229703 002**	**229703 003**	**229703 004**	**229703 005**
				Customer Sample Reference	**S3/6**	**VF12**	**BH8/06**	**BH6/06**	**BH4**
				Date Sampled	**25-FEB-2011**	**25-FEB-2011**	**25-FEB-2011**	**25-FEB-2011**	**25-FEB-2011**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Dicamba	T16	AR	0.1	µg/l	**1.3**	**1.5**	**3.0**	**0.1**	**13**
Dichlorprop	T16	AR	0.1	µg/l	**22**	**23**	**3.3**	**1.9**	**27**
Phenoxy Acetic acid herbicide: MCPA	T16	AR	0.1	µg/l	**44**	**76**	**14**	**11**	**150**
Mecoprop	T16	AR	0.1	µg/l	**38**	**39**	**5.2**	**3.3**	**170**

SAL Reference: 229703
Customer Reference: 907BRI

Water Analysed as Water
Vertase Hauxton Phenoxy Acid Herbs Suite

				SAL Reference	**229703 006**	**229703 007**	**229703 008**	**229703 009**	**229703 010**
				Customer Sample Reference	**BHB1**	**N3**	**S314**	**BH9**	**BH11**
				Date Sampled	**25-FEB-2011**	**25-FEB-2011**	**25-FEB-2011**	**25-FEB-2011**	**25-FEB-2011**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Dicamba	T16	AR	0.1	µg/l	**12**	<0.1	**1.5**	<0.1	**0.1**
Dichlorprop	T16	AR	0.1	µg/l	**13**	**0.1**	**12**	<0.1	<0.1
Phenoxy Acetic acid herbicide: MCPA	T16	AR	0.1	µg/l	**110**	<0.1	**1.2**	**0.2**	**0.3**
Mecoprop	T16	AR	0.1	µg/l	**97**	**21**	**70**	**0.2**	**0.5**

SAL Reference: 229703
Customer Reference: 907BRI

Water Analysed as Water
Vertase Hauxton SVOC Suite

				SAL Reference	**229703 001**	**229703 002**	**229703 003**	**229703 004**	**229703 005**
				Customer Sample Reference	**S3/6**	**VF12**	**BH8/06**	**BH6/06**	**BH4**
				Date Sampled	**25-FEB-2011**	**25-FEB-2011**	**25-FEB-2011**	**25-FEB-2011**	**25-FEB-2011**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
2,4,6-Trichlorophenol	T16	AR	10	µg/l	**1200**	<10	**18**	<10	**12**
2-Methyl-4,6-dinitrophenol	T16	AR	10	µg/l	(9) <1000	<10	<10	<10	<10
4-Chloro-2-methylphenol	T16	AR	10	µg/l	**1900**	<10	<10	<10	**810**
Bis (2-chloroethyl) ether	T16	AR	10	µg/l	**8500**	**14**	<10	<10	**230**
Phenol	T16	AR	10	µg/l	(9) <1000	<10	<10	<10	<10

SAL Reference: 229703
Customer Reference: 907BRI

Water Analysed as Water
Vertase Hauxton SVOC Suite

				SAL Reference	**229703 006**	**229703 007**	**229703 008**	**229703 009**	**229703 010**
				Customer Sample Reference	**BHB1**	**N3**	**S314**	**BH9**	**BH11**
				Date Sampled	**25-FEB-2011**	**25-FEB-2011**	**25-FEB-2011**	**25-FEB-2011**	**25-FEB-2011**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
2,4,6-Trichlorophenol	T16	AR	10	µg/l	**17**	<10	**45**	<10	<10
2-Methyl-4,6-dinitrophenol	T16	AR	10	µg/l	<10	<10	<10	<10	<10
4-Chloro-2-methylphenol	T16	AR	10	µg/l	<10	<10	**25**	<10	<10
Bis (2-chloroethyl) ether	T16	AR	10	µg/l	**170**	**240**	**2400**	**230**	<10
Phenol	T16	AR	10	µg/l	<10	<10	<10	<10	<10

SAL Reference: 229703
Customer Reference: 907BRI

Water Analysed as Water
Vertase Hauxton VOC Suite

	SAL Reference	229703 001	229703 002	229703 003	229703 004	229703 005
	Customer Sample Reference	S3/6	VF12	BH8/06	BH6/06	BH4
	Date Sampled	25-FEB-2011	25-FEB-2011	25-FEB-2011	25-FEB-2011	25-FEB-2011
Determinand	**Method** / **Test Sample** / **LOD** / **Units**					
1,2-Dichlorobenzene	T54 / AR / 1 / µg/l	(19) **690**	**1**	<1	<1	**2**
1,2-Dichloroethane	T54 / AR / 1 / µg/l	(19) **1200**	<1	<1	<1	**16**
Cis-1,2-Dichloroethylene	T54 / AR / 1 / µg/l	(19) **7100**	**16**	**3**	**2**	(19) **1900**
Cyclohexanone	T54 / AR / 10 / µg/l	(5,19) **710**	(5) <10	(5) <10	(5) <10	(5) <10
Tetrachloroethene	T54 / AR / 1 / µg/l	(19) **46000**	**73**	**190**	**16**	**36**
Toluene	T54 / AR / 1 / µg/l	(19) **15000**	**21**	**6**	**5**	**3**
Trichloroethene	T54 / AR / 1 / µg/l	(19) **28000**	**64**	**32**	**8**	**38**
Vinyl chloride	T54 / AR / 1 / µg/l	(19) **590**	**4**	<1	<1	**320**
Xylene (Total)	T54 / AR / 1 / µg/l	(19) **4400**	**7**	<1	<1	**69**

SAL Reference: 229703
Customer Reference: 907BRI

Water Analysed as Water
Vertase Hauxton VOC Suite

	SAL Reference	229703 006	229703 007	229703 008	229703 009	229703 010
	Customer Sample Reference	BHB1	N3	S314	BH9	BH11
	Date Sampled	25-FEB-2011	25-FEB-2011	25-FEB-2011	25-FEB-2011	25-FEB-2011
Determinand	**Method** / **Test Sample** / **LOD** / **Units**					
1,2-Dichlorobenzene	T54 / AR / 1 / µg/l	**2**	<1	<1	<1	<1
1,2-Dichloroethane	T54 / AR / 1 / µg/l	**16**	<1	<1	<1	<1
Cis-1,2-Dichloroethylene	T54 / AR / 1 / µg/l	(19) **1200**	<1	**2**	**1**	<1
Cyclohexanone	T54 / AR / 10 / µg/l	(5) <10	(5) <10	(5) <10	(5) <10	(5) <10
Tetrachloroethene	T54 / AR / 1 / µg/l	**26**	<1	<1	<1	<1
Toluene	T54 / AR / 1 / µg/l	**3**	<1	**140**	<1	<1
Trichloroethene	T54 / AR / 1 / µg/l	**18**	<1	**1**	<1	<1
Vinyl chloride	T54 / AR / 1 / µg/l	**240**	<1	**2**	<1	<1
Xylene (Total)	T54 / AR / 1 / µg/l	**150**	<1	**97**	<1	<1

Index to symbols used in 229703-1

Value	Description
AR	As Received
19	Due to high levels the analysis was conducted on a diluted sample
5	Results are Semiquantitative
9	LOD raised due to dilution of sample
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	001-010
pH	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

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
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
Mecoprop	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

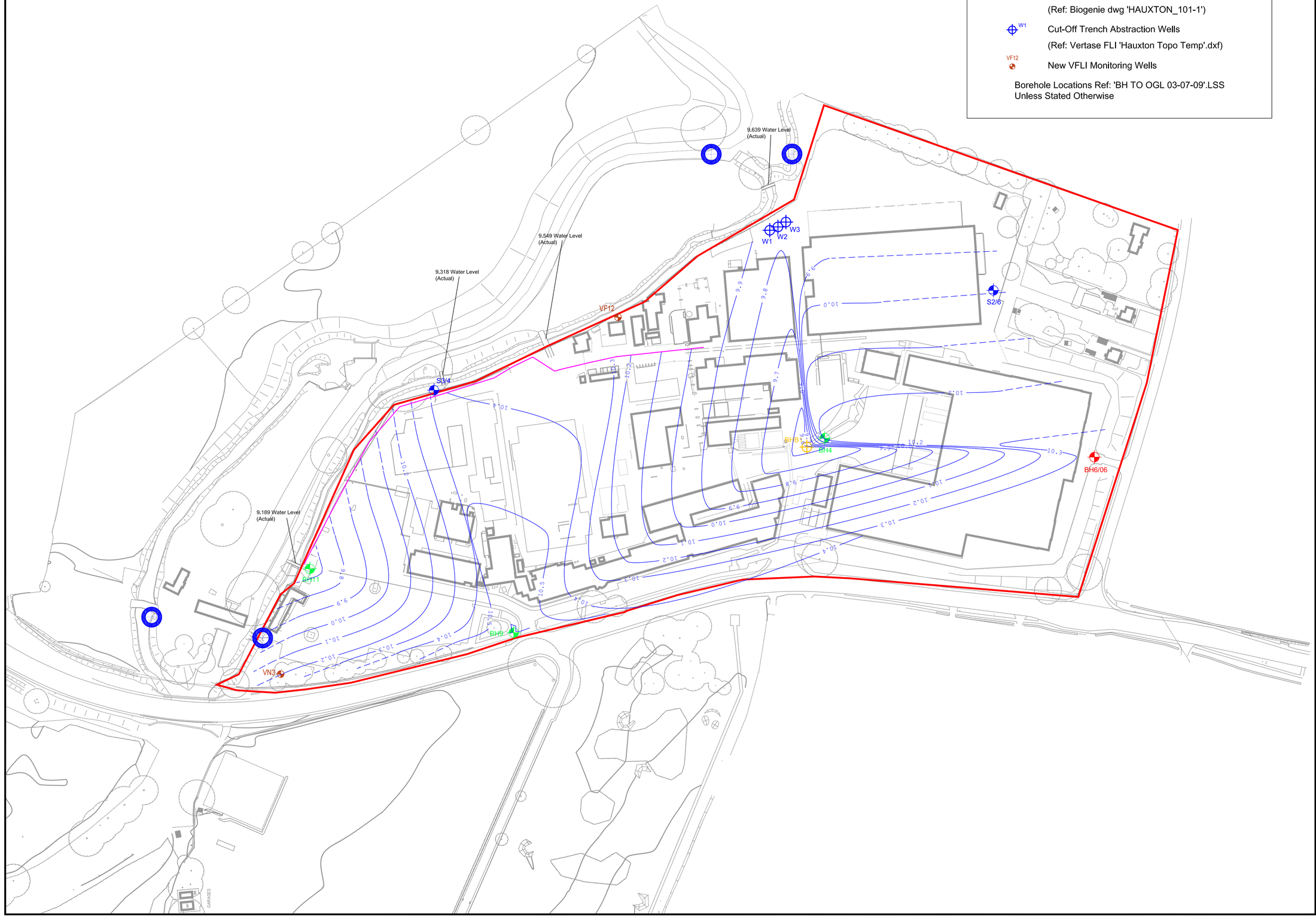
Appendix G
Groundwater Contour Plots

A1

Legend

- BH1/06 — Atkins Exploratory Hole Location
- BH7 P67 — Previous Borehole Location
- Water Sampling Location
- BHB1 — Biogenie Boreholes (Ref: Biogenie dwg 'HAUXTON_101-1')
- W1 — Cut-Off Trench Abstraction Wells (Ref: Vertase FLI 'Hauxton Topo Temp'.dxf)
- VF12 — New VFLI Monitoring Wells

Borehole Locations Ref: 'BH TO OGL 03-07-09'.LSS
Unless Stated Otherwise



Rev.	Description	Revised By	Date
	FIRST ISSUE		08-03-11

Vertase F.L.I.

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email: info@vertaseffli.co.uk
www.vertaseffli.com

Site Address:
Bayer Site
Hauxton
Cambridge

Rev:

Title: Ground Water Contours 03-02-11

Client: Harrow Estates

Drawn: MRG	Checked: MA	Approved: MA
Dwg: D907_149	Contract: 907 BRI	Scale: 1:1000

A1

Legend

- BH1/06 — Atkins Exploratory Hole Location
- BH7 P67 — Previous Borehole Location
- Water Sampling Location
- BHB1 — Biogenie Boreholes (Ref: Biogenie dwg 'HAUXTON_101-1')
- W1 — Cut-Off Trench Abstraction Wells (Ref: Vertase FLI 'Hauxton Topo Temp'.dxf)
- VF12 — New VFLI Monitoring Wells

Borehole Locations Ref: 'BH TO OGL 03-07-09'.LSS
Unless Stated Otherwise

9.638 Water Level (Actual)
9.548 Water Level (Actual)
9.318 Water Level (Actual)
9.189 Water Level (Actual)
W1 W2 W3
VF12
S3/4
S2/6
BH6/06
BHB1
BH4
BH11
BH9
VN3
GARAGES

Rev.	Description	Revised By	Date
	FIRST ISSUE		08-03-11

Vertase F.L.I.

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email: info@vertasefli.co.uk
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Site Address:
Bayer Site
Hauxton
Cambridge

Rev:

Title: Ground Water Contours 10-02-11

Client: Harrow Estates

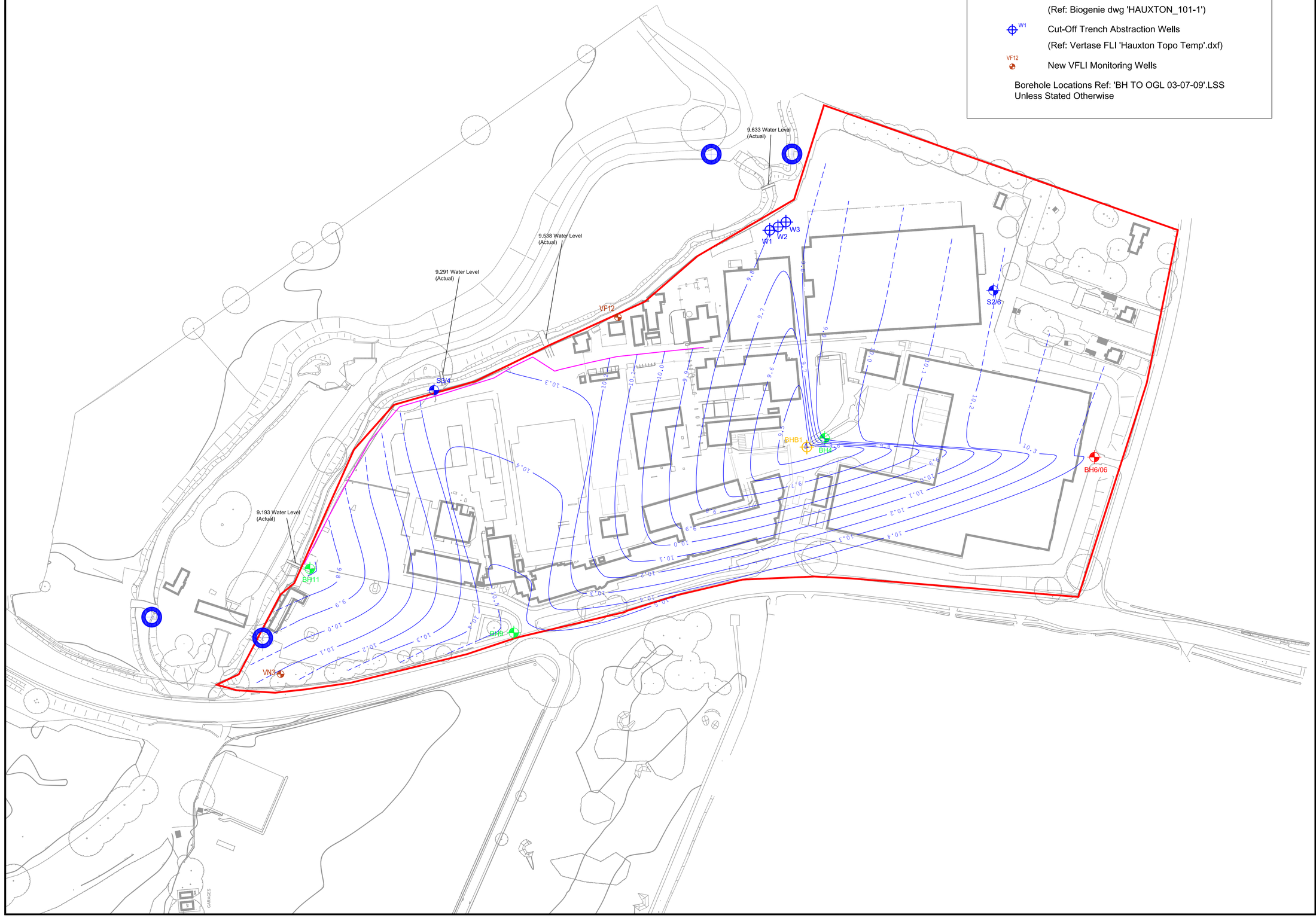
Drawn: MRG	Checked: MA	Approved: MA
Dwg: D907_150	Contract: 907 BRI	Scale: 1:1000

A1

Legend

- BH1/06 — Atkins Exploratory Hole Location
- BH7 P67 — Previous Borehole Location
- Water Sampling Location
- BHB1 — Biogenie Boreholes (Ref: Biogenie dwg 'HAUXTON_101-1')
- W1 — Cut-Off Trench Abstraction Wells (Ref: Vertase FLI 'Hauxton Topo Temp'.dxf)
- VF12 — New VFLI Monitoring Wells

Borehole Locations Ref: 'BH TO OGL 03-07-09'.LSS
Unless Stated Otherwise



Rev.	Description	Revised By	Date
	FIRST ISSUE		09-03-11

Vertase F.L.I.

- Bristol Head Office: Tel: 01275 397600 Fax: 01275 397601
- Sheffield Office: Tel: 01246 813289 Fax: 01246 812963
- Hertford Office: Tel: 01992 535757 Fax: 01992 535858
- Manchester Office: Tel: 01614 372708 Fax: 01614 376300

email: info@vertasefli.co.uk
www.vertasefli.com

Site Address:
Bayer Site
Hauxton
Cambridge

Rev:

Title: Ground Water Contours 17-02-11

Client: Harrow Estates

Drawn: MRG	Checked: MA	Approved: MA
Dwg: D907_151	Contract: 907 BRI	Scale: 1:1000

A1

Legend

- BH1/06 — Atkins Exploratory Hole Location
- BH7 P67 — Previous Borehole Location
- Water Sampling Location
- BHB1 — Biogenie Boreholes (Ref: Biogenie dwg 'HAUXTON_101-1')
- W1 — Cut-Off Trench Abstraction Wells (Ref: Vertase FLI 'Hauxton Topo Temp'.dxf)
- VF12 — New VFLI Monitoring Wells

Borehole Locations Ref: 'BH TO OGL 03-07-09'.LSS
Unless Stated Otherwise

9.639 Water Level (Actual)
9.344 Water Level (Actual)
9.323 Water Level (Actual)
9.218 Water Level (Actual)
W1 W2 W3
VF12
VN3
S3/4
S2/6
BH11
BH9
BH4
BHB1
BH6/06
GARAGES

Rev.	Description	Revised By	Date
	FIRST ISSUE		09-03-11

Vertase F.L.I.

- Bristol Head Office: Tel: 01275 397600 Fax: 01275 397601
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Site Address:
Bayer Site
Hauxton
Cambridge

Rev:

Title: Ground Water Contours 24-02-11

Client: Harrow Estates

Drawn: MRG	Checked: MA	Approved: MA
Dwg: D907_152	Contract: 907 BRI	Scale: 1:1000

Appendix H

Waste Water Treatment Plant Discharge Analysis

Water Quality Analysis of Effluent Discharge Sample

				Bromide	Chloride	Sulphate Ion	Suspended Solids (Total)	Ammoniacal Nitrogen	Biochemical Oxygen Demand	pH	Atrazine	Trietazine	Simazine	Total Atrazine, Trietazine and 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*	*Total of all three*			*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	0.01	<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

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

Scientific Analysis Laboratories

Certificate of Analysis

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

Report Number: 228099-1

Date of Report: 23-Feb-2011

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

Customer Contact: The Project Management

Customer Job Reference: 907 BRI
Customer Purchase Order: 907 BRI
Date Job Received at SAL: 16-Feb-2011
Date Analysis Started: 17-Feb-2011
Date Analysis Completed: 23-Feb-2011

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation

Tests covered by this certificate were conducted in accordance with SAL SOPs

UKAS TESTING
1549

Report checked and authorised by :
Amelia McVennon
Project Manager

Issued by :
Amelia McVennon
Project Manager

SAL Reference: 228099
Customer Reference: 907 BRI

Water Analysed as Water
Miscellaneous

					SAL Reference	**228099 001**	**228099 002**	**228099 003**	**228099 004**	**228099 005**	**228099 006**
					Customer Sample Reference	**T99 IN**	**STRIPPER OUT**	**MIXING SUMP**	**PRIMARY IN**	**PRIMARY OUT**	**DISCHARGE**
					Date Sampled	**15-FEB-2011**	**15-FEB-2011**	**15-FEB-2011**	**15-FEB-2011**	**15-FEB-2011**	**15-FEB-2011**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**							
Ammoniacal nitrogen	T4	AR	50	µg/l	**1100**	**1100**	**90**	**70**	**100**	**80**
Biochemical Oxygen Demand	T7	AR	3000	µg/l	<3000	**3200**	<3000	<3000	<3000	<3000
pH	T7	AR			**7.7**	**7.9**	**8.3**	**8.3**	**8.8**	**9.1**

SAL Reference: 228099
Customer Reference: 907 BRI

Water Analysed as Water
Suite A

					SAL Reference	**228099 001**	**228099 002**	**228099 003**	**228099 004**	**228099 005**	**228099 006**
					Customer Sample Reference	**T99 IN**	**STRIPPER OUT**	**MIXING SUMP**	**PRIMARY IN**	**PRIMARY OUT**	**DISCHARGE**
					Date Sampled	**15-FEB-2011**	**15-FEB-2011**	**15-FEB-2011**	**15-FEB-2011**	**15-FEB-2011**	**15-FEB-2011**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**							
Atrazine	T16	AR	0.01	µg/l	**14**	**50**	**6.4**	**7.8**	<0.01	<0.01
Trietazine	T16	AR	0.01	µg/l	**52**	**100**	**91**	**95**	<0.01	<0.01

SAL Reference: 228099
Customer Reference: 907 BRI

Water Analysed as Water
Suite B

					SAL Reference	**228099 001**	**228099 002**	**228099 003**	**228099 004**	**228099 005**	**228099 006**
					Customer Sample Reference	**T99 IN**	**STRIPPER OUT**	**MIXING SUMP**	**PRIMARY IN**	**PRIMARY OUT**	**DISCHARGE**
					Date Sampled	**15-FEB-2011**	**15-FEB-2011**	**15-FEB-2011**	**15-FEB-2011**	**15-FEB-2011**	**15-FEB-2011**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**							
Benazolin	T16	AR	0.1	µg/l	**0.4**	<0.1	**0.9**	**0.9**	**1.0**	**1.1**
2,3,6-TCB	T16	AR	0.1	µg/l	**1.3**	**1.0**	**6.2**	**0.9**	<0.1	<0.1

SAL Reference: 228099
Customer Reference: 907 BRI

Water Analysed as Water
Suite C

					SAL Reference	**228099 001**	**228099 002**	**228099 003**	**228099 004**	**228099 005**	**228099 006**
					Customer Sample Reference	**T99 IN**	**STRIPPER OUT**	**MIXING SUMP**	**PRIMARY IN**	**PRIMARY OUT**	**DISCHARGE**
					Date Sampled	**15-FEB-2011**	**15-FEB-2011**	**15-FEB-2011**	**15-FEB-2011**	**15-FEB-2011**	**15-FEB-2011**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**							
Bromide	T253	AR	100	µg/l	<1000	<1000	<1000	<1000	<1000	<1000
Chloride	T253	AR	200	µg/l	**170000**	**140000**	**150000**	**170000**	**170000**	**170000**
Sulphate ion	T253	AR	100	µg/l	**220000**	**210000**	**220000**	**230000**	**230000**	**220000**
Suspended Solids (Total)	T2	AR	10000	µg/l	**11000**	**16000**	**42000**	<10000	<10000	<10000

SAL Reference: 228099
Customer Reference: 907 BRI

Water Analysed as Water
Suite D

				SAL Reference	**228099 001**	**228099 002**	**228099 003**	**228099 004**	**228099 005**	**228099 006**
				Customer Sample Reference	**T99 IN**	**STRIPPER OUT**	**MIXING SUMP**	**PRIMARY IN**	**PRIMARY OUT**	**DISCHARGE**
				Date Sampled	**15-FEB-2011**	**15-FEB-2011**	**15-FEB-2011**	**15-FEB-2011**	**15-FEB-2011**	**15-FEB-2011**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**						
Dicamba	T16	AR	0.1	µg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hempa	T16	AR	0.1	µg/l	**6.0**	**5.7**	**5.9**	**7.8**	<0.1	<0.1
Schradan	T16	AR	0.1	µg/l	**1.1**	**1.4**	**1.9**	**2.1**	<0.1	<0.1
Simazine	T16	AR	0.01	µg/l	**15**	**14**	**8.4**	**9.6**	<0.01	<0.01

SAL Reference: 228099
Customer Reference: 907 BRI

Water Analysed as Water
Suite E

				SAL Reference	**228099 001**	**228099 002**	**228099 003**	**228099 004**	**228099 005**	**228099 006**
				Customer Sample Reference	**T99 IN**	**STRIPPER OUT**	**MIXING SUMP**	**PRIMARY IN**	**PRIMARY OUT**	**DISCHARGE**
				Date Sampled	**15-FEB-2011**	**15-FEB-2011**	**15-FEB-2011**	**15-FEB-2011**	**15-FEB-2011**	**15-FEB-2011**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**						
TVC at 22 C after 3 days	T34	AR	10	cfu/ml	**9300**	**1200**	**5000**	**7700**	**5600**	**9300**
TVC at 37°C after 2 days	T34	AR	10	cfu/ml	**560**	**1100**	**760**	**2000**	**560**	**40**

SAL Reference: 228099
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton Suite

				SAL Reference	**228099 001**	**228099 006**
				Customer Sample Reference	**T99 IN**	**DISCHARGE**
				Date Sampled	**15-FEB-2011**	**15-FEB-2011**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Electrical Conductivity	T7	AR	10	µS/cm	**1300**	**1200**
pH	T7	AR			**7.7**	**9.1**

SAL Reference: 228099
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton OP/ON Suite

				SAL Reference	**228099 001**	**228099 006**
				Customer Sample Reference	**T99 IN**	**DISCHARGE**
				Date Sampled	**15-FEB-2011**	**15-FEB-2011**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Dimefox	T16	AR	0.1	µg/l	**0.3**	<0.1
Ethofumesate	T16	AR	0.1	µg/l	**120**	<0.1
Hempa	T16	AR	0.1	µg/l	**6.0**	<0.1
Schradan	T16	AR	0.1	µg/l	**1.1**	<0.1
Simazine	T16	AR	0.01	µg/l	**15**	<0.01

SAL Reference: 228099
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton Phenoxy Acid Herbs Suite

SAL Reference	**228099 001**	**228099 006**
Customer Sample Reference	**T99 IN**	**DISCHARGE**
Date Sampled	**15-FEB-2011**	**15-FEB-2011**

Determinand	Method	Test Sample	LOD	Units		
Dicamba	T16	AR	0.1	µg/l	<0.1	<0.1
Dichlorprop	T16	AR	0.1	µg/l	<0.1	<0.1
Phenoxy Acetic acid herbicide: MCPA	T16	AR	0.1	µg/l	<0.1	<0.1
Mecoprop	T16	AR	0.1	µg/l	<0.1	<0.1

SAL Reference: 228099
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton SVOC Suite

SAL Reference	**228099 001**	**228099 006**
Customer Sample Reference	**T99 IN**	**DISCHARGE**
Date Sampled	**15-FEB-2011**	**15-FEB-2011**

Determinand	Method	Test Sample	LOD	Units		
2,4,6-Trichlorophenol	T16	AR	10	µg/l	<10	<10
2-Methyl-4,6-dinitrophenol	T16	AR	10	µg/l	<10	<10
4-Chloro-2-methylphenol	T16	AR	10	µg/l	<10	<10
Bis (2-chloroethyl) ether	T16	AR	10	µg/l	<10	<10
Phenol	T16	AR	10	µg/l	<10	<10

SAL Reference: 228099
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton VOC Suite

SAL Reference	**228099 001**	**228099 006**
Customer Sample Reference	**T99 IN**	**DISCHARGE**
Date Sampled	**15-FEB-2011**	**15-FEB-2011**

Determinand	Method	Test Sample	LOD	Units		
1,2-Dichlorobenzene	T54	AR	1	µg/l	<1	<1
1,2-Dichloroethane	T54	AR	1	µg/l	(13) <1	(13) <1
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l	**9**	<1
Cyclohexanone	T54	AR	10	µg/l	<10	<10
Tetrachloroethene	T54	AR	1	µg/l	**26**	<1
Toluene	T54	AR	1	µg/l	<1	<1
Trichloroethene	T54	AR	1	µg/l	**6**	<1
Vinyl chloride	T54	AR	1	µg/l	**1**	<1
Xylene (Total)	T54	AR	1	µg/l	<1	<1

Index to symbols used in 228099-1

Value	Description
AR	As Received
13	Results have been blank corrected.
W	Analysis was performed at another SAL laboratory
S	Analysis was subcontracted
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

Value	Description
T7	Probe
T253	IC(EID299)

T34	Micro
T54	GC/MS (Headspace)
T16	GC/MS
T4	Colorimetry
T2	Grav

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Ammoniacal nitrogen	T4	AR	50	µg/l	U	001-006
Biochemical Oxygen Demand	T7	AR	3000	µg/l	N	001-006
pH	T7	AR			U	001
Atrazine	T16	AR	0.01	µg/l	N	001-006
Trietazine	T16	AR	0.01	µg/l	N	001-006
Benazolin	T16	AR	0.1	µg/l	N	001-006
2,3,6-TCB	T16	AR	0.1	µg/l	N	001-006
Bromide	T253	AR	100	µg/l	WU	001-006
Chloride	T253	AR	200	µg/l	WU	001-006
Sulphate ion	T253	AR	100	µg/l	WU	001-006
Suspended Solids (Total)	T2	AR	10000	µg/l	N	001-006
Hempa	T16	AR	0.1	µg/l	N	001
Schradan	T16	AR	0.1	µg/l	N	001
Simazine	T16	AR	0.01	µg/l	N	001
TVC at 22 C after 3 days	T34	AR	10	cfu/ml	SN	001-006
TVC at 37°C after 2 days	T34	AR	10	cfu/ml	SN	001-006
Electrical Conductivity	T7	AR	10	µS/cm	N	001,006
Dimefox	T16	AR	0.1	µg/l	N	001,006
Ethofumesate	T16	AR	0.1	µg/l	N	001,006
Dicamba	T16	AR	0.1	µg/l	N	001
Dichlorprop	T16	AR	0.1	µg/l	N	001,006
Phenoxy Acetic acid herbicide: MCPA	T16	AR	0.1	µg/l	N	001,006
Mecoprop	T16	AR	0.1	µg/l	N	001,006
2,4,6-Trichlorophenol	T16	AR	10	µg/l	U	001,006
2-Methyl-4,6-dinitrophenol	T16	AR	10	µg/l	N	001,006
4-Chloro-2-methylphenol	T16	AR	10	µg/l	N	001,006
Bis (2-chloroethyl) ether	T16	AR	10	µg/l	U	001,006
Phenol	T16	AR	10	µg/l	U	001,006
1,2-Dichlorobenzene	T54	AR	1	µg/l	U	001,006
1,2-Dichloroethane	T54	AR	1	µg/l	U	001,006
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l	U	001,006
Cyclohexanone	T54	AR	10	µg/l	N	001,006
Tetrachloroethene	T54	AR	1	µg/l	U	001,006
Toluene	T54	AR	1	µg/l	U	001,006
Trichloroethene	T54	AR	1	µg/l	U	001,006
Vinyl chloride	T54	AR	1	µg/l	U	001,006
Xylene (Total)	T54	AR	1	µg/l	U	001,006

Appendix I
Soil Characterisation Results Summary

Results Received	Reported to SCDC	Grid square	Contaminant	Concentration (µg/kg)	Likely use/origin
12.04.2010	06.05.2010	K15	VOC/SVOC peaks 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.
15.04.2010	06.05.2010 (09.06.2010)	J16	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.
			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 than contaminants of concern and will therefore degrade more readily than the target contaminants and will be captured by
			Unidentified branched aromatic alcohol, C_{18}	290,000	
15.04.2010	06.05.2010	K14	Phenanthrene	4,100	Encountered and assessed during site investigation, concentration below target value
			Fluoranthene	4,800	
			Pyrene	3,900	
			Benzo(b/k)Fluoranthene	2,200	
07.05.2010	24.05.2010	K9	Dodecanoic acid (Lauric acid), isooctyl ester	2,400	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 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.
07.05.2010	24.05.2010 (09.06.2010)	L8	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_8 is the most common form of sulphur in the solid state, widely used in insecticide and fungicide manufacture
			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 complex 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		
13.05.2010	24.05.2010 (09.06.2010)	H9	1,2-bis(2,4,6-trichlorophenoxy)ethane	6,900	Potential Prochloraz degradation product
			Prochloraz	9,100	Fungicide
			Unidentified aromatic hydrocarbon containing Cl circa C_8	9,400	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.
			Unidentified aromatic amine containing Cl circa C_{11}	2,100	
13.05.2010	24.05.2010	I7	No SVOC peaks detected		
13.05.2010	24.05.2010 (09.06.2010)	I9	2,4-Dichloro-o-cresol	29,000	Potential herbicide degradation product
			2,3,6-Trichlorotoluene	47,000	
			1-(2-Chloroethoxy)-2-(o-Tolyloxy)-ethane	20,000	
			Unidentified aromatic alcohol containing Cl circa C_7	25,000	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.
			Unidentified aromatic hydrocarbon containing O circa C_{16-18}	12,000	
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 (09.06.2010)	K7	1,2-bis(2,4,6-trichlorophenoxy)ethane	2400.0	As for H9
05.05.2010	16.06.2010	K8	No VOC/SVOC peaks detected		
18.06.2010	29.06.2010	I8	2-methyl phenol	5,500	Encountered and assessed during site investigation, not a priority contaminant
			1,2-dichlorobenzene	3,600	Contaminant of concern, already included in 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 investigation, not a priority contaminant
			2-methylnaphthalene	3,900,000	

20.07.2010	21.07.2010	K10 NAPL	1-methylnaphthalene *CAS 90-12-0*	2,400,000	More toxic than 2-methylnaphthalene, must be assessed separately
			Dinoseb *CAS 88-85-7*	68,000,000	2-(1-methylpropyl)-4,6-dinitro- phenol - herbicide and insecticide. Yellow crystalline solid.
21.07.2010	22.07.2010	J10	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 I9
			1,2,4-Trichlorobenzene	28,000	Encountered and assessed during site investigation, not a priority contaminant
			Trichlorobenzene	32,000	
			2-Chlorotoluene	60,000	
			Trichloro toluene isomer	48,000	Same as I9
			Trichloro benzenamine isomer	11,000	Potential herbicide degradation product
			2,3-Dichlorotoluene *CAS 32768-54-0*	290,000	
21.07.2010	22.07.2010	L11	Dichloromethyl phenol	5,000	As for 2,4-Dichloro-o-cresol (I9, H7, K10, J10)
28.07.2010	02.08.2010	H10	2,4-Dichloro-o-cresol *CAS 1570-65-6*	10,000	As for I9, H7, K10, J10, L11
			Trichloro toluene isomers	58,000	Same as I9, J10
			Dichlorotoluene isomer	52,000	6 possible isomers, but very little data, using surrogate.
			2-Chlorotoluene	39,000	Encountered and assessed during site investigation, not a priority contaminant
			Trichlorobenzene	350,000	
28.07.2010	02.08.2010	I10	2,4-Dichloro-o-cresol *CAS 1570-65-6*	5,000	As for I9, H7, K10, J10, L11, H10
			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 *CAS 1570-65-6*	7,000	As for I9, H7, K10, J10, L11, H10, I10, L12
03.08.2010	04.08.2010	K13 sand & gravel	Cyclo octaatomic sulphur	68,000	As for L8, L10 - Sulphur
05.08.2010	N/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 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 Hydrocarbons (C5-C12)	43,000	Encountered and assessed during site investigation, not a priority contaminant
			1,3,5-Trimethylbenzene CAS 108-67-8	1,600	Encountered and assessed during site investigation, not a priority contaminant
			1,2,4-Trimethylbenzene CAS 95-63-6	600	
			1,2,3-Trimethylbenzene CAS 526-73-8	700	Isomers encountered and assessed during site investigation, quantitative risk assessment not required
			1-Ethyl-2-Methylbenzene CAS 611-14-3	500	Potential agrochemical synthesis ingredient - further investigation is required
25.08.2010	N/A	I13	1-methylnaphthalene CAS 90-12-0	100	Same as K10NAPL
			Phenanthrene	200	Encountered and assessed during site investigation, not a priority contaminant
			Fluoranthene	300	
			Pyrene	300	
			Benzo(b/k)Fluoranthene	200	
01.09.2010	N/A	I14	Trichloro methyl benzene (trichloro toluene)	400	Same as I9, J10, H10, I10, K13, J11
01.09.2010	N/A	I15	Dichlorocresol	2600	As for I9, H7, K10, J10, L11, H10, I10, L12, K12, K13, J11, J12
			Dichlorophenoxybutyric acid	6300	Herbicide encountered and assessed during 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	I11	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 I9, J10, H10, I10, K13, J11, I14
			Prochloraz CAS 67747-09-5	800	Same as H9
03.09.2010	N/A	I12	1-methylnaphthalene CAS 90-12-0	40,000	Same as K10NAPL, I13

			Dibenzofuran	24,000	Encountered and assessed during site investigation, not a priority contaminant
			Phenanthrene	60,000	
			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 CAS 107-61-9	220	
	N/A		Trichloro methyl benzene (trichloro toluene)	230	Same as I9, J10, H10, I10, K13, J11, I14, I11
			Dichloromethylphenol	2100	As for I9, H7, K10, J10, L11, H10, I10, L12, K12, K13, J11, J12, I15, I11
			1-(2-Chloroethoxy)-2-(o-Tolyloxy)-ethane CAS 21120-80-9	470	Same as I9, J10, K13
01.10.2010	N/A	H11	No VOC/SVOC peaks detected		
01.10.2010	05.10.2010	H12	Indane CAS 496-11-7	3700000	2-ring hydrocarbon
	N/A		Ethyltoluene (ethyl methyl benzene) isomer	4500000	As J14
			Bis methylpropyl phenol isomer	980000	As J16
			1,3,5-Trimethylbenzene	3900000	Encountered and assessed during site investigation, not a priority contaminant
			1,2,4-Trimethylbenzene	10000000	
			1,2,3-Trimethylbenzene	3100000	
22.10.2010 (216017)	25.10.2010	G12	Nicotine	6400	Natural insecticide
	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 in 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		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 investigation, not a priority contaminant
			Benzyl Chloride (1-chloro-2-methylbenzene CAS 95-49-8)	200	
			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 investigation, not a priority contaminant
			Methylpropyl phenol	22000	
			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 (216817)	30.11.2010	G15	Ethyl methyl phenol	18000	Risk Assessment
			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-methyl benzene (ethyl toluene)	600	As J14, H12
			Ethyltoluene	300	
			Isophorone	37000	Encountered and assessed during site investigation, not a priority contaminant
			Naphthalene	43000	
			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 (217789)	N/A	M7	No VOC/SVOC peaks detected		
08.11.2010 (217789)	N/A	M8	2-methyl phenol	11,000	Encountered and assessed during site investigation, not a priority contaminant
08.11.2010 (217793)	N/A	M6	No VOC/SVOC peaks detected		
08.11.2010 (217793)	N/A	N6	No VOC/SVOC peaks detected		
08.11.2010 (217795)	N/A	L5	No VOC/SVOC peaks detected		
08.11.2010 (217795)	N/A	M4	No VOC/SVOC peaks detected		

08.11.2010 (217797)	N/A	M5	No VOC/SVOC peaks detected		
08.11.2010 (217797)	N/A	N4	No VOC/SVOC peaks detected		
08.11.2010 (217797)	N/A	N5	No VOC/SVOC peaks detected		
08.11.2010 (217800)	N/A	M9	No VOC/SVOC peaks detected		
18.11.2010 (218834)	N/A	I6	No VOC/SVOC peaks detected		
23.11.2010 (219458)	N/A	L4	No VOC/SVOC peaks detected		
23.11.2010 (219456)	N/A	N3	No VOC/SVOC peaks detected		
20.01.2011 (224432)	N/A	F11	No VOC/SVOC peaks detected		
20.01.2011 (224432)	N/A	F12	No VOC/SVOC peaks detected		
20.01.2011 (224432)	24.01.2011	F13	Total Petroleum Hydrocarbons (C8-C14)	16000	Controlled Waters risk assessment required, Human Health risk assessment previously actioned
20.01.2011 (224432)	24.01.2011	E12	Total Petroleum Hydrocarbons (C8-C14)	28000	Controlled Waters risk assessment required, Human Health risk assessment previously actioned
	N/A		1-Ethyl-2-Methylbenzene (o-ethyl toluene) CAS 611-14-3	300	As J14, H12, G15
			1,2,4-Trimethylbenzene	700	Encountered and assessed during site investigation, not a priority contaminant
20.01.2011 (224432)	24.01.2011	E13	DDD	4100	Pesticide Risk Assessment Required.
	N/A		m/p ethyl toluene	1200	Encountered and assessed during site investigation, not a priority contaminants
			m-ethyl toluene:1-ethyl-3-methylbenzene, CAS 620-14-4		
			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	