Environmental Monitoring Report

Reporting Period
15/03/2010-30/04/2010

Former Bayer Crop Science Site
Hauxton
Cambridgeshire

May 2010

On behalf of:

Harrow Estates Plc

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

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

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

CONTENTS

APPENDICIES

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 15th of March 2010, when Vertase FLI mobilised to site, until the 30th of April 2010.

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 1. Week Commencing 15th March 2010

Site works commenced on 15th March 2010 with mobilisation to site. The site perimeter and security was first established. Welfare, offices and decontamination facilities were established in the compound area to the north of the site. An access to the clean area of the site was also established adjacent to the main entrance to the site. The concrete pavement to the rear of the former High Bay Warehouse (processing area) was sealed and a bund constructed to contain materials for processing. Final preparations were made to the waste water treatment plant with servicing and repairs as required.

Week 2. Week Commencing 22nd March 2010

Concrete was broken out across the first phase of excavation. The excavation was commenced for the installation of the lagoon area. (site grid references K14, K15 J15, see drawing D907_07, Appendix A) and also in the area for the main excavation (J8, J9, K8 and K9, see drawing D907_07, Appendix A). An odour control system was established around the area of the excavation with mobile units located within the processing area. Cemented (white) asbestos contaminated soils generated by the demolition of an out building (occurred in 2008) located in the garden areas of the former houses on Church Road, were quarantined for disposal later.

Week 3. Week Commencing 29th March 2010

The excavation for the lagoon area continued with lightly impacted shallow made ground and gravels being removed and screened before placement in treatment beds. Concrete piles were broken out and excavated in the lagoon area. Fragmentation of concrete, using a muncher commenced to facilitate subsequent crushing. Former garden areas to the south of the site were re-validated with the revised testing suite, including GCMS scans. Excavation encountered more odourous materials with higher VOC content within the lagoon area excavation. Screening continued within the High Bay Warehouse area to the south of site.

Week 4. Week Commencing 5th April 2010

Water treatment plant was changed to recirculation mode to allow for the recirculation of water pumped from excavations with testing before discharge. Excavation continued and was

completed in the lagoon area and a further excavation commenced to the north of the site to become the main excavation. Made Ground and shallow materials in this area (K9 to K13) were removed and found to be significantly more odourous than materials from the lagoon area and were processed before placement in treatment beds.

Week 5. Week Commencing 12th April 2010

On receipt of the water monitoring analysis for the waste water treatment plant the water was seen to be within consent and discharge commenced 14th April 2010. Lagoons were lined and brought into commission. Main excavation progressed deeper to a depth of approximately 3.7m below ground level, the top of the Gault Clay. Minor water seepages with visible contamination was encountered. Screening of material continued and an additional screening bucket mobilised to help break up clays and cohesive materials. Very little granular material encountered. Water treatment system continued to operate below capacity with all backlog from recirculation now discharged.

Week 6. Week Commencing 19th April 2010

Odour control systems were expanded to cover the entire perimeter of the site to deal with the odorous nature of the impacted material being excavated. Excavation and screening/processing continued.

Week 7. Week Commencing 26th April 2010

Excavations continued and extended to the south to a depth of approximately 4.5m (coincidental with the top of the Gault Clay). Continued collection of small quantities of effluent/water released from pockets in the West Melbury Mary Chalk Formation (WMMCF) collecting in the base of the excavation. No groundwater ingress other than from a shallow gravel horizon. Material was excavated slowly and stockpiled within the excavation to control the release of VOC's before movement to the processing area. Initial testing results from the off site Air monitoring (ATD) tubes are received and forwarded to South Cambridgeshire District Council for information and feedback from SCDC and the Health Protection Agency.

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 form 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.

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. The odour controlling solutions used in the misting and telescopic fan systems vary in fragrance from melon, to pine, to bubblegum.

Site generated odours were observed during the monitoring rounds beyond the site boundary on:

- 23/03/10 (15:10): Very faint odour control fragrance noted to the south, southeast and west of the site.
- 06/04/10 (15:20): Faint hydrocarbon odour noted to the north of the site.
- 12/04/10 (09:35): Very faint odour control fragrance noted to the west of the site.
- 14/04/10 (10:00): Faint odour control fragrance noted to the southwest and west of the site.
- 19/04/10 (17:00): Faint pesticide and diesel odour detected to the southwest of the site, odour control fragrance noted to the northwest of the site.
- 20/04/10 (08:15): Very faint odour detected to the southeast of the site, and again at 15:25 a very faint indescribable odour noted to the south of the site.

- 21/04/10 (10:23): Strong odour control fragrance noted to the southwest and west of the site.
- 22/04/10 (12:15): Moderate odour control fragrance noted to the southwest and a very faint odour control fragrance noted to the west of the site.
- 23/04/10 (09:35): Faint odour control fragrance noted beyond north eastern boundary, at 10:10 a very faint odour control odour noted to the northwest, at 11:25 a very faint odour control odour fragrance noted to the west which was also noted again at 17:05.
- 26/04/10 (17:07): Moderate odour control fragrance to the northeast.
- 28/04/10 (11:20): Faint odour control fragrance noted to the north of the site, at 16:00 faint odours generated from excavations on site were noted at the northern monitoring location, at 16:40 faint odour control was noted at the northwest monitoring location.
- 30/04/10 (from 09:15-09:45) very faint odour control fragrance noted from the northeast monitoring location through to the southeast monitoring location. The strength and influence of the odour control fragrance was maintained through the afternoon and was noted at the above location again from 15:35 to 15:50.

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. During the reported period no VOC's, were detected by the PID (Limit of detection of 0.1ppm).

Long term passive VOC monitoring is carried out at eight compass point locations around the site boundary, in the public accessible areas. A further monitoring location is located within the centre of the waste water treatment works.

Baseline VOC data was sampled for a 28 day period from the 18th February to the 18th March, the monitoring continued for the next 28 day period (18th March to 15th April) as works on site commenced. The laboratory analysis for all the passive VOC monitoring is presented in Appendix C.

Where possible results have been compared to UK air quality standards and World Health Organisations recommendations by the Health Protection Agency, they have concluded that there is unlikely to be any toxicological hazard to people off site (email to SCDC date 30th April 2010). The VOC's identified on the sampling media over the monthly periods are a mixture of traffic exhaust related compounds, site related compounds, odour controlling compound, and other general background compounds.

Due to the variety of the VOC's identified around the site detailed examination and comparison is difficult at this stage, but comparing the compounds that occur in both sets of results illustrates the actual volumes present in air are similar in both the baseline and primary set of results, therefore a significant increase from baseline data to initial sets of results is not evident.

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).

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 dust reading around the site is 127ug/m3, where a potential for dust has been observed on site dust suppression methods have been deployed immediately to reduce the generation of site dust and all haul routes are continually wetted to prevent dust release.

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

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

Between 19/03/2010 to 01/04/2010 (6 locations monitored) the maximum dust deposition rate was 1.31 %EAC at the north, north eastern 1, north eastern 2 and western monitoring locations.

The third set of directional dust deposition results monitored during the initial excavation works between the 01/04/2010 to 13/04/2010 recorded a maximum dust deposition rate of 2% EAC at the western monitoring location. All other locations had a maximum dust deposition rate of 1.58%EAC.

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 complaints or 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 noise levels are consistently at an acceptable low background level. The only exceedance's of the 80dB threshold as stipulated in the Environmental Permit deployment document has been caused by excessive off site traffic along the A10. 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 was present around the majority of the boundaries during the site set up in March, the litter was collected and disposed of by site personnel. Litter is generally low off site, and is well managed on site, by all site personnel. All recordings of the presence of litter are noted in the Environmental Monitoring Data spreadsheet in Appendix B.

4.0 Surface and Ground Water Condition

4.1. Surface Water Monitoring

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

The water level within the Riddy Brook is monitored and recorded on a daily basis at a minimum of two locations, footbridge adjacent to Mill House (Riddy 1) and the most southerly footbridge over the Riddy Brook, adjacent to the eastern corner of the site (Riddy 4). Two further locations are also monitored, Riddy 2 at the footbridge over the Riddy Brook approximately 150m southeast of Mill House and the former fire exit bridge (Riddy 3), 210m southeast of Mill House. All the water level data is recorded in the main groundwater level data sheet in Appendix E.

During the monitoring period there have not been any significant rises or falls in Riddy Brook water levels and there has been a constant flow throughout its length.

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 at the end of February and end of March 2010 are presented in Appendix F.

The surface water analysis for February 2010 shows traces of the contaminants of concern (Ethofumesate, Cis-1,2-Dichloroethylene, Tetrachloroehtylene and Trichloroethylene) in the downstream sample taken from the Riddy Brook. Contaminants of concern were not detected in any of the other surface water samples taken for February. The traces of the COC's present in the downstream sample taken from the Riddy Brook are consistent with baseline water quality data monitored in August 2008, previously issued to the Environment Agency.

The surface water samples taken at the end of March (2010), have contaminants of concern traces similar to the previous months analysis, in the downstream sample taken from the Riddy Brook. However Tetrachloroethylene is present at trace levels (<3 µg/l) in both upstream and downstream Riddy Brook and River Cam samples. These trace levels of Tetrachloroethylene were present in the baseline data collected during the summer of 2008.

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 western 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 thin sand and gravel bands have also produced some limited quantities of water, which have tended to dry up within 24hrs.

The groundwater levels measured at locations around the are show in drawing D907_31E, in appendix A. The groundwater levels are presented in Appendix E.

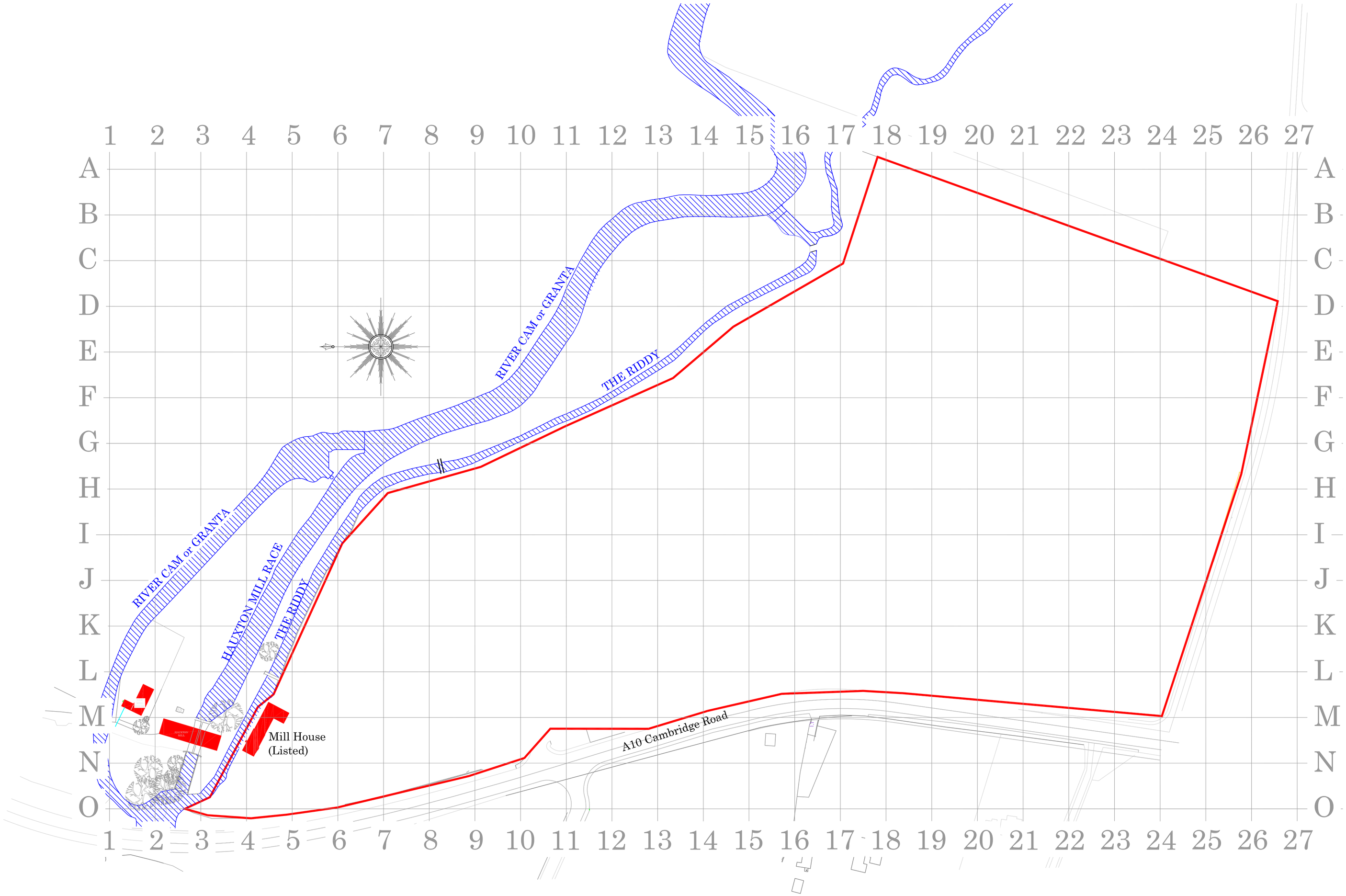
Groundwater contour plots are drawn up on a weekly basis to interpret the potential movement of the water beneath the site. Contour plots D907_67, D907_69 through to D907_72 (Appendix G) illustrate the weekly groundwater levels for the reported period.

The five contour plots constructed (Appendix G) illustrate that there has been very little change in groundwater levels during the initial phase of works, the contour plots are very similar in pattern and actual measured values to the baseline data established throughout 2008 and 2009. The remediation works are not having a significant impact on the groundwater levels across the site, and therefore the groundwater has remained in a relatively static condition during the initial phase of excavations on site.

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

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@vertaseffli.co.uk
www.vertaseffli.com

Site Address:

Bayer Site
Hauxton
Cambridge

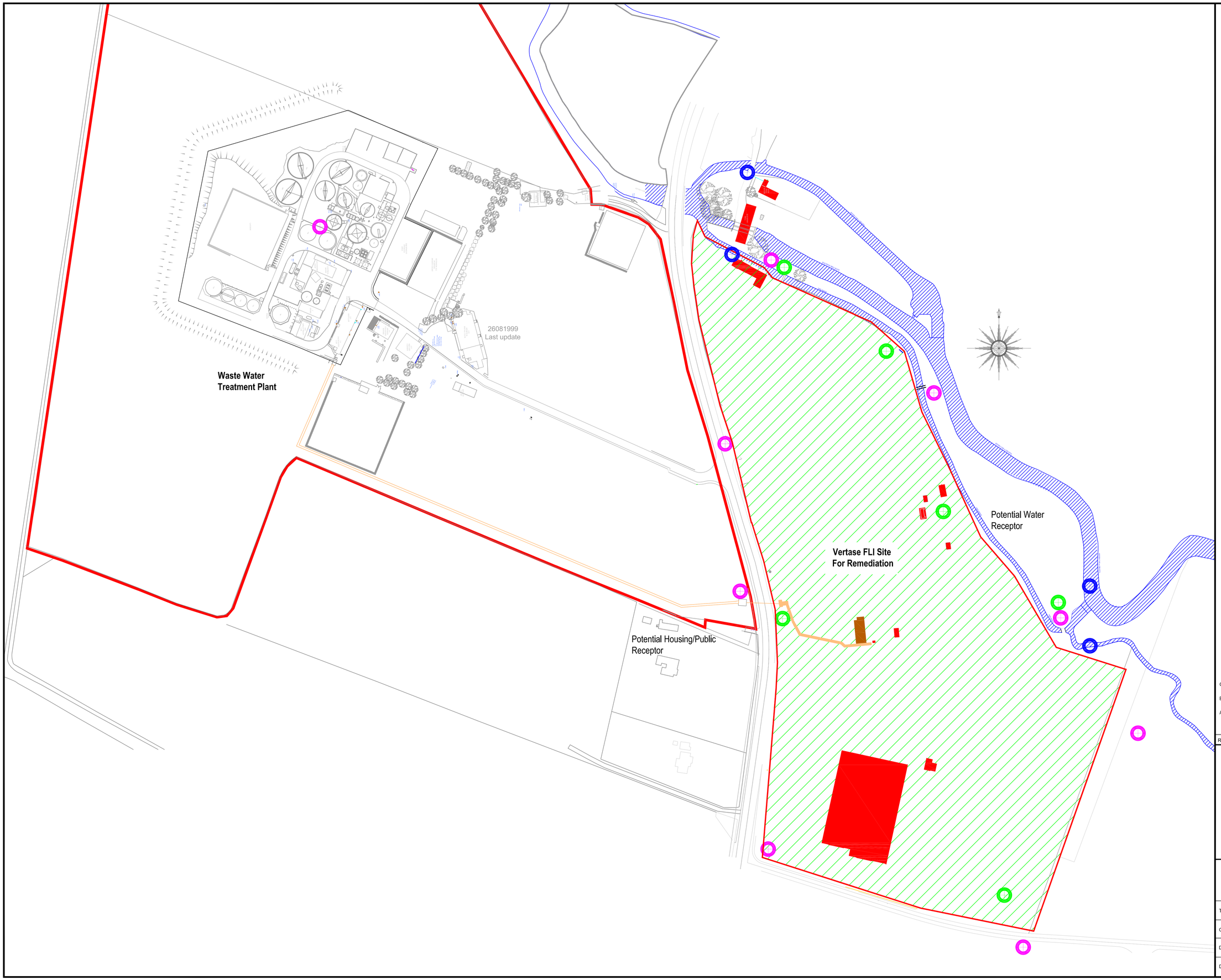
Rev:

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

- 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

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@vertaseffi.co.uk
www.vertaseffi.com

Site Address:
Bayer Site
Hauxton
Cambridge

Rev: C

Title: Environmental Monitoring Plan

Client: Harrow Estates

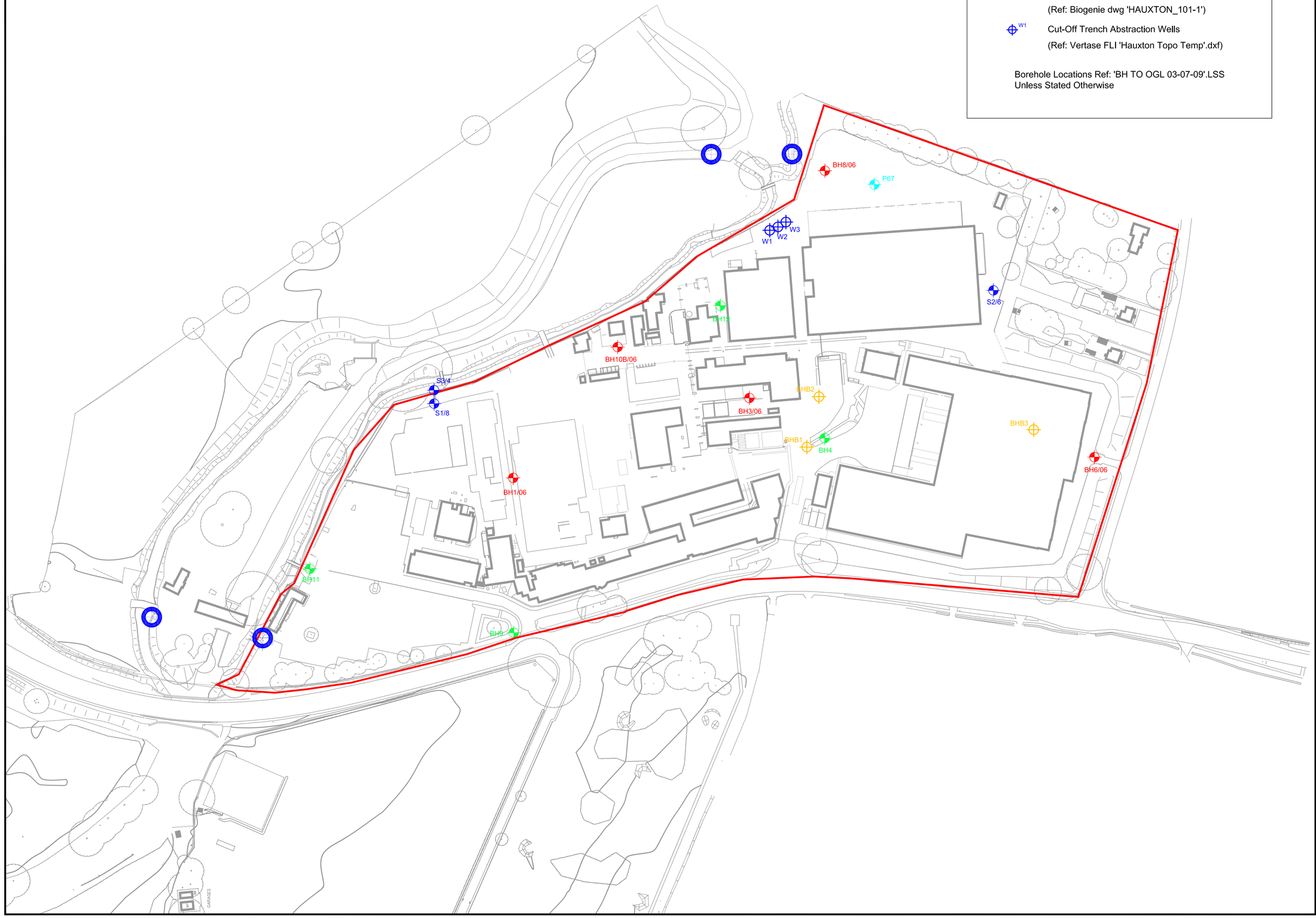
Drawn: JWH	Checked: MA	Approved: MA
Dwg: D907_33	Contract: 907BRI	Scale: 1:1250

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

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: E

Title: Retained Boreholes for Monitoring & Reference

Client: Harrow Estates

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

Appendix B

Environmental Monitoring Data

						ODOUR								DUST	NOISE	LITTER		RIDDY BROOK				METEOROLOGICAL AND ENVIRONMENTAL CONDITIONS						
Assesor	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)	Max Reading (µg/m3)	Average (dBa)	Present (Description)	Materials attracting scavengers	Inspection	Water Level (Refere to Groundwater level data sheet)	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	22/03/2010	Breaking out concrete - spoil mound being moved from front of site	N	15.55	16.05	N	1	No odour	0	1	1	0	116	71.9	Yes	No	Clear		None	Some litter picking	3	SW	15	Showers	7	Dry	Litter in hedgerow not off the site but needs clearing. Informed MA.
T Walker	22/03/2010	Breaking out concrete - spoil mound being moved from front of site	NE	16.05	16.10	N	1	No odour	0	1	1	0	68.9	64.2	No	No	Clear		None	No							
T Walker	22/03/2010	Breaking out concrete - spoil mound being moved from front of site	NE1	16.10	16.15								99.1				Clear		None	No							
T Walker	22/03/2010	Breaking out concrete - spoil mound being moved from front of site	E	16.15	16.20	N	1	No odour	0	1	1	0	151.4	48.1	No	No	Clear		None	No							
T Walker	22/03/2010	Breaking out concrete - spoil mound being moved from front of site	SE	15.20	15.30	N	1	No odour	0	3	1	0		75.1	No	No			None	No							
T Walker	22/03/2010	Breaking out concrete - spoil mound being moved from front of site	S	15.30	15.40	N	1	No odour	0	2	1	0	99.9	78.8	No	No			None	No							
T Walker	22/03/2010	Breaking out concrete - spoil mound being moved from front of site	SW	15.40	15.45	N	1	No odour	0	1	1	0		86.8	Yes	No			None	Some litter picking							
T Walker	22/03/2010	Breaking out concrete - spoil mound being moved from front of site	W	15.45	15.50	N	1	No odour	0	3	1	0	209.9	87.9	No	No			None	No							
T Walker	22/03/2010	Breaking out concrete - spoil mound being moved from front of site	NW	15.50	15.55	N	1	No odour	0	3	1	0		73.6	No	No			None	No							
T Walker	23/03/2010	Breaking out concrete for lagoons	N	15.40	15.45	N	1	No odour	0	1	1	0	76.1	54.1	Yes	No	Clear		None	No	3	SW	14	Dry	8	Dry	Odour control dispersing melon fragrance at west location where lagoon construction is going on
T Walker	23/03/2010	Breaking out concrete for lagoons	NE	15.45	15.50	N	1	No odour	0	1	1	0	67.1	47.4	No	No	Clear		None	No							
T Walker	23/03/2010	Breaking out concrete for lagoons	NE1	15.50	15.55								47.4				Clear		None	No							
T Walker	23/03/2010	Breaking out concrete for lagoons	E	15.55	16.00	N	1	No odour	0	1	1	0	28.1	47.1	No	No	Clear		None	No							
T Walker	23/03/2010	Breaking out concrete for lagoons	SE	16.00	16.05	Y	2	Melon (slight)	1	3	5	0		56.4	No	No			None	No							
T Walker	23/03/2010	Breaking out concrete for lagoons	S	15.10	15.15	Y	2	Melon	1	2	5	0	110.2	70.7	No	No			None	No							
T Walker	23/03/2010	Breaking out concrete for lagoons	SW	15.15	15.20	N	1	No odour	0	1	1	0		55.2	Yes	No			None	No							
T Walker	23/03/2010	Breaking out concrete for lagoons	W	15.20	15.25	Y	2	Melon	0	3	5	0	804.1	67.1	No	No			None	No							
T Walker	23/03/2010	Breaking out concrete for lagoons	NW	15.25	15.30	N	1	No odour	0	3	1	0		58.1	No	No			None	No							
T Walker	24/03/2010	Breaking out of J7/K7 and lagoon area	N	12.15	12.20	N	1	No odour	0	1	1	0	295	69.8	Yes	No	Clear		None	Litter picking	2	SW	14	Showers	4	Dry	
T Walker	24/03/2010	Breaking out of J7/K7 and lagoon area	NE	12.20	12.25	N	1	No odour	0	1	1	0	92.7	66.8	No	No	Clear		None	No							
T Walker	24/03/2010	Breaking out of J7/K7 and lagoon area	NE1	12.25	12.63								163.2				Clear		None	No							
T Walker	24/03/2010	Breaking out of J7/K7 and lagoon area	E	12.30	12.35	N	1	No odour	0	1	1	0	155.8	45.2	No	No	Clear		None	No							
T Walker	24/03/2010	Breaking out of J7/K7 and lagoon area	SE	12.35	12.40	N	1	No odour	0	1	1	0		47.1	No	No			None	No							
T Walker	24/03/2010	Breaking out of J7/K7 and lagoon area	S	11.55	12.00	N	1	No odour	0	3	1	0	115.6	54.7	No	No			None	No							
T Walker	24/03/2010	Breaking out of J7/K7 and lagoon area	SW	12.00	12.05	N	1	No odour	0	1	1	0		68.9	No	No			None	No							
T Walker	24/03/2010	Breaking out of J7/K7 and lagoon area	W	12.05	12.10	N	1	No odour	0	1	1	0	157.7	85.4	Yes	No			None	Litter picking							
T Walker	24/03/2010	Breaking out of J7/K7 and lagoon area	NW	12.10	12.15	N	1	No odour	0	2	1	0		74.4	Yes	No			None	Litter picking							
T Walker	24/03/2010	Breaking out at northern end of site and lagoon area	N	16.15	16.20	N	1	No odour	0	1	1	0	37.1	76.1	Yes	No	Clear		None	Litter picking	2	SW	17	Dry	2	Dry	Noise was over 86dBa between N and NW but under at both location points
T Walker	24/03/2010	Breaking out at northern end of site and lagoon area	NE	16.20	16.25	N	1	No odour	0	1	1	0	49.1	58.2	No	No	Clear		None	No							
T Walker	24/03/2010	Breaking out at northern end of site and lagoon area	NE1	16.25	16.30								85.1				Clear		None	No							
T Walker	24/03/2010	Breaking out at northern end of site and lagoon area	E	16.30	16.35	N	1	No odour	0	1	1	0	58.4	47.1	No	No	Clear		None	No							
T Walker	24/03/2010	Breaking out at northern end of site and lagoon area	SE	16.35	16.40	N	1	No odour	0	1	1	0		43.1	No	No			None	No							
T Walker	24/03/2010	Breaking out at northern end of site and lagoon area	S	15.45	15.50	N	1	No odour	0	3	1	0	36.4	57.1	No	No			None	No							
T Walker	24/03/2010	Breaking out at northern end of site and lagoon area	SW	15.50	15.55	N	1	No odour	0	3	1	0		58.7	No	No			None	No							
T Walker	24/03/2010	Breaking out at northern end of site and lagoon area	W	16.00	16.05	N	1	No odour	0	2	1	0	115.3	71.1	Yes	No			None	Litter picking							
T Walker	24/03/2010	Breaking out at northern end of site and lagoon area	NW	16.10	16.15	N	1	No odour	0	1	1	0		77.4	Yes	No			None	Litter picking							
T Walker	25/03/2010	Concrete clearing and screening of material from lagoon area	N	11.20	11.25	N	1	No odour	0	1	1	0	42.8	44.4	Yes	No	Clear		None	Litter picking	2	W	14	Showers/dr	8	Damp	
T Walker	25/03/2010	Concrete clearing and screening of material from lagoon area	NE	11.25	11.30	N	1	No odour	0	1	1	0	67.1	45.5	No	No	Clear		None	No							
T Walker	25/03/2010	Concrete clearing and screening of material from lagoon area	NE1	11.30	11.35								41.9				Clear		None	No							
T Walker	25/03/2010	Concrete clearing and screening of material from lagoon area	E	11.40	11.45	N	1	No odour	0	1	1	0	37.4	38.1	No	No	Clear		None	No							
T Walker	25/03/2010	Concrete clearing and screening of material from lagoon area	SE	11.45	11.50	N	1	No odour	0	1	1	0		37.9	No	No			None	No							
T Walker	25/03/2010	Concrete clearing and screening of material from lagoon area	S	11.00	11.05	N	1	No odour	0	2	1	0	41.7	48.4	No	No			None	No							
T Walker	25/03/2010	Concrete clearing and screening of material from lagoon area	SW	11.05	11.10	N	1	No odour	0	3	1	0		57.4	No	No			None	No							
T Walker	25/03/2010	Concrete clearing and screening of material from lagoon area	W	11.10	11.15	N	1	No odour	0	2	1	0	71.4	69.1	Yes	No			None	Litter picking							
T Walker	25/03/2010	Concrete clearing and screening of material from lagoon area	NW	11.15	11.20	N	1	No odour	0	1	1	0		71.4	Yes	No			None	Litter picking							
T Walker	25/03/2010	Breaking out lagoon area and moving stockpiles	N	15.20	15.25	N	1	No odour	0	1	1	0	83.1	39.1	Yes	No	Clear		None	Litter picking	2	SE	14	Rain	8	Wet	
T Walker	25/03/2010	Breaking out lagoon area and moving stockpiles	NE	15.25	15.30	N	1	No odour	0	1	1	0	76.4	41.1	No	No	Clear		None	No							
T Walker	25/03/2010	Breaking out lagoon area and moving stockpiles	NE1	15.25	15.30								67.1				Clear		None	No							
T Walker	25/03/2010	Breaking out lagoon area and moving stockpiles	E	15.30	15.35	N	1	No odour	0	1	1	0	57.1	36.6	No	No	Clear		None	No							
T Walker	25/03/2010	Breaking out lagoon area and moving stockpiles	SE	15.35	15.40	N	1	No odour	0	1	1	0		41.7	No	No			None	No							
T Walker	25/03/2010	Breaking out lagoon area and moving stockpiles	S	15.00	15.05	N	1	No odour	0	2	1	0	76.4	53.3	No	No			None	No							
T Walker	25/03/2010	Breaking out lagoon area and moving stockpiles	SW	15.05	15.10	N	1	No odour	0	3	1	0		64.1	No	No			None	No							
T Walker	25/03/2010	Breaking out lagoon area and moving stockpiles	W	15.10	15.15	N	1	No odour	0	3	1	0	67.1	71.2	Yes	No			None	Litter picking							
T Walker	25/03/2010	Breaking out lagoon area and moving stockpiles	NW	15.15	15.20	N	1	No odour	0	2	1	0		74.4	Yes	No			None	Litter picking							
D Luscombe	26/03/2010	Breaking concrete in north and west of site	N	10.26	10.30	N	1	No odour	0	1	1	0	68.4	40.5	No	No	Clear		None		2	S/SW	14	Overcast	6	Dry	
D Luscombe	26/03/2010	Breaking concrete in north and west of site	NE	10.32	10.35	N	1	No odour	0	1	1	0	78.9	42.6	No	No	Clear		None								
D Luscombe	26/03/2010	Breaking concrete in north and west of site	NE1	10.35	10.40								76.3				Clear		None								
D Luscombe	26/03/2010	Breaking concrete in north and west of site	E	10.41	10.45	N	1	No odour	0	1	1	0	58.2	44.1	No	No	Clear		None								
D Luscombe	26/03/2010	Breaking concrete in north and west of site	SE	10.48	10.53	N	1	No odour	0	1	1	0		43.5	No	No			None								
D Luscombe	26/03/2010	Breaking concrete in north and west of site	S	10.00	10.05	N	1	No odour	0	2	1	0	79.2	49.9	No	No			None								
D Luscombe	26/03/2010	Breaking concrete in north and west of site	SW	10.05	10.10	N	1	No odour	0	3	1	0		78.2	No	No			None								
D Luscombe	26/03/2010	Breaking concrete in north and west of site	W	10.15	10.20	N	1	No odour	0	3	1	0	108.5	75	No	No			None								
D Luscombe	26/03/2010	Breaking concrete in north and west of site	NW	10.20	10.25	N	1	No odour	0	2	1	0		74.8	No	No			None								
D Luscombe	26/03/2010	Breaking out lagoon area and concrete in north and west of site	N	15.26	15.29	N	1	No odour	0	1	1	0	152.1	67.9	No	No	Clear		None		3	SW	16	Overcast	6	Dry	Slight odour being generated where concrete is being broken out, but not detectable off site. Odour supression added along northwestern boundary to mitigate.
D Luscombe	26/03/2010	Breaking out lagoon area and concrete in north and west of site	NE	15.31	15.35	N	1	No odour	0	1	1	0	73.8	63	No	No	Clear		None								
D Luscombe	26/03/2010	Breaking out lagoon area and concrete in north and west of site	NE1	15.37	15.40								98.1				Clear		None								
D Luscombe	26/03/2010	Breaking out lagoon area and concrete in north and west of site	E	15.41	15.45	N	1	No odour	0	1	1	0	198.3	68.8	No	No	Clear		None								
D Luscombe	26/03/2010	Breaking out lagoon area and concrete in north and west of site	SE	15.50	15.45	N	1	No odour	0	1	1	0		39.9	No	No			None								
D Luscombe	26/03/2010	Breaking out lagoon area and concrete in north and west of site	S	14.55	15.00	N	1	No odour	0	2	1	0	43.8	47.1	No	No			None								
D Luscombe	26/03/2010	Breaking out lagoon area and concrete in north and west of site	SW	15.05	15.10	N	1	No odour	0	3	1	0		72.5	No	No			None								
D Luscombe	26/03/2010	Breaking out lagoon area and concrete in north and west of site	W	15.14	15.18	N	1	No odour	0	2	1	0	93.3	70.8	No	No			None								
D Luscombe	26/03/2010	Breaking out lagoon area and concrete in north and west of site	NW	15.20	15.25	N	1	No odour	0	1	1	0		73.5	No	No			None								
T Walker	29/03/2010	Breaking out lagoon area	N	9.20	9.35	N	1	No odour	0	1	1	0	76.4	44.8	Yes	No	Clear		None	No	2	SW	7	Wet	8	Wet	
T Walker	29/03/2010	Breaking out lagoon area	NE	9.35	9.40	N	1	No odour	0	1	1	0	49.4	57.6	No	No	Clear		None	No							
T Walker	29/03/2010	Breaking out lagoon area	NE1	9.40	9.45								98.1				Clear		None	No							
T Walker	29/03/2010	Breaking out lagoon area	E	9.45	9.50	N	1	No odour	0	1	1	0	104.6	55.9	No	No	Clear		None	No							
T Walker	29/03/2010	Breaking out lagoon area	SE	9.50	9.55	N	1	No odour	0	1	1	0		47.6	No	No			None	No							
T Walker	29/03/2010	Breaking out lagoon area	S	9.05	9.10	N	1	No odour	0	3	1	0	87.1	56.4	No	No			None	No							
T Walker	29/03/2010	Breaking out lagoon area	SW	9.10	9.15	N	1	No odour	0	3	1	0		69.1	Yes	No			None	No							
T Walker	29/03/2010	Breaking out lagoon area	W	9.20	9.25	N	1	No odour	0	3	1	0	76.1	72.1	Yes	No			None	No							
T Walker	29/03/2010	Breaking out lagoon area	NW	9.25	9.30	N	1	No odour	0	2	1	0		64.4	Yes	No			None	No							
T Walker	29/03/2010	Lagoon area	N	14.20	14.25	N	1	No odour	0	1	1	0	68.8	54.1	No	No	Clear		None	No	2	SW	9	Showers	8	Dry	
T Walker	29/03/2010	Lagoon area	NE	14.15	14.20	N	1	No odour	0	1	1	0	14.7	55.1	No	No	Clear		None	No							
T Walker	29/03/2010	Lagoon area	NE1	14.20	14.25								20.1				Clear		None	No							
T Walker	29/03/2010	Lagoon area	E	14.25	14.30	N	1	No odour	0	1	1	0	101.4	44	No	No	Clear		None	No							
T Walker	29/03/2010	Lagoon area	SE	14.30	14.35	N	1	No odour	0	1	1	0		48.1	No	No			None	No							
T Walker	29/03/2010	Lagoon area	S	14.00	14.05	N	1	No odour	0	1	1	0	172	55.7	No	No			None	No							
T Walker	29/03/2010	Lagoon area	SW	14.05	14.10	N	1	No odour	0	3	1	0		74.3	No	No			None	No							
T Walker	29/03/2010	Lagoon area	W	14.10	14.15	N	1	No odour	0	3	1	0	202.2	64.8	No	No			None	No							
T Walker	29/03/2010	Lagoon area	NW	14.15	14.20	N	1	No odour	0	2	1	0		75.2	No	No			None	No							
I Stephenson	30/03/2010	Lagoon area	N	9.30	9.35	N	0	No odour	0	1	1	0	50.3	54	No	No	Clear		None	No	2			Rain	8	Wet	
I Stephenson	30/03/2010	Lagoon area	NE	9.35	9.40	N	0	No odour	0	1	1	0	39.4	55.5	No	No	Clear		None	No							
I Stephenson	30/03/2010	Lagoon area	NE1	9.40	9.45								15.6				Clear		None	No							
I Stephenson	30/03/2010	Lagoon area	E	9.45	9.50	N	0	No odour	0	1	1	0	17.8	55.7	No	No	Clear		None	No							
I Stephenson	30/03/2010	Lagoon area	SE	9.50	9.55	N	0	No odour	0	1	1	0	73.4	75	No	No			None	No							
I Stephenson	30/03/2010	Lagoon area	S	9.55	10.00	N	0	No odour	0	1	1	0	126.2	56.6	No	No			None	No							
I Stephenson	30/03/2010	Lagoon area	SW	10.00	10.05	N	0	No odour	0	3	1	0		31.7	No	No			None	No							
I Stephenson	30/03/2010	Lagoon area	W	10.05	10.10	N	0	No odour	0	3	1	0	226	76	No	No			None	No							
I Stephenson	30/03/2010	Lagoon area	NW	10.10	10.15	N	0	No odour	0	2	1	0		75.2	No	No			None	No							
I Stephenson	30/03/2010	Lagoon area	N	15.30	15.35	N	1	No odour	0	1	1	0	118.9	64.8	No	No	Clear	2.18	None	No	4	S		Wet	7	Wet	
I Stephenson	30/03/2010	Lagoon area	NE	15.35	15.40	N	1	No odour	0	1	1	0	94.6	63.2	No	No	Clear	1.79	None	No							
I Stephenson	30/03/2010	Lagoon area	NE1	15.40	15.45								47.5				Clear		None	No							
I Stephenson	30/03/2010	Lagoon area	E	15.45	15.50	N	1	No odour	0	1	1	0	128.4	70.4	No	No	Clear	1.95	None	No							
I Stephenson	30/03/2010	Lagoon area	SE	15.50	15.55	N	1	No odour	0	1	1	0		68.2	No	No			None	No							
I Stephenson	30/03/2010	Lagoon area	S	15.55	16.00	N	1	No odour	0	1	1	0	268	65	No	No			None	No							

I Stephenson	30/03/2010	Lagoon area	SW	16.00	16.05	N	1	No odour	0	3	1	0		71	No	No			None	No								
I Stephenson	30/03/2010	Lagoon area	W	16.05	16.10	N	1	No odour	0	3	1	0	175.2	76	No	No			None	No								
I Stephenson	30/03/2010	Lagoon area	NW	16.10	16.15	N	1	No odour	0	2	1	0		73	No	No			None	No								
I Stephenson	31/03/2010	Lagoon area	N	11.00	11.05	N	1	No odour	0	1	1	0	0	59	No	No	Clear		None	No	2	S		Cloudy	8	Wet		
I Stephenson	31/03/2010	Lagoon area	NE	11.05	11.10	N	1	No odour	0	1	1	0	0.1	63.9	No	No	Clear		None	No								
I Stephenson	31/03/2010	Lagoon area	NE1	11.10	11.15								0				Clear		None	No								
I Stephenson	31/03/2010	Lagoon area	E	11.15	11.20	N	1	No odour	0	1	1	0	0.1	48.2	No	No	Clear		None	No								
I Stephenson	31/03/2010	Lagoon area	SE	11.20	11.25	N	1	No odour	0	1	1	0		55.5	No	No			None	No								
I Stephenson	31/03/2010	Lagoon area	S	11.25	11.30	N	1	No odour	0	1	1	0	0	71	No	No			None	No								
I Stephenson	31/03/2010	Lagoon area	SW	11.30	11.35	N	1	No odour	0	3	1	0		74.9	No	No			None	No								
I Stephenson	31/03/2010	Lagoon area	W	11.35	11.40	N	1	No odour	0	3	1	0	0	77.8	No	No			None	No								
I Stephenson	31/03/2010	Lagoon area	NW	11.40	11.45	N	1	No odour	0	2	1	0		73	No	No			None	No								
I Stephenson	31/03/2010	Lagoon area	N	17.15	17.20	N	1	No odour	0	1	1	0	88.4	60.8	No	No	Clear		None	No		W	6.5	Dry	8	Wet	Wind speed 12.7mph	
I Stephenson	31/03/2010	Lagoon area	NE	17.20	17.25	N	1	No odour	0	1	1	0	43.3	66.6	No	No	Clear		None	No								
I Stephenson	31/03/2010	Lagoon area	NE1	17.25	17.30								102.1				Clear		None	No								
I Stephenson	31/03/2010	Lagoon area	E	17.35	17.40	N	1	No odour	0	1	1	0	89.8	68.5	No	No	Clear		None	No								
I Stephenson	31/03/2010	Lagoon area	SE	16.45	16.50	N	1	No odour	0	1	1	0		68.5	No	No			None	No								
I Stephenson	31/03/2010	Lagoon area	S	16.50	16.55	N	1	No odour	0	1	1	0	23.2	70.3	No	No			None	No								
I Stephenson	31/03/2010	Lagoon area	SW	17.00	17.05	N	1	No odour	0	3	1	0		75.8	No	No			None	No								
I Stephenson	31/03/2010	Lagoon area	W	17.05	17.10	N	1	No odour	0	3	1	0	217.7	79.8	No	No			None	No								
I Stephenson	31/03/2010	Lagoon area	NW	17.10	17.15	N	1	No odour	0	2	1	0		74.8	No	No			None	No								
I Stephenson	01/04/2010	Lagoon area am	N	10.40	10.45	n	1	No odour	0	1	1	0	47.3	58.8	No	No	Clear		None	No	8.7mph	WSW	11.6	Sun	0	Damp		
I Stephenson	01/04/2010	Lagoon area am	NE	10.45	10.50	n	1	No odour	0	1	1	0	20.9	58.4	No	No	Clear		None	No								
I Stephenson	01/04/2010	Lagoon area am	NE1	10.50	10.55								47.4				Clear		None	No								
I Stephenson	01/04/2010	Lagoon area am	E	10.55	11.00	n	1	No odour	0	1	1	0	100.5	57.8	No	No	Clear		None	No								
I Stephenson	01/04/2010	Lagoon area am	SE	11.00	11.05	n	1	No odour	0	1	1	0		41.9	No	No			None	No								
I Stephenson	01/04/2010	Lagoon area am	S	10.20	10.25	n	1	No odour	0	1	1	0	54.2	61	No	No			None	No								
I Stephenson	01/04/2010	Lagoon area am	SW	10.23	10.28	n	1	No odour	0	3	1	0		69.9	No	No			None	No								
I Stephenson	01/04/2010	Lagoon area am	W	10.30	10.35	n	1	No odour	0	3	1	0	92.9	71.8	No	No			None	No								
I Stephenson	01/04/2010	Lagoon area am	NW	10.35	10.40	n	1	No odour	0	2	1	0		72.1	No	No			None	No								
I Stephenson	01/04/2010	Lagoon area pm	N	16.10	16.15	n	1	No odour	0	1	1	0	8.3	33.6	No	No	Clear		None	No				rain	8	wet		
I Stephenson	01/04/2010	Lagoon area pm	NE	16.15	16.20	n	1	No odour	0	1	1	0	29.1	54.5	No	No	Clear		None	No								
I Stephenson	01/04/2010	Lagoon area pm	NE1	16.20	16.25								162.4				Clear		None	No								
I Stephenson	01/04/2010	Lagoon area pm	E	16.25	16.30	n	1	no odour	0	1	1	0	10.8	54.6	No	No	Clear		None	No								
I Stephenson	01/04/2010	Lagoon area pm	SE	16.35	16.45	n	1	no odour	0	1	1	0		61.5	No	No			None	No								
I Stephenson	01/04/2010	Lagoon area pm	S	16.45	16.50	n	1	no odour	0	1	1	0	32.7	70.7	No	No			None	No								
I Stephenson	01/04/2010	Lagoon area pm	SW	16.52	16.57	n	1	no odour	0	3	1	0		74.3	No	No			None	No								
I Stephenson	01/04/2010	Lagoon area pm	W	17.00	17.05	n	1	no odour	0	3	1	0	13.4	73.4	No	No			None	No								
I Stephenson	01/04/2010	Lagoon area pm	NW	17.06	17.11	n	1	no odour	0	2	1	0		73.8	No	No			None	No								
I Stephenson	06/04/2010	Lagoon area am	N	8.00	8.05	n	1	No odour	0	1	1	0	219.7	64.1	No	No	Clear		None	No	10.2mph	SE	8.9	sun	0	Dry		
I Stephenson	06/04/2010	Lagoon area am	NE	8.05	8.10	n	1	No odour	0	1	1	0	16.8	67.8	No	No	Clear		None	No								
I Stephenson	06/04/2010	Lagoon area am	NE1	8.10	8.15								139.3				Clear		None	No								
I Stephenson	06/04/2010	Lagoon area am	E	8.15	8.20	n	1	no odour	0	1	1	0	112.7	59	No	No	Clear		None	No								
I Stephenson	06/04/2010	Lagoon area am	SE	8.20	8.25	n	1	no odour	0	1	1	0		63	No	No			None	No								
I Stephenson	06/04/2010	Lagoon area am	S	8.25	8.30	n	1	no odour	0	1	1	0	70	54.9	No	No			None	No								
I Stephenson	06/04/2010	Lagoon area am	SW	8.30	8.35	n	1	no odour	0	3	1	0		74.2	No	No			None	No								
I Stephenson	06/04/2010	Lagoon area am	W	8.35	8.40	n	1	no odour	0	3	1	0	284	76.4	No	No			None	No								
I Stephenson	06/04/2010	Lagoon area am	NW	8.40	8.45	n	1	no odour	0	2	1	0		78.7	No	No			None	No								
T Walker	06/04/2010	Lagoon area	N	15.20	15.25	y	3	Hydrocarbon	-2	1	1	0	13474	69.8	No	No	Clear		None	No	3	SW	16	sun	2	dry	Station N to be monitored closely for fumes / odour	
T Walker	06/04/2010	Lagoon area	NE	15.25	15.30	n	1	No odour	0	1	1	0	119.4	71.1	No	No	Clear		None	No								
T Walker	06/04/2010	Lagoon area	NE1	15.30	15.35								127.1				Clear		None	No								
T Walker	06/04/2010	Lagoon area	E	15.35	15.40	n	1	No odour	0	1	1	0	94.6	61.7	No	No	Clear		None	No								
T Walker	06/04/2010	Lagoon area	SE	16.00	16.05	n	1	No odour	0	1	1	0		67.1	No	No			None	No								
T Walker	06/04/2010	Lagoon area	S	15.00	15.05	n	1	No odour	0	3	1	0	60.8	61.1	No	No			None	No								
T Walker	06/04/2010	Lagoon area	SW	15.05	15.10	n	1	No odour	0	2	1	0		64.5	No	No			None	No								
T Walker	06/04/2010	Lagoon area	W	15.10	15.15	n	1	No odour	0	3	1	0	91.4	65.5	No	No			None	No								
T Walker	06/04/2010	Lagoon area	NW	15.15	15.20	n	1	No odour	0	3	1	0		46.6	No	No			None	No								
I Stephenson	07/04/2010	Lagoon area	N	9.30	9.35	n	1	No odour	0	1	1	0	29.2	62	No	No	Clear		None	No	1.7mph	NW	9.4	drizzle	8	Damp		
I Stephenson	07/04/2010	Lagoon area	NE	9.40	9.45	n	1	No odour	0	1	1	0	22.4	68.9	No	No	Clear		None	No								
I Stephenson	07/04/2010	Lagoon area	NE1	9.50	9.55								24.4				Clear		None	No								
I Stephenson	07/04/2010	Lagoon area	E	10.00	10.05	n	1	No odour	0	1	1	0	23.7	59.1	No	No	Clear		None	No								
I Stephenson	07/04/2010	Lagoon area	SE	10.10	10.15	n	1	No odour	0	1	1	0		57.3	No	No			None	No								
I Stephenson	07/04/2010	Lagoon area	S	10.20	10.25	n	1	No odour	0	1	1	0	358.2	54.9	No	No			None	No								
I Stephenson	07/04/2010	Lagoon area	SW	10.30	10.35	n	1	No odour	0	3	1	0		73.2	No	No			None	No								
I Stephenson	07/04/2010	Lagoon area	W	10.40	10.45	n	1	No odour	0	3	1	0	52.2	67.4	No	No			None	No								
I Stephenson	07/04/2010	Lagoon area	NW	10.50	10.55	n	1	No odour	0	2	1	0		71.3	No	No			None	No								
T Walker	07/04/2010	Forming treatment beds - breaking out concrete - pumping water from lagoon	N	16.00	16.05	n	1	No odour	0	1	1	0	197.1	67.4	No	No	Clear		None	No	2	NW	14	showers-we	8	wet		
T Walker	07/04/2010	Forming treatment beds - breaking out concrete - pumping water from lagoon	NE	16.05	16.10	n	1	No odour	0	1	1	0	96.7	56.4	No	No	Clear		None	No								
T Walker	07/04/2010	Forming treatment beds - breaking out concrete - pumping water from lagoon	NE1	16.10	16.15								83.1				Clear		None	No								
T Walker	07/04/2010	Forming treatment beds - breaking out concrete - pumping water from lagoon	E	16.15	16.20	n	1	No odour	0	1	1	0	67.4	71.1	No	No	Clear		None	No								
T Walker	07/04/2010	Forming treatment beds - breaking out concrete - pumping water from lagoon	SE	16.20	16.25	n	1	No odour	0	1	1	0		61.4	No	No			None	No								
T Walker	07/04/2010	Forming treatment beds - breaking out concrete - pumping water from lagoon	S	15.30	15.35	n	1	No odour	0	3	1	0	119.4	62.2	No	No			None	No								
T Walker	07/04/2010	Forming treatment beds - breaking out concrete - pumping water from lagoon	SW	15.35	15.40	n	1	No odour	0	3	1	0		64.4	No	No			None	No								
T Walker	07/04/2010	Forming treatment beds - breaking out concrete - pumping water from lagoon	W	15.45	15.50	n	1	No odour	0	2	1	0	117.8	57.8	No	No			None	No								
T Walker	07/04/2010	Forming treatment beds - breaking out concrete - pumping water from lagoon	NW	15.55	16.00	n	1	No odour	0	3	1	0		47.1	No	No			None	No								
I Stephenson	08/04/2010	Lagoon area	N	8.15	8.20	n	1	No odour	0	1	1	0	63.2	58.8	No	No	Clear		None	No	2.2mph	NW	21.4	sunny	1	Damp		
I Stephenson	08/04/2010	Lagoon area	NE	8.20	8.25	n	1	No odour	0	1	1	0	51.3	60.3	No	No	Clear		None	No								
I Stephenson	08/04/2010	Lagoon area	NE1	8.25	8.30								74.9				Clear		None	No								
I Stephenson	08/04/2010	Lagoon area	E	8.30	8.35	n	1	No odour	0	1	1	0	40.9	58.8	No	No	Clear		None	No								
I Stephenson	08/04/2010	Lagoon area	SE	8.40	8.45	n	1	No odour	0	1	1	0		54	No	No			None	No								
I Stephenson	08/04/2010	Lagoon area	S	8.45	8.50	n	1	No odour	0	1	1	0	52.2	55.3	No	No			None	No								
I Stephenson	08/04/2010	Lagoon area	SW	8.50	8.55	n	1	No odour	0	3	1	0		73.5	No	No			None	No								
I Stephenson	08/04/2010	Lagoon area	W	8.55	9.00	n	1	no odour	0	3	1	0	196.2	75.4	No	No			None	No								
I Stephenson	08/04/2010	Lagoon area	NW	9.00	9.05	n	1	no odour	0	2	1	0		70.8	No	No			None	No								
I Stephenson	08/04/2010	Lagoon area	N	15.00	15.05	n	1	no odour	0	1	1	0	59.9	59.2	No	No	Clear		None	No	8.9mph	w	22.9	sun	1	dry		
I Stephenson	08/04/2010	Lagoon area	NE	15.05	15.10	n	1	no odour	0	1	1	0	140.4	62.2	No	No	Clear		None	No								
I Stephenson	08/04/2010	Lagoon area	NE1	15.10	15.15								22.5				Clear		None	No								
I Stephenson	08/04/2010	Lagoon area	E	15.15	15.20	n	1	no odour	0	1	1	0	61.8	60.5	No	No	Clear		None	No								
I Stephenson	08/04/2010	Lagoon area	SE	15.20	15.25	n	1	no odour	0	1	1	0		60.1	No	No			None	No								
I Stephenson	08/04/2010	Lagoon area	S	15.25	15.30	n	1	No odour	0	1	1	0	64.5	53	No	No			None	No								
I Stephenson	08/04/2010	Lagoon area	SW	15.30	15.35	n	1	No odour	0	3	1	0		59.1	No	No			None	No								
I Stephenson	08/04/2010	Lagoon area	W	15.40	15.45	n	1	no odour	0	3	1	0	17.3	62.9	No	No			None	No								
I Stephenson	08/04/2010	Lagoon area	NW	15.45	15.50	n	1	no odour	0	2	1	0		71.5	No	No			None	No								
I Stephenson	09/04/2010	Lagoon area	N	9.30	9.35	n	1	no odour	0	1	1	0	36	58.2	No	No	Clear	19cm	None	No				sun	1	dry		
I Stephenson	09/04/2010	Lagoon area	NE	9.35	9.40	n	1	no odour	0	1	1	0	78.3	60.6	No	No	Clear		None	No								
I Stephenson	09/04/2010	Lagoon area	NE1	9.40	9.45								85.3				Clear		None	No								
I Stephenson	09/04/2010	Lagoon area	E	9.45	9.50	n	1	no odour	0	1	1	0	110.6	61.4	No	No	Clear	28cm	None	No								
I Stephenson	09/04/2010	Lagoon area	SE	9.50	9.55	n	1	no odour	0	1	1	0		52.8	No	No			None	No								
I Stephenson	09/04/2010	Lagoon area	S	9.55	10.00	n	1	No odour	0	1	1	0	56.8	56.4	No	No			None	No								
I Stephenson	09/04/2010	Lagoon area	SW	10.00	10.05	n	1	No odour	0	3	1	0		60.6	No	No			None	No								
I Stephenson	09/04/2010	Lagoon area	W	10.10	10.20	n	1	No odour	0	3	1	0	105.3	71.8	No	No			None	No								
I Stephenson	09/04/2010	Lagoon area	NW	10.20	10.25	n	1	No odour	0	2	1	0		75.9	No	No			None	No								
I Stephenson	12/04/2010	Lagoon area, K11-K13	N	9.00	9.05	n	1	No odour	0	1	1	0	41.8	48.7	No	No	Clear	19.5cm	None	No	5.8mph	N	19	Dry	7	dry		
I Stephenson	12/04/2010	Lagoon area, K11-K13	NE	9.05	9.10	n	1	No odour	0	1	1	0	273.3	56.1	No	No	Clear		None	No								
I Stephenson	12/04/2010	Lagoon area, K11-K13	NE1	9.10	9.15								27.8				Clear		None	No								
I Stephenson	12/04/2010	Lagoon area, K11-K13	E	9.15	9.20	n	1	No odour	0	1	1	0	31.7	64.1	No	No	Clear	28cm	None	No								
I Stephenson	12/04/2010	Lagoon area, K11-K13	SE	9.20	9.25	n	1	No odour	0	1	1	0		73.8	No	No			None	No								
I Stephenson	12/04/2010	Lagoon area, K11-K13	S	9.25	9.30	n	1	No odour	0	1	1	0	114.2	54	No	No			None	No								
I Stephenson	12/04/2010	Lagoon area, K11-K13	SW	9.30	9.35	n	1	No odour	0	3	1	0		72.7	No	No			None	No								
I Stephenson	12/04/2010	Lagoon area, K11-K13	W	9.35	9.40	Y	2	odour supression unit	0	3	1	0	108.3	69.3	No	No			None	No								
I Stephenson	12/04/2010	Lagoon area, K11-K13	NW	9.40	9.45	n	1	No odour	0	2	1	0		60.9	No	No			None	No								
I Stephenson	12/04/2010	Lagoon area, K11-K14	N	15.30	15.35	n	1	No odour	0	1	1	0	28	64.2	No	No	Clear		None	No	13.6 mp	NNE	18	dry	6	dry		
I Stephenson	12/04/2010	Lagoon area, K11-K14	NE	15.40	15.45	n	1	No odour	0	1	1	0	344.6	56.9	No	No	Clear		None	No								
I Stephenson	12/04/2010	Lagoon area, K11-K14	NE1	15.45	15.55								18.3				Clear		None	No								
I Stephenson	12/04/2010	Lagoon area, K11-K14	E	15.55	16.00	n	1	No odour	0	1	1	0	40.2	58	No	No	Clear		None	No								
I Stephenson	12/04/2010	Lagoon area, K11-K14	SE	16.00	16.05	n	1	No odour	0	1	1	0		65.9	No	No			None	No								

I Stephenson	12/04/2010	Lagoon area, K11-K14	S	16.05	16.10	n	1	No odour	0	1	1	0	207.5	56.2	No	No			None	No								
I Stephenson	12/04/2010	Lagoon area, K11-K14	SW	16.10	16.15	n	1	No odour	0	3	1	0		69.3	No	No			None	No								
I Stephenson	12/04/2010	Lagoon area, K11-K14	W	16.15	16.20	y	2	odour control unit	0	3	2	0	238.6	71	No	No			None	No								
I Stephenson	12/04/2010	Lagoon area, K11-K14	NW	16.20	16.25	n	1	No odour	0	2	1	0		73.5	No	No			None	No								
I Stephenson	13/04/2010	Lagoon area	N	9.30	9.35	n	1	No odour	0	1	1	0	169.8	57.4	No	No	Clear	29.5cm	None	No	3.1mph	N	15.1	sun	1	dry		
I Stephenson	13/04/2010	Lagoon area	NE	9.35	9.40	n	1	No odour	0	1	1	0	19.7	55.9	No	No	Clear		None	No								
I Stephenson	13/04/2010	Lagoon area	NE1	9.40	9.45								56.1				Clear		None	No								
I Stephenson	13/04/2010	Lagoon area	E	9.45	9.50	n	1	No odour	0	1	1	0	46.7	52.5	No	No	Clear	19cm	None	No								
I Stephenson	13/04/2010	Lagoon area	SE	9.50	9.55	n	1	No odour	0	1	1	0		61.6	No	No			None	No								
I Stephenson	13/04/2010	Lagoon area	S	9.55	10.00	n	1	No odour	0	1	1	0	31	58.6	No	No			None	No								
I Stephenson	13/04/2010	Lagoon area	SW	10.00	10.05	n	1	No odour	0	3	1	0		67.3	No	No			None	No								
I Stephenson	13/04/2010	Lagoon area	W	10.05	10.10	n	1	No odour	0	3	1	0	89	73.7	No	No			None	No								
I Stephenson	13/04/2010	Lagoon area	NW	10.10	10.15	n	1	No odour	0	2	1	0		66.2	No	No			None	No								
I Stephenson	13/04/2010	Lagoon area	N	16.00	16.05	n	1	No odour	0	1	1	0	44.8	58.6	No	No	Clear		None	No	2.9mph	N	20.5	sun	1	dry		
I Stephenson	13/04/2010	Lagoon area	NE	16.05	16.10	n	1	No odour	0	1	1	0	4.3	61	No	No	Clear		None	No								
I Stephenson	13/04/2010	Lagoon area	NE1	16.10	16.15								55.7				Clear		None	No								
I Stephenson	13/04/2010	Lagoon area	E	16.15	16.20	n	1	no odour	0	1	1	0	1.7	68.4	No	No	Clear		None	No								
I Stephenson	13/04/2010	Lagoon area	SE	16.20	16.25	n	1	no odour	0	1	1	0		48.7	No	No			None	No								
I Stephenson	13/04/2010	Lagoon area	S	16.25	16.30	n	1	no odour	0	1	1	0	79.8	59.6	No	No			None	No								
I Stephenson	13/04/2010	Lagoon area	SW	16.30	16.35	n	1	no odour	0	3	1	0		62.8	No	No			None	No								
I Stephenson	13/04/2010	Lagoon area	W	16.35	16.40	n	1	no odour	0	3	1	0	110.9	69.4	No	No			None	No								
I Stephenson	13/04/2010	Lagoon area	NW	16.40	16.45	n	1	no odour	0	2	1	0		74.1	No	No			None	No								
I Stephenson	14/04/2010	Lagoon infill am	N	9.30	9.35	n	1	no odour	0	1	1	0	48.9	54.2	No	No	Clear	19.5	None	No	1.2mph	NE	13.2	Dry	8	dry		
I Stephenson	14/04/2010	Lagoon infill am	NE	9.35	9.40	n	1	No odour	0	1	1	0	37.3	71.9	No	No	Clear		None	No								
I Stephenson	14/04/2010	Lagoon infill am	NE1	9.40	9.45								9.1				Clear		None	No								
I Stephenson	14/04/2010	Lagoon infill am	E	9.45	9.50	n	1	no odour	0	1	1	0	18.7	68.2	No	No	Clear	28	None	No								
I Stephenson	14/04/2010	Lagoon infill am	SE	9.50	9.55	n	1	no odour	0	1	1	0		72.4	No	No			None	No								
I Stephenson	14/04/2010	Lagoon infill am	S	9.55	10.00	n	1	no odour	0	1	1	0	100.4	51.6	No	No			None	No								
I Stephenson	14/04/2010	Lagoon infill am	SW	10.00	10.05	y	3	odour control	0	3	2	0		73.8	No	No			None	No								
I Stephenson	14/04/2010	Lagoon infill am	W	10.05	10.10	y	3	odour control	0	3	2	0	229.5	74.7	No	No			None	No								
I Stephenson	14/04/2010	Lagoon infill am	NW	10.10	10.15	n	1	no odour	0	2	1	0		71.1	No	No			None	No								
I Stephenson	14/04/2010	Lagoon area	N	15.00	15.05	n	1	no odour	0	1	1	0	82.9	56.9	No	No	Clear		None	No	8.2 mph	NE	21.1	sun	4	dry		
I Stephenson	14/04/2010	Lagoon area	NE	15.05	15.10	n	1	No odour	0	1	1	0	178.1	52.2	No	No	Clear		None	No								
I Stephenson	14/04/2010	Lagoon area	NE1	15.10	15.15								33				Clear		None	No								
I Stephenson	14/04/2010	Lagoon area	E	15.15	15.20	n	1	No odour	0	1	1	0	21	61.6	No	No	Clear		None	No								
I Stephenson	14/04/2010	Lagoon area	SE	15.20	15.25	n	1	No odour	0	1	1	0		62.8	No	No			None	No								
I Stephenson	14/04/2010	Lagoon area	S	15.25	15.30	n	1	No odour	0	1	1	0	65	60.8	No	No			None	No								
I Stephenson	14/04/2010	Lagoon area	SW	15.30	15.35	n	1	No odour	0	3	1	0		71.4	No	No			None	No								
I Stephenson	14/04/2010	Lagoon area	W	15.35	15.40	n	1	No odour	0	3	1	0	224.2	71.3	No	No			None	No								
I Stephenson	14/04/2010	Lagoon area	NW	15.40	15.45	n	1	No odour	0	2	1	0		64	No	No			None	No								
I Stephenson	15/04/2010	Lagoon area	N	10.15	10.20	n	1	No odour	0	1	1	0	35.3	58.1	No	No	Clear	19.5 cm	None	No	7.5mph	N	18.8	sun	4	dry		
I Stephenson	15/04/2010	Lagoon area	NE	10.20	10.25	n	1	No odour	0	1	1	0	54.5	90.2	No	No	Clear		None	No								
I Stephenson	15/04/2010	Lagoon area	NE1	10.25	10.30								104.6				Clear		None	No								
I Stephenson	15/04/2010	Lagoon area	E	10.30	10.35	n	1	No odour	0	1	1	0	26	56.5	No	No	Clear	28cm	None	No								
I Stephenson	15/04/2010	Lagoon area	SE	10.35	10.40	n	1	No odour	0	1	1	0		63	No	No			None	No								
I Stephenson	15/04/2010	Lagoon area	S	10.40	10.45	n	1	No odour	0	1	1	0	21.1	60.9	No	No			None	No								
I Stephenson	15/04/2010	Lagoon area	SW	10.45	10.50	n	1	No odour	0	3	1	0		65	No	No			None	No								
I Stephenson	15/04/2010	Lagoon area	W	10.50	10.55	n	1	No odour	0	3	1	0	55.4	71.8	No	No			None	No								
I Stephenson	15/04/2010	Lagoon area	NW	10.55	11.00	n	1	No odour	0	2	1	0		73.9	No	No			None	No								
I Stephenson	15/04/2010	Lagoon area	N	16.00	16.05	n	1	No odour	0	1	1	0	45.1	59.2	No	No	Clear		None	No	7.5	n	19.8	sun	6	dry		
I Stephenson	15/04/2010	Lagoon area	NE	16.05	16.10	n	1	No odour	0	1	1	0	57.3	53.2	No	No	Clear		None	No								
I Stephenson	15/04/2010	Lagoon area	NE1	16.10	16.15								16.6				Clear		None	No								
I Stephenson	15/04/2010	Lagoon area	E	16.15	16.20	n	1	No odour	0	1	1	0	162.1	61.7	No	No	Clear		None	No								
I Stephenson	15/04/2010	Lagoon area	SE	16.20	16.25	n	1	No odour	0	1	1	0		63.1	No	No			None	No								
I Stephenson	15/04/2010	Lagoon area	S	16.25	16.30	n	1	No odour	0	1	1	0	160.9	68.9	No	No			None	No								
I Stephenson	15/04/2010	Lagoon area	SW	16.30	16.35	n	1	No odour	0	3	1	0		68	No	No			None	No								
I Stephenson	15/04/2010	Lagoon area	W	16.35	16.40	n	1	No odour	0	3	1	0	773.5	73.4	No	No			None	No								
I Stephenson	15/04/2010	Lagoon area	NW	16.40	16.45	n	1	No odour	0	2	1	0		60	No	No			None	No								
I Stephenson	16/04/2010	Lagoon installation	N	11.00	11.05	n	1	No odour	0	1	1	0	215.3	58.5	No	No	Clear	19.5 cm	None	No	5 mph	NW	15.5	Dry	7	dry		
I Stephenson	16/04/2010	Lagoon installation	NE	11.05	11.10	n	1	No odour	0	1	1	0	66.2	56.6	No	No	Clear		None	No								
I Stephenson	16/04/2010	Lagoon installation	NE1	11.10	11.15								82.3				Clear		None	No								
I Stephenson	16/04/2010	Lagoon installation	E	11.20	11.25	n	1	No odour	0	1	1	0	94.9	57.2	No	No	Clear	28cm	None	No								
I Stephenson	16/04/2010	Lagoon installation	SE	11.25	11.30	n	1	No odour	0	1	1	0		47.5	No	No			None	No								
I Stephenson	16/04/2010	Lagoon installation	S	11.30	11.35	n	1	No odour	0	1	1	0	86.1	55.1	No	No			None	No								
I Stephenson	16/04/2010	Lagoon installation	SW	11.35	11.40	n	1	No odour	0	3	1	0		68.2	No	No			None	No								
I Stephenson	16/04/2010	Lagoon installation	W	11.40	11.45	n	1	no odour	0	3	1	0	78.1	65.1	No	No			None	No								
I Stephenson	16/04/2010	Lagoon installation	NW	11.45	11.50	n	1	no odour	0	2	1	0		59.1	No	No			None	No								
I Stephenson	16/04/2010	Lagoon installation	N	15.00	15.05	n	1	no odour	0	1	1	0	110.8	68.3	No	No	Clear		None	No	4mph	NNE	21.1	sun	3	dry		
I Stephenson	16/04/2010	Lagoon installation	NE	15.05	15.10	n	1	no odour	0	1	1	0	53	56.6	No	No	Clear		None	No								
I Stephenson	16/04/2010	Lagoon installation	NE1	15.10	15.15								85.8				Clear		None	No								
I Stephenson	16/04/2010	Lagoon installation	E	15.20	15.25	n	1	no odour	0	1	1	0	14.4	61.1	No	No	Clear		None	No								
I Stephenson	16/04/2010	Lagoon installation	SE	15.25	15.30	n	1	no odour	0	1	1	0		56.9	No	No			None	No								
I Stephenson	16/04/2010	Lagoon installation	S	15.30	15.35	n	1	no odour	0	1	1	0	16.5	59.5	No	No			None	No								
I Stephenson	16/04/2010	Lagoon installation	SW	15.35	15.40	n	1	No odour	0	3	1	0		68.1	No	No			None	No								
I Stephenson	16/04/2010	Lagoon installation	W	15.40	15.45	n	1	no odour	0	3	1	0	131.4	74.8	No	No			None	No								
I Stephenson	16/04/2010	Lagoon installation	NW	15.45	15.50	n	1	no odour	0	2	1	0		63.6	No	No			None	No								
I Stephenson	19/04/2010	Lagoon area	N	12.00	12.05	n	1	no odour	0	1	1	0	19.5	54.6	No	No	Clear	19.5	None	No	6.2	ESE	21.2	Dry	7	dry		
I Stephenson	19/04/2010	Lagoon area	NE	12.05	12.10	n	1	no odour	0	1	1	0	56.4	63.2	No	No	Clear		None	No								
I Stephenson	19/04/2010	Lagoon area	NE1	12.10	12.15								112.8				Clear		None	No								
I Stephenson	19/04/2010	Lagoon area	E	12.15	12.20	n	1	no odour	0	1	1	0	200.2	62.1	No	No	Clear	28	None	No								
I Stephenson	19/04/2010	Lagoon area	SE	12.20	12.25	n	1	no odour	0	1	1	0		62.2	No	No			None	No								
I Stephenson	19/04/2010	Lagoon area	S	12.25	12.30	n	1	no odour	0	1	1	0	100.5	58.2	No	No			None	No								
I Stephenson	19/04/2010	Lagoon area	SW	12.30	12.35	n	1	No odour	0	3	1	0		71.9	No	No			None	No								
I Stephenson	19/04/2010	Lagoon area	W	12.35	12.40	n	1	No odour	0	3	1	0	121.6	69.5	No	No			None	No								
I Stephenson	19/04/2010	Lagoon area	NW	12.40	12.45	n	1	No odour	0	2	1	0		69.8	No	No			None	No								
T Walker	19/04/2010	Turning treatment beds, moving stockpiles	N	17.15	17.20	n	1	No odour	0	1	1	0	104.4	37.6	No	No	Clear	1.95	None	No								
T Walker	19/04/2010	Turning treatment beds, moving stockpiles	NE	17.20	17.25	n	1	No odour	0	1	1	0	17.9	58.6	No	No	Clear		None	No								
T Walker	19/04/2010	Turning treatment beds, moving stockpiles	NE1	17.25	17.30								713.3				Clear		None	No								
T Walker	19/04/2010	Turning treatment beds, moving stockpiles	E	17.35	17.40	n	1	No odour	0	1	1	0	133.8	31.5	No	No	Clear		None	No								
T Walker	19/04/2010	Turning treatment beds, moving stockpiles	SE	16.45	16.50	n	1	No odour	0	3	1	0		61.1	No	No			yes	odour control moved	2	NW	14	Dry	8	dry	very slight odour at corner of SW, TM to assess odour control	
T Walker	19/04/2010	Turning treatment beds, moving stockpiles	S	16.50	16.55	n	1	No odour	0	3	1	0	141.5	55.2	No	No			yes	odour control moved								
T Walker	19/04/2010	Turning treatment beds, moving stockpiles	SW	17.00	17.05	y	3	pesticide/diesel	-1	1	1	0		67.4	No	No			yes	odour control moved								
T Walker	19/04/2010	Turning treatment beds, moving stockpiles	W	17.05	17.10	n	1	No odour	0	1	1	0	178.5	78.6	No	No			None	No								
T Walker	19/04/2010	Turning treatment beds, moving stockpiles	NW	17.10	17.15	y	1	odour control	1	2	1	0		56.4	No	No			None	No								
I Stephenson	20/04/2010	Main dig	N	7.55	8.00	n	1	No odour	0	1	1	0	44.9	58.7	No	No	Clear	19.5cm	None	No	6mph	WNW	11.8	Dry	0	dry	Outside 2 hours, no odour (WR) sound before digging 63dBa w/o traffic, 82dBa with. Organic food shop & manchines no odour. No smell on church road or A10, odour control is deployed. Outside 2 hours - dig in progress.	
I Stephenson	20/04/2010	Main dig	NE	8.00	8.05	n	1	No odour	0	1	1	0	93.4	66.9	No	No	Clear		None	No								
I Stephenson	20/04/2010	Main dig	NE1	8.05	8.10								36.1				Clear		None	No								
I Stephenson	20/04/2010	Main dig	E	8.10	8.15	n	1	No odour	0	1	1	0	128.3	55.8	No	No	Clear	28.5cm	None	No								
I Stephenson	20/04/2010	Main dig	SE	8.15	8.20	y	2	slight odour?	0	1	2	0		54.9	No	No			None	No								
I Stephenson	20/04/2010	Main dig	S	8.20	8.25	n	1	No odour	0	1	1	0	11.6	60.6	No	No			None	No								
I Stephenson	20/04/2010	Main dig	SW	8.25	8.30	n	1	No odour	0	3	1	0		68.2	No	No			None	No								
I Stephenson	20/04/2010	Main dig	W	8.30	8.35	n	1	No odour	0	3	1	0	14.8	75.8	No	No			None	No								
I Stephenson	20/04/2010	Main dig	NW	8.35	8.40	n	1	No odour	0	2	1	0		68.3	No	No			None	No								
I Stephenson	20/04/2010	K7 dig	N	15.00	15.05	n	1	No odour	0	1	1	0	9.9	59.2	No	No	Clear	19.5	None	No	6mph	WNW	17.8	sun	3	dry	Bubblegum smell at gate on church lane, no odour recorded at organic health. Smell from excavation between NE and NE1. ATKINS ACCOMPANIED	
I Stephenson	20/04/2010	K7 dig	NE	15.05	15.10	n	1	No odour	0	1	1	0	29.7	58.9	No	No	Clear		None	No								
I Stephenson	20/04/2010	K7 dig	NE1	15.10	15.15								9.2				Clear		None	No								
I Stephenson	20/04/2010	K7 dig	E	15.15	15.20	n	1	No odour	0	1	1	0	154.9	58.2	No	No	Clear	28.5	None	No								
I Stephenson	20/04/2010	K7 dig	SE	15.20	15.25	n	1	No odour	0	1	1	0		51.8	No	No			None	No								
I Stephenson	20/04/2010	K7 dig	S	15.25	15.30	y	2	possible odour from T	0	2	2	0	20.3	53.2	No	No			yes	Move OS?								
I Stephenson	20/04/2010	K7 dig	SW	15.30	15.35	n	1	No odour	0	3	1	0		70.3	No	No			None	No								

I Stephenson	20/04/2010	K7 dig	W	15.40	15.45	n		1	No odour	0	3	1	0	144.2	76.8	No	No			None	No							
I Stephenson	20/04/2010	K7 dig	NW	15.45	15.50	n		1	No odour	0	2	1	0		66.3	No	No			None	No							
T Walker	21/04/2010	Turning treatment beds, pumping water	N	10.40	10.45	n		1	No odour	0	1	1	0	171	31.4	No	No	Clear	2.1	None	No	1	NW	14	Dry	1	dry	Very slight odour between S and SW but almost undetectable
T Walker	21/04/2010	Turning treatment beds, pumping water	NE	10.45	10.50	n		1	No odour	0	1	1	0	27.9	34.8	No	No	Clear		None	No							
T Walker	21/04/2010	Turning treatment beds, pumping water	NE1	10.50	10.55									32.4				Clear		None	No							
T Walker	21/04/2010	Turning treatment beds, pumping water	E	10.55	11.00	n		1	no odour	0	1	1	0	27.9	41.4	No	No	Clear	2	None	No							
T Walker	21/04/2010	Turning treatment beds, pumping water	SE	11.00	11.05	n		1	no odour	0	1	1	0		38.4	No	No			None	No							
T Walker	21/04/2010	Turning treatment beds, pumping water	S	10.20	10.25	n		1	no odour	0	3	1	0	127.6	53.4	No	No			None	No							
T Walker	21/04/2010	Turning treatment beds, pumping water	SW	10.23	10.28	y		7	odour supressant, bu	+3	3	1	0		64.7	No	No			None	No							
T Walker	21/04/2010	Turning treatment beds, pumping water	W	10.30	10.35	y		5	odour supressant, bu	+1	2	1	0	298.1	67.4	No	No			None	No							
T Walker	21/04/2010	Turning treatment beds, pumping water	NW	10.35	10.40	n		1	no odour	0	1	1	0		28.1	No	No			None	No							
I Stephenson	21/04/2010	K7, L7 & K8 excavation	N	15.30	15.35	n		1	no odour	0	1	1	0	8.1	63.2	No	No	Clear	19.5 cm	None	No	5.5mph	NNW	22.7	sun	2	dry	Strong odour of bubblegum deodoriser along southern boundary
I Stephenson	21/04/2010	K7, L7 & K8 excavation	NE	15.35	15.40	n		1	no odour	0	1	1	0	103.8	56.6	No	No	Clear		None	No							
I Stephenson	21/04/2010	K7, L7 & K8 excavation	NE1	15.40	15.45									30.8				Clear		None	No							
I Stephenson	21/04/2010	K7, L7 & K8 excavation	E	15.45	15.50	n		1	no odour	0	1	1	0	12	51.2	No	No	Clear	22.5cm	None	No							
I Stephenson	21/04/2010	K7, L7 & K8 excavation	SE	15.50	15.55	n		1	no odour	0	1	1	0		59.4	No	No			None	No							
I Stephenson	21/04/2010	K7, L7 & K8 excavation	S	15.55	16.00	n		1	no odour	0	2	1	0	160.4	62.4	No	No			yes	relocated odour control							
I Stephenson	21/04/2010	K7, L7 & K8 excavation	SW	16.00	16.05	n		1	no odour	0	3	1	0		70	No	No			None	No							
I Stephenson	21/04/2010	K7, L7 & K8 excavation	W	16.05	16.10	n		1	no odour	0	3	1	0	513.5	69.8	No	No			None	No							
I Stephenson	21/04/2010	K7, L7 & K8 excavation	NW	16.10	16.15	n		1	no odour	0	2	1	0		64.5	No	No			None	No							
I Stephenson	22/04/2010	K8 excavation	N	11.45	11.50	n		1	no odour	0	1	1	0	19.1	59.2	No	No	Clear	19.5	None	No				sun	2	dry	slight bed odour between S & SW, mostly intense bubblegum smell. Odour between SW & W, unclear if beds or odour control - investigate further. Strong odour of excavation on footpath near millhouse, moved Odour control
I Stephenson	22/04/2010	K8 excavation	NE	11.50	11.55	n		1	no odour	0	1	1	0	100.6	56.2	No	No	Clear		None	No							
I Stephenson	22/04/2010	K8 excavation	NE1	11.55	12.00									3.7				Clear		None	No							
I Stephenson	22/04/2010	K8 excavation	E	12.00	12.05	n		1	No odour	0	1	1	0	29	56.8	No	No	Clear	20.5	None	No							
I Stephenson	22/04/2010	K8 excavation	SE	12.05	12.10	n		1	No odour	0	1	1	0		55.9	No	No			None	No							
I Stephenson	22/04/2010	K8 excavation	S	12.10	12.15	n		1	No odour	0	2	1	0	61.9	54.8	No	No			None	No							
I Stephenson	22/04/2010	K8 excavation	SW	12.15	12.20	y		5	bubblegum	+2	3	5	0		69.2	No	No			None	No							
I Stephenson	22/04/2010	K8 excavation	W	12.20	12.25	n		1	No odour	0	3	1	0	10.2	60.8	No	No			None	No							
I Stephenson	22/04/2010	K8 excavation	NW	12.25	123.00	n		1	No odour	0	2	1	0		73.9	No	No			None	No							
I Stephenson	22/04/2010	Excavation of K8	N	16.30	16.35	n		1	No odour	0	1	1	0	35.4	60.7	No	No	Clear		None	No	0.5	SWS	21.9	sun	1	dry	Slight smell of beds between Sw & W on A10, slight smell of odour control between W & NW. Strong smell of odour control on footpath before N
I Stephenson	22/04/2010	Excavation of K8	NE	16.35	16.40	n		1	No odour	0	1	1	0	325.9	59.8	No	No	Clear		None	No							
I Stephenson	22/04/2010	Excavation of K8	NE1	16.40	16.45									54.9				Clear		None	No							
I Stephenson	22/04/2010	Excavation of K8	E	16.45	16.50	n		1	No odour	0	1	1	0	111.3	51.5	No	No	Clear		None	No							
I Stephenson	22/04/2010	Excavation of K8	SE	16.50	16.55	n		1	No odour	0	1	1	0		30.9	No	No			None	No							
I Stephenson	22/04/2010	Excavation of K8	S	17.00	17.05	n		1	No odour	0	2	1	0	95.5	56.3	No	No			None	No							
I Stephenson	22/04/2010	Excavation of K8	SW	17.05	17.10	n		1	No odour	0	3	1	0		68.2	No	No			None	No							
I Stephenson	22/04/2010	Excavation of K8	W	17.10	17.15	y		2	odour control	0	3	1	0	11.3	69.8	No	No			None	No							
I Stephenson	22/04/2010	Excavation of K8	NW	17.15	17.20	n		1	No odour	0	2	1	0		67.5	No	No			None	No							
I Stephenson	23/04/2010	Excavation of K8	N	9.30	9.35	n		1	No odour	0	1	1	0	129.6	56.1	No	No	Clear	19.5cm	None	No	2mph	SSE	15.9	sun	0	dry	No odour at organic health shop, no odour at church 12mg/m3 dust, atkins confirmed no odour on church lane. ATKINS ACCOMPANIED
I Stephenson	23/04/2010	Excavation of K8	NE	9.35	9.40	y		3	bubblegum	1	1	5	0	63.7	58.7	No	No	Clear		None	No							
I Stephenson	23/04/2010	Excavation of K8	NE1	9.40	9.45									22.3				Clear		None	No							
I Stephenson	23/04/2010	Excavation of K8	E	9.45	9.50	n		1	No odour	1	1	1	0	66.3	51.5	No	No	Clear	28.5cm	None	No							
I Stephenson	23/04/2010	Excavation of K8	SE	9.50	9.55	n		1	No odour	1	1	1	0		61.5	No	No			None	No							
I Stephenson	23/04/2010	Excavation of K8	S	9.55	10.00	n		1	No odour	0	2	1	0	7.3	65.8	No	No			None	No							
I Stephenson	23/04/2010	Excavation of K8	SW	10.00	10.05	n		1	No odour	0	3	1	0		69.6	No	No			None	No							
I Stephenson	23/04/2010	Excavation of K8	W	10.05	10.10	n		1	No odour	0	3	1	0	54.5	64.5	No	No			None	No							
I Stephenson	23/04/2010	Excavation of K8	NW	10.10	10.15	y		2	odour control	0	1	5	0		71.2	No	No			None	No							
I Stephenson	23/04/2010	Excavation of K8	N	10.45	10.50	n		1	No odour	0	1	1	0	11	56.6	No	No	Clear		None	No	2	SE	17.5	sun	0	dry	No odour at church/organic health, dust: 22.5mg/m3. No odour down church lane. Odour of treatmennt beds (slight) along A10, move odour control? Faint smell of odouor control up A10 past W NW. Odour on footpath between NW-N
I Stephenson	23/04/2010	Excavation of K8	NE	10.50	10.55	y		3	bubblegum	1	1	1	0	92.2	50.1	No	No	Clear		None	No							
I Stephenson	23/04/2010	Excavation of K8	NE1	10.55	11.00									45.5				Clear		None	No							
I Stephenson	23/04/2010	Excavation of K8	E	11.00	11.05	n		1	No odour	0	1	1	0	20.4	47.9	No	No	Clear		None	No							
I Stephenson	23/04/2010	Excavation of K8	SE	11.05	11.10	n		1	No odour	0	1	1	0		46	No	No			None	No							
I Stephenson	23/04/2010	Excavation of K8	S	11.15	11.20	n		1	No odour	0	2	1	0	74	50.6	No	No			None	No							
I Stephenson	23/04/2010	Excavation of K8	SW	11.20	11.25	n		1	No odour	0	3	1	0		66.6	No	No			None	No							
I Stephenson	23/04/2010	Excavation of K8	W	11.25	11.30	y		2	odour control	1	3	1	0	113.5	68.1	No	No			None	No							
I Stephenson	23/04/2010	Excavation of K8	NW	11.30	11.35	n		1	no odour	0	2	1	0		69.2	No	No			None	No							
I Stephenson	23/04/2010	K8 excavation	N	13.45	13.50	n		1	no odour	0	1	1	0	78.7	58.2	No	No	Clear		None	No	7.8mph	SSE	19.2	sun	0	dry	No odour at church or organic food shop, dust 105.2mg/m3
I Stephenson	23/04/2010	K8 excavation	NE	13.50	13.55	n		1	no odour	0	1	1	0	44.2	59.7	No	No	Clear		None	No							
I Stephenson	23/04/2010	K8 excavation	NE1	14.00	14.05									28.3				Clear		None	No							
I Stephenson	23/04/2010	K8 excavation	E	14.05	14.10	n		1	no odour	0	1	1	0	18	62.6	No	No	Clear		None	No							
I Stephenson	23/04/2010	K8 excavation	SE	14.10	14.02						1		0		50.3	No	No			None	No							
I Stephenson	23/04/2010	K8 excavation	S	14.15	14.20	n		1	no odour	0	2	1	0	10.8	58.6	No	No			None	No							
I Stephenson	23/04/2010	K8 excavation	SW	14.20	14.25	n		1	no odour	0	3	1	0		68.4	No	No			None	No							
I Stephenson	23/04/2010	K8 excavation	W	14.25	14.30	n		1	no odour	0	3	1	0	14.8	66.2	No	No			None	No							
I Stephenson	23/04/2010	K8 excavation	NW	14.30	14.35	n		1	no odour	0	2	1	0		60.4	No	No			None	No							
I Stephenson	23/04/2010	K8 excavation	N	16.30	16.35	n		1	no odour	0	1	1	0	38.7	62.8	No	No	Clear		None	No	0.5mph	SSE	22.4	sun	0	dry	Smell of odour control between NW-N
I Stephenson	23/04/2010	K8 excavation	NE	16.35	16.40	n		1	no odour	0	1	1	0	50	58.2	No	No	Clear		None	No							
I Stephenson	23/04/2010	K8 excavation	NE1	16.40	16.45									9				Clear		None	No							
I Stephenson	23/04/2010	K8 excavation	E	16.45	16.50	n		1	no odour	0	1	1	0	6.9	50.8	No	No	Clear		None	No							
I Stephenson	23/04/2010	K8 excavation	SE	16.50	16.55	n		1	no odour	0	1	1	0		55.7	No	No			None	No							
I Stephenson	23/04/2010	K8 excavation	S	16.55	17.00	n		1	no odour	0	2	1	0	10.2	68.2	No	No			None	No							
I Stephenson	23/04/2010	K8 excavation	SW	17.00	17.05	n		1	no odour	0	3	1	0		71.3	No	No			None	No							
I Stephenson	23/04/2010	K8 excavation	W	17.05	17.10	y		3	odour control	1	3	5	0	8.9	69.4	No	No			None	No							
I Stephenson	23/04/2010	K8 excavation	NW	17.10	17.15	n		1	no odour	0	2	1	0		72.9	No	No			None	No							
I Stephenson	26/04/2010	screening material in warehouse	N	8.00	8.05	n		1	no odour	0	1	1	0	11.8	59.6	No	No	Clear	19.5 cm	None	No	7.3	WNW	11.4	Dry	2	damp	No odour at church or organic health store, N.B Sunday - heavy rain. Very fresh feel this morning. Slight smell of odour control along eastern boundary in the woods?. Not intense or invasive. Strong odour on boundary between NE and NE1
I Stephenson	26/04/2010	screening material in warehouse	NE	8.05	8.10	n		1	no odour	0	1	1	0	121.3	53.5	No	No	Clear		None	No							
I Stephenson	26/04/2010	screening material in warehouse	NE1	8.10	8.15									19.2				Clear		None	No							
I Stephenson	26/04/2010	screening material in warehouse	E	8.15	8.20	n		1	no odour	0	1	1	0	12.4	55.7	No	No	Clear	27.5 cm	None	No							
I Stephenson	26/04/2010	screening material in warehouse	SE	8.20	8.25	n		1	no odour	0	1	1	0		54.3	No	No			None	No							
I Stephenson	26/04/2010	screening material in warehouse	S	8.25	8.30	n		1	no odour	0	2	1	0	10.4	55.8	No	No			None	No							
I Stephenson	26/04/2010	screening material in warehouse	SW	8.30	8.35	n		1	no odour	0	3	1	0		68.4	No	No			None	No							
I Stephenson	26/04/2010	screening material in warehouse	W	8.35	8.40	n		1	no odour	0	3	1	0	25.1	64.9	No	No			None	No							
I Stephenson	26/04/2010	screening material in warehouse	NW	8.40	8.45	n		1	no odour	0	2	1	0		62.4	No	No			None	No							
I Stephenson	26/04/2010	screening material and excavation of K8 and L8	N	17.00	17.05	n		1	no odour	0	1	1	0	8.5	62.3	No	No	Clear		None	No	8.7	WSW	21.5	Dry	7	dry	slight odour at church - cover beds! Organic health, no odour. Odour between N and NE - excavation. Total suspended particulates PM10, PM2.5, PM1. Total respirable. ACCOMPANIED BY ATKINS
I Stephenson	26/04/2010	screening material and excavation of K8 and L8	NE	17.07	17.12	y		5	bubblegum	2	1	5	0	51.7	56.6	No	No	Clear		None	No							
I Stephenson	26/04/2010	screening material and excavation of K8 and L8	NE1	17.13	17.17									85.2				Clear		None	No							
I Stephenson	26/04/2010	screening material and excavation of K8 and L8	E	17.20	17.25	n		1	n	0	1	1	0	10.3	53.7	No	No	Clear		None	No							
I Stephenson	26/04/2010	screening material and excavation of K8 and L8	SE	17.26	17.31	n		1	n	0	1	1	0		55.6	No	No			None	No							
I Stephenson	26/04/2010	screening material and excavation of K8 and L8	S	17.33	17.37	n		1	n	0	2	1	0	35	65.8	No	No			None	No							
I Stephenson	26/04/2010	screening material and excavation of K8 and L8	SW	17.38	17.42	n		1	n	0	3	1	0		68.4	No	No			None	No							
I Stephenson	26/04/2010	screening material and excavation of K8 and L8	W	17.45	17.50	n		1	n	0	3	1	0	58.4	69.3	No	No			None	No							
I Stephenson	26/04/2010	screening material and excavation of K8 and L8	NW	17.55	18.00	n		1	n	0	2	1	0		66.8	No	No			None	No							
T Walker	28/04/2010	Digging out & turning K9/L9, turning & forming TB's	N	11.20	11.25	y		3	bubblegum	+1/+2	1	1	0	64.1	37.9	No	No	Clear	1.9	None	No	2	NW	15	sun	7	dry	slight odour between W and NW strains of odour control
T Walker	28/04/2010	Digging out & turning K9/L9, turning & forming TB's	NE	11.25	11.30	n		1	No odour	0	1	1	0	558.1	27.4	No	No	Clear		None	No							
T Walker	28/04/2010	Digging out & turning K9/L9, turning & forming TB's	NE1	11.25	11.30									74.3				Clear		None	No							
T Walker	28/04/2010	Digging out & turning K9/L9, turning & forming TB's	E	11.35	11.40	n		1	No odour	0	1	1	0	57.1	18.4	No	No	Clear		None	No							
T Walker	28/04/2010	Digging out & turning K9/L9, turning & forming TB's	SE	11.35	11.40	n		1	No odour	0	1	1	0		21.9	No	No			None	No							

T Walker	28/04/2010	Digging out & turning K9/L9, turning & forming TB's	S	10.55	11.00	n	1	No odour	0	3	1	0	101.4	68.4	No	No			None	No							
T Walker	28/04/2010	Digging out & turning K9/L9, turning & forming TB's	SW	11.00	11.05	n	1	No odour	0	2	1	0	158.4	47.4	No	No			None	No							
T Walker	28/04/2010	Digging out & turning K9/L9, turning & forming TB's	W	11.05	11.10	n	1	slight odour control	0	1	1	0	198.7	68.9	No	No			None	No							
T Walker	28/04/2010	Digging out & turning K9/L9, turning & forming TB's	NW	11.10	11.15	n	1	slight odour	0/+1	1	1	0	87.8	77.4	No	No			None	No							
I Stephenson	28/04/2010	Processing and turning	N	16.00	16.05	y	3	excavation smell	1	1	5	0	143.6	70.4	No	No	Clear	19.5	None	piles to be covered	10.9	SE	23.3	Dry	6	dry	no odour at church or at organic health
I Stephenson	28/04/2010	Processing and turning	NE	16.05	16.10	n	1	No odour	0	1	1	0	232.2	61.6	No	No	Clear		None	No							
I Stephenson	28/04/2010	Processing and turning	NE1	16.10	16.15								131.4				Clear		None	No							
I Stephenson	28/04/2010	Processing and turning	E	16.15	16.20	n	1	no odour	0	1	1	0	58.2	54.4	No	No	Clear	27.5	None	No							
I Stephenson	28/04/2010	Processing and turning	SE	16.20	16.25	n	1	no odour	0	1	1	0		53.5	No	No			None	No							
I Stephenson	28/04/2010	Processing and turning	S	16.25	16.30	n	1	no odour	0	2	1	0	80.4	58.2	No	No			None	No							
I Stephenson	28/04/2010	Processing and turning	SW	16.30	16.35	n	1	no odour	0	3	1	0		62	No	No			None	No							
I Stephenson	28/04/2010	Processing and turning	W	16.35	16.40	n	1	no odour	0	3	1	0	71.6	67.2	No	No			None	No							
I Stephenson	28/04/2010	Processing and turning	NW	16.40	16.45	y	3	odour control	0	2	5	0		71	No	No			None	No							
I Stephenson	29/04/2010	Excavation of K8	N	9.40	9.45	n	1	No odour	0	1	1	0	40	57.7	No	No	Clear	18.5 cm	None	No	2.6mph	WSW	17.9	Dry	7	dry	no odour at church or at organic food store. SSlight odour control down church road? Strong smell of odour control between NW-N. Very faint odour of odour control between N and SE
I Stephenson	29/04/2010	Excavation of K8	NE	9.45	9.50	n	1	No odour	0	1	1	0	38.9	54.6	No	No	Clear		None	No							
I Stephenson	29/04/2010	Excavation of K8	NE1	9.50	9.55								84.4				Clear		None	No							
I Stephenson	29/04/2010	Excavation of K8	E	9.55	10.00	n	1	No odour	0	1	1	0	241.2	53.6	No	No	Clear	27cm	None	No							
I Stephenson	29/04/2010	Excavation of K8	SE	10.00	10.05	n	1	No odour	0	1	1	0		49.8	No	No			None	No							
I Stephenson	29/04/2010	Excavation of K8	S	10.05	10.10	n	1	No odour	0	2	1	0	40.8	54.6	No	No			None	No							
I Stephenson	29/04/2010	Excavation of K8	SW	10.10	10.15	n	1	No odour	0	3	1	0		65.1	No	No			None	No							
I Stephenson	29/04/2010	Excavation of K8	W	10.15	10.20	n	1	No odour	0	3	1	0	54.9	71.4	No	No			None	No							
I Stephenson	29/04/2010	Excavation of K8	NW	10.20	10.25	n	1	No odour	0	2	1	0		64.7	No	No			None	No							
I Stephenson	29/04/2010	Excavation of K8	N	16.30	16.35	n	1	No odour	0	1	1	0	199.4	58.2	No	No	Clear		None	No	1.3mph	NW	14.8	rain	8	wet	Slight odour between W and N with odour control and excavation. Rain accentuated natural odours around entire site boundary
I Stephenson	29/04/2010	Excavation of K8	NE	16.35	16.40	n	1	No odour	0	1	1	0	338	59.7	No	No	Clear		None	No							
I Stephenson	29/04/2010	Excavation of K8	NE1	16.40	16.45								470				Clear		None	No							
I Stephenson	29/04/2010	Excavation of K8	E	16.45	16.50	n	1	No odour	0	1	1	0	189	53.3	No	No	Clear		None	No							
I Stephenson	29/04/2010	Excavation of K8	SE	16.50	16.55	n	1	No odour	0	1	1	0		48.1	No	No			None	No							
I Stephenson	29/04/2010	Excavation of K8	S	17.00	17.05	n	1	No odour	0	2	1	0	124.9	55.5	No	No			None	No							
I Stephenson	29/04/2010	Excavation of K8	SW	17.05	17.10	n	1	No odour	0	3	1	0		67.8	No	No			None	No							
I Stephenson	29/04/2010	Excavation of K8	W	17.10	17.15	n	1	No odour	0	3	1	0	146	70.4	No	No			None	No							
I Stephenson	29/04/2010	Excavation of K8	NW	17.15	17.20	n	1	No odour	0	2	1	0		68.3	No	No			None	No							
I Stephenson	30/04/2010	Moving treatment beds	N	9.10	9.15	n	1	no odour	0	1	1	0	114.8	58.1	No	No	Clear	18cm	None	No	6.9mph	WSW	12.2	sun	2	dry	no odour at church or organic food shop, strong odour of cut grass down church lane
I Stephenson	30/04/2010	Moving treatment beds	NE	9.15	9.20	y	2	bubblegum slight	0	1	5	0	52.4	59.8	No	No	Clear		None	No							
I Stephenson	30/04/2010	Moving treatment beds	NE1	9.20	9.25								57				Clear		None	No							
I Stephenson	30/04/2010	Moving treatment beds	E	9.25	9.30	y	2	bubblegum slight	0	1	5	0	51.4	57.2	No	No	Clear	27.5cm	None	No							
I Stephenson	30/04/2010	Moving treatment beds	SE	9.30	9.35	y	2	bubblegum slight	0	1	5	0		59.9	No	No			None	No							
I Stephenson	30/04/2010	Moving treatment beds	S	9.35	9.40	y	2	bubblegum slight	0	2	5	0	30	64.7	No	No			None	No							
I Stephenson	30/04/2010	Moving treatment beds	SW	9.40	9.45	n	1	No odour	0	3	1	0		69	No	No			None	No							
I Stephenson	30/04/2010	Moving treatment beds	W	9.45	9.50	n	1	No odour	0	3	1	0	48.8	66.6	No	No			None	No							
I Stephenson	30/04/2010	Moving treatment beds	NW	9.50	9.55	n	1	No odour	0	2	1	0		68.4	No	No			None	No							
I Stephenson	30/04/2010	Screening & bed placement	N	15.30	15.35	n	1	No odour	0	1	1	0	34	61.5	No	No	Clear		None	No	9.6	WSW	15.4	Dry	7	damp	Church funeral - did not walk to church. No odour at organic food store. No odour down church lane
I Stephenson	30/04/2010	Screening & bed placement	NE	15.35	15.40	y	2	bubblegum	0	1	5	0	13.5	57.6	No	No	Clear		None	No							
I Stephenson	30/04/2010	Screening & bed placement	NE1	15.40	15.45								31.5				Clear		None	No							
I Stephenson	30/04/2010	Screening & bed placement	E	15.45	15.50	y	2	slight bubblegum	0	1	5	0	64.7	55.8	No	No	Clear		None	No							
I Stephenson	30/04/2010	Screening & bed placement	SE	15.50	15.55	y	2	slight bubblegum	0	1	5	0		51	No	No			None	No							
I Stephenson	30/04/2010	Screening & bed placement	S	16.00	16.05	n	1	No odour	0	2	1	0	113.4	50.4	No	No			None	No							
I Stephenson	30/04/2010	Screening & bed placement	SW	16.05	16.10	n	1	No odour	0	3	1	0		69.5	No	No			None	No							
I Stephenson	30/04/2010	Screening & bed placement	W	16.10	16.15	n	1	No odour	0	3	1	0	13.7	67.2	No	No			None	No							
I Stephenson	30/04/2010	Screening & bed placement	NW	16.15	16.20	n	1	No odour	0	2	1	0		65.3	No	No			None	No							

Appendix C

Long term Passive VOC Monitoring

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

REPORT NUMBER	**GCMS 4196**
CUSTOMER	**Vertase FLI**
	1 Middle Bridge Business park
	Bristol Road
	Portishead
	Bristol BS21 6PN
GRADKO LAB REFERENCE	**GMSE 0597-0605**
DATE SAMPLES RECEIVED	**24.03.10**
BOOKING IN REF.	**D 1595**
JOB NUMBER:	**907/BRI/3973**

SEMI-QUANTITATIVE ANALYSIS FOR TOP 10 VOC'S ON TENAX DIFFUSION TUBES BY GC/MS

Tube Number	**GRA 03718****
Exposure Time (mins)	**40458**
Sample ID	**NW**

Top 10 VOC's

Compounds	**ng on tube**	**ppb in air***
Naphthalene	28.44	0.35
p-Xylene	12.11	0.15
Ethylbenzene	6.03	0.07
o-Xylene	5.05	0.06
Biphenylene	3.38	0.04
Benzothiazole	2.90	0.04

6 Compounds detected

Tube Number	**GRA 06463**
Exposure Time (mins)	**40482**
Sample ID	**N**

Top 10 VOC's

Compounds	**ng on tube**	**ppb in air***
p-Xylene	164.04	2.03
Benzene, 1,2,4-trimethyl-	112.46	1.39

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.

REPORT OFFICIALLY CHECKED

Gradko International Ltd
This signature confirms the authenticity of this document
Signed.....
A. Grout, Laboratory Manager

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

Naphthalene	95.58	1.18
Benzene, 1-ethyl-2-methyl-	88.64	1.09
Dodecane	51.25	0.63
Naphthalene, 1-methyl-	49.98	0.62
o-Xylene	43.75	0.54
Ethylbenzene	40.38	0.50
Toluene	36.46	0.45
Naphthalene, 2-methyl-	35.58	0.44

Tube Number	**GRA 05990**
Exposure Time (mins)	**40478**
Sample ID	**E**

Top 10 VOC's

Compounds	**ng on tube**	**ppb in air***
p-Xylene	1530	19
Benzene, 1,2,4-trimethyl-	868.28	10.73
Benzene, 1-ethyl-2-methyl-	706.50	8.73
o-Xylene	443.31	5.48
Ethylbenzene	343.76	4.25
Benzene, 1,3,5-trimethyl-	291.91	3.61
Benzene, 1,2,3-trimethyl-	270.44	3.34
Benzene, 2-ethyl-1,4-dimethyl-	195.35	2.41
Benzene, 1-methyl-3-propyl-	194.84	2.41
Benzene, 1-ethyl-3-methyl-	172.38	2.13

Tube Number	**GRA 00514**
Exposure Time (mins)	**40481**
Sample ID	**SE**

Top 10 VOC's

Compounds	**ng on tube**	**ppb in air***
p-Xylene	52.52	0.65
Naphthalene	33.80	0.42
Toluene	22.51	0.28

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.

REPORT OFFICIALLY CHECKED

Gradko International Ltd
This signature confirms the authenticity of this document
Signed.....
A. Grout, Laboratory Manager

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

Benzene, 1,2,4-trimethyl-	21.00	0.26
o-Xylene	20.32	0.25
Ethylbenzene	20.30	0.25
Acetone	19.16	0.24
Phenol	13.36	0.17
Benzene	13.21	0.16
Benzamide, N,N-dimethyl-	8.54	0.11

Tube Number **GRA 04158**
Exposure Time (mins) **40401**
Sample ID **S**

Top 10 VOC's

Compounds	**ng on tube**	**ppb in air***
Octadecane	48.21	0.60
Nonadecane	44.05	0.55
Heptadecane	42.13	0.52
p-Xylene	24.75	0.31
Naphthalene	21.04	0.26
Toluene	17.34	0.21
Hexadecane	13.74	0.17
Benzene, 1,2,4-trimethyl-	12.87	0.16
Benzene	12.83	0.16
Phenol	11.09	0.14

Tube Number **GRA 06278**
Exposure Time (mins) **40402**
Sample ID **SW**

Top 10 VOC's

Compounds	**ng on tube**	**ppb in air***
p-Xylene	66.29	0.82
Ethylbenzene	44.80	0.55
Naphthalene	37.87	0.47
Toluene	27.27	0.34

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.

REPORT OFFICIALLY CHECKED

Gradko International Ltd
This signature confirms the authenticity of this document
Signed.....
A. Grout, Laboratory Manager

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	26.78	0.33
Benzene, 1,2,4-trimethyl-	18.75	0.23
Heptadecane	18.52	0.23
Benzamide, N,N-dimethyl-	17.79	0.22
Acetone	12.62	0.16
Benzene	11.98	0.15

Tube Number	**GRA 06194**
Exposure Time (mins)	**40402**
Sample ID	**W**

Top 10 VOC's

Compounds	**ng on tube**	**ppb in air***
Octadecane	169.27	2.09
Nonadecane	155.71	1.93
Heptadecane	105.21	1.30
Eicosane	78.30	0.97
Naphthalene	39.84	0.49
Ethylbenzene	34.54	0.43
Heptadecane, 3-methyl-	32.04	0.40
Benzene, 1,2,4-trimethyl-	31.97	0.40
Naphthalene, 1-methyl-	31.45	0.39
Heptadecane, 2-methyl-	30.94	0.38

Tube Number	**GRA 04796**
Exposure Time (mins)	**40539**
Sample ID	**WTW**

Top 10 VOC's

Compounds	**ng on tube**	**ppb in air***
1S-.alpha.-Pinene	405.11	5.00
p-Xylene	38.79	0.48
Bicyclo[3.1.1]hept-3-en-2-one, 4,6,6-trimethyl-, (1S)-	49.93	0.62
Phenanthrene, 7-ethenyl-1,2,3,4,4a,4b,5,6,7,8,10,10a-dodecahydro-1,1,4a,7-tetramethyl-, [4aS-	75.78	0.93

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.

REPORT OFFICIALLY CHECKED

Gradko International Ltd
This signature confirms the authenticity of this document
Signed.....
A. Grout, Laboratory Manager

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

(4a.alpha.,4b.beta.,7.beta.,10a.beta.)]-		
Camphene	29.28	0.36
Benzamide, N,N-dimethyl-	25.60	0.32
Naphthalene	24.24	0.30
Ethylbenzene	22.59	0.28
Acetone	21.56	0.27
Toluene	16.10	0.20

Tube Number	**GRA 05214**
Exposure Time (mins)	**40480**
Sample ID	**NE**

Top 10 VOC's

Compounds	**ng on tube**	**ppb in air***
Naphthalene	303.80	3.75
Dodecane	90.57	1.12
Undecane	79.60	0.98
Naphthalene, 1-methyl-	67.11	0.83
Indene	55.10	0.68
Tridecane	53.85	0.67
p-Xylene	53.17	0.66
Benzene, 1,2,4-trimethyl-	52.39	0.65
Naphthalene, 2-methyl-	46.81	0.58
Ethylbenzene	29.28	0.36

Comments: Results greater than 1000ng are outside of our UKAS accredited calibration range.
****Tube contained moisture.**

MOU 8.24%+-(Unspecified peak-Toluene)

Analyst Name	**M.Angelova**	**Date of Analysis**	**14.04.10**
Analyst Signature		**Date of Report**	**20.04.10**

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.

REPORT OFFICIALLY CHECKED

Gradko International Ltd
This signature confirms the authenticity of this document
Signed.....
A. Grout, Laboratory Manager

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

REPORT NUMBER	**GCMS 4231**
CUSTOMER	**Vertase FLI**
	1 Middle Bridge Business park
	Bristol Road
	Portishead
	Bristol BS21 6PN
GRADKO LAB REFERENCE	**GMSE 0723-0731**
DATE SAMPLES RECEIVED	**20.04.10**
BOOKING IN REF.	**D 2088**
JOB NUMBER:	**907/BRI/3973**

SEMI-QUANTITATIVE ANALYSIS FOR TOP 10 VOC'S ON TENAX DIFFUSION TUBES BY GC/MS

Tube Number	**GRA 01736**
Exposure Time (mins)	**38640**
Sample ID	**N**

Top 10 VOC's

Compounds	**ng on tube**	**ppb in air***
p-Xylene	501.93	6.49
Benzene, 1,2,4-trimethyl-	384.27	4.97
Benzene, 1-ethyl-4-methyl-	222.96	2.89
Toluene	164.88	2.13
o-Xylene	157.39	2.04
Benzene, 1,2,3-trimethyl-	143.08	1.85
Naphthalene	136.81	1.77
Benzene, 1,3,5-trimethyl-	125.41	1.62
Ethylbenzene	108.28	1.40
Benzene, 2-ethyl-1,4-dimethyl-	93.36	1.21

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.

REPORT OFFICIALLY CHECKED

Gradko International Ltd
This signature confirms the authenticity of this document
Signed.....
A. Grout, Laboratory Manager

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

Tube Number	**GRA 03495**
Exposure Time (mins)	**38580**
Sample ID	**S**

Top 10 VOC's

Compounds	**ng on tube**	**ppb in air***
p-Xylene	63.19	0.82
Acetone	62.50	0.81
Ethylbenzene	53.13	0.69
o-Xylene	40.41	0.52
Toluene	26.84	0.35
Benzene, 1,2,4-trimethyl-	15.82	0.21
Phenol	13.38	0.17
Benzene	11.25	0.15
Tetrachloroethylene	10.94	0.14
Dodecane	10.59	0.14

Tube Number	**GRA 02539**
Exposure Time (mins)	**38700**
Sample ID	**E**

Top 10 VOC's

Compounds	**ng on tube**	**ppb in air***
1R-.alpha.-Pinene	30.46	0.39
Toluene	29.71	0.38
p-Xylene	14.74	0.19
Tetrachloroethylene	11.99	0.15
Phenol	11.28	0.15
Benzene, 1,2,3-trimethyl-	9.43	0.12
o-Xylene	8.27	0.11
Ethylbenzene	4.63	0.06

8 Compounds detected

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.

REPORT OFFICIALLY CHECKED

Gradko International Ltd
This signature confirms the authenticity of this document
Signed.....
A. Grout, Laboratory Manager

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

Tube Number	**GRA 03053**
Exposure Time (mins)	**38640**
Sample ID	**W**

Top 10 VOC's

Compounds	**ng on tube**	**ppb in air***
Naphthalene	46.58	0.60
Toluene	37.00	0.48
Tetrachloroethylene	17.57	0.23
p-Xylene	15.59	0.20
Cyclohexanone	15.13	0.20
Benzene, 1,2,4-trimethyl-	13.90	0.18
Hexadecane	9.34	0.12
Benzene	8.52	0.11
Naphthalene, 1-methyl-	7.53	0.10
Pentadecane	6.64	0.09

Tube Number	**GRA 03778**
Exposure Time (mins)	**38640**
Sample ID	**NW**

Top 10 VOC's

Compounds	**ng on tube**	**ppb in air***
Toluene	56.55	0.73
p-Xylene	19.06	0.25
Tetrachloroethylene	15.13	0.20
Phenol	14.60	0.19
Benzene	10.26	0.13
Benzene, 1,2,4-trimethyl-	9.65	0.12
o-Xylene	8.42	0.11
Ethylbenzene	6.31	0.08

8 Compounds detected

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.

REPORT OFFICIALLY CHECKED

Gradko International Ltd
This signature confirms the authenticity of this document
Signed.....
A. Grout, Laboratory Manager

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

Tube Number	**GRA 05997**
Exposure Time (mins)	**38580**
Sample ID	**NE**

Top 10 VOC's

Compounds	**ng on tube**	**ppb in air***
Sulfanilamide	108.05	1.40
Toluene	84.73	1.10
p-Xylene	33.29	0.43
Tetrachloroethylene	20.88	0.27
Benzamide, N,N-dimethyl-	13.40	0.17
Naphthalene	12.31	0.16
o-Xylene	11.78	0.15
Acetic acid	11.14	0.14
Benzene, 1,2,4-trimethyl-	9.97	0.13
Benzene	9.12	0.12

Tube Number	**GRA 06067**
Exposure Time (mins)	**38640**
Sample ID	**SW**

Top 10 VOC's

Compounds	**ng on tube**	**ppb in air***
p-Xylene	20.45	0.26
Toluene	19.12	0.25
Acetic acid	17.47	0.23
Benzamide, N,N-dimethyl-	16.01	0.21
Benzothiazole	13.26	0.17
Phenol	11.36	0.15
Benzene	10.96	0.14
Heptadecane	10.72	0.14
Benzene, 1,2,4-trimethyl-	9.76	0.13
Hexadecane	9.62	0.12

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

REPORT OFFICIALLY CHECKED

Gradko International Ltd
This signature confirms the authenticity of this document
Signed.....
A. Grout, Laboratory Manager

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

Tube Number	**GRA 05447**
Exposure Time (mins)	**38580**
Sample ID	**SE**

Top 10 VOC's

Compounds	**ng on tube**	**ppb in air***
Cyclohexane, isocyanato-	40.80	0.53
Toluene	32.85	0.43
Acetic acid	16.03	0.21
Heptadecane	15.61	0.20
Phenol	15.22	0.20
p-Xylene	12.26	0.16
Decane	11.80	0.15
Hexadecane	11.38	0.15
Benzene	10.54	0.14
Formamide, N,N-dimethyl-	9.89	0.13

Tube Number	**GRA 04615****
Exposure Time (mins)	**38640**
Sample ID	**WTW**

Top 10 VOC's

Compounds	**ng on tube**	**ppb in air***
Naphthalene	162.12	2.10
Naphthalene, 1-methyl-	61.16	0.79
Decane	58.75	0.76
Naphthalene, 2-methyl-	51.87	0.67
Tetrachloroethylene	39.64	0.51
p-Xylene	31.33	0.41
Naphthalene, 1,4-dimethyl-	27.98	0.36
Benzamide, N,N-dimethyl-	23.90	0.31
Acenaphthylene	22.72	0.29
Naphthalene, 2,7-dimethyl-	22.00	0.28

****Tube was received unlabelled**

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.

REPORT OFFICIALLY CHECKED

Gradko International Ltd
This signature confirms the authenticity of this document
Signed.....
A. Grout, Laboratory Manager

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

MOU 8.24%+-(Unspecified peak-Toluene)

Analyst Name	**M.Angelova**	**Date of Analysis**	**26.04.10**
Analyst Signature		**Date of Report**	**27.04.10**

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.

REPORT OFFICIALLY CHECKED

Gradko International Ltd
This signature confirms the authenticity of this document
Signed.....
A. Grout, Laboratory Manager

Appendix D

Directional Dust Monitoring

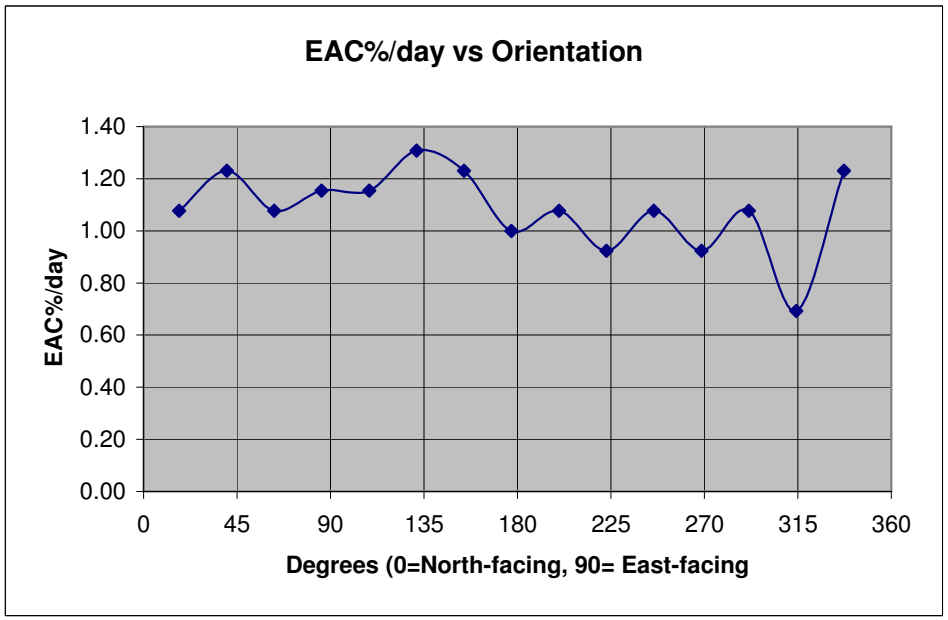
Chemtest

Sticky Pad Data

Gauge Number - North location 907BRI

Sticky Pad Data

Date On	19/03/2010	Date Off	01/04/2010	Days = 13
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	74	337	1.23	
40	81	314	0.69	
60	76	291	1.08	
80	78	269	0.92	
100	76	246	1.08	
120	78	223	0.92	
140	76	200	1.08	
160	77	177	1.00	
180	74	154	1.23	
200	73	131	1.31	
220	75	109	1.15	
240	75	86	1.15	
260	76	63	1.08	
280	74	40	1.23	
300	76	17	1.08	



Note: Cells coloured yellow are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 40mm intervals along the sticky pad.

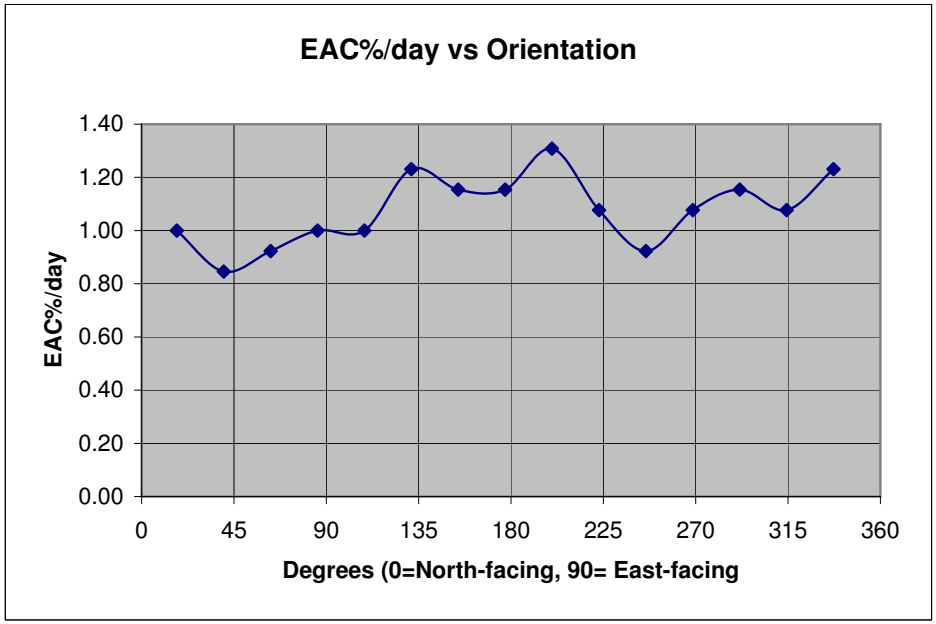
Chemtest

Sticky Pad Data

Gauge Number - NE1 location 907BRI

Sticky Pad Data

Date On	19/03/2010	Date Off	01/04/2010	Days = 13
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	74	337	1.23	
40	76	314	1.08	
60	75	291	1.15	
80	76	269	1.08	
100	78	246	0.92	
120	76	223	1.08	
140	73	200	1.31	
160	75	177	1.15	
180	75	154	1.15	
200	74	131	1.23	
220	77	109	1.00	
240	77	86	1.00	
260	78	63	0.92	
280	79	40	0.85	
300	77	17	1.00	



Note: Cells coloured yellow are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 40mm intervals along the sticky pad.

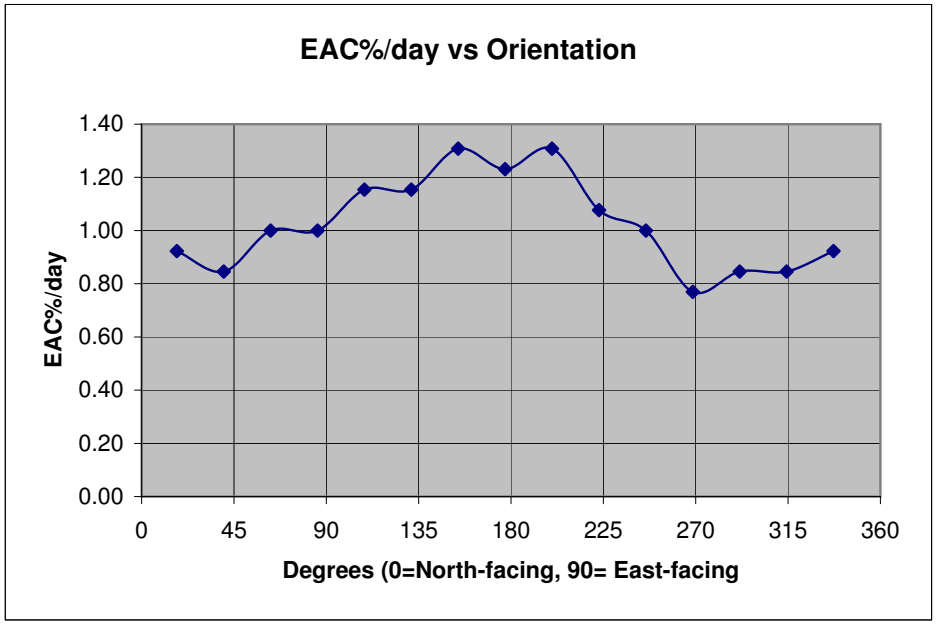
Chemtest

Sticky Pad Data

Gauge Number - NE2 location 907BRI

Sticky Pad Data

Date On	19/03/2010	Date Off	01/04/2010	Days = 13
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	78	337	0.92	
40	79	314	0.85	
60	79	291	0.85	
80	80	269	0.77	
100	77	246	1.00	
120	76	223	1.08	
140	73	200	1.31	
160	74	177	1.23	
180	73	154	1.31	
200	75	131	1.15	
220	75	109	1.15	
240	77	86	1.00	
260	77	63	1.00	
280	79	40	0.85	
300	78	17	0.92	



Note: Cells coloured yellow are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 40mm intervals along the sticky pad.

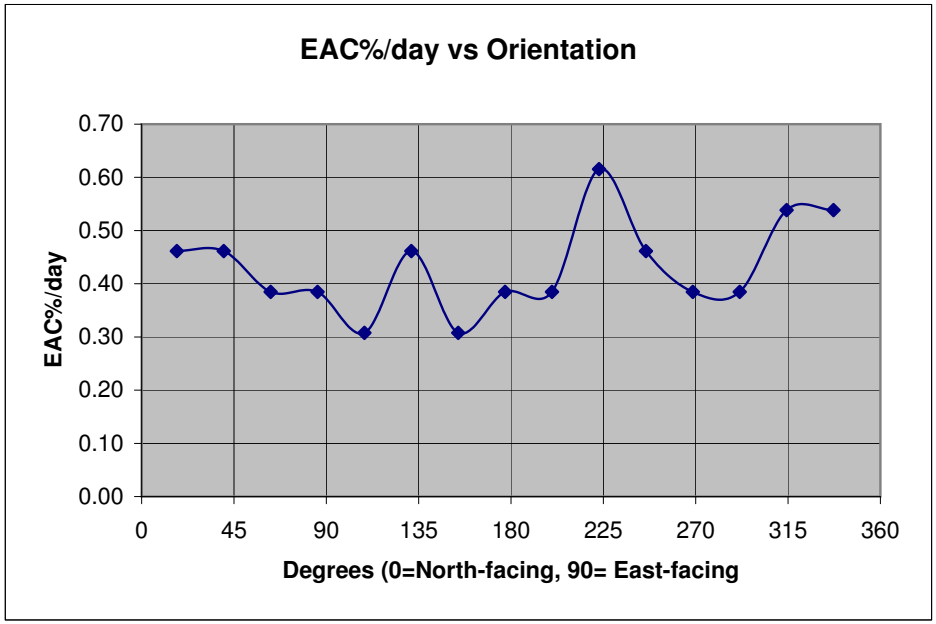
Chemtest

Sticky Pad Data

Gauge Number - South location 907BRI

Sticky Pad Data

Date On	19/03/2010	Date Off	01/04/2010	Days = 13
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	83	337	0.54	
40	83	314	0.54	
60	85	291	0.38	
80	85	269	0.38	
100	84	246	0.46	
120	82	223	0.62	
140	85	200	0.38	
160	85	177	0.38	
180	86	154	0.31	
200	84	131	0.46	
220	86	109	0.31	
240	85	86	0.38	
260	85	63	0.38	
280	84	40	0.46	
300	84	17	0.46	



Note: Cells coloured yellow are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 40mm intervals along the sticky pad.

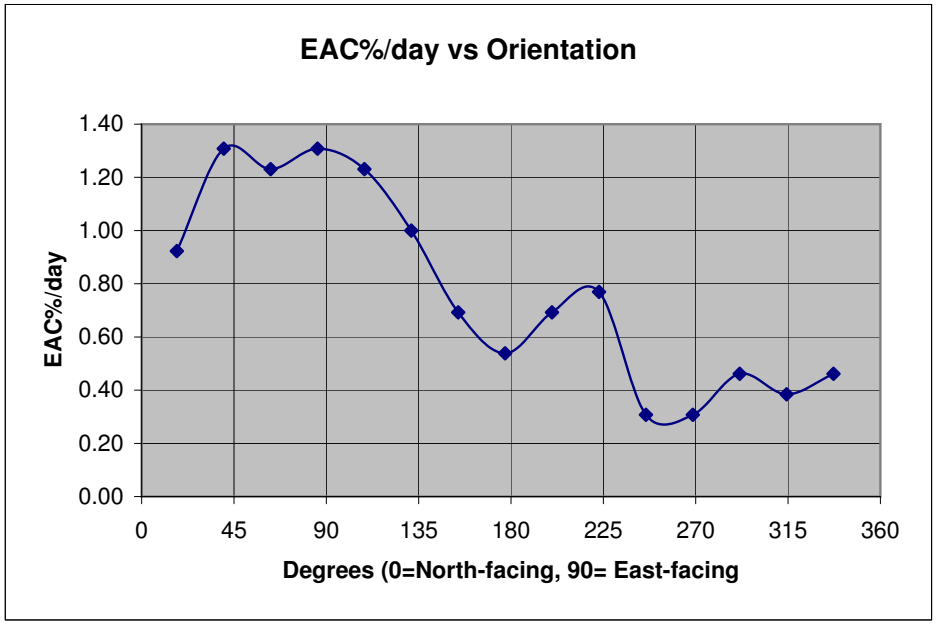
Chemtest

Sticky Pad Data

Gauge Number - West location 907BRI

Sticky Pad Data

Date On	19/03/2010	Date Off	01/04/2010	Days = 13
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	84	337	0.46	
40	85	314	0.38	
60	84	291	0.46	
80	86	269	0.31	
100	86	246	0.31	
120	80	223	0.77	
140	81	200	0.69	
160	83	177	0.54	
180	81	154	0.69	
200	77	131	1.00	
220	74	109	1.23	
240	73	86	1.31	
260	74	63	1.23	
280	73	40	1.31	
300	78	17	0.92	



Note: Cells coloured yellow are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 40mm intervals along the sticky pad.

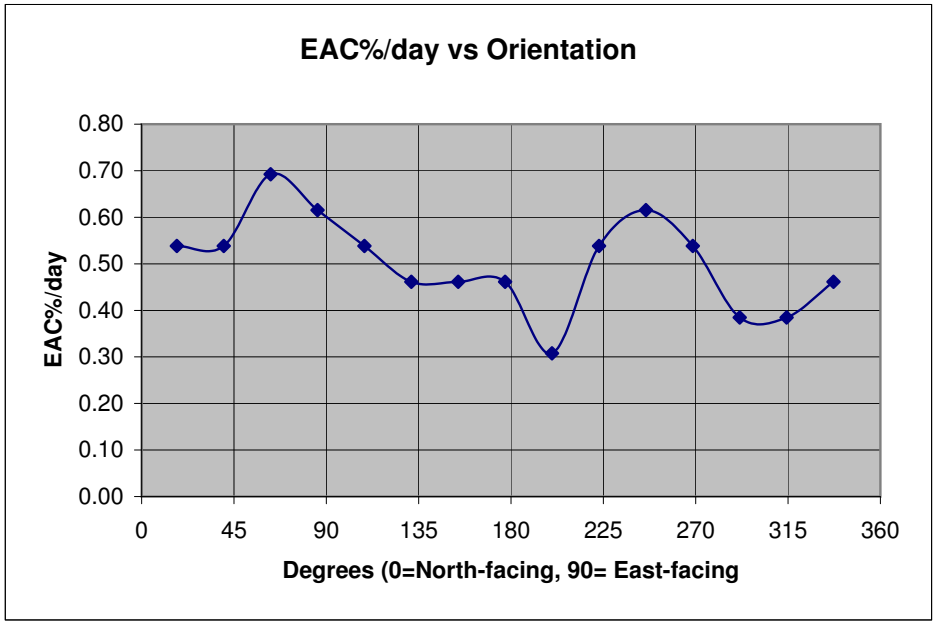
Chemtest

Sticky Pad Data

Gauge Number - East location 907BRI

Sticky Pad Data

Date On	19/03/2010	Date Off	01/04/2010	Days = 13
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	84	337	0.46	
40	85	314	0.38	
60	85	291	0.38	
80	83	269	0.54	
100	82	246	0.62	
120	83	223	0.54	
140	86	200	0.31	
160	84	177	0.46	
180	84	154	0.46	
200	84	131	0.46	
220	83	109	0.54	
240	82	86	0.62	
260	81	63	0.69	
280	83	40	0.54	
300	83	17	0.54	



Note: Cells coloured yellow are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 40mm intervals along the sticky pad.

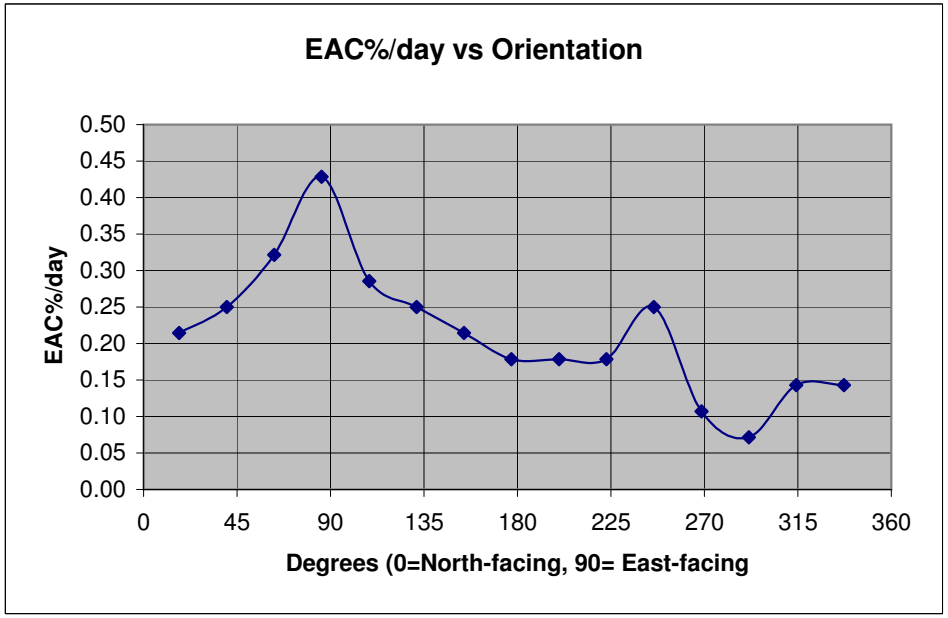
Chemtest

Sticky Pad Data

Gauge Number - North location 907BRI

Sticky Pad Data

Date On	19/02/2010	Date Off	19/03/2010	Days = 28
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	86	337	0.14	
40	86	314	0.14	
60	88	291	0.07	
80	87	269	0.11	
100	83	246	0.25	
120	85	223	0.18	
140	85	200	0.18	
160	85	177	0.18	
180	84	154	0.21	
200	83	131	0.25	
220	82	109	0.29	
240	78	86	0.43	
260	81	63	0.32	
280	83	40	0.25	
300	84	17	0.21	



Note: Cells coloured yellow are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 40mm intervals along the sticky pad.

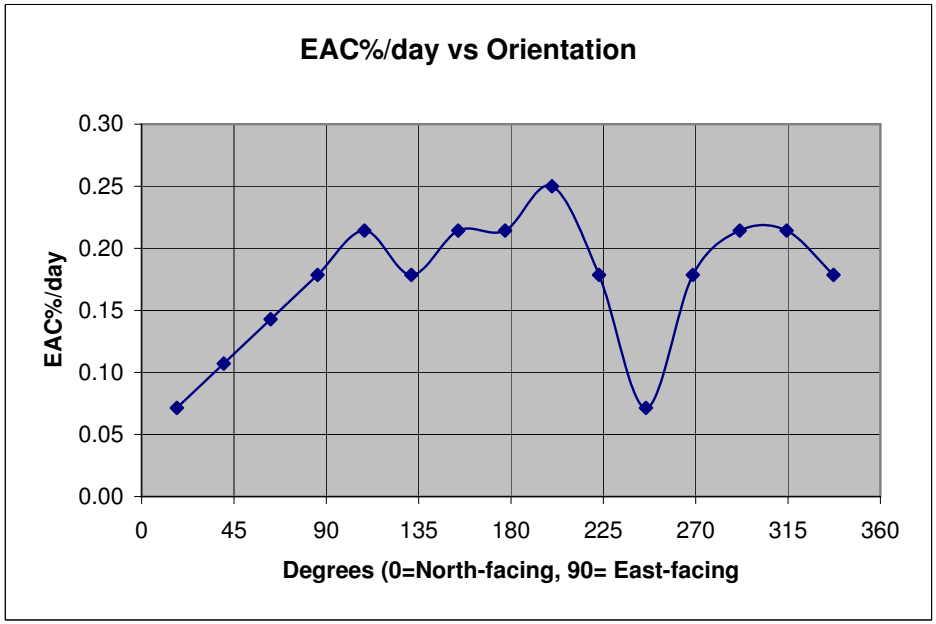
Chemtest

Sticky Pad Data

Gauge Number - NE1 location 907BRI

Sticky Pad Data

Date On	19/02/2010	Date Off	19/03/2010	Days = 28
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	85	337	0.18	
40	84	314	0.21	
60	84	291	0.21	
80	85	269	0.18	
100	88	246	0.07	
120	85	223	0.18	
140	83	200	0.25	
160	84	177	0.21	
180	84	154	0.21	
200	85	131	0.18	
220	84	109	0.21	
240	85	86	0.18	
260	86	63	0.14	
280	87	40	0.11	
300	88	17	0.07	



Note: Cells coloured yellow are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 40mm intervals along the sticky pad.

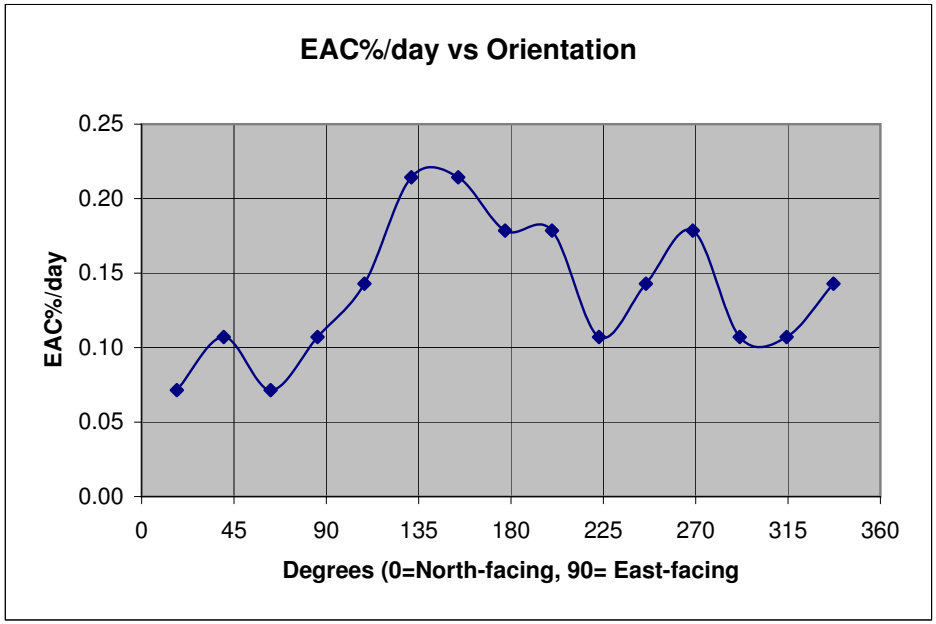
Chemtest

Sticky Pad Data

Gauge Number - South location 907BRI

Sticky Pad Data

Date On	19/02/2010	Date Off	19/03/2010	Days = 28
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	86	337	0.14	
40	87	314	0.11	
60	87	291	0.11	
80	85	269	0.18	
100	86	246	0.14	
120	87	223	0.11	
140	85	200	0.18	
160	85	177	0.18	
180	84	154	0.21	
200	84	131	0.21	
220	86	109	0.14	
240	87	86	0.11	
260	88	63	0.07	
280	87	40	0.11	
300	88	17	0.07	



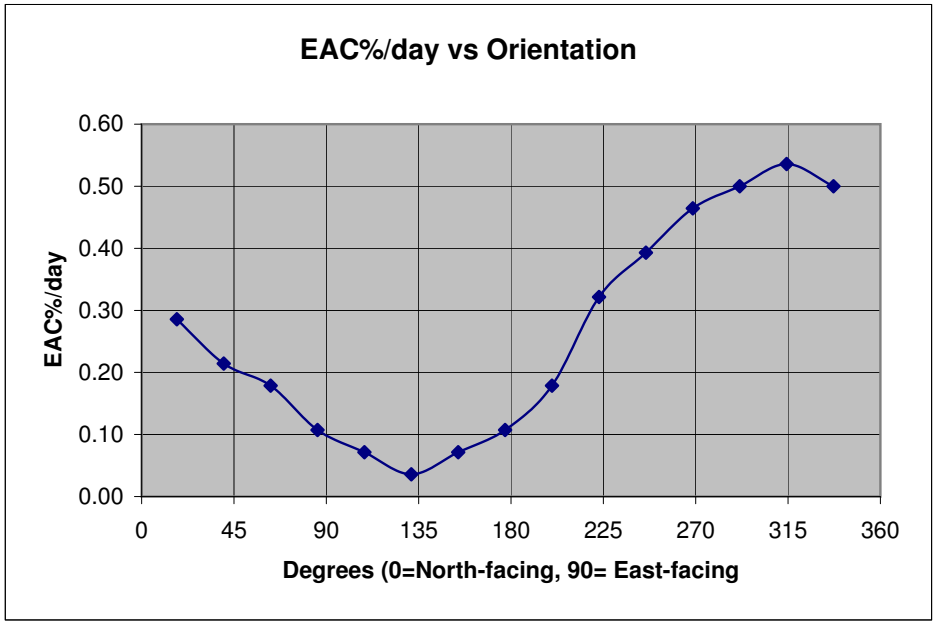
Note: Cells coloured yellow are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 40mm intervals along the sticky pad.

Chemtest **Sticky Pad Data**

Gauge Number - West location 907BRI

Sticky Pad Data

Date On	19/02/2010	Date Off	19/03/2010	Days = 28
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	76	337	0.50	
40	75	314	0.54	
60	76	291	0.50	
80	77	269	0.46	
100	79	246	0.39	
120	81	223	0.32	
140	85	200	0.18	
160	87	177	0.11	
180	88	154	0.07	
200	89	131	0.04	
220	88	109	0.07	
240	87	86	0.11	
260	85	63	0.18	
280	84	40	0.21	
300	82	17	0.29	



Note: Cells coloured yellow are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 40mm intervals along the sticky pad.

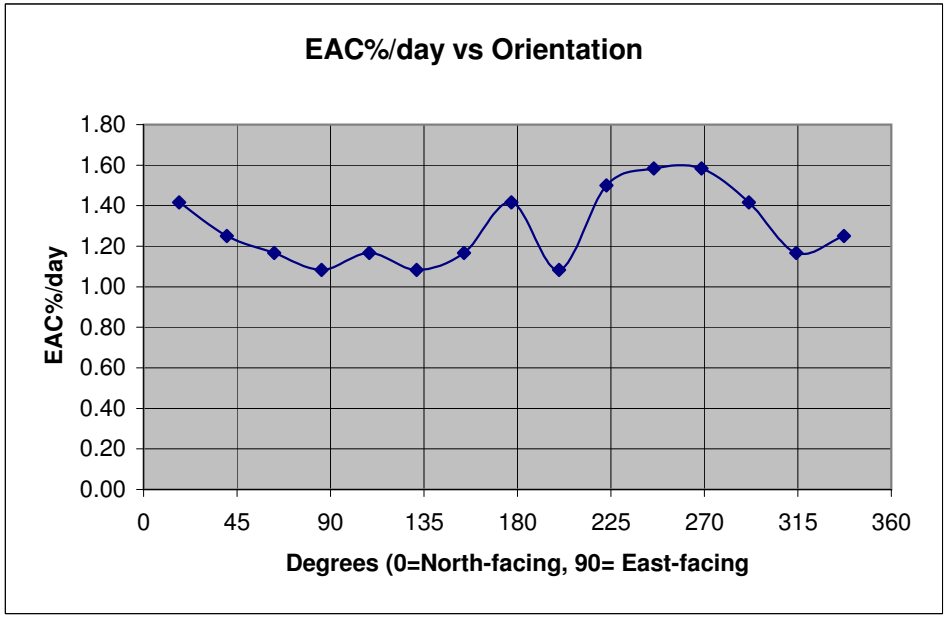
Chemtest

Sticky Pad Data

Gauge Number - North location 907BRI

Sticky Pad Data

Date On	01/04/2010	Date Off	13/04/2010	Days = 12
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	75	337	1.25	
40	76	314	1.17	
60	73	291	1.42	
80	71	269	1.58	
100	71	246	1.58	
120	72	223	1.50	
140	77	200	1.08	
160	73	177	1.42	
180	76	154	1.17	
200	77	131	1.08	
220	76	109	1.17	
240	77	86	1.08	
260	76	63	1.17	
280	75	40	1.25	
300	73	17	1.42	



Note: Cells coloured yellow are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 40mm intervals along the sticky pad.

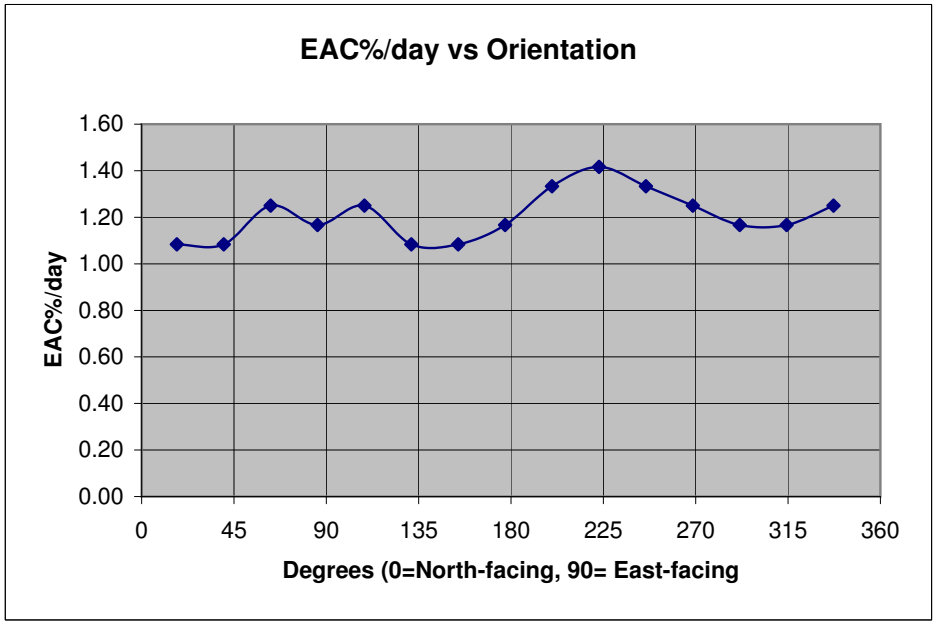
Chemtest

Sticky Pad Data

Gauge Number - NE1 location 907BRI

Sticky Pad Data

Date On	01/04/2010	Date Off	13/04/2010	Days = 12
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	75	337	1.25	
40	76	314	1.17	
60	76	291	1.17	
80	75	269	1.25	
100	74	246	1.33	
120	73	223	1.42	
140	74	200	1.33	
160	76	177	1.17	
180	77	154	1.08	
200	77	131	1.08	
220	75	109	1.25	
240	76	86	1.17	
260	75	63	1.25	
280	77	40	1.08	
300	77	17	1.08	



Note: Cells coloured yellow are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 40mm intervals along the sticky pad.

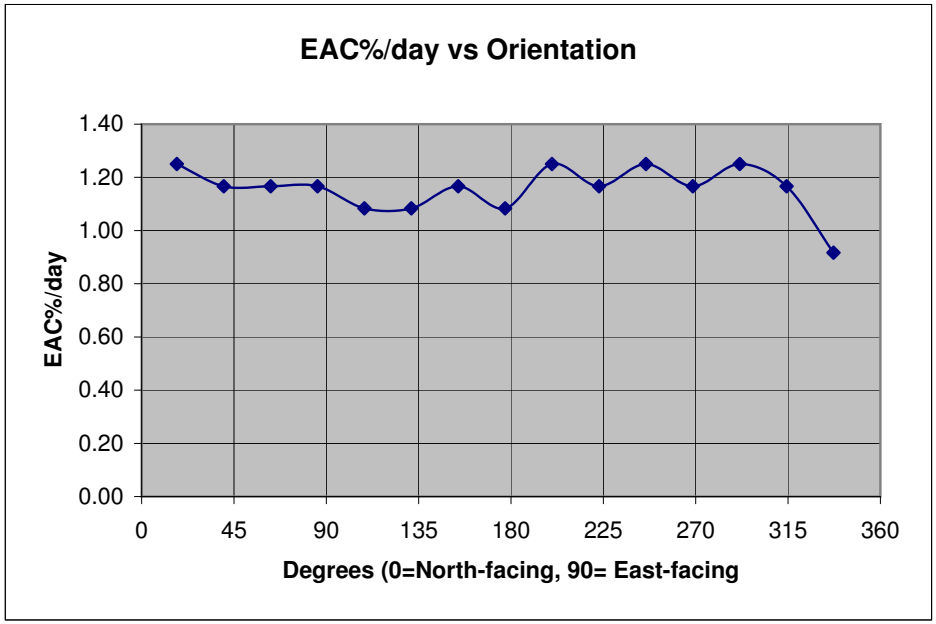
Chemtest

Sticky Pad Data

Gauge Number - NE2 location 907BRI

Sticky Pad Data

Date On	01/04/2010	Date Off	13/04/2010	Days = 12
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	79	337	0.92	
40	76	314	1.17	
60	75	291	1.25	
80	76	269	1.17	
100	75	246	1.25	
120	76	223	1.17	
140	75	200	1.25	
160	77	177	1.08	
180	76	154	1.17	
200	77	131	1.08	
220	77	109	1.08	
240	76	86	1.17	
260	76	63	1.17	
280	76	40	1.17	
300	75	17	1.25	



Note: Cells coloured yellow are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 40mm intervals along the sticky pad.

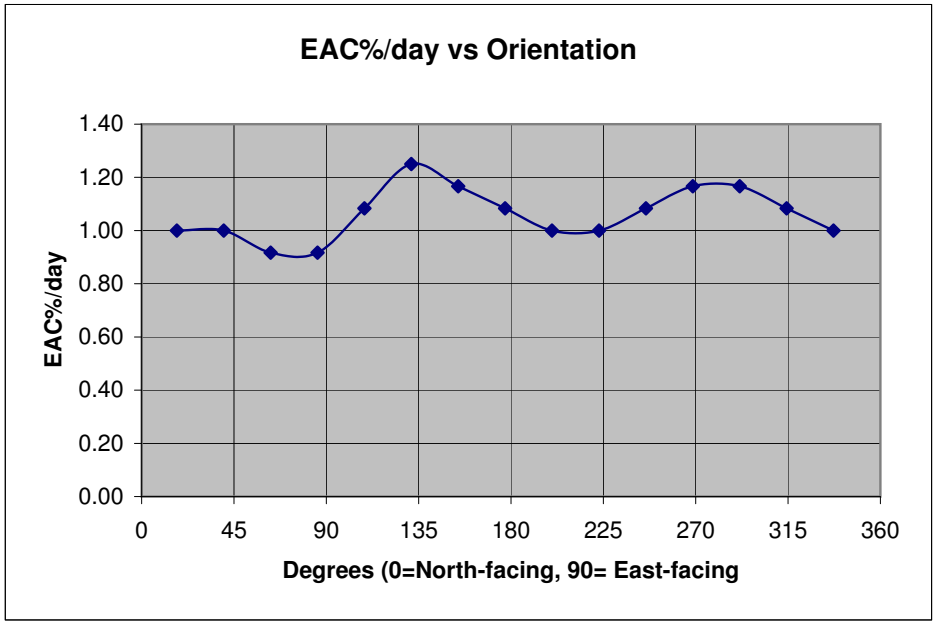
Chemtest

Sticky Pad Data

Gauge Number - South location 907BRI

Sticky Pad Data

Date On	01/04/2010	Date Off	13/04/2010	Days = 12
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	78	337	1.00	
40	77	314	1.08	
60	76	291	1.17	
80	76	269	1.17	
100	77	246	1.08	
120	78	223	1.00	
140	78	200	1.00	
160	77	177	1.08	
180	76	154	1.17	
200	75	131	1.25	
220	77	109	1.08	
240	79	86	0.92	
260	79	63	0.92	
280	78	40	1.00	
300	78	17	1.00	



Note: Cells coloured yellow are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 40mm intervals along the sticky pad.

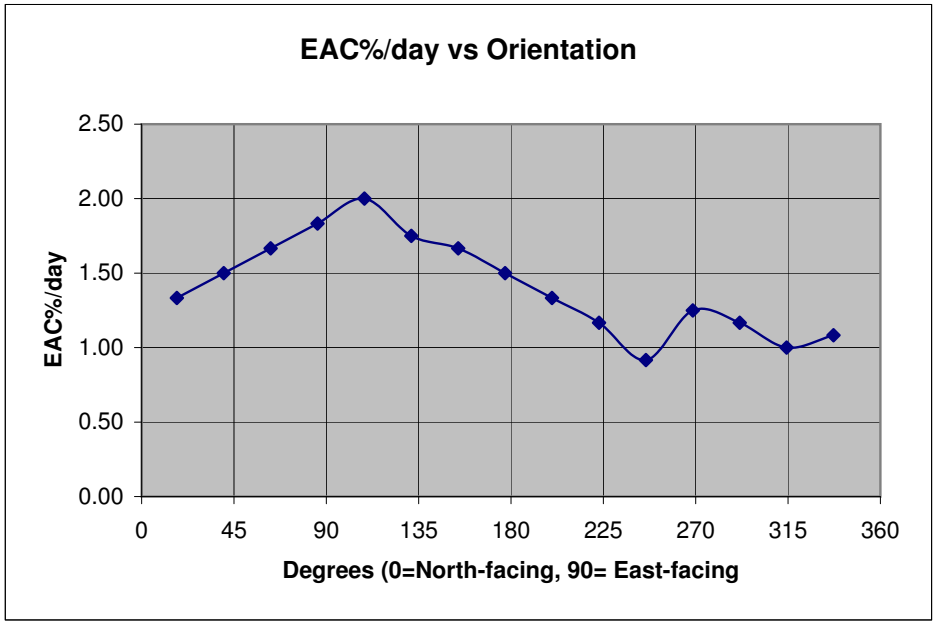
Chemtest

Sticky Pad Data

Gauge Number - West location 907BRI

Sticky Pad Data

Date On	01/04/2010	Date Off	13/04/2010	Days = 12
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	77	337	1.08	
40	78	314	1.00	
60	76	291	1.17	
80	75	269	1.25	
100	79	246	0.92	
120	76	223	1.17	
140	74	200	1.33	
160	72	177	1.50	
180	70	154	1.67	
200	69	131	1.75	
220	66	109	2.00	
240	68	86	1.83	
260	70	63	1.67	
280	72	40	1.50	
300	74	17	1.33	



Note: Cells coloured yellow are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 40mm intervals along the sticky pad.

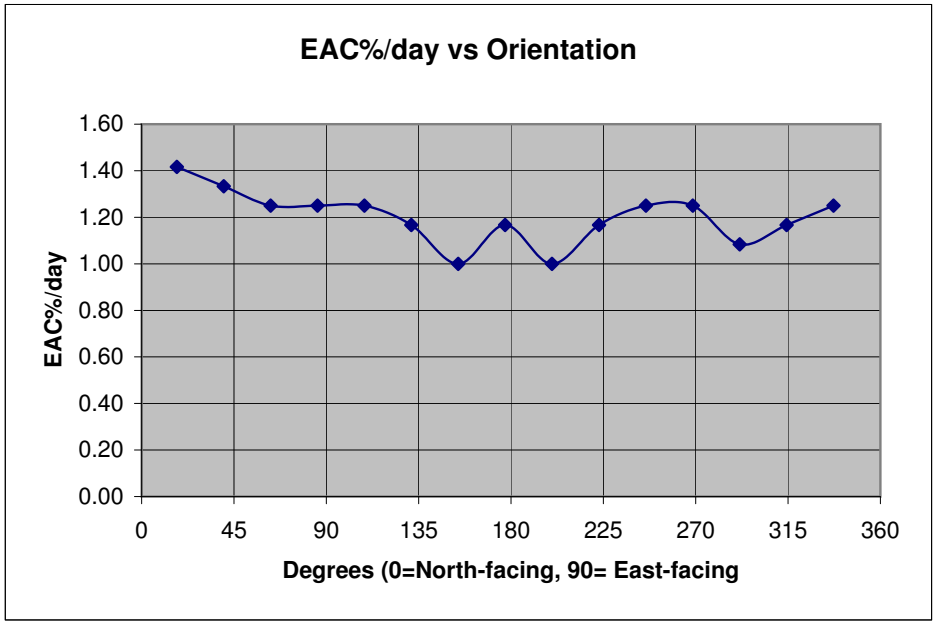
Chemtest

Sticky Pad Data

Gauge Number - East location 907BRI

Sticky Pad Data

Date On	01/04/2010	Date Off	13/04/2010	Days = 12
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	75	337	1.25	
40	76	314	1.17	
60	77	291	1.08	
80	75	269	1.25	
100	75	246	1.25	
120	76	223	1.17	
140	78	200	1.00	
160	76	177	1.17	
180	78	154	1.00	
200	76	131	1.17	
220	75	109	1.25	
240	75	86	1.25	
260	75	63	1.25	
280	74	40	1.33	
300	73	17	1.42	



Note: Cells coloured yellow are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 40mm intervals along the sticky pad.

Appendix E
Groundwater Level Data

Date	BH6/06	S3/4	BH4	P67**	BH19	BH10B/06	BH9	S1/8	BH11*	S2/3	S2/6	BH1/06	BH2/06	BH3/06	BH4/06	BH5/06	S1/29	BH8/06	S1/15	RIDDY	CAM	BHB1	BHB2	BHB3	W1 (n)	W2	W3 (s)	Riddy 1	Riddy 2	Riddy 3	Riddy 4
24/03/2010	10.709		10.491		11.377	11.728		11.352			11.330	12.231		11.327								9.969	9.971	10.389	9.858	9.838	12.510				
25/03/2010	10.640	10.175	10.764	Lost	11.295	10.711	10.869	11.355	10.363		11.340	11.770		12.027								10.270	10.440	10.432	10.330	10.300	10.310	9.179	9.292	9.567	9.651
26/03/2010																															
29/03/2010	10.548	10.458	10.293	Lost	11.382	10.729	10.723	11.326	10.159		11.251	11.708		11.301				9.921				9.811	9.895	10.187	9.838	9.834	9.859	9.179	9.292	9.567	9.651
30/03/2010	10.527	10.394	10.290	Lost	11.396	10.742	10.707	11.382	10.115		11.247	11.808		12.118				9.941				9.797	9.876	12.010	9.847	9.839	9.861	9.239	9.288	9.616	9.660
31/03/2010	10.518		11.260	Lost	11.528	-1268.939		11.350			11.241	11.813		11.337				9.949				10.769	10.873	12.010	9.839	9.838	9.858				
01/04/2010	10.440	10.530	10.544	Lost	11.425	10.851	10.929	11.124	10.363		11.103	11.611		11.220				9.912				10.080	10.310	10.320	10.340	10.290	10.050	9.219	9.304	9.570	10.169
06/04/2010	10.402		10.615	Lost	11.554	11.032		11.279			11.169	11.649		11.229				9.979				10.019	10.232	10.106	10.349	10.291	10.309				
07/04/2010	10.391	10.749	10.687	Lost	11.534	10.996	11.000	11.281	10.257		11.157	11.736		11.228				9.988				9.993	10.211	10.046	10.340	10.290	10.297	9.136	9.285	9.499	9.648
08/04/2010	10.362	10.742	10.663	Lost	11.487	10.940	10.990	11.225	10.221		11.125	11.643		11.199				9.983				9.991	10.183	10.046	10.323	9.866	10.286	9.129	9.278	9.578	9.647
09/04/2010	10.348	10.759	10.640	Lost	11.434	10.908	10.978	11.231	10.194		11.122	11.657		11.189				9.991				9.966	10.162	9.989	10.299	10.241	10.257	9.135	9.280	9.549	9.650
12/04/2010	10.289	10.756	10.636	Lost	11.314	10.837	10.978	11.292	10.193		11.095	11.710		11.121				9.999				9.929	10.017	9.943	10.257	10.187	10.214	9.134	9.280	9.551	9.649
13/04/2010	10.277	10.756	10.585	Lost	11.493	10.872	10.978	11.296	10.193		11.091	11.710		11.181				10.000				9.919	10.099	9.916	10.040	10.271	10.192	9.134	9.281	9.551	9.650
14/04/2010	10.260	10.759	10.566	Lost	11.845	11.257	10.946	11.323	10.972		11.062	11.719		11.201				10.001				9.906	10.146	9.890	10.228	10.180	10.390	9.138	9.229	9.568	9.647
15/04/2010	10.239	10.500	10.552	Lost	11.883	11.518	10.769	11.292	10.843		11.071	11.721		11.206				10.002				9.900	10.075	9.861	10.181	10.136	10.151	9.179	9.294	9.570	9.649
16/04/2010	10.221	Locked	10.563	Lost	11.945	11.430	Locked	11.283	Locked		11.070	11.660		11.229				10.001				9.857	10.066	9.857	10.167	10.228	10.248	9.189	9.284	9.599	9.687
19/04/2010	10.206	10.746	10.552	Lost	11.945	11.465	10.997	11.313	11.031		11.081	11.689		11.272				10.006				9.891	10.120	9.838	9.890	10.206	10.233	9.147	9.274	9.569	9.646
20/04/2010	10.198	10.752	10.548	Lost	12.135	11.452	10.980	11.304	11.033		11.039	11.657		11.278				10.007				9.890	10.109	9.828	10.145	10.089	10.118	9.149	9.912	9.568	9.649
21/04/2010	10.188	10.756	10.543	Lost	12.245	11.444	10.899	11.291	11.031		11.034	11.651		11.287				10.021				9.887	10.069	9.829	10.147	10.127	10.139	9.189	9.294	9.569	9.649
23/04/2010	10.190	10.758	10.544	Lost	12.245	11.450	10.939	11.294	11.033		11.034	11.660		11.282				10.013				9.890	10.070	9.830	10.148	10.160	10.160	9.148	9.284	9.570	9.649
27/04/2010	10.129	10.746	10.523	Lost	11.851	11.372	10.865	11.278	10.414		10.994	11.590		11.258				10.009				9.877	10.066	Lost	10.149	10.089	10.062	9.128	9.271	9.559	9.641
28/04/2010	10.111	10.747	10.481	Lost	11.732	11.283	10.867	11.260	10.415		10.980	11.612		11.239				10.011				9.782	10.059	Lost	10.141	9.997	10.043	9.129	9.264	9.560	9.641
29/04/2010	10.107	10.763	10.514	Lost	11.606	11.283	10.850	11.328	10.200		10.969	11.539		11.209				10.009				9.879	10.050	Lost	10.148	10.087	10.031	9.128	9.264	9.552	9.639
30/04/2010	10.048	10.740	10.514	Lost	11.534	11.120	10.848	11.315	10.182		10.959	11.555		11.168				10.012				9.871	10.048	Lost	10.146	10.092	10.016	9.128	9.272	9.556	9.639

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: 192230-1

Date of Report: 08-Mar-2010

Customer: VertaseFLI Limited
Number One
Middle Bridge Business Park
Bristol Road
Portishead
BS20 6PN

Customer Contact: The Project Management

Customer Job Reference: 907BRI
Customer Site Reference: Hauxton
Date Job Received at SAL: 01-Mar-2010
Date Analysis Started: 02-Mar-2010
Date Analysis Completed: 08-Mar-2010

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 :
Miss Emma Tibbitts
Project Manager

Issued by :
Miss Emma Tibbitts
Project Manager

Index to symbols used in 192230-1

Value	Description
AR	As Received
-	Not Required
162	LOD determined by matrix spike recovery
13	Results have been blank corrected.
U	Analysis is UKAS accredited
N	Analysis is not 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	-	10	µS/cm	N	001-004
pH	T7	-			U	001-004
Dimefox	T16	-	0.1	µg/l	N	001-004
Ethofumesate	T16	-	0.1	µg/l	N	001-004
Hempa	T16	-	0.1	µg/l	N	001-004
Schradan	T16	-	0.1	µg/l	N	001-004
Simazine	T16	-	0.01	µg/l	N	001-004
Dicamba	T16	-	0.1	µg/l	N	001-004
Dichlorprop	T16	-	0.1	µg/l	N	001-004
Phenoxy Acetic acid herbicide: MCPA	T16	-	0.1	µg/l	N	001-004
Mecoprop	T16	-	0.1	µg/l	N	001-004
2,4,6-Trichlorophenol	T16	-	10	µg/l	U	001-004
2-Methyl-4,6-dinitrophenol	T16	-	10	µg/l	N	001-004
4-Chloro-2-methylphenol	T16	-	10	µg/l	N	001-004
Bis (2-chloroethyl) ether	T16	-	10	µg/l	U	001-004
Phenol	T16	-	10	µg/l	U	001-004
1,2-Dichlorobenzene	T54	-	1	µg/l	U	001-004
1,2-Dichloroethane	T54	-	1	µg/l	U	001-004
Cis-1,2-Dichloroethylene	T54	-	1	µg/l	U	001-004
Cyclohexanone	T54	-	10	µg/l	N	001-004
Tetrachloroethylene	T54	-	1	µg/l	U	001-004
Toluene	T54	-	1	µg/l	U	001-004
Trichloroethylene	T54	-	1	µg/l	U	001-004
Vinyl chloride	T54	-	1	µg/l	U	001-004
Xylene (Total)	T54	-	1	µg/l	U	001-004

SAL Reference: 192230
Project Site: Hauxton
Customer Reference: 907BRI

Water Analysed as Water
Vertase Hauxton Suite

				SAL Reference	**192230 001**	**192230 002**	**192230 003**	**192230 004**
				Customer Sample Reference	**RIDDY US**	**RIDDY DS**	**CAM US**	**CAM DS**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
Electrical Conductivity	T7	-	10	µS/cm	**700**	**680**	**630**	**620**
pH	T7	-			**7.7**	**7.7**	**7.9**	**7.9**

SAL Reference: 192230
Project Site: Hauxton
Customer Reference: 907BRI

Water Analysed as Water
Vertase Hauxton OP/ON Suite

				SAL Reference	**192230 001**	**192230 002**	**192230 003**	**192230 004**
				Customer Sample Reference	**RIDDY US**	**RIDDY DS**	**CAM US**	**CAM DS**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
Dimefox	T16	-	0.1	µg/l	<0.1	<0.1	<0.1	<0.1
Ethofumesate	T16	-	0.1	µg/l	<0.1	**0.2**	<0.1	<0.1
Hempa	T16	-	0.1	µg/l	<0.1	<0.1	<0.1	<0.1
Schradan	T16	-	0.1	µg/l	<0.1	<0.1	<0.1	<0.1
Simazine	T16	-	0.01	µg/l	<0.01	<0.01	<0.01	<0.01

SAL Reference: 192230
Project Site: Hauxton
Customer Reference: 907BRI

Water Analysed as Water
Vertase Hauxton Phenoxy Acid Herbs Suite

				SAL Reference	**192230 001**	**192230 002**	**192230 003**	**192230 004**
				Customer Sample Reference	**RIDDY US**	**RIDDY DS**	**CAM US**	**CAM DS**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
Dicamba	T16	-	0.1	µg/l	<0.1	<0.1	<0.1	<0.1
Dichlorprop	T16	-	0.1	µg/l	<0.1	<0.1	<0.1	<0.1
Phenoxy Acetic acid herbicide: MCPA	T16	-	0.1	µg/l	<0.1	<0.1	<0.1	<0.1
Mecoprop	T16	-	0.1	µg/l	<0.1	<0.1	<0.1	<0.1

SAL Reference: 192230
Project Site: Hauxton
Customer Reference: 907BRI

Water Analysed as Water
Vertase Hauxton SVOC Suite

				SAL Reference	**192230 001**	**192230 002**	**192230 003**	**192230 004**
				Customer Sample Reference	**RIDDY US**	**RIDDY DS**	**CAM US**	**CAM DS**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
2,4,6-Trichlorophenol	T16	-	10	µg/l	<10	<10	<10	<10
2-Methyl-4,6-dinitrophenol	T16	-	10	µg/l	<10	<10	<10	<10
4-Chloro-2-methylphenol	T16	-	10	µg/l	<10	<10	<10	<10
Bis (2-chloroethyl) ether	T16	-	10	µg/l	<10	<10	<10	<10
Phenol	T16	-	10	µg/l	(162) <50	(162) <50	(162) <50	(162) <50

SAL Reference: 192230
Project Site: Hauxton
Customer Reference: 907BRI

Water Analysed as Water
Vertase Hauxton VOC Suite

	SAL Reference	192230 001	192230 002	192230 003	192230 004
	Customer Sample Reference	RIDDY US	RIDDY DS	CAM US	CAM DS
Determinand	**Method**	**Test Sample**	**LOD**	**Units**	
1,2-Dichlorobenzene	T54	-	1	µg/l	<1	<1	<1	<1
1,2-Dichloroethane	T54	-	1	µg/l	(13) <1	(13) <1	(13) <1	(13) <1
Cis-1,2-Dichloroethylene	T54	-	1	µg/l	<1	**2**	<1	<1
Cyclohexanone	T54	-	10	µg/l	<10	<10	<10	<10
Tetrachloroethylene	T54	-	1	µg/l	<1	**2**	<1	<1
Toluene	T54	-	1	µg/l	<1	<1	<1	<1
Trichloroethylene	T54	-	1	µg/l	<1	**4**	<1	<1
Vinyl chloride	T54	-	1	µg/l	<1	<1	<1	<1
Xylene (Total)	T54	-	1	µg/l	<1	<1	<1	<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
Cornbrook
Manchester
M16 9FE
Tel : 0161 874 2400
Fax : 0161 874 2468

Report Number: 195208-1

Date of Report: 07-Apr-2010

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

Customer Contact: The Project Management

Customer Job Reference: 907BRI
Customer Site Reference: HAUXTON
Date Job Received at SAL: 29-Mar-2010
Date Analysis Started: 29-Mar-2010
Date Analysis Completed: 07-Apr-2010

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 :
Mr Ross Walker
Customer Services Manager

Issued by :
Mr Ross Walker
Customer Services Manager

Index to symbols used in 195208-1

Value	Description
AR	As Received
2	LOD Raised Due to Matrix Interference
162	LOD determined by matrix spike recovery
U	Analysis is UKAS accredited
N	Analysis is not 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	001-007
pH	T7	AR			U	001-007
Dimefox	T16	AR	0.1	µg/l	N	001-007
Ethofumesate	T16	AR	0.1	µg/l	N	001-007
Hempa	T16	AR	0.1	µg/l	N	001-007
Schradan	T16	AR	0.1	µg/l	N	001-007
Simazine	T16	AR	0.01	µg/l	N	001-007
Dicamba	T16	AR	0.1	µg/l	N	001-007
Dichlorprop	T16	AR	0.1	µg/l	N	001-007
Phenoxy Acetic acid herbicide: MCPA	T16	AR	0.1	µg/l	N	001-007
Mecoprop	T16	AR	0.1	µg/l	N	001-007
2,4,6-Trichlorophenol	T16	AR	10	µg/l	U	001-007
2-Methyl-4,6-dinitrophenol	T16	AR	10	µg/l	N	001-007
4-Chloro-2-methylphenol	T16	AR	10	µg/l	N	001-007
Bis (2-chloroethyl) ether	T16	AR	10	µg/l	U	001-007
Phenol	T16	AR	10	µg/l	U	001-007
1,2-Dichlorobenzene	T54	AR	1	µg/l	U	001-007
1,2-Dichloroethane	T54	AR	1	µg/l	U	001-007
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l	U	001-007
Cyclohexanone	T54	AR	10	µg/l	N	001-007
Tetrachloroethylene	T54	AR	1	µg/l	U	001-007
Toluene	T54	AR	1	µg/l	U	001-007
Trichloroethylene	T54	AR	1	µg/l	U	001-007
Vinyl chloride	T54	AR	1	µg/l	U	001-007
Xylene (Total)	T54	AR	1	µg/l	U	001-007

SAL Reference: 195208
Project Site: HAUXTON
Customer Reference: 907BRI

Water Analysed as Water
Vertase Hauxton Suite

	SAL Reference	195208 001	195208 002	195208 003	195208 004	195208 005	195208 006	195208 007
	Customer Sample Reference	Riddy Brook U/S	Riddy Brook D/S	River Cam U/S	River Cam D/S	BH11	BH9	S3/4
Determinand	Method / Test Sample / LOD / Units							
Electrical Conductivity	T7 / AR / 10 / µS/cm	**720**	**720**	**730**	**710**	**1100**	**2400**	**3500**
pH	T7 / AR / /	**6.5**	**7.7**	**8.0**	**8.1**	**7.1**	**7.0**	**6.9**

SAL Reference: 195208
Project Site: HAUXTON
Customer Reference: 907BRI

Water Analysed as Water
Vertase Hauxton OP/ON Suite

	SAL Reference	195208 001	195208 002	195208 003	195208 004	195208 005	195208 006	195208 007
	Customer Sample Reference	Riddy Brook U/S	Riddy Brook D/S	River Cam U/S	River Cam D/S	BH11	BH9	S3/4
Determinand	Method / Test Sample / LOD / Units							
Dimefox	T16 / AR / 0.1 / µg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethofumesate	T16 / AR / 0.1 / µg/l	<0.1	**0.2**	<0.1	<0.1	<0.1	**8.7**	**0.8**
Hempa	T16 / AR / 0.1 / µg/l	<0.1	<0.1	<0.1	<0.1	**0.5**	**0.5**	(2) <1.0
Schradan	T16 / AR / 0.1 / µg/l	<0.1	<0.1	<0.1	<0.1	**2.2**	**0.2**	**8.8**
Simazine	T16 / AR / 0.01 / µg/l	<0.01	<0.01	<0.01	<0.01	**0.07**	**0.02**	<0.01

SAL Reference: 195208
Project Site: HAUXTON
Customer Reference: 907BRI

Water Analysed as Water
Vertase Hauxton Phenoxy Acid Herbs Suite

	SAL Reference	195208 001	195208 002	195208 003	195208 004	195208 005	195208 006	195208 007
	Customer Sample Reference	Riddy Brook U/S	Riddy Brook D/S	River Cam U/S	River Cam D/S	BH11	BH9	S3/4
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	**6.5**
Dichlorprop	T16 / AR / 0.1 / µg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**20**
Phenoxy Acetic acid herbicide: MCPA	T16 / AR / 0.1 / µg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**1.5**
Mecoprop	T16 / AR / 0.1 / µg/l	<0.1	<0.1	<0.1	<0.1	**0.2**	<0.1	**96**

SAL Reference: 195208
Project Site: HAUXTON
Customer Reference: 907BRI

Water Analysed as Water
Vertase Hauxton SVOC Suite

	SAL Reference	195208 001	195208 002	195208 003	195208 004	195208 005	195208 006	195208 007
	Customer Sample Reference	Riddy Brook U/S	Riddy Brook D/S	River Cam U/S	River Cam D/S	BH11	BH9	S3/4
Determinand	Method / Test Sample / LOD / Units							
2,4,6-Trichlorophenol	T16 / AR / 10 / µg/l	<10	<10	<10	<10	<10	<10	**130**
2-Methyl-4,6-dinitrophenol	T16 / AR / 10 / µg/l	<10	<10	<10	<10	<10	<10	<10
4-Chloro-2-methylphenol	T16 / AR / 10 / µg/l	<10	<10	<10	<10	<10	<10	**210**
Bis (2-chloroethyl) ether	T16 / AR / 10 / µg/l	<10	<10	<10	<10	**28**	**400**	**6500**
Phenol	T16 / AR / 10 / µg/l	(162) <50	(162) <50	(162) <50	(162) <50	(162) <50	(162) <50	(162) <50

SAL Reference: 195208
Project Site: HAUXTON
Customer Reference: 907BRI

Water Analysed as Water
Vertase Hauxton VOC Suite

	SAL Reference	195208 001	195208 002	195208 003	195208 004	195208 005	195208 006	195208 007
	Customer Sample Reference	Riddy Brook U/S	Riddy Brook D/S	River Cam U/S	River Cam D/S	BH11	BH9	S3/4
Determinand	**Method** / **Test Sample** / **LOD** / **Units**							
1,2-Dichlorobenzene	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1
Cis-1,2-Dichloroethylene	T54 AR 1 µg/l	<1	**4**	<1	<1	**3**	**3**	**28**
Cyclohexanone	T54 AR 10 µg/l	<10	<10	<10	<10	<10	<10	<10
Tetrachloroethylene	T54 AR 1 µg/l	**2**	**3**	**2**	**2**	<1	<1	**7**
Toluene	T54 AR 1 µg/l	<1	<1	<1	<1	**14**	<1	**860**
Trichloroethylene	T54 AR 1 µg/l	<1	**7**	<1	<1	<1	<1	**12**
Vinyl chloride	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	**32**
Xylene (Total)	T54 AR 1 µg/l	<1	<1	<1	<1	**1**	<1	**89**

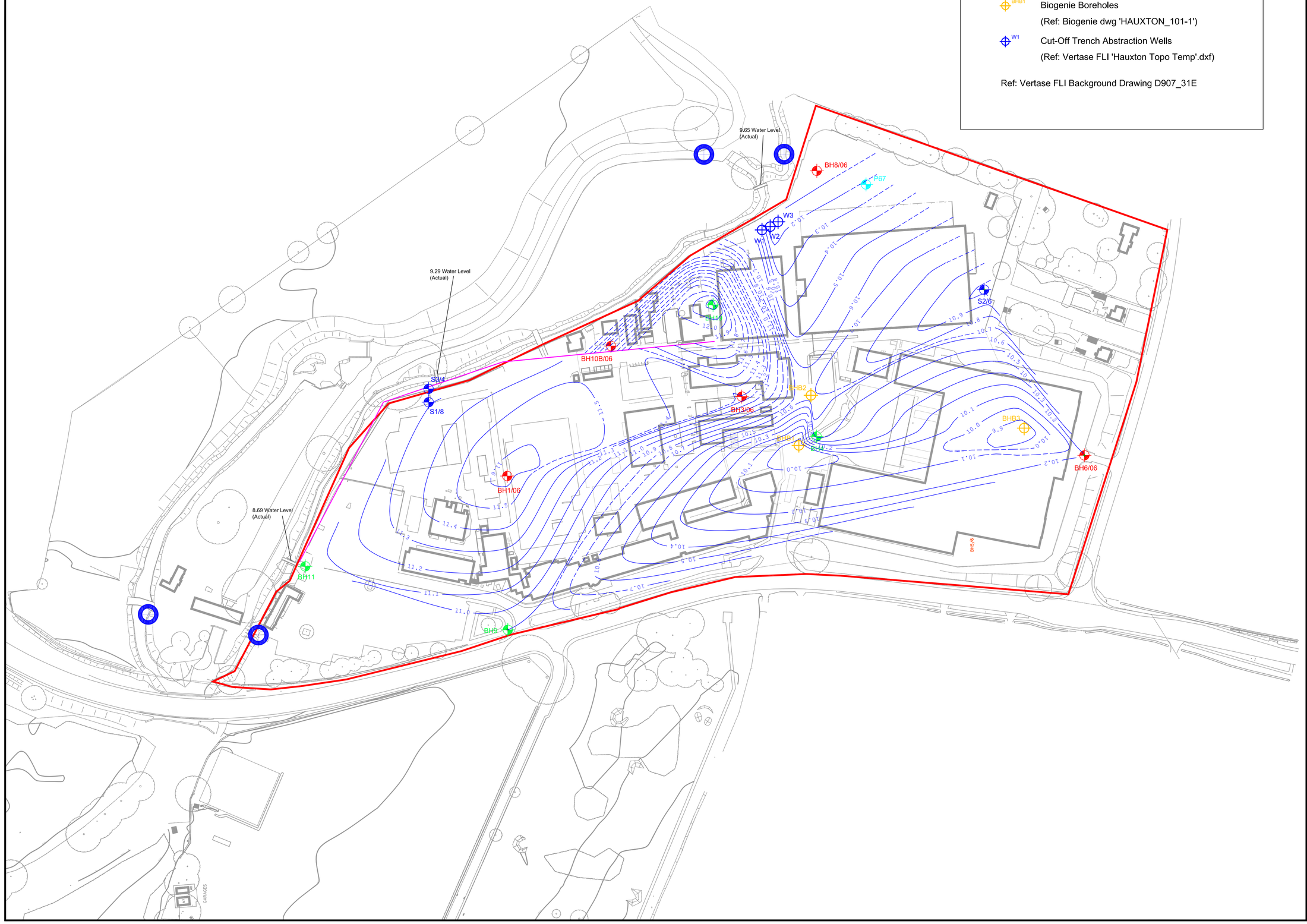
Appendix G
Groundwater Contour Plots

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)

Ref: Vertase FLI Background Drawing D907_31E



Rev.	Description	Revised By	Date
	FIRST ISSUE		30-04-10

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@vertaseffli.co.uk
www.vertaseffli.com

Site Address:

Bayer Site
Hauxton
Cambridge

Rev:

Title: Ground Water Contours 21-04-10

Client: Harrow Estates

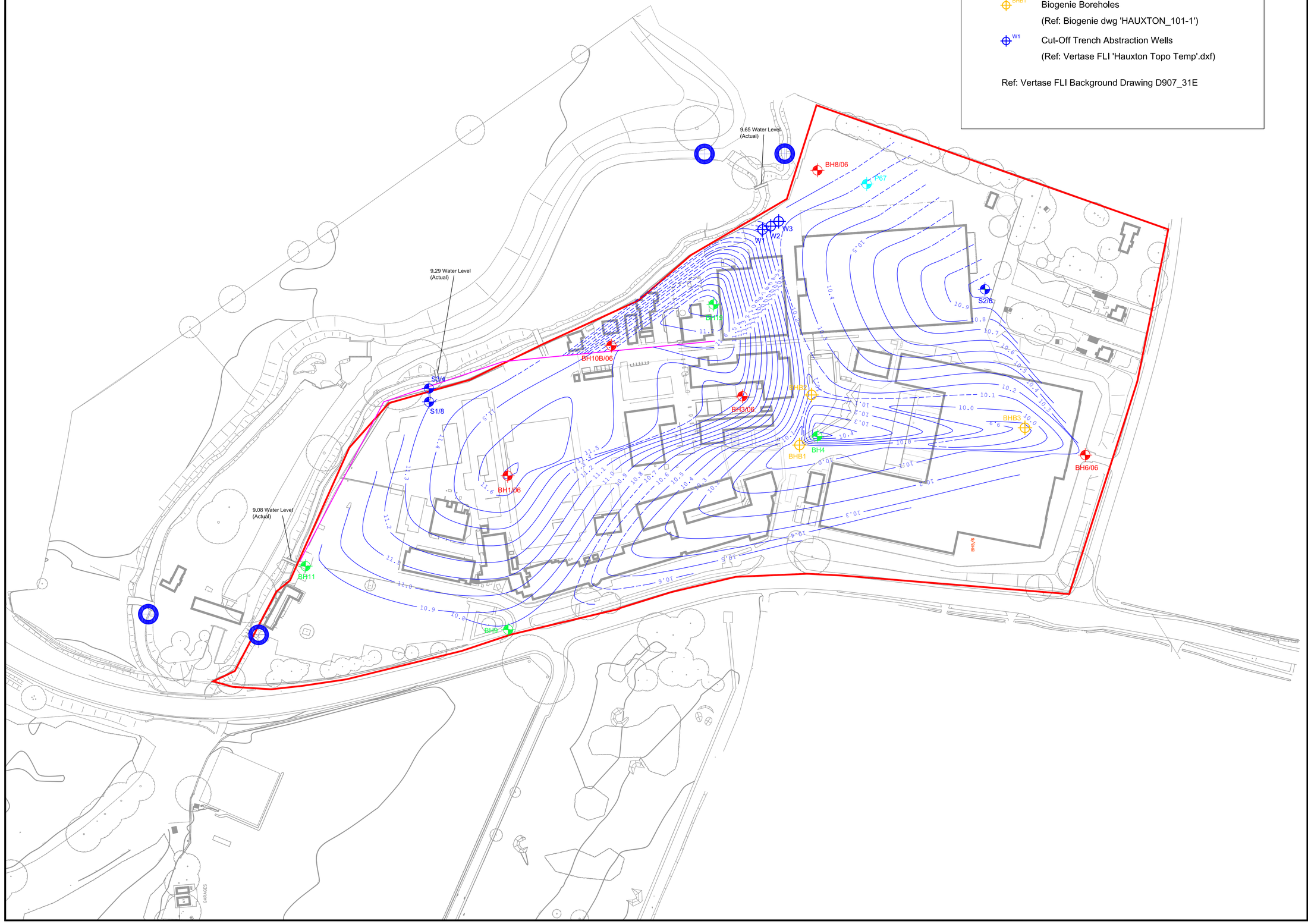
Drawn: MRG	Checked: DL	Approved: MA
Dwg:D907_71	Contract: 907 BRI	Scale: 1:1000

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)

Ref: Vertase FLI Background Drawing D907_31E



Rev.	Description	Revised By	Date
	FIRST ISSUE		30-04-10

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@vertaseffli.co.uk
www.vertaseffli.com

Site Address:
Bayer Site
Hauxton
Cambridge

Rev:

Title: Ground Water Contours 15-04-10

Client: Harrow Estates

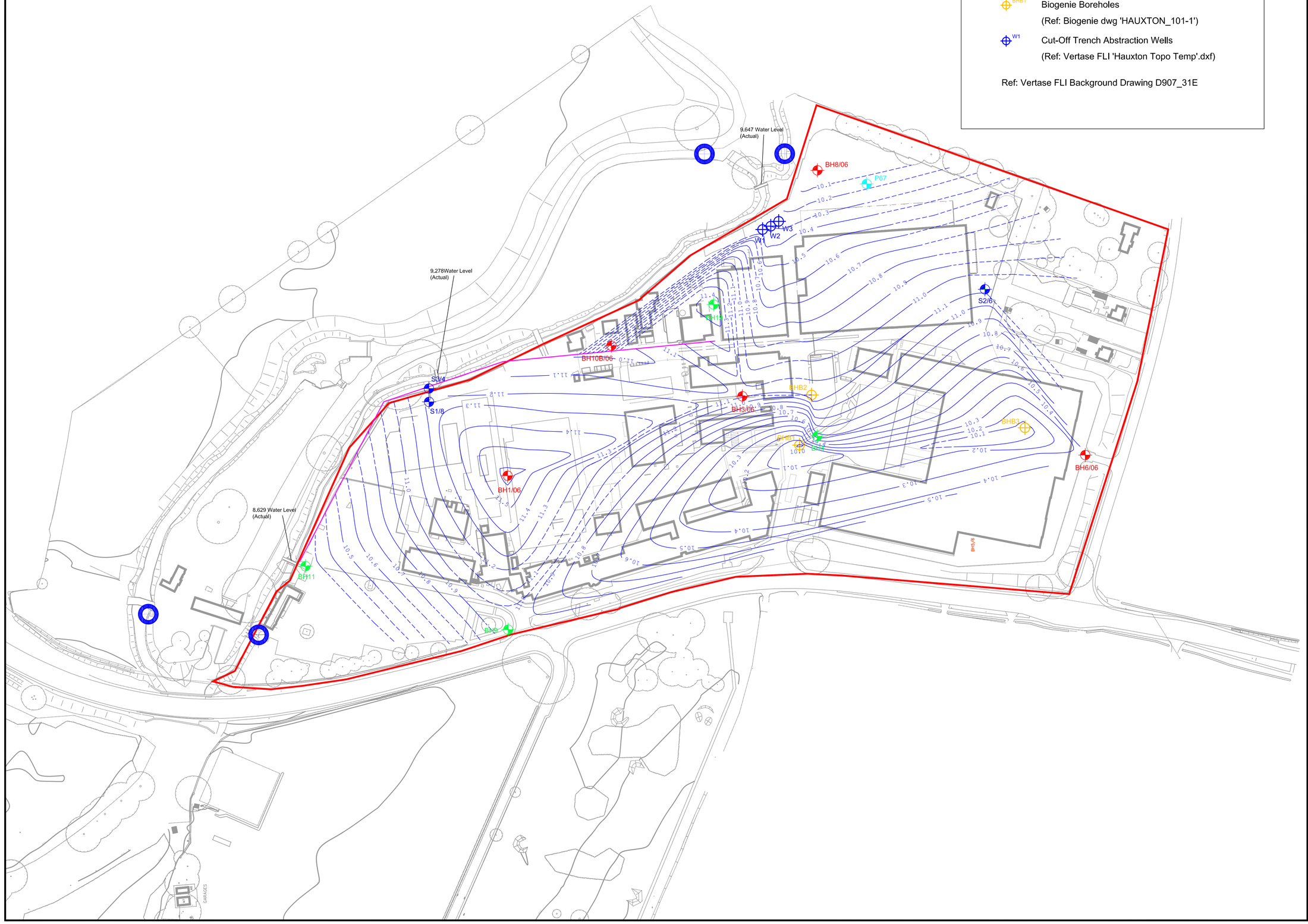
Drawn: MRG	Checked: DL	Approved: MA
Dwg:D907_70	Contract: 907 BRI	Scale: 1:1000

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)

Ref: Vertase FLI Background Drawing D907_31E



Rev.	Description	Revised By	Date
	FIRST ISSUE		30-04-10

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@vertaseffli.co.uk
www.vertaseffli.com

Site Address:
Bayer Site
Hauxton
Cambridge

Rev:

Title: Ground Water Contours 08-04-10

Client: Harrow Estates

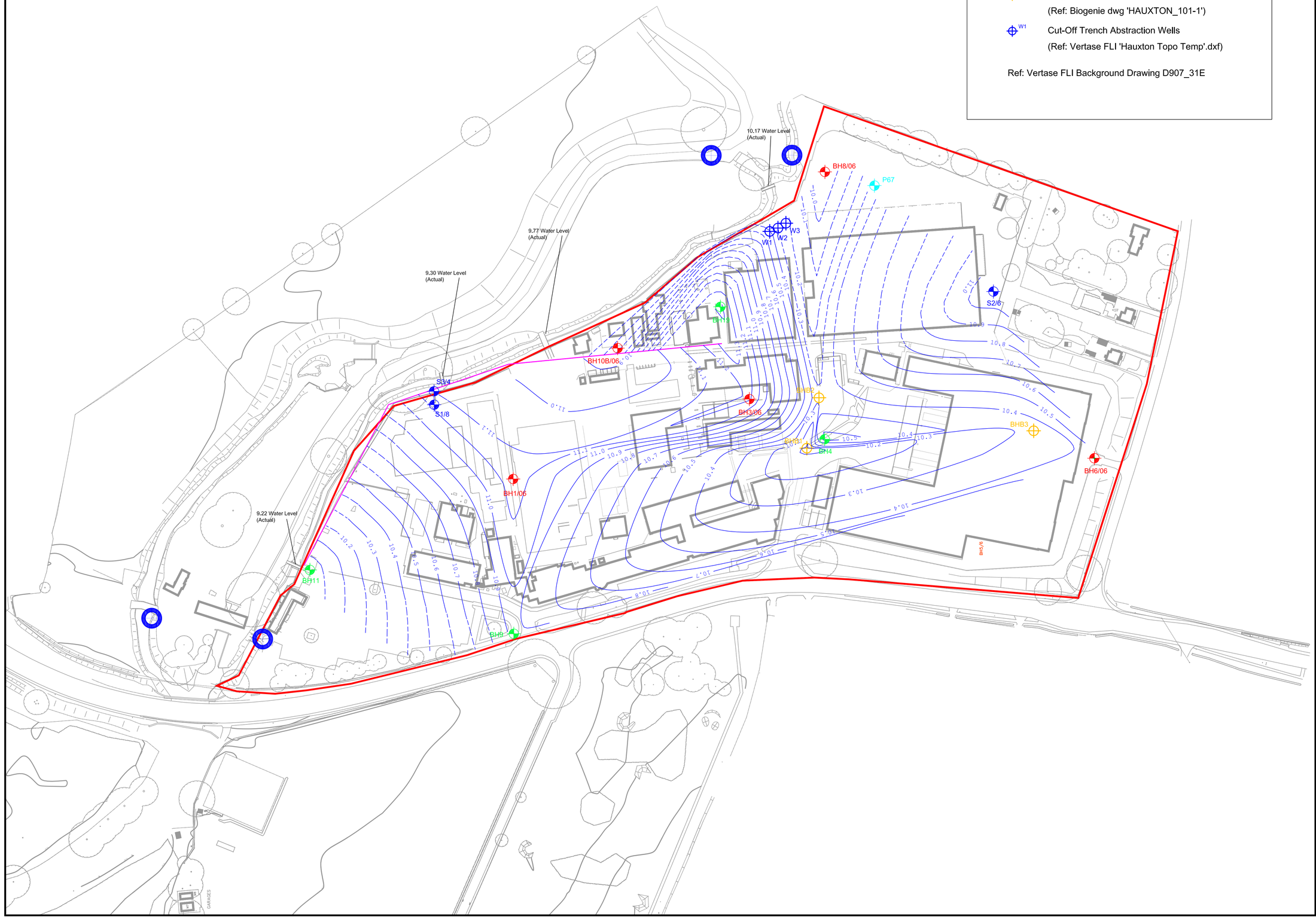
Drawn: MRG	Checked: DL	Approved: MA
Dwg:D907_69	Contract: 907 BRI	Scale: 1:1000

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)

Ref: Vertase FLI Background Drawing D907_31E



Rev.	Description	Revised By	Date
	FIRST ISSUE		26-04-10

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@vertaseffli.co.uk
www.vertaseffli.com

Site Address:
Bayer Site
Hauxton
Cambridge

Rev:

Title: Ground Water Contours 01-04-10

Client: Harrow Estates

Drawn: MRG	Checked: DL	Approved: MA
Dwg:D907_67	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)

Ref: Vertase FLI Background Drawing D907_31E

9.64 Water Level (Actual)

9.26 Water Level (Actual)

8.69 Water Level (Actual)

BH8/06 P67 W1 W2 W3 S2/6 BH13 BH10B/06 S3/4 S1/8 BH2/06 BHB2 BHB3 BHB1 BH4 BH6/06 BH1/06 BH11 BH9 BH5/6 GARAGES

Rev.	Description	Revised By	Date
	FIRST ISSUE		04-05-10

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@vertaseffli.co.uk
www.vertaseffli.com

Site Address:
Bayer Site
Hauxton
Cambridge

Rev:

Title: Ground Water Contours 29-04-10

Client: Harrow Estates

Drawn: MRG	Checked: DL	Approved: MA
Dwg: D907_72	Contract: 907 BRI	Scale: 1:1000