Environmental Monitoring Report

Reporting Period
04/10/2010-31/10/2010
Supplemental Report

Former Bayer Crop Science Site
Hauxton
Cambridgeshire

26th November 2010

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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 4th of October 2010, until the 31st of October 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 30. Week Commencing 4th October 2010

Excavation in grid squares H11 and H12 was undertaken intermittently throughout the week due to changes in wind direction and periods of heavy rain, recently excavated materials were covered as quickly as possible to prevent odour generation and migration. The removal of treated soils from the force ventilation and vapour extraction area was undertaken, this non odorous material was placed in windrows to continue biological treatment. On the 7th of October previously excavated odorous treatment beds were uncovered and moved to the force ventilation area to undergo vapour extraction treatment.

Week 31. Week Commencing 11th October 2010

The main excavation switched to grid square G13 and G14, excavated soils were formed into treatment beds and covered to prevent odour migration. Breaking out of concrete was undertaken in grid squares H16, I16 and J16, hard materials were stockpiled to be crushed at a later date. Turning and processing of the treatment beds continued with treatment beds being selected for processing depending on their odour generation potential and predominant wind direction. The change out of treatment beds in the force ventilation area continued through until 13/10/2010, with non odours treated soils being moved from the area and replaced by odorous soils that were covered , force ventilated and vapour extracted. Spent mushroom compost was added at to a number of the beds to aid in the biological degradation.

Week 32. Week Commencing 18th October 2010

Excavation activity continued through grid squares H17 and G17, this material is non odorous, with very little signs of contamination in this area. On the 21st and 22nd of October the excavation activity focused on grid squares H10 and H11 removing heavily impacted, odorous soils, this activity was undertaken when the predominant wind direction was away from neighbouring residential areas. Concrete was broken out in grid squares H17, I17 and J17, this hard material was stockpiled and broken down further with a muncher prior to crushing. Turning and processing of the treatment beds continued with treatment beds being selected for processing depending on their odour generation potential and predominant wind direction.

Week 33. Week Commencing 25th October 2010

Breaking out concrete slab advanced through grid squares G16 and G17, the main excavation followed this course recovering non odorous, visually clean soils. Excavated soils were formed into treatment beds but did not require any odour mitigation measures. A number of treatment beds were relocated to release the eastern parts of the site to enable the next phase of works in this area. A trial pitting exercise was conducted in the former car park adjacent to Mill House to ascertain whether this part of the site had been impacted by historic contamination and to what extent.

3.0 Environmental Monitoring Summary

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

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

3.1. Odour and VOC Emissions

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

In addition to physical control via covers and management of activities odour controlling suppressants and masking agent are being used around the site boundary to mitigate the impact of odour migration off site. Initially two mobile telescopic misting fans were used on site and a full boundary misting system was also erected to supplement the mobile units, along with the addition of two further mobile units to focus specifically on the excavation. The odour controlling solutions used in the misting and telescopic fan systems vary in fragrance from lemon, to melon, to pine, to bubblegum.

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

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

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

mitigation measures have been in accordance with the actions stipulated in the deployment form, including some additional actions to reduce the potential of odour nuisance e.g. repositioning of mobile odour control systems.

During the twice daily environmental monitoring a Photoionisation Detector (PID) has been used to record VOC's present beyond the site boundary. During the reported period VOC's, were detected by the PID (Limit of detection of 0.1ppm) on the following occasion:

- 11/10/2010 (17:00) At the south west monitoring location a maximum intermittent PID reading of 0.4ppm was recorded, the odour was described as being weak, and a mixture of odour control suppressant and solvents, this area was monitored closely every 30 minutes to ensure level of odour did not increase and migrate beyond the site boundary.
- 12/10/2010 (10:06) At the south west monitoring location a maximum intermittent PID reading of 0.4ppm was recorded, the odour was described as faint and a mixture of cut grass and solvents. The works on site were closely monitored and odour patrols off site were undertaken every hour to ensure odour intensity and migration did not increase. The works were halted and odorous materials covered at 16:30 due to changes in the wind direction.
- 13/10/2010 (17:00) At the south west monitoring location a maximum intermittent PID reading of 0.3ppm was recorded, the odour was described as faint and a mixture of odour control suppressant and solvents. The works on site were closely monitored and odour patrols off site were undertaken to ensure odours did not increase and migrate towards local residential areas. Odour suppressants and covers were continually being deployed to the odorous material.
- 18/10/2010 (10:24) At the east boundary a maximum intermittent PID reading of 1.6ppm was recorded, the odour was described as a weak sweet chemical odour. A mobile fogger unit was used to reduce the odours generated from the excavation in H10, this work was ceased two hours later due to a combination of an increase in voc levels in the materials and changes in wind direction.
- 21/10/2010 (09:36) Around the eastern boundary a maximum intermittent PID reading of 3.4ppm was recorded at the north eastern monitoring point a maximum intermittent PID reading of 1ppm was recorded, the odour was described as a faint solvents, TCE and PCE odour. Three mobile fogger units was used to suppress the odours being generated by the

main excavation in H10 this process was constantly monitored to ensure odour generation did not increase.

All PID reading above 1ppm recorded beyond the site boundary are reported to the Environment Agency immediately, along with details of the additional mitigation methods being implemented to reduce the migration of VOC's from the site.

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

The results for the long term passive VOC monitoring carried out between 01/10/2010 and 28/10/2010 are presented in Appendix C. The analysis indicates that the majority of the VOC's detected are around the baseline, except for Tetrachlroethylene which continue to be slightly raised above the baseline values but are well below the levels considered to be within acceptable limits for published criteria.

The analysis for Church Road, Hauxton and Queens Close, Harston indicates there are some site related VOC's detected at these locations, but at levels that are considered to be within acceptable limits for published criteria.

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

3.2. Dust Fibre and Particulate Emission

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

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

Dust particle measurements at each monitoring location have varied, with the higher dust readings being generally at the locations adjacent to the heavily trafficked Cambridge Road (A10). The average Total Suspended Particulates (TSP) reading around the site is 142.46µg/m^3, the average PM10 dust reading around the site is 84.63µg/m^3. Where a potential for dust has been observed, on site dust suppression methods have been deployed immediately to reduce the generation of site dust and all haul routes are continually wetted to prevent dust release.

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

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

Dust monitoring undertaken from the 17/09/2010 to 01/10/2010 (6 locations monitored) recorded a maximum dust deposition rate was 1.00%EAC at the northwest 1 monitoring location. All other locations had a maximum dust deposition rate of 0.93%EAC, or less.

Dust monitoring undertaken from the 01/10/2010 to 15/10/2010 (6 locations monitored) recorded a maximum dust deposition rate of 0.57% EAC at the northeast 1 and east monitoring locations. All other locations had a maximum dust deposition rate of 0.50%EAC, or less.

Dust deposition values of less than 2.5% are regarded as having a very low nuisance potential. Only when percentages rise from 2.5% – 5% EAC is dust considered to have a low nuisance

causing potential. During the reported period dust, fibre and particle emissions have been low, and have not caused visual dusting off site.

3.3. Control of Mud and Debris

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

3.4. Noise

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

Site operations are restricted to 8am to 6pm and site noise levels are consistently at an average acceptable low background level of 65.53dB. Exceedance's of the 80dB threshold (stipulated in the Environmental Permit deployment document) have been recorded during the monitoring period, however traffic along the A10 has been identified as the source of the slightly elevated noise levels. Data is recorded in the environmental monitoring data spreadsheet, Appendix B.

3.5. Litter

All litter occurrences are removed from within the site, and off site around the boundary fence, and disposed of appropriately. Litter is generally low off site, and is well managed on site, by all site personnel. All recordings of the presence of litter are noted in the Environmental Monitoring Data spreadsheet in Appendix B.

4.0 Surface and Ground Water Condition

4.1. Surface Water Monitoring

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

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

4.2. Surface Water Sampling and Analysis

Upstream and downstream water samples from both the River Cam (Granta) and the Riddy Brook are taken on a monthly basis. The results for samples taken on 29th October 2010 are presented in Appendix F.

The surface water analysis (29th October 2010) shows traces of Tetrachloroethylene (<3 µg/l) in both upstream and downstream Riddy Brook and River Cam samples. Traces of Toluene (<2 µg/l) were present in both upstream and downstream samples of the River Cam. Traces of Mecoprop (<0.4 µg/l) were detected in the downstream samples of both the River Cam and Riddy Brook. Trichloroethylene (4ug/l), Cis-1,2-Dichloroethylene (3ug/l), Ethofumesate (0.8 ug/l), Dicamba (0.1ug/l) and Schradan (0.1ug/l) were detected in the downstream Riddy Brook sample only. These trace levels of have been recorded in the baseline data collected prior to the commencement of the remediation project and are not related to a specific incident.

4.3. Groundwater Level Monitoring

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

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

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

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

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

Groundwater contour plots are drawn up on a weekly basis to interpret the potential movement of the water beneath the site. Contour plots D907_112, D907_113, D907_114 and D907_115 (Appendix G) illustrate the weekly groundwater levels for the reported period.

The five contour plots constructed (Appendix G) illustrate that there have been very few subtle changes in groundwater levels during the monitoring period.

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

4.4. Groundwater Sampling and Analysis

Groundwater samples from 11 monitoring locations on site are taken on a monthly basis. The results for samples taken on 29th of October 2010 are presented in Appendix F.

The contaminant concentrations present in the samples taken on the 29th of October are very similar to the baseline data collected during the summer of 2008, illustrating that there has been very little change to the groundwater's condition since 2008.

5.0 Waste Water Treatment Plant

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

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

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

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

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

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

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

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

6.0 Contaminants Not Previously Identified

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

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

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

From the commencement of site works (15/03/2010) to 31/10/2010, fifty three characterisation samples have been taken by Vertase FLI in partnership with Atkins to assess the contamination type and concentrations prior to remediation of the materials. Twenty nine characterisation samples analysed contained a total of eighteen compounds / potential contaminants that had not been previously identified.

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

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

Appendix A

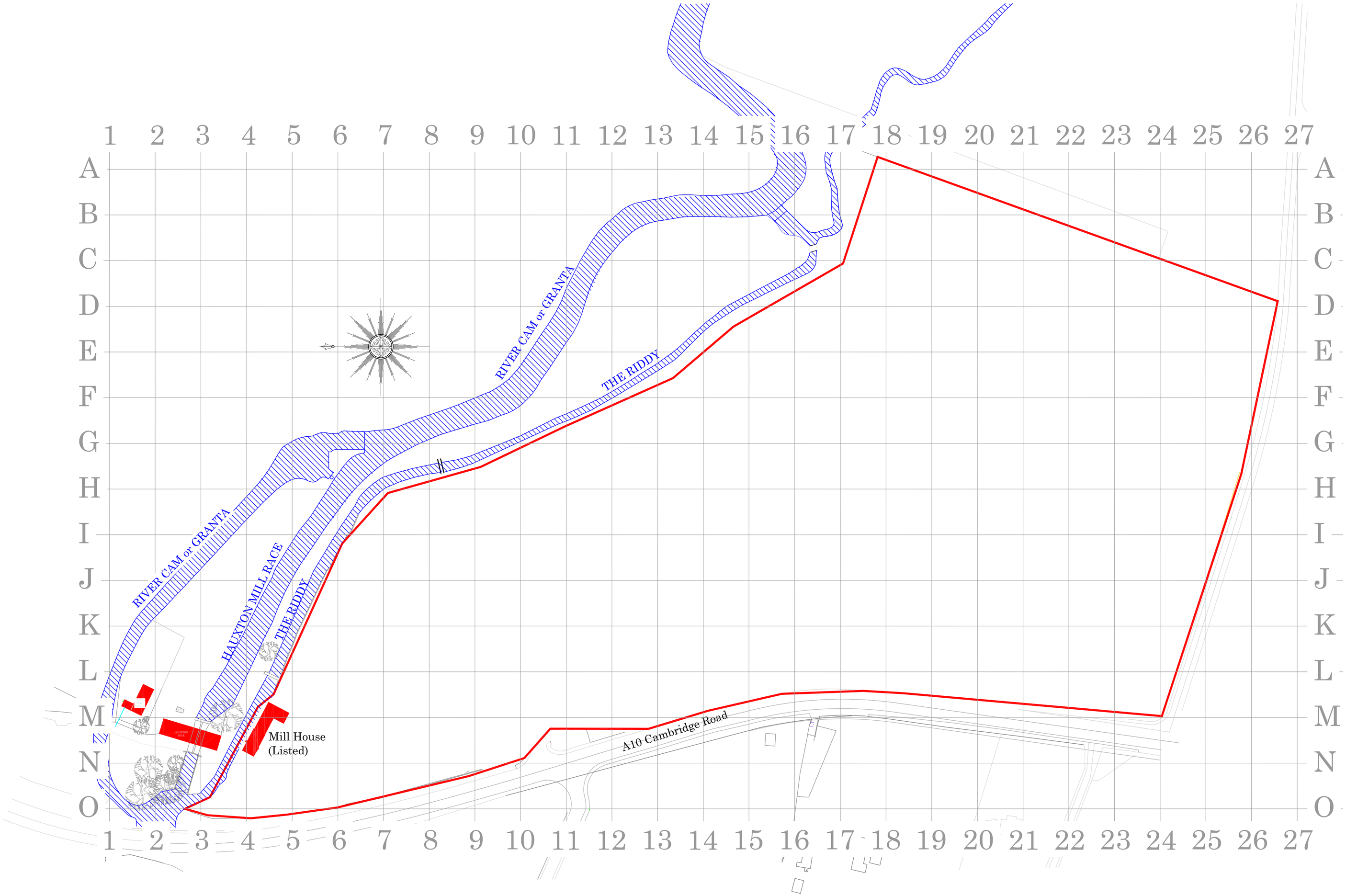
Drawings

A1

Legend

- Buildings to Remain
- Water Course
- Site Boundary

Drawing Base : Ref
LW/HAUX-002/2006



Rev.	Description	Revised By	Date
	FIRST ISSUE		21 April 2008

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Manchester Office: Tel: 01614 372708 Fax: 01614 376300

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Site Address:

Bayer Site
Hauxton
Cambridge

Rev:

Title: Blank Site Plan with Grid

Client: Harrow Estates

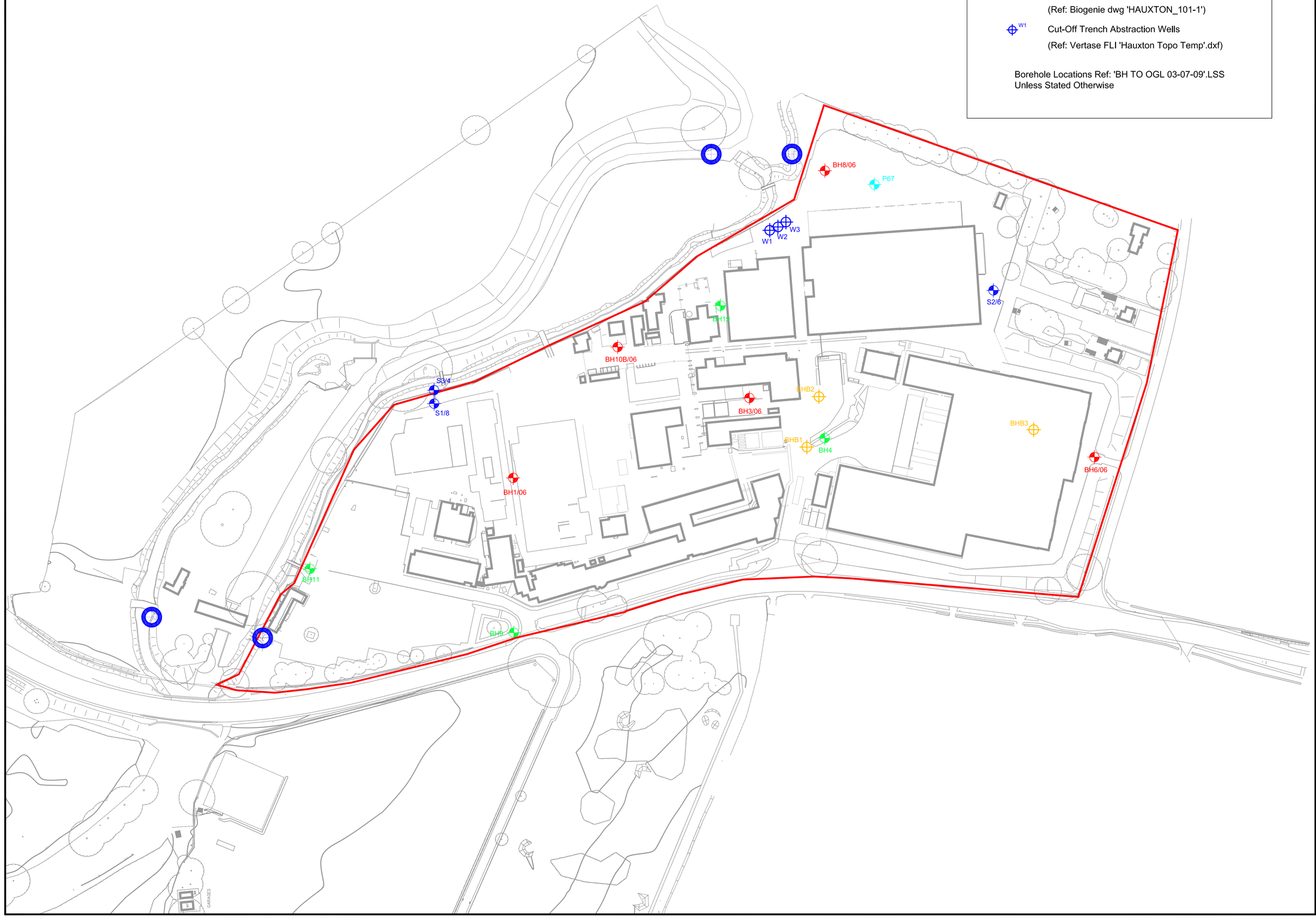
Drawn: JWH	Checked: MA	Approved: MA
Dwg: D907_07	Contract: 907BRI	Scale: 1:1000

A1

Legend

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

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



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

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Site Address:
Bayer Site
Hauxton
Cambridge

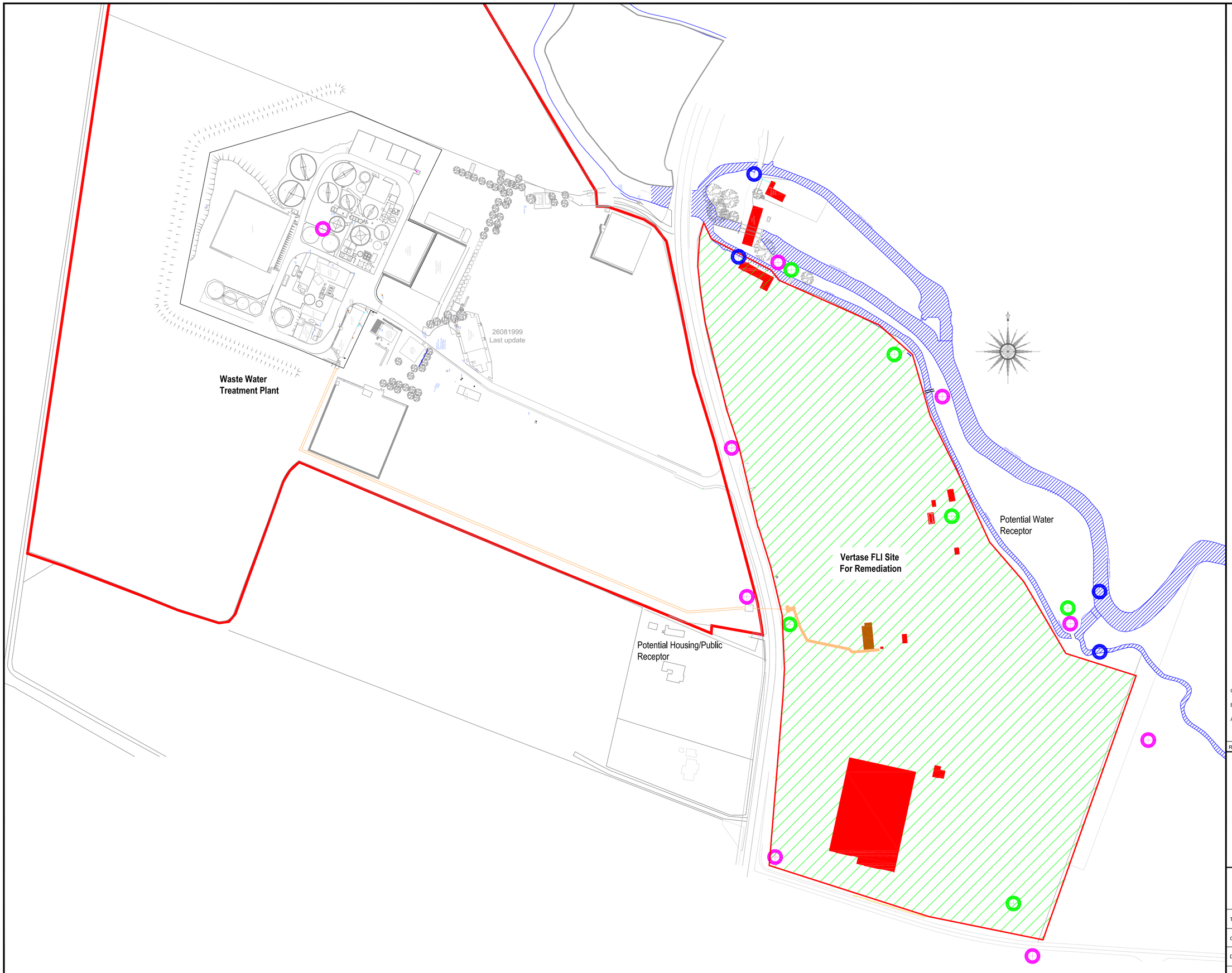
Rev: E

Title: Retained Boreholes for Monitoring & Reference

Client: Harrow Estates

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

A1



Legend

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

Drawing Base : Ref
LW/HAUX-002/2006

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

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Site Address:
Bayer Site
Hauxton
Cambridge

Rev: C

Title: Environmental Monitoring Plan

Client: Harrow Estates

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

Appendix B

Environmental Monitoring Data

						ODOUR						DUST		NOISE	LITTER		RIDDY BROOK				METEOROLOGICAL AND ENVIRONMENTAL CONDITIONS						
Assessor	Date	Daily Activity	Boundary	Start Time	Finish Time	Detectability (Yes or No)	Intensity (1 to 9)	Quality (Description)	Hedonic Tone (-3 to+3)	Location Sensitivity (1 to 5)	Odour Source (1 to 5)	PID (ppm)	TSP	PM10	Average (dBa)	Present (Description)	Materials attracting scavengers	Inspection	Water Level (mAOD)	Complaints	Action Required	Wind Speed (1 to 8)	Wind Direction	Air Temp (C)	Description (Rain, Sun)	Cloud Cover (0 to 8)	Ground Conditions (Wet, dry)	General Notes
Stephenson	04/10/2010	Excavating in grids H11/H12	N	10.35	10.40	n									69.7	no	no	Clear	1.59	no	no								
Stephenson	04/10/2010	Excavating in grids H11/H12	NE	10.30	10.35	y	2	Wet vegetation	0	2	5				63.7	no	no	Clear		no	no								
Stephenson	04/10/2010	Excavating in grids H11/H12	NE1	10.25	10.30	n												Clear		no	no								
Stephenson	04/10/2010	Excavating in grids H13/H12	E	10.20	10.25	y	4	Wet vegetation	-1	2	5				58.9	no	no	Clear	1.96	no	no								
Stephenson	04/10/2010	Excavating in grids H11/H12	SE	10.15	10.20	y	4	Wet vegetation	-1	2	5				58.2	no	no			no	no								
Stephenson	04/10/2010	Excavating in grids H11/H12	S	10.10	10.15	y	3	wet road, wet vegetation	0	3	5				50.5	no	no			no	no								
Stephenson	04/10/2010	Excavating in grids H11/H12	SW	10.05	10.10	y	3	wet road, wet vegetation	-1	4	5				55.2	no	no			no	no								
Stephenson	04/10/2010	Excavating in grids H11/H12	W	10.00	10.05	n				4	5				62.8	no	no			no	no								
Stephenson	04/10/2010	Excavating in grids H11/H12	NW	10.40	10.45	y	2	damp road	-1	2	5				62.9	no	no			no	no								
D Holman	04/10/2010	Moving force vent beds	N	17.42	17.47	y	1	vegetation	0	2	5				58	no	no	Clear	1.59			2	ese	15	cloudy	8	Wet		
D Holman	04/10/2010	Moving force vent beds	NE	17.36	17.41	y	1	odour control	1	2	5				57	no	no	Clear											
D Holman	04/10/2010	Moving force vent beds	NE1	17.30	17.35	n												Clear											
D Holman	04/10/2010	Moving force vent beds	E	17.24	17.29	y	2	toelpoe/phenol/odour control	-1	2	5				54	no	no		1.96										
D Holman	04/10/2010	Moving force vent beds	SE	17.18	17.23	y	1	ice/toe/phenol	-1	3	5				51	no	no												
D Holman	04/10/2010	Moving force vent beds	S	17.12	17.17	y	2	vegetation	0	3	5				62	no	no												
D Holman	04/10/2010	Moving force vent beds	SW	17.06	17.11	y	1	vegetation	0	4	5				73	no	no												
D Holman	04/10/2010	Moving force vent beds	W	17.00	17.05	y	2	vegetation	0	4	5				79	no	no												
D Holman	04/10/2010	Moving force vent beds	NW	17.48	17.53	y	1	vegetation	0	2	5				81	no	no												
D Holman	05/10/2010	bed turning/moving beds	N	9.42	9.47	y	1	vegetation and earthy soil	0	2	5	0	132.6	71.5	58	No	No	Clear	1.59			4	SE	17	cloudy	8	damp		
D Holman	05/10/2010	bed turning/moving beds	NE	9.36	9.41	y	1	earthy/soil	0	2	5	0	132.9	80.1	62		No	Clear											
D Holman	05/10/2010	bed turning/moving beds	NE1	9.30	9.35	n							10.36	50.9				Clear											
D Holman	05/10/2010	bed turning/moving beds	E	9.24	9.29	y				2	5	0	157.7	127.1	57	no	No	Clear	1.96										
D Holman	05/10/2010	bed turning/moving beds	SE	9.18	9.23	y	4	vegetation	0	3	5	0			53	no	no												
D Holman	05/10/2010	bed turning/moving beds	S	9.12	9.17	y	2	vegetation	0	3	5	0	169.6	35.9	64	no	No												
D Holman	05/10/2010	bed turning/moving beds	SW	9.06	9.11	y	1	vegetation	0	4	5	0			77	no	no												
D Holman	05/10/2010	bed turning/moving beds	W	9.00	9.05	y	2	vegetation	0	4	5	0	189.9	114.4	78	no	No												
D Holman	05/10/2010	bed turning/moving beds	NW	9.48	9.53	y	2	vegetation and exhaust fumes	0	2	5	0			79	no	No												
D Holman	05/10/2010	bed turning/moving beds	N	17.42	17.47	y	2	vegetation and odour control	1	2	3	0	204.9	163.5	59	no	No	Clear	1.59			3	SSE	17	cloudy	8	dry		
D Holman	05/10/2010	bed turning/moving beds	NE	17.36	17.41	y	3	odour control	1	2	5	0	196.6	112.8	67	No	No	Clear											
D Holman	05/10/2010	bed turning/moving beds	NE1	17.30	17.35	n							241.3	206				Clear											
D Holman	05/10/2010	bed turning/moving beds	E	17.24	17.29	y	4	odour control	1	2	5	0	242.6	98.2	63	no	No	Clear	1.96										
D Holman	05/10/2010	bed turning/moving beds	SE	17.18	17.23	y	4	vegetation	0	3	5	0			56	no	No												
D Holman	05/10/2010	bed turning/moving beds	S	17.12	17.17	y	2	vegetation	0	3	5	0	122.4	103.2	68	no	No												
D Holman	05/10/2010	bed turning/moving beds	SW	17.06	17.11	y	2	vegetation	0	4	5	0			76	no	No												
D Holman	05/10/2010	bed turning/moving beds	W	17.00	17.05	y	3	vegetation	0	4	5	0	244.8	175	82	no	No												
D Holman	05/10/2010	bed turning/moving beds	NW	17.48	17.53	y	2	vegetation	0	2	5	0			79	no	No												
D Holman	06/10/2010	bed turning/moving beds	N	9.12	9.17	y	1	vegetation	0	2	5	0	197.1	143.8	56	no	No	Clear	1.59			5	W	15	cloudy	7	dry		
D Holman	06/10/2010	bed turning/moving beds	NE	9.06	9.11	y	2	odour control and vegetation	0	2	3	0	190.2	108.9	59	no	No	Clear											
D Holman	06/10/2010	bed turning/moving beds	NE1	9.00	9.05	n							257.8	211.3				Clear											
D Holman	06/10/2010	bed turning/moving beds	E	8.54	8.59	y	3	odour control	1	2	5	0	148.7	64.3	57	no	No	Clear	1.96										
D Holman	06/10/2010	bed turning/moving beds	SE	8.48	8.53	y	3	odour control	1	3	5	0			56	no	No												
D Holman	06/10/2010	bed turning/moving beds	S	8.42	8.47	y	1	vegetation	0	3	5	0	117.9	98.1	62	no	No												
D Holman	06/10/2010	bed turning/moving beds	SW	8.36	8.41	y	2	vegetation	0	4	5	0			73	no	No												
D Holman	06/10/2010	bed turning/moving beds	W	8.30	8.35	y	1	vegetation	0	4	5	0	92.3	75.6	78	no	No												
D Holman	06/10/2010	bed turning/moving beds	NW	9.18	9.23	y	1	vegetation	0	2	5	0			79	no	No												
D Holman	06/10/2010	bed turning/moving beds	N	17.42	17.47	y	1	vegetation	0	2	5	0	65.4	55.3	62	no	No	Clear	1.59			3	SW	20	sunny spells	4	dry		
D Holman	06/10/2010	bed turning/moving beds	NE	17.36	17.41	y	3	odour control	1	2	5	0	166.2	67.2	61	no	No	Clear											
D Holman	06/10/2010	bed turning/moving beds	NE1	17.30	17.35	n							139.3	92				Clear											
D Holman	06/10/2010	bed turning/moving beds	E	17.24	17.29	y	4	odour control	1	2	5	0	188.9	122.7	57	no	No	Clear	1.96										
D Holman	06/10/2010	bed turning/moving beds	SE	17.18	17.23	y	2	odour control	1	3	5	0			58	no	No												
D Holman	06/10/2010	bed turning/moving beds	S	17.12	17.17	y	1	vegetation	0	3	5	0	169.2	89.3	65	no	No												
D Holman	06/10/2010	bed turning/moving beds	SW	17.06	17.11	y	1	vegetation	0	4	5	0			76	no	No												
D Holman	06/10/2010	bed turning/moving beds	W	17.00	17.05	y	1	vegetation	0	4	5	0	120.8	66.5	82	no	No												
D Holman	06/10/2010	bed turning/moving beds	NW	17.48	17.53	y	1	vegetation	0	2	5	0			81	no	No												
D Holman	07/10/2010	excavating in grids H11/H12, bed turning/moving beds	N	10.02	10.07	y	1	odour control and vegetation	0	2	3	0	244.3	118.7	59	no	No	Clear	1.59			0.5	SE	13	sunny	3	dry		
D Holman	07/10/2010	excavating in grids H11/H12, bed turning/moving beds	NE	9.56	10.01	y	2	odour control	1	2	5	0	264.6	199.1	58	no	No	Clear											
D Holman	07/10/2010	excavating in grids H11/H12, bed turning/moving beds	NE1	9.50	9.55	n							201.7	157.4				Clear											
D Holman	07/10/2010	excavating in grids H11/H12, bed turning/moving beds	E	9.46	9.49	y	2	vegetation	0	2	5	0	235.4	94.9	56	no	No	Clear	1.97										
D Holman	07/10/2010	excavating in grids H11/H12, bed turning/moving beds	SE	9.38	9.43	y	1	vegetation	0	3	5	0			53	no	No												
D Holman	07/10/2010	excavating in grids H11/H12, bed turning/moving beds	S	9.37	9.37	y	3	vegetation	0	3	5	0	141.8	106.2	63	no	No												
D Holman	07/10/2010	excavating in grids H11/H12, bed turning/moving beds	SW	9.26	9.31	y	1	vegetation	0	4	5	0			72	no	No												
D Holman	07/10/2010	excavating in grids H11/H12, bed turning/moving beds	W	9.20	9.25	y	3	chemical, sweat	-1	4	5	0	22.54	159.4	78	no	No												
D Holman	07/10/2010	excavating in grids H11/H12, bed turning/moving beds	NW	10.08	10.13	y	3	odour control	1	2	5	0			77	no	No												
D Holman	07/10/2010	excavating in grids H11/H12, bed turning/moving beds	N	17.12	17.17	y	2	vegetation	0	2	5	0	230	45.1	58	no	No	Clear	1.59			2	ese	16	cloudy	8	dry		
D Holman	07/10/2010	excavating in grids H11/H12, bed turning/moving beds	NE	17.06	17.11	y	2	vegetation	0	2	5	0	135.6	19.5	56	no	No	Clear											
D Holman	07/10/2010	excavating in grids H11/H12, bed turning/moving beds	NE1	17.00	17.05	n							177.1	35.9				Clear											
D Holman	07/10/2010	excavating in grids H11/H12, bed turning/moving beds	E	16.54	16.59	y	3	vegetation	0	2	5	0	117.9	120	58	no	No	Clear	1.97										
D Holman	07/10/2010	excavating in grids H11/H12, bed turning/moving beds	SE	16.48	16.53	y	1	vegetation	0	3	5	0			54	no	No												
D Holman	07/10/2010	excavating in grids H11/H12, bed turning/moving beds	S	16.42	16.47	y	2	vegetation	0	3	5	0	215.9	138.1	65	no	No												
D Holman	07/10/2010	excavating in grids H11/H12, bed turning/moving beds	SW	16.36	16.41	y	3	vegetation	0	4	5	0			72	no	No												
D Holman	07/10/2010	excavating in grids H11/H12, bed turning/moving beds	W	16.30	16.35	y	5	sweet chemical	-1	4	5	0	140.9	57.9	79	no	No												
D Holman	07/10/2010	excavating in grids H11/H12, bed turning/moving beds	NW	16.18	16.23	y	4	sweet chemical	-1	2	5	0			77	no	No												
D Holman	08/10/2010	excavating in grids/bed turning/concrete crushing	N	10.22	10.27	y	1	vegetation	0	2	5	0			53	no	No	Clear	1.58			3	ese	16	cloudy	8	dry	Dust monitoring not undertaken due to heavy rai	
D Holman	08/10/2010	excavating in grids/bed turning/concrete crushing	NE	10.16	10.21	y	1	vegetation	0	2	5	0			56	no	No	Clear											
D Holman	08/10/2010	excavating in grids/bed turning/concrete crushing	NE1	10.10	10.15	n												Clear											
D Holman	08/10/2010	excavating in grids/bed turning/concrete crushing	E	10.04	10.09	y	1	vegetation	0	2	5	0			55	no	no	Clear	1.96										
D Holman	08/10/2010	excavating in grids/bed turning/concrete crushing	SE	9.58	10.03	y	2	vegetation	0	3	5	0			51	no	no												
D Holman	08/10/2010	excavating in grids/bed turning/concrete crushing	S	9.52	9.57	y	2	vegetation	0	3	5	0			63	no	no												
D Holman	08/10/2010	excavating in grids/bed turning/concrete crushing	SW	9.46	9.51	y	2	vegetation	0	4	5	0			69	no	no												
D Holman	08/10/2010	excavating in grids/bed turning/concrete crushing	W	9.40	9.45	y	3	sweet chemical and exhaust fumes	-1	4	5	0			78	no	no												
D Holman	08/10/2010	excavating in grids/bed turning/concrete crushing	NW	10.28	10.33	y	2	sweet chemical and odour control	-1	2	5	0			76	no	no												
D Holman	08/10/2010	bed turning/moving beds into forced vent kit	N	17.42	17.47	y	2	vegetation	0	2	5	0			65	no	no	Clear	1.58			2	ene	17	cloudy	8	dry	odour control present across mill house car park <3/9 0.5ppm	
D Holman	08/10/2010	bed turning/moving beds into forced vent kit	NE	17.36	17.41	y	3	vegetation	0	2	5	0			58	no	no	Clear											
D Holman	08/10/2010	bed turning/moving beds into forced vent kit	NE1	17.30	17.35	n												Clear											
D Holman	08/10/2010	bed turning/moving beds into forced vent kit	E	17.24	17.29	y	3	vegetation	0	2	5	0			59	no	no	Clear	1.96										
D Holman	08/10/2010	bed turning/moving beds into forced vent kit	SE	17.18	17.23	y	1	vegetation	0	3	5	0			57	no	no												
D Holman	08/10/2010	bed turning/moving beds into forced vent kit	S	17.12	17.17	y	2	vegetation	0	3	5	0			66	no	no												
D Holman	08/10/2010	bed turning/moving beds into forced vent kit	SW	17.06	17.11	y	2	vegetation	0	4	5	0			76	no	no												
D Holman	08/10/2010	bed turning/moving beds into forced vent kit	W	17.00	17.05	y	3	sweet chemical and odour control	-1	4	5	0			81	no	no												
D Holman	08/10/2010	bed turning/moving beds into forced vent kit	NW	17.48	17.53	y	2	odour control	1	2	5	0			82	no	no												
D Holman	11/10/2010	bed turning/moving beds	N	10.02	10.07	y	1	vegetation	0	2	5	0	209.3	193.5	57	no	no	Clear	1.58			3	n	14	sunny spells	4	dry		
D Holman	11/10/2010	bed turning/moving beds	NE	9.56	10.01	y	3	vegetation	0	2	5	0	270.7	180	58	no	no												
D Holman	11/10/2010	bed turning/moving beds	NE1	9.50	9.55	n							244.4	134.9				Clear											
D Holman	11/10/2010	bed turning/moving beds	E	9.44	9.49	y				2	5	0	215.8	154.1	56	no	No	Clear	1.96										
D Holman	11/10/2010	bed turning/moving beds	SE	9.38	9.43	y	2	odour control and sweet chemical	0	3	5	0			60	no	no												
D Holman	11/10/2010	bed turning/moving beds	S	9.32	9.37	y	1	vegetation	0	3	5	0	113.4	48.9	63	no	no												
D Holman	11/10/2010	bed turning/moving beds	SW	9.26	9.31	y	3	solvents	-1	4	5	0			69	no	no												
D Holman	11/10/2010	bed turning/moving beds	W	9.20	9.25	y	2	odour control and vegetation	0	4	3	0	142.6	91.4	78	no	no												
D Holman	11/10/2010	bed turning/moving beds	NW	10.08	10.13	y	2	vegetation	0	2	5	0			77	no	no												
D Holman	11/10/2010	bed turning/moving beds	N	17.42	17.47	y	1	vegetation	0	2	5	0	86.1	42.4	62	no	no	Clear	1.58			5	n	23	sun	1	dry	solvent odour present between gate and SW corner 2-3/Q and <0.4ppm. Slight solvent odour present around S the gate s-2/Q 0.1ppm	
D Holman	11/10/2010	bed turning/moving beds	NE	17.36	17.41	y	2	vegetation	0	2	5	0	160	51.6	57	no	no	Clear											
D Holman	11/10/2010	bed turning/moving beds	NE1	17.30	17.35	n							63.4	19.8				Clear											
D Holman	11/10/2010	bed turning/moving beds	E	17.24	17.29	y	2	vegetation	0	2	5	0	109.5	81	56	no	no	Clear	1.96										
D Holman	11/10/2010	bed turning/moving beds	SE	17.18	17.23	y	4	vegetation	0	3	5	0			59	no	no												
D Holman	11/10/2010	bed turning/moving beds	S	17.12	17.17	y	3	vegetation	0	3	5	0	101.3	61.2	66	no	no												
D Holman	11/10/2010	bed turning/moving beds	SW	17.06	17.11	y	3	solvent and odour control	0	4	5	0.4			76	no	no												
D Holman	11/10/2010	bed turning/moving beds	W	17.00	17.05	y	3	odour control	1	4	5	0	188.2	70.5	81	no	no												
D Holman	11/10/2010	bed turning/moving beds	NW	17.48	17.53	y	2	vegetation	0	2	5	0			80	no	no												
D Holman	12/10/2010	bed turning/forming forced vent beds/moving beds	N	10.42	10.47	y	1	vegetation	0	2	5	0	90.7	40.8	57	no	no	Clear	1.57			0.5	ene	12	cloudy	8	dry		
D Holman	12/10/2010	bed turning/forming forced vent beds/moving beds	NE	10.36	10.41	y	3	vegetation	0	2	5	0	156.1	120.9	58	no	no	Clear											
D Holman	12/10/2010	bed turning/forming forced vent beds/moving beds	NE1	10.30	10.35	n							115.6	29.3				Clear											
D Holman	12/10/2010	bed turning/forming forced vent beds/moving beds	E	10.24	10.29	y	1	vegetation	0	2	5	0	75.2	26.6	66	no	no	Clear	1.96										
D Holman	12/10/2010	bed turning/forming forced vent beds/moving beds	SE	10.18	10.23	y	1	vegetation earth	0	3	5	0			63	no	no												
D Holman	12/10/2010	bed turning/forming forced vent beds/moving beds	S	10.12	10.17	y	1	vegetation	0	3	5	0	31.6	10.4	62	no	no												
D Holman	12/10/2010	bed turning/forming forced vent beds/moving beds	SW	10.06	10.11	y	2	cut grass and solvents	-1	4	5	0.4			73	no	no												
D Holman	12/10/2010	bed turning/forming forced vent beds/moving beds	W	10.00	10.05	y	2	vegetation	0	4	5	0	95.2	82.9	77	no	no												
D Holman	12/10/2010	bed turning/forming forced vent beds/moving beds	NW	10.48	10.53	y	2	exhaust fumes and vegetation	0	2	5	0			77	no	no												
D Holman	12/10/2010	excavating in grids/bed turning/moving beds	N	17.42	17.47	y	2	vegetation	0	2	5	0	109.8	54.3	59	no	no	Clear	1.57			0.5	n	14	cloudy	8	dry		
D Holman	12/10/2010	excavating in grids/bed turning/moving beds	NE	17.36	17.41	y	1	vegetation	0	2	5	0	118.2	6.9	63	no	No	Clear											
D Holman	12/10/2010	excavating in grids/bed turning/moving beds	NE1	17.30	17.35	n							93.5	51				Clear											
D Holman	12/10/2010	excavating in grids/bed turning/moving beds	E	17.24	17.29	y	1	vegetation	0	2	5	0	153.8	79	62	no	no	Clear	1.96										
D Holman	12/10/2010	excavating in grids/bed turning/moving beds	SE	17.18	17.23	y	2	odour control	0	3	5	0			59	no	no												
D Holman	12/10/2010	excavating in grids/bed turning/moving beds	S	17.12	17.17	y	1	vegetation	0	3	5	0	73.2	62.6	62	no	no												
D Holman	12/10/2010	excavating in grids/bed turning/moving beds	SW	17.06	17.11	y	3	odour control and solvents	-1	4	5	0.3			74	no	no												
D Holman	12/10/2010	excavating in grids/bed turning/moving beds	W	17.00	17.05	y	3	odour control	1	4	5	0	159.1	115.1	79	no	no												
D Holman	12/10/2010	excavating in grids/bed turning/moving beds	NW	17.48	17.53	y	3	vegetation and odour control	0	2	5	0			79	no	no												
D Holman	13/10/2010	excavating in grids/bed turning/concrete crushing	N	9.52	9.57	y	2	vegetation	0	2	5	0	51	35.5	59	no	no	Clear	1.57			0.5	ene	10	cloudy	8	dry		
D Holman	13/10/2010	excavating in grids/bed turning/concrete crushing	NE	9.46	9.51	y	1	vegetation	0	2	5	0	64.5	51	62	no	no	Clear											
D Holman	13/10/2010	excavating in grids/bed turning/concrete crushing	NE1	9.40	9.45	n							181.3	83				Clear											
D Holman	13/10/2010	excavating in grids/bed turning/concrete crushing	E	9.34	9.39	y	3	vegetation	0	2	5	0	207.4	84.6	57	no	no	Clear	1.96										
D Holman	13/10/2010	excavating in grids/bed turning/concrete crushing	SE	9.28	9.33	y	2	vegetation	0	3	5	0			55	no	no												
D Holman	13/10/2010	excavating in grids/bed turning/concrete crushing	S	9.22	9.27	y	2	vegetation	0	3	5	0	94.4	32.3	64	no	no												
D Holman	13/10/2010	excavating in grids/bed turning/concrete crushing	SW	9.16	9.21	y	3	odour control	1	4	5	0			76	no	no												
D Holman	13/10/2010	excavating in grids/bed turning/concrete crushing	W	9.10	9.15	y	2	odour control and earth	0	4	5	0	59.8	28.3	78	no	no												
D Holman	13/10/2010	excavating in grids/bed turning/concrete crushing	NW	9.58	10.03	y	1	vegetation	0	2	5	0			77	no	no												
D Holman	13/10/2010	excavating in grids/bed turning/concrete crushing	N	17.42	17.47	y	2	vegetation	0	2	5	0	48.7	32.6	58	no	no	Clear	1.57			5	n	11	cloudy	8	dry		
D Holman	13/10/2010	excavating in grids/bed turning/concrete crushing	NE	17.36	17.41	y	2	vegetation	0	2	5	0	71.6	54.5	59	no	no	Clear											
D Holman	13/10/2010	excavating in grids/bed turning/concrete crushing	NE1	17.30	17.35	n							172.9	113.7				Clear											
D Holman	13/10/2010	excavating in grids/bed turning/concrete crushing	E	17.24	17.29	y	1	vegetation	0	2	5	0	231.2	196.8	58	no	no	Clear	1.96										
D Holman	13/10/2010	excavating in grids/bed turning/concrete crushing	SE	17.18	17.23	y	2	vegetation	0	3	5	0			64	no	no												
D Holman	13/10/2010	excavating in grids/bed turning/concrete crushing	S	17.12	17.17	y	3	vegetation	0	3	5	0	73.6	41.2	63	no	no												
D Holman	13/10/2010	excavating in grids/bed turning/concrete crushing	SW	17.06	17.11	y	2	odour control and solvents	0	4	5	0.3			73	no	no												
D Holman	13/10/2010	excavating in grids/bed turning/concrete crushing	W	17.00	17.05	y	2	odour control	1	4	5	0	48.7	36.1	79	no	no												
D Holman	13/10/2010	excavating in grids/bed turning/concrete crushing	NW	17.48	17.53	y	1	vegetation	0	2	5	0			81	no	no												

D Holman	14/10/2010	excavating in grids/bed turning/concrete crushing	N	10.42	10.47	y	1	vegetation	0	2	1	0	201.8	110.3	58	No	No	Clear	1.57			2	nw	10	cloudy	8	dry	
D Holman	14/10/2010	excavating in grids/bed turning/concrete crushing	NE	10.36	10.41	y	4	odour control	1	2	5	0	208.4	146.1	59	No	No	Clear										
D Holman	14/10/2010	excavating in grids/bed turning/concrete crushing	NE1	10.30	10.35								275.4	198.5				Clear										
D Holman	14/10/2010	excavating in grids/bed turning/concrete crushing	E	10.24	10.29	y	3	vegetation	0	2	1	0	226.4	113.6	55	No	No	Clear	1.96									
D Holman	14/10/2010	excavating in grids/bed turning/concrete crushing	SE	10.18	10.23	y	2	odour control and compost	0	3	5	0			54	No	No											
D Holman	14/10/2010	excavating in grids/bed turning/concrete crushing	S	10.12	10.17	y	2	compost	0	3	5	0	75.4	37.4	69	No	No											
D Holman	14/10/2010	excavating in grids/bed turning/concrete crushing	SW	10.06	10.11	y	3	solvent	0	4	5	0			74	No	No											
D Holman	14/10/2010	excavating in grids/bed turning/concrete crushing	W	10.00	10.05	y	1	odour control	1	4	5	0	81.2	50.4	79	No	No											
D Holman	14/10/2010	excavating in grids/bed turning/concrete crushing	NW	10.48	10.53	y	3	vegetation and exhaust fumes	0	2	1	0			78	No	No											
D Holman	14/10/2010	excavating in grids/bed turning/concrete crushing	N	17.12	17.17	y	2	vegetation	0	2	1	0	28.1	12.1	58	No	No	Clear	1.57			0.5	n	11	cloudy	8	dry	
D Holman	14/10/2010	excavating in grids/bed turning/concrete crushing	NE	17.06	17.11	y	2	vegetation	0	2	1	0	181.3	56	59	No	No	Clear										
D Holman	14/10/2010	excavating in grids/bed turning/concrete crushing	NE1	17.00	17.05								23	19.3				Clear										
D Holman	14/10/2010	excavating in grids/bed turning/concrete crushing	E	16.54	16.59	y	3	vegetation	0	2	1	0	149.9	24	58	No	No	Clear	1.96									
D Holman	14/10/2010	excavating in grids/bed turning/concrete crushing	SE	16.48	16.53	y	1	vegetation	0	3	1	0			56	No	No											
D Holman	14/10/2010	excavating in grids/bed turning/concrete crushing	S	16.42	16.47	y	2	compost and odour control	0	3	5	0	41.7	37	66	No	No											
D Holman	14/10/2010	excavating in grids/bed turning/concrete crushing	SW	16.36	16.41	y	3	odour control	1	4	5	0			77	No	No											
D Holman	14/10/2010	excavating in grids/bed turning/concrete crushing	W	16.30	16.35	y	2	vegetation	0	4	1	0	186.6	43.9	82	No	No											
D Holman	14/10/2010	excavating in grids/bed turning/concrete crushing	NW	17.18	17.23	y	3	vegetation and exhaust fumes	0	2	1	0			81	No	No											
D Holman	15/10/2010	bed turning/moving beds	N	9.42	9.47	y	1	vegetation	0	2	1	0	175.5	157.7	58	No	No	Clear	1.58			0	nw	10	cloudy	8	damp	
D Holman	15/10/2010	bed turning/moving beds	NE	9.36	9.41	y	2	odour control	1	2	5	0	190.5	91.6	54	No	No	Clear										
D Holman	15/10/2010	bed turning/moving beds	NE1	9.30	9.35								216.1	194				Clear										
D Holman	15/10/2010	bed turning/moving beds	E	9.24	9.29	y	3	odour control	1	2	5	0	209.4	167.6	56	No	No	Clear	1.96									
D Holman	15/10/2010	bed turning/moving beds	SE	9.18	9.23	y	5	odour control	1	3	5	0			53	No	No											
D Holman	15/10/2010	bed turning/moving beds	S	9.12	9.17	y	3	odour control	1	3	5	0	205.8	185.1	63	No	No											
D Holman	15/10/2010	bed turning/moving beds	SW	9.06	9.11	y	2	compost and vegetation	0	4	3	0			75	No	No											
D Holman	15/10/2010	bed turning/moving beds	W	9.00	9.05	y	1	vegetation	0	4	1	0	199.5	145	81	No	No											
D Holman	15/10/2010	bed turning/moving beds	NW	9.48	9.53	y	3	vegetation and exhaust fumes	0	2	1	0			80	No	No											
D Holman	15/10/2010	excavating in grids/bed turning/concrete crushing	N	16.22	16.27	y	1	vegetation	0	2	1	0	25.4	16.2				Clear	1.58			8	wnw	12	cloudy	8	dry	
D Holman	15/10/2010	excavating in grids/bed turning/concrete crushing	NE	16.16	16.21	y	3	odour control	1	2	5	0	90.9	58.4	56	no	no	Clear										
D Holman	15/10/2010	excavating in grids/bed turning/concrete crushing	NE1	16.10	16.15								155.1	131				Clear										
D Holman	15/10/2010	excavating in grids/bed turning/concrete crushing	E	16.04	16.09	y	2	chemical earthy type smell	0	2	5	0	95.1	27.8	55	no	no	Clear	1.96									
D Holman	15/10/2010	excavating in grids/bed turning/concrete crushing	SE	15.58	16.03	y	5	odour control	1	3	5	0			53	no	no											
D Holman	15/10/2010	excavating in grids/bed turning/concrete crushing	S	15.52	15.57	y	4	odour control	1	3	5	0	81.2	32.8	64	no	no											
D Holman	15/10/2010	excavating in grids/bed turning/concrete crushing	SW	15.46	15.51	y	2	exhaust fumes and cut grass	0	4	1	0			71	no	no											
D Holman	15/10/2010	excavating in grids/bed turning/concrete crushing	W	15.40	15.45	y	3	vegetation	0	4	1	0	206.2	51.9	79	no	no											
D Holman	15/10/2010	excavating in grids/bed turning/concrete crushing	NW	16.28	16.33	y	2	vegetation	0	2	1	0			81	no	no											
D Holman	18/10/2010	excavating in grids/bed turning/breaking concrete	N	10.42	10.47	y	1	vegetation	0	2	1	0	40.6	34.5	58	no	no	Clear	1.58			5	wsw	9	cloudy	7	damp	PID reading <1.6ppm on eastern boundary,SM mobilised odour control foggers to the excavation
D Holman	18/10/2010	excavating in grids/bed turning/breaking concrete	NE	10.36	10.41	y	2	odour control	1	2	5	0	48.9	33.1	63	no	no	Clear										
D Holman	18/10/2010	excavating in grids/bed turning/breaking concrete	NE1	10.30	10.35								236.2	151.3				Clear										
D Holman	18/10/2010	excavating in grids/bed turning/breaking concrete	E	10.24	10.29	y	3	sweet, chemical	0	2	5	0	163	103	64	no	no	Clear	1.96									
D Holman	18/10/2010	excavating in grids/bed turning/breaking concrete	SE	10.18	10.23	y	1	sweet, chemical and vegetation	0	3	3	0			56	no	no											
D Holman	18/10/2010	excavating in grids/bed turning/breaking concrete	S	10.12	10.17	y	1	vegetation	0	3	1	0	64.9	62.5	64	no	no											
D Holman	18/10/2010	excavating in grids/bed turning/breaking concrete	SW	10.06	10.11	y	1	vegetation	0	4	1	0			73	no	no											
D Holman	18/10/2010	excavating in grids/bed turning/breaking concrete	W	10.00	10.05	y	1	vegetation	0	4	1	0	97.5	96	81	no	no											
D Holman	18/10/2010	excavating in grids/bed turning/breaking concrete	NW	10.48	10.53	y	1	vegetation	0	2	1	0			79	no	no											
D Holman	18/10/2010	bed turning/breaking concrete/hauling concrete	N	16.42	16.47	y	1	vegetation	0	2	1	0	41.2	32.3	57	No	No	Clear	1.58			10	wsw	14	sunny	5	dry	
D Holman	18/10/2010	bed turning/breaking concrete/hauling concrete	NE	16.36	16.41	y	3	odour control	1	2	5	0	57.1	36.9	65	No	No	Clear										
D Holman	18/10/2010	bed turning/breaking concrete/hauling concrete	NE1	16.30	16.35								198.9	147.3				Clear										
D Holman	18/10/2010	bed turning/breaking concrete/hauling concrete	E	16.24	16.29	y	2	odour control	1	2	5	0	234.4	159.6	63	No	No	Clear	1.96									
D Holman	18/10/2010	bed turning/breaking concrete/hauling concrete	SE	16.18	16.23	y	1	odour control	1	3	5	0			62	No	No											
D Holman	18/10/2010	bed turning/breaking concrete/hauling concrete	S	16.12	16.17	y	2	vegetation	0	3	1	0	65.7	15.8	59	No	No											
D Holman	18/10/2010	bed turning/breaking concrete/hauling concrete	SW	16.06	16.11	y	1	vegetation	0	4	1	0			69	No	No											
D Holman	18/10/2010	bed turning/breaking concrete/hauling concrete	W	16.00	16.05	y	1	vegetation	0	4	1	0	82.7	67.1	78	No	No											
D Holman	18/10/2010	bed turning/breaking concrete/hauling concrete	NW	16.48	16.53	y	2	vegetation	0	2	1	0			77	No	No											
D Holman	19/10/2010	bed turning/breaking concrete/hauling concrete	N	10.42	10.47	y	1	vegetation	0	2	1	0	260.9	51.6	59	no	no	Clear	1.57			4	wnw	13	sunny	4	dry	
D Holman	19/10/2010	bed turning/breaking concrete/hauling concrete	NE	10.36	10.41	y	3	odour control	1	2	5	0	289.1	186.4	67	no	no	Clear										
D Holman	19/10/2010	bed turning/breaking concrete/hauling concrete	NE1	10.30	10.35								241.6	132.4				Clear										
D Holman	19/10/2010	bed turning/breaking concrete/hauling concrete	E	10.24	10.29	y	3	phenol and odour control	0	2	5	0	144.6	102.9	69	no	no	Clear	1.96									
D Holman	19/10/2010	bed turning/breaking concrete/hauling concrete	SE	10.18	10.23	y	1	sweet, chemical and soil/earth	0	3	5	0			66	no	no											
D Holman	19/10/2010	bed turning/breaking concrete/hauling concrete	S	10.12	10.17	y	1	vegetation	0	3	1	0	173.5	110.6	65	no	no											
D Holman	19/10/2010	bed turning/breaking concrete/hauling concrete	SW	10.06	10.11	y	1	vegetation	0	4	1	0			74	no	no											
D Holman	19/10/2010	bed turning/breaking concrete/hauling concrete	W	10.00	10.05	y	3	vegetation	0	4	1	0	204.9	136.4	79	no	no											
D Holman	19/10/2010	bed turning/breaking concrete/hauling concrete	NW	10.48	10.53	y	1	vegetation	0	2	1	0			78	no	no											
D Holman	19/10/2010	bed turning/breaking concrete/hauling concrete	N	17.42	17.47	y	2	vegetation	0	2	1	0			57	no	no	Clear	1.57			5	wnw	8	cloudy	8	damp	odour control detectable 20 west of east end of hoarding 3/9 0.0ppm
D Holman	19/10/2010	bed turning/breaking concrete/hauling concrete	NE	17.36	17.41	y	3	odour control	1	2	5	0			56	no	no	Clear										To wet to use dust mate for dust monitoring
D Holman	19/10/2010	bed turning/breaking concrete/hauling concrete	NE1	17.30	17.35													Clear										
D Holman	19/10/2010	bed turning/breaking concrete/hauling concrete	E	17.24	17.29	y	3	compost and soil/earth	0	2	5	0			57	no	no	Clear	1.96									
D Holman	19/10/2010	bed turning/breaking concrete/hauling concrete	SE	17.18	17.23	y	3	odour control	1	3	5	0			58	no	no											
D Holman	19/10/2010	bed turning/breaking concrete/hauling concrete	S	17.12	17.17	y	3	odour control	1	3	5	0			64	no	no											
D Holman	19/10/2010	bed turning/breaking concrete/hauling concrete	SW	17.06	17.11	y	2	vegetation	0	4	1	0			75	no	no											
D Holman	19/10/2010	bed turning/breaking concrete/hauling concrete	W	17.00	17.05	y	3	vegetation	0	4	1	0			82	no	no											
D Holman	19/10/2010	bed turning/breaking concrete/hauling concrete	NW	17.48	17.53	y	1	vegetation	0	2	1	0			80	no	no											
D Holman	20/10/2010	excavating in grids H/I16, bed turning, forming bed I20	N	11.42	11.47	y	2	vegetation	0	2	1	0	186.5	106.6	57	No	No	Clear	1.57			6	nne	13	sunny	1	dry	chemical odour around s emergency exit, 0-2/9 intermittent for appox 10m 0.0ppn
D Holman	20/10/2010	excavating in grids H/I16, bed turning, forming bed I20	NE	11.36	11.41	y	1	vegetation	0	2	1	0	60.6	55.9	55	No	No	Clear										
D Holman	20/10/2010	excavating in grids H/I16, bed turning, forming bed I20	NE1	11.30	11.35								107.6	73.9				Clear										
D Holman	20/10/2010	excavating in grids H/I16, bed turning, forming bed I20	E	11.24	11.29	y	3	compost and earth/soil	0	2	5	0	162.5	101.3	59	No	No	Clear	1.95									
D Holman	20/10/2010	excavating in grids H/I16, bed turning, forming bed I20	SE	11.18	11.23	y	2	compost, chemical and earth/soil	0	3	5	0			56	No	No											
D Holman	20/10/2010	excavating in grids H/I16, bed turning, forming bed I20	S	11.12	11.17	y	1	vegetation	0	3	1	0	163.7	80.8	63	No	No											
D Holman	20/10/2010	excavating in grids H/I16, bed turning, forming bed I20	SW	11.06	11.11	y	2	vegetation and exhaust fumes	0	4	1	0			74	No	No											
D Holman	20/10/2010	excavating in grids H/I16, bed turning, forming bed I20	W	11.00	11.05	y	1	vegetation	0	4	1	0	44.2	35.7	78	No	No											
D Holman	20/10/2010	excavating in grids H/I16, bed turning, forming bed I20	NW	11.48	11.53	y	3	vegetation	0	2	1	0			77	No	No											
I Stephenson	20/10/2010	Excavating in grid I16/bed turning	N	17.20	17.25	n				2		0	123.3	68.3	57.1	No	No	Clear	1.57	no	no	4.4	nw	15	sunny	0	dry	
I Stephenson	20/10/2010	Excavating in grid I16/bed turning	NE	17.15	17.20	n				2		0	114.4	51.2	59	No	No	Clear		no	no							
I Stephenson	20/10/2010	Excavating in grid I16/bed turning	NE1	17.10	17.15								57.1	14.6				Clear		no	no							
I Stephenson	20/10/2010	Excavating in grid I16/bed turning	E	17.05	17.10	n				2		0	98.5	42.1	56.5	No	No	Clear	1.95	no	no							
I Stephenson	20/10/2010	Excavating in grid I16/bed turning	SE	17.00	17.05	n				3		0			61.2	No	No			no	no							
I Stephenson	20/10/2010	Excavating in grid I16/bed turning	S	16.55	17.00	n				3		0	34.5	5.9	64.9	No	No			no	no							
I Stephenson	20/10/2010	Excavating in grid I16/bed turning	SW	16.50	16.55	n				4		0			71.4	No	No			no	no							
I Stephenson	20/10/2010	Excavating in grid I16/bed turning	W	17.30	17.35	n				4		0	17.4	1.3	32.3	No	No			no	no							
I Stephenson	20/10/2010	Excavating in grid I16/bed turning	NW	17.25	17.30	n				2		0			71.8	No	No			no	no							
D Holman	21/10/2010	Excavating in grid I16/bed turning/forming beds	N	9.42	9.47	y	1	vegetation	0	2	1	0	60.4	28.9	56	No	No	Clear	1.57			2	sse	4	sun	1	dry	PID 3.4ppm on eastern boundary from main excavation, site manager increased number of odour control units
D Holman	21/10/2010	Excavating in grid I16/bed turning/forming beds	NE	9.36	9.41	y	2	solvent	-1	2	5	1	201.1	60.5	59	No	No	Clear										
D Holman	21/10/2010	Excavating in grid I16/bed turning/forming beds	NE1	9.30	9.35								108	40.7				Clear										
D Holman	21/10/2010	Excavating in grid I16/bed turning/forming beds	E	9.24	9.29	y	1	vegetation	0	2	1	0	64.2	39	57	No	No	Clear	1.96									
D Holman	21/10/2010	Excavating in grid I16/bed turning/forming beds	SE	9.18	9.23	n				3		0			53	No	No											
D Holman	21/10/2010	Excavating in grid I16/bed turning/forming beds	S	9.12	9.17	y	1	cut grass	0	3	1	0	34.6	10.6	63	No	No											
D Holman	21/10/2010	Excavating in grid I16/bed turning/forming beds	SW	9.06	9.11	y	1	vegetation	0	4	1	0			74	No	No											
D Holman	21/10/2010	Excavating in grid I16/bed turning/forming beds	W	9.00	9.05	y	1	vegetation	0	4	1	0	162.6	107.8	81	No	No											
D Holman	21/10/2010	Excavating in grid I16/bed turning/forming beds	NW	9.48	9.53	y	1	vegetation and exhaust fumes	0	2	1	0			79	No	No											
D Holman	21/10/2010	Excavating in grid I16/bed turning/forming beds	N	5.42	5.47	y	1	vegetation	0	2	1	0			58	No	No	Clear	1.57			2	wsw	10	cloudy/ rain	6	dry	Too wet to use dust mate
D Holman	21/10/2010	Excavating in grid I16/bed turning/forming beds	NE	5.36	5.41	y	2	compost and earth/soil	0	2	5	0			64	No	No	Clear										
D Holman	21/10/2010	Excavating in grid I16/bed turning/forming beds	NE1	5.30	5.35													Clear										
D Holman	21/10/2010	Excavating in grid I16/bed turning/forming beds	E	5.24	5.29	y	1	vegetation	0	2	1	0			58	no	no	Clear	1.96									
D Holman	21/10/2010	Excavating in grid I16/bed turning/forming beds	SE	5.18	5.23	y	2	compost and earth/soil	0	3	5	0			53	no	no											
D Holman	21/10/2010	Excavating in grid I16/bed turning/forming beds	S	5.12	5.17	y	1	vegetation	0	3	1	0			64	no	no											
D Holman	21/10/2010	Excavating in grid I16/bed turning/forming beds	SW	5.06	5.11	y	1	vegetation	0	4	1	0			75	no	no											
D Holman	21/10/2010	Excavating in grid I16/bed turning/forming beds	W	5.00	5.05	y	1	vegetation	0	4	1	0			81	no	no											
D Holman	21/10/2010	Excavating in grid I16/bed turning/forming beds	NW	5.48	5.53	y	1	vegetation	0	2	1	0			79	no	no											
D Holman	22/10/2010	Excavating in grid I16/bed turning/forming beds	N	10.12	10.17	y	1	vegetation	0	2	1	0	215.5	69.2	62	No	No	Clear	1.58			1	wsw	6	cloudy	5	dry	
D Holman	22/10/2010	Excavating in grid I16/bed turning/forming beds	NE	10.06	10.11	y	2	odour control	1	2	5	0	74.4	14.2	59	No	No	Clear										
D Holman	22/10/2010	Excavating in grid I16/bed turning/forming beds	NE1	10.00	10.05								281.5	221.9				Clear										
D Holman	22/10/2010	Excavating in grid I16/bed turning/forming beds	E	9.54	9.59	y	1	odour control	1	2	5	0	235.6	44.5	56	No	No	Clear	1.96									
D Holman	22/10/2010	Excavating in grid I16/bed turning/forming beds	SE	9.48	9.53	y	1	compost and earth/soil	0	3	5	0			53	No	No											
D Holman	22/10/2010	Excavating in grid I16/bed turning/forming beds	S	9.42	9.47	y	2	smoke	0	3	1	0	106.6	86.7	63	No	No											
D Holman	22/10/2010	Excavating in grid I16/bed turning/forming beds	SW	9.36	9.41	y	3	vegetation	0	4	1	0			74	No	No											
D Holman	22/10/2010	Excavating in grid I16/bed turning/forming beds	W	9.30	9.35	y	3	odour control	1	4	1	0	168.5	97.6	78	No	No											
D Holman	22/10/2010	Excavating in grid I16/bed turning/forming beds	NW	10.18	10.23	y	2	vegetation	0	2	1	0			77	No	No											
D Holman	22/10/2010	excavating in grids/bed turning/concrete crushing	N	17.12	17.17	y	1	vegetation	0	2	1	0			62	no	No	Clear	1.58			6	wsw	12	cloudy	8	dry	
D Holman	22/10/2010	excavating in grids/bed turning/concrete crushing	NE	17.06	17.11	y	3	odour control	0	2	5	0			59	No	No	Clear										
D Holman	22/10/2010	excavating in grids/bed turning/concrete crushing	NE1	17.00	17.05													Clear										
D Holman	22/10/2010	excavating in grids/bed turning/concrete crushing	E	16.54	16.59	y	1	vegetation and odour control	0	2	3	0			62	no	no	Clear	1.96									
D Holman	22/10/2010	excavating in grids/bed turning/concrete crushing	SE	16.48	16.53	y	2	vegetation	0	3	1	0			57	no	no											
D Holman	22/10/2010	excavating in grids/bed turning/concrete crushing	S	16.42	16.47	y	1	vegetation	0	3	1	0			64	no	no											
D Holman	22/10/2010	excavating in grids/bed turning/concrete crushing	SW	16.36	16.41	y	1	vegetation	0	4	1	0			74	no	no											
D Holman	22/10/2010	excavating in grids/bed turning/concrete crushing	W	16.30	16.35	y	2	vegetation	0	4	1	0			79	no	no											
D Holman	22/10/2010	excavating in grids/bed turning/concrete crushing	NW	16.18	16.23	y	3	vegetation	0	2	1	0			79	no	no											
D Holman	25/10/2010	excavating in grids/bed turning/concrete crushing	N	9.12	9.17	y	1	vegetation	0	2	1	0	122.7	40.4	56	no	no	Clear	1.57			0.5	SW	0.5	sun	0	dry	
D Holman	25/10/2010	excavating in grids/bed turning/concrete crushing	NE	9.06	9.11	n				2		0	268	106.5	54	no	no	Clear										
D Holman	25/10/2010	excavating in grids/bed turning/concrete crushing	NE1	9.00	9.05								288.6	170.9				Clear										
D Holman	25/10/2010	excavating in grids/bed turning/concrete crushing	E	8.54	8.59	y	1	sweet chemical	0	2	5	0	81.9	57.8	52	no	no	Clear	1.96									
D Holman	25/10/2010	excavating in grids/bed turning/concrete crushing	SE	8.48	8.53	y	1	vegetation	0	3	1	0			53	no	no											
D Holman	25/10/2010	excavating in grids/bed turning/concrete crushing	S	8.42	8.47	y	2	vegetation	0	3	1	0	33	13.9	64	no	no											
D Holman	25/10/2010	excavating in grids/bed turning/concrete crushing	SW	8.36	8.41	y	1	vegetation	0	4	1	0			74	no	no											
D Holman	25/10/2010	excavating in grids/bed turning/concrete crushing	W	8.30	8.35	y	1	vegetation and manure	0	4	1	0	73.4	29.3	78	no	no											
D Holman	25/10/2010	excavating in grids/bed turning/concrete crushing	NW	9.18	9.23	y	1	vegetation	0	2	1	0			77	no	no											
D Holman	25/10/2010	bed turning/creating haul road with concrete fines	N	16.42	16.47	y	2	vegetation	0	2	1	0	136.2	46.8	58	no	no	Clear	1.57			0	sw	9	sun	0	dry	
D Holman	25/10/2010	bed turning/creating haul road with concrete fines	NE	16.36	16.41	y	3	odour control	1	2	5	0	104.4	34.2	59	no	no	Clear										
D Holman	25/10/2010	bed turning/creating haul road with concrete fines	NE1	16.30	16.35								173.9	34.4				Clear										
D Holman	25/10/2010	bed turning/creating haul road with concrete fines	E	16.24	16.29	y	2	odour control	1	2	5	0	84.1	51.4	57	no	no	Clear	1.96									
D Holman	25/10/2010	bed turning/creating haul road with concrete fines	SE	16.18	16.23	y	1	vegetation	1	3	5	0			54	no	no											
D Holman	25/10/2010	bed turning/creating haul road with concrete fines	S	16.12	16.17	y	3	vegetation	0	3	1	0	80.3	58.4	62	no	no											
D Holman	25/10/2010	bed turning/creating haul road with concrete fines	SW	16.06	16.11	y	1	vegetation	0	4	1	0			73	no	no											
D Holman	25/10/2010	bed turning/creating haul road with concrete fines	W	16.00	16.05	y	1	vegetation	0	4	1	0	201.5	122	79	no	no											
D Holman	25/10/2010	bed turning/creating haul road with concrete fines	NW	16.48	16.53	y	2	vegetation	0	2	1	0			78	no	no											
D Holman	26/10/2010	bed turning/forming haul road with fines	N	10.42	10.47	y	2	vegetation	0	2	1	0			63	no	no	Clear	1.57			20	sse	8	rain	8	wet	To wet to use dust monitor
D Holman	26/10/2010	bed turning/forming haul road with fines	NE	10.36	10.41	y	3	concrete and odour control	0	2	5	0			61	no	no	Clear										
D Holman	26/10/2010	bed turning/forming haul road with fines	NE1	10.30	10.35													Clear										
D Holman	26/10/2010	bed turning/forming haul road with fines	E	10.24	10.29	y	1	vegetation	0	2	1	0			53	no	no	Clear	1.95									

D Holman	26/10/2010	bed turning/forming haul road with fines	SE	10.18	10.23	y	1	vegetation	0	3	1	0			55	no	no															
D Holman	26/10/2010	bed turning/forming haul road with fines	S	10.12	10.17	y	2	vegetation	0	3	1	0			65	no	no															
D Holman	26/10/2010	bed turning/forming haul road with fines	SW	10.06	10.11	y	1	vegetation	0	4	1	0			74	no	no															
D Holman	26/10/2010	bed turning/forming haul road with fines	W	10.00	10.05	y	2	vegetation	0	4	1	0			79	no	no															
D Holman	26/10/2010	bed turning/forming haul road with fines	NW	10.48	10.53	y	2	vegetation	0	2	1	0			78	no	no															
D Holman	26/10/2010	excavating in grids/bed turning/concrete crushing	N	17.42	17.47	y	1	vegetation	0	2	1	0			59	no	no	Clear	1.57					10	ssw	10	rain	8	wet				
D Holman	26/10/2010	excavating in grids/bed turning/concrete crushing	NE	17.36	17.41	y	3	concrete and odour control	0	2	1	0			58	no	no	Clear														
D Holman	26/10/2010	excavating in grids/bed turning/concrete crushing	NE1	17.30	17.35	y												Clear														
D Holman	26/10/2010	excavating in grids/bed turning/concrete crushing	E	17.24	17.29	y	3	vegetation	0	2	1	0			55	no	no	Clear	1.95													
D Holman	26/10/2010	excavating in grids/bed turning/concrete crushing	SE	17.18	17.23	y	1	vegetation	0	3	1	0			53	no	no															
D Holman	26/10/2010	excavating in grids/bed turning/concrete crushing	S	17.12	17.17	y	1	vegetation	0	3	1	0			65	no	no															
D Holman	26/10/2010	excavating in grids/bed turning/concrete crushing	SW	17.06	17.11	y			0	4		0			76	no	no															
D Holman	26/10/2010	excavating in grids/bed turning/concrete crushing	W	17.00	17.05	y	1	vegetation	0	4	1	0			81	no	no															
D Holman	26/10/2010	excavating in grids/bed turning/concrete crushing	NW	17.48	17.53	y	3	vegetation	0	2	1	0			80	no	no															
D Holman	27/10/2010	bed turning/forming haul road with fines	N	10.47	10.52	y	1	vegetation	0	2	1	0	22.1	9.2	64	no	no	Clear	1.57					11	sw	15	sun	2	dry				
D Holman	27/10/2010	bed turning/forming haul road with fines	NE	10.41	10.46	y	1	vegetation	0	3	1	0	21.7	18.1	59	no	no	Clear														
D Holman	27/10/2010	bed turning/forming haul road with fines	NE1	10.35	10.40	y							108.2	57				Clear														
D Holman	27/10/2010	bed turning/forming haul road with fines	E	10.29	10.34	y	2	vegetation and odour control	0	2	3	0	73.2	65.3	56	no	no	Clear	1.96													
D Holman	27/10/2010	bed turning/forming haul road with fines	SE	10.23	10.28	y				3		0			54	no	no															
D Holman	27/10/2010	bed turning/forming haul road with fines	S	10.17	10.22	y	2	vegetation	0	3	1	0	13.4	8.9	62	no	no															
D Holman	27/10/2010	bed turning/forming haul road with fines	SW	10.11	10.16	y	1	vegetation	0	4	1	0			74	no	no															
D Holman	27/10/2010	bed turning/forming haul road with fines	W	10.05	10.10	y	2	vegetation	0	4	1	0	39.5	18	78	no	no															
D Holman	27/10/2010	bed turning/forming haul road with fines	NW	10.53	10.58	y	3	vegetation	0	2	1	0			78	No	No															
D Holman	27/10/2010	excavating in grids/bed turning/forming haul road	N	17.12	17.17	y	2	vegetation and exhaust fumes	0	2	3	0	129.4	105.9	63	no	no	clear	1.57					10	wsw	18	sun	1	dry				
D Holman	27/10/2010	excavating in grids/bed turning/forming haul road	NE	17.06	17.11	y	3	vegetation	0	2	1	0	80.4	61.7	59	no	no	clear														
D Holman	27/10/2010	excavating in grids/bed turning/forming haul road	NE1	17.00	17.05	y							90.6	86.1				clear														
D Holman	27/10/2010	excavating in grids/bed turning/forming haul road	E	16.54	16.59	y	2	compost/organic and soil/earth	0	2	1	0	168.9	75.8	54	no	no	clear	1.96													
D Holman	27/10/2010	excavating in grids/bed turning/forming haul road	SE	16.48	16.53	y	1	vegetation	0	3	1	0			56	no	no															
D Holman	27/10/2010	excavating in grids/bed turning/forming haul road	S	16.42	16.47	y	1	smoke	1	3	1	0	150.2	44.3	64	no	no															
D Holman	27/10/2010	excavating in grids/bed turning/forming haul road	SW	16.36	16.41	y	2	vegetation	0	4	1	0			75	no	no															
D Holman	27/10/2010	excavating in grids/bed turning/forming haul road	W	16.30	16.35	y	3	vegetation	0	4	1	0	211.8	117.9	79	no	no															
D Holman	27/10/2010	excavating in grids/bed turning/forming haul road	NW	17.18	17.23	y	2	vegetation	0	2	1	0			80	no	no															
D Holman	28/10/2010	excavating in grids/bed turning/concrete crushing	N	9.52	9.57	y	4	sweet wood chippings	1	2	1	0	277.5	101.8	68	no	no	clear	1.58					5	sw	12	cloudy	7	dry				
D Holman	28/10/2010	excavating in grids/bed turning/concrete crushing	NE	9.46	9.51	y	1	vegetation	0	2	1	0	184.9	133	62	no	no	clear														
D Holman	28/10/2010	excavating in grids/bed turning/concrete crushing	NE1	9.40	9.45	y							366.9	366.3				clear														
D Holman	28/10/2010	excavating in grids/bed turning/concrete crushing	E	9.34	9.39	y	3	sweet chemical and vegetation	0	2	1	0	193.1	127.1	53	no	no	clear	1.96													
D Holman	28/10/2010	excavating in grids/bed turning/concrete crushing	SE	9.28	9.33	y	1	odour control	1	3	1	0			51	no	no															
D Holman	28/10/2010	excavating in grids/bed turning/concrete crushing	S	9.22	9.27	y	3	vegetation	0	3	1	0	151.6	143.6	65	no	no															
D Holman	28/10/2010	excavating in grids/bed turning/concrete crushing	SW	9.16	9.21	y	1	vegetation	0	4	1	0			71	no	no															
D Holman	28/10/2010	excavating in grids/bed turning/concrete crushing	W	9.10	9.15	y	3	vegetation	0	4	1	0	144	97.2	77	no	no															
D Holman	28/10/2010	excavating in grids/bed turning/concrete crushing	NW	9.58	10.03	y	2	vegetation	0	2	1	0			78	no	no															
D Holman	28/10/2010	bed turning/forming beds	N	17.42	17.47	y	1	wood chippings	0	2	1	0	198.6	136.2	61	No	No	Clear	1.58					8	sw	14	cloudy	8	dry				
D Holman	28/10/2010	bed turning/forming beds	NE	17.36	17.41	y	2	vegetation	0	2	1	0	177.9	148.7	59	no	no	Clear														
D Holman	28/10/2010	bed turning/forming beds	NE1	17.30	17.35	y							241.2	213.3				Clear														
D Holman	28/10/2010	bed turning/forming beds	E	17.24	17.29	y	2	vegetation	0	2	1	0	201.6	187.9	54	no	no	Clear	1.96													
D Holman	28/10/2010	bed turning/forming beds	SE	17.18	17.23	y	3	odour control	1	3	1	0			52	no	no															
D Holman	28/10/2010	bed turning/forming beds	S	17.12	17.17	y	2	vegetation	0	3	1	0	118.6	68.7	64	No	No															
D Holman	28/10/2010	bed turning/forming beds	SW	17.06	17.11	y	1	vegetation	0	4	1	0			73	no	No															
D Holman	28/10/2010	bed turning/forming beds	W	17.00	17.05	y	2	vegetation	0	4	1	0	153.4	138.2	79	No	No															
D Holman	28/10/2010	bed turning/forming beds	NW	17.48	17.53	y	2	vegetation	0	2	1	0			80	no	No															
D Holman	29/10/2010	bed turning/forming beds	N	9.42	9.47	y	2	sweet chemical and odour control	0	2	5	0	136.8	42.1	83	no	no	Clear	1.57					10	sse	11	cloudy	8	dry				
D Holman	29/10/2010	bed turning/forming beds	NE	9.36	9.41	y	3	vegetation and soil/earth	0	2	5	0	132.5	118.1	58	no	no	Clear														
D Holman	29/10/2010	bed turning/forming beds	NE1	9.30	9.35	y							234.2	131.9				Clear														
D Holman	29/10/2010	bed turning/forming beds	E	9.24	9.29	y	2	vegetation	0	2	1	0	197.1	104.9	54	no	no	Clear	1.95													
D Holman	29/10/2010	bed turning/forming beds	SE	9.18	9.23	y	2	vegetation	0	3	1	0			52	no	no															
D Holman	29/10/2010	bed turning/forming beds	S	9.12	9.17	y	3	vegetation	0	3	1	0	154.2	55.9	63	no	no															
D Holman	29/10/2010	bed turning/forming beds	SW	9.06	9.11	y	1	vegetation	0	4	1	0			77	no	no															
D Holman	29/10/2010	bed turning/forming beds	W	9.00	9.05	y	3	vegetation	0	4	1	0	162.9	98.6	80	no	no															
D Holman	29/10/2010	bed turning/forming beds	NW	9.48	9.53	y	3	vegetation	0	2	1	0			79	no	no															
D Holman	29/10/2010	bed turning/moving beds	N	17.52	17.57	y	1	vegetation	0	2	1	0	74.5	72.2	54	no	No	Clear	1.57					8	s	13	cloudy	8	dry				
D Holman	29/10/2010	bed turning/moving beds	NE	17.46	17.51	y	3	soil/earth and sweet chemical	0	2	5	0	152.4	74	66	no	No	Clear														
D Holman	29/10/2010	bed turning/moving beds	NE1	17.40	17.45	y							253.8	97.9				Clear														
D Holman	29/10/2010	bed turning/moving beds	E	17.34	17.39	y	1	vegetation	0	2	1	0	189.5	104.8	58	No	No	Clear	1.95													
D Holman	29/10/2010	bed turning/moving beds	SE	17.28	17.33	y	1	vegetation	0	3	1	0			54	no	no															
D Holman	29/10/2010	bed turning/moving beds	S	17.22	17.27	y	1	vegetation	0	3	1	0	93.7	73.9	62	no	No															
D Holman	29/10/2010	bed turning/moving beds	SW	17.16	17.21	y	1	vegetation	0	4	1	0			73	no	No															
D Holman	29/10/2010	bed turning/moving beds	W	17.10	17.15	y	3	odour control	1	4	1	0	49.5	11.4	79	no	No															
D Holman	29/10/2010	bed turning/moving beds	NW	17.58	18.03	y	1	vegetation	0	2	1	0			78	no	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	**GCMS4540**
CUSTOMER	**Vertase FLI Ltd**
GRADKO LAB REFERENCE	**GMSE 2174-2184**
DATE SAMPLES RECEIVED	**09.11.10**
DESPATCH REF.NUMBER	**SOR004605**
PO No.	**907BRI/5302**
BOOKING IN REF.	**D 5844**

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

Analysis has been carried out in accordance with in-house method GLM 13

Tube Number	**GRA 05008**
Exposure Time(mins)	**40291**
Sample ID	**North East**

Top 10 VOC'S

Compounds	**ng on tube**	**ppb in air***
Tetrachloroethylene	249.17	3.09
Toluene	202.84	2.52
Trichloroethylene	89.66	1.11
m/p Xylene	44.34	0.55
Naphthalene, 2-methyl-	24.29	0.30
Benzene, 1,2,3-trichloro-4-methyl-	21.40	0.27
Naphthalene	19.87	0.25
Naphthalene, 1-methyl-	15.24	0.19
o-Xylene	15.15	0.19
Benzene, 1,2-dichloro-	11.86	0.15

Tube Number	**GRA 00511**
Exposure Time(mins)	**40320**
Sample ID	**East**

Top 10 VOC'S

Compounds	**ng on tube**	**ppb in air***
Tetrachloroethylene	220.55	2.73
Toluene	136.34	1.69

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REPORT OFFICIALLY CHECKED

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

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UKAS TESTING 2187

LABORATORY ANALYSIS REPORT

Trichloroethylene	50.37	0.62
m/p Xylene	24.80	0.31
Benzene, 1,2,3-trichloro-4-methyl-	22.84	0.28
o-Xylene	11.97	0.15
.alpha.-Pinene	10.98	0.14
Naphthalene, 2-methyl-	10.32	0.13
Naphthalene	8.37	0.10
Benzene	7.78	0.10

Tube Number **GRA 03438**
Exposure Time(mins) **40320**
Sample ID **South East**

Top 10 VOC'S

Compounds	**ng on tube**	**ppb in air***
Tetrachloroethylene	192.48	2.39
Toluene	105.12	1.30
Trichloroethylene	52.42	0.65
m/p Xylene	44.38	0.55
Naphthalene	17.11	0.21
Benzene, 1,2,3-trichloro-4-methyl-	16.07	0.20
o-Xylene	14.68	0.18
Naphthalene, 2-methyl-	14.32	0.18
2-Propanol, 1-methoxy-	14.00	0.17
Ethylbenzene	11.09	0.14

Tube Number **GRA 03330**
Exposure Time(mins) **40335**
Sample ID **South**

Top 10 VOC'S

Compounds	**ng on tube**	**ppb in air***
Benzene, 1-methyl-2-(1-methylethyl)-	116.00	1.44
Toluene	111.13	1.38
Tetrachloroethylene	99.76	1.24
m/p Xylene	78.89	0.98
o-Xylene	34.87	0.43
Undecane	34.10	0.42

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

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LABORATORY ANALYSIS REPORT

Ethylbenzene	29.19	0.36
Heptane, 2,2,4,6,6-pentamethyl-	29.05	0.36
Decane	22.94	0.28
Benzene, 1,2,4-trimethyl-	19.37	0.24

Tube Number	**GRA 04753**
Exposure Time(mins)	**40335**
Sample ID	**South West**

Top 10 VOC'S

Compounds	**ng on tube**	**ppb in air***
Tetrachloroethylene	1382	17
Toluene	798.57	9.90
m/p Xylene	63.55	0.79
Bis(2-chloroethyl) ether	55.93	0.69
Benzene, 1,2,3-trichloro-4-methyl-	36.87	0.46
Phenol, 2,4-dichloro-6-methyl-	25.35	0.31
o-Xylene	22.92	0.28
Naphthalene	20.24	0.25
Benzene, 1-chloro-2-methyl-	20.19	0.25
Benzene, 1,2,4-trichloro-3-methyl-	19.43	0.24

Tube Number	**GRA 03756**
Exposure Time(mins)	**40340**
Sample ID	**West**

Top 10 VOC'S

Compounds	**ng on tube**	**ppb in air***
Tetrachloroethylene	172.65	2.14
Toluene	94.75	1.17
m/p Xylene	18.49	0.23
Benzene, 1,2,3-trichloro-4-methyl-	14.63	0.18
Heptane, 2,2,4,6,6-pentamethyl-	13.62	0.17
Benzene	11.13	0.14
o-Xylene	11.09	0.14
Benzene, 1,2,4-trimethyl-	8.82	0.11
Trichloroethylene	5.74	0.07
Ethylbenzene	5.08	0.06

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REPORT OFFICIALLY CHECKED

Gradko International Ltd
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Signed.....
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UKAS TESTING 2187

LABORATORY ANALYSIS REPORT

Tube Number	**GRA 04408**
Exposure Time(mins)	**40330**
Sample ID	**North West**

Top 10 VOC'S

Compounds	**ng on tube**	**ppb in air***
Tetrachloroethylene	160.12	1.99
Toluene	150.25	1.86
m/p Xylene	54.71	0.68
Trichloroethylene	40.68	0.50
o-Xylene	19.25	0.24
Ethylbenzene	19.15	0.24
Benzene, 1,2,3-trichloro-4-methyl-	14.65	0.18
Benzene	11.42	0.14
Naphthalene, 2-methyl-	11.40	0.14
Benzene, 1,2,4-trimethyl-	10.03	0.12

Tube Number	**GRA 05323**
Exposure Time(mins)	**40315**
Sample ID	**North**

Top 10 VOC'S

Compounds	**ng on tube**	**ppb in air***
Tetrachloroethylene	136.07	1.69
Toluene	117.71	1.46
Naphthalene	56.88	0.71
m/p Xylene	37.41	0.46
Trichloroethylene	20.43	0.25
Ethylbenzene	18.78	0.23
Naphthalene, 2-methyl-	14.46	0.18
o-Xylene	12.72	0.16
Benzene	11.39	0.14
Naphthalene, 1-methyl-	10.52	0.13

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 these results
Signed.....
L. Gates, Laboratory Supervisor

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

UKAS TESTING 2187

LABORATORY ANALYSIS REPORT

Tube Number	**GRA 05194**
Exposure Time(mins)	**40310**
Sample ID	**WWTW**

Top 10 VOC'S

Compounds	**ng on tube**	**ppb in air***
Tetrachloroethylene	16.62	0.21
Toluene	15.19	0.19
Trichloroethylene	13.82	0.17
Phenol	11.18	0.14
Benzene	9.13	0.11
m/p Xylene	8.03	0.10
o-Xylene	5.46	0.07
Benzene, 1,2,4-trimethyl-	3.15	0.04
Tetradecane	2.84	0.04
Ethylbenzene	2.74	0.03

Tube Number	**GRA 03941**
Exposure Time(mins)	**40300**
Sample ID	**Church Road**

Top 10 VOC'S

Compounds	**ng on tube**	**ppb in air***
Naphthalene	173.21	2.15
Toluene	29.91	0.37
Tetrachloroethylene	16.39	0.20
Naphthalene, 2-methyl-	16.06	0.20
m/p Xylene	14.22	0.18
o-Xylene	12.41	0.15
Benzene	11.64	0.14
Naphthalene, 1-methyl-	9.99	0.12
.alpha.-Pinene	8.00	0.10
Benzene, 1,2,4-trimethyl-	6.11	0.08

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

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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 01250**
Exposure Time(mins)	**40318**
Sample ID	**Queen's Close**

Top 10 VOC'S

Compounds	**ng on tube**	**ppb in air***
Heptane, 2,2,4,6,6-pentamethyl-	33.78	0.42
Toluene	21.92	0.27
m/p Xylene	19.70	0.24
o-Xylene	15.56	0.19
Benzene	12.98	0.16
Tetrachloroethylene	12.35	0.15
Decane	11.93	0.15
Undecane	9.69	0.12
Dodecane	9.23	0.11
Benzene, 1,2,4-trimethyl-	9.13	0.11

Comments: Results greater than 1000ng are outside our UKAS accredited calibration range. Semi-quantitative results for ng on tube are calculated using toluene standards.

		Date of Analysis	**23.11.10**
Analysts Name	**M.Angelova**	**Date of Report**	**24.11.10**

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 these results
Signed.....
L. Gates, Laboratory Supervisor

Appendix D

Directional Dust Monitoring

Chemtest

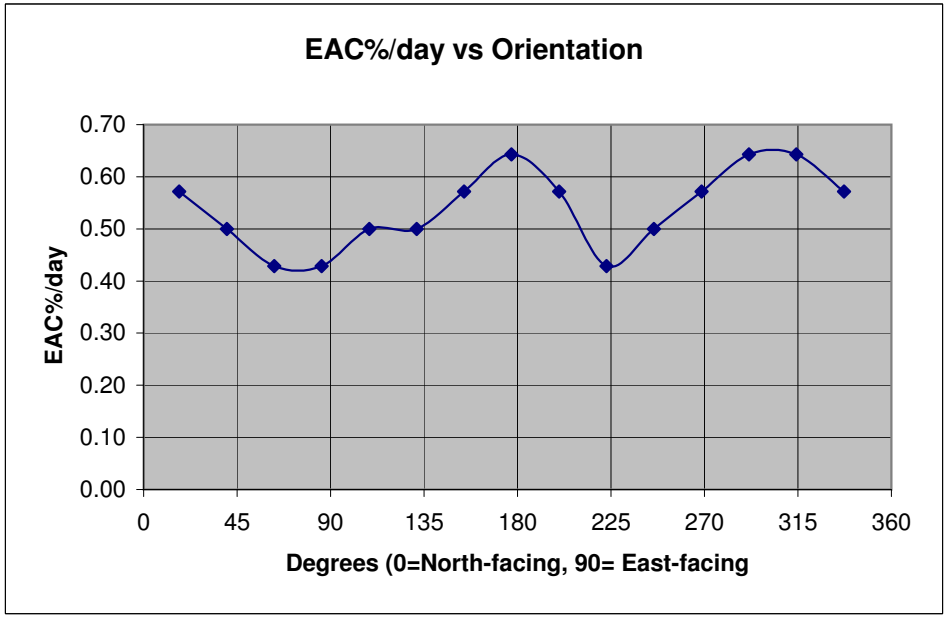
Sticky Pad Data

Gauge Number - North location 907BRI

Sticky Pad Data

Date On	17/09/2010	Date Off	01/10/2010	Days = 14
Clean =	90			

X Axis mm	Meter	Angle deg	EAC%/day
20	82	337	0.57
40	81	314	0.64
60	81	291	0.64
80	82	269	0.57
100	83	246	0.50
120	84	223	0.43
140	82	200	0.57
160	81	177	0.64
180	82	154	0.57
200	83	131	0.50
220	83	109	0.50
240	84	86	0.43
260	84	63	0.43
280	83	40	0.50
300	82	17	0.57



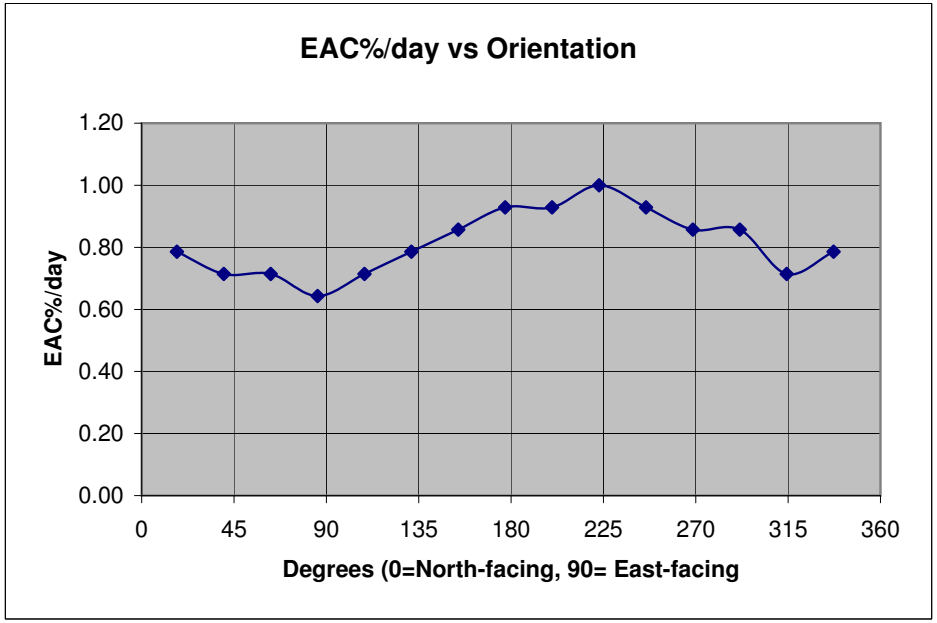
Note: Cells coloured yellow are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 40mm intervals along the sticky pad.

Chemtest **Sticky Pad Data**

Gauge Number - NE1 location 907BRI

Sticky Pad Data

Date On	17/09/2010	Date Off	01/10/2010	Days = 14
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	79	337	0.79	
40	80	314	0.71	
60	78	291	0.86	
80	78	269	0.86	
100	77	246	0.93	
120	76	223	1.00	
140	77	200	0.93	
160	77	177	0.93	
180	78	154	0.86	
200	79	131	0.79	
220	80	109	0.71	
240	81	86	0.64	
260	80	63	0.71	
280	80	40	0.71	
300	79	17	0.79	



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.

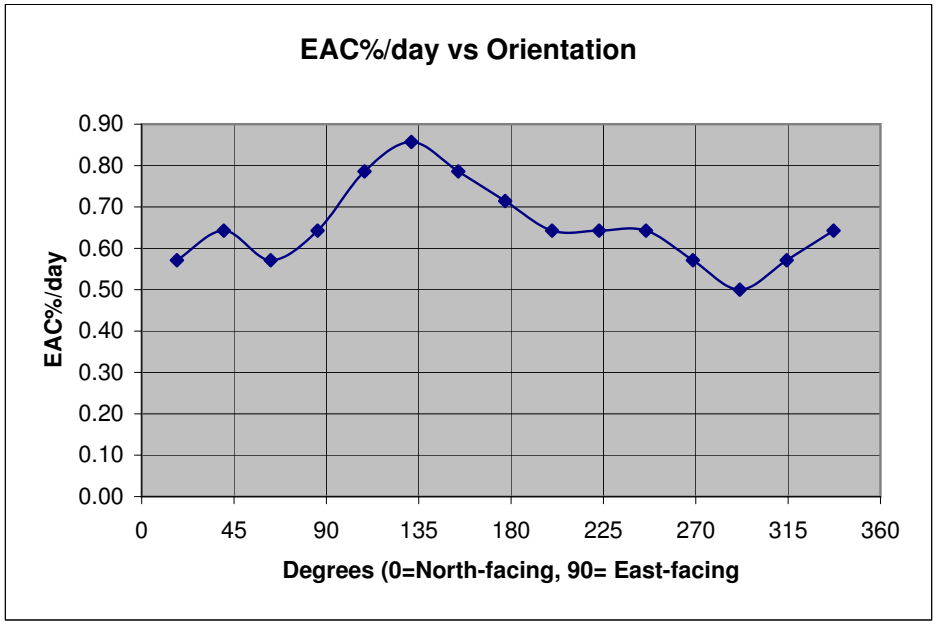
Chemtest **Sticky Pad Data**

Gauge Number - NE2 location 907BRI

Sticky Pad Data

Date On	17/09/2010	Date Off	01/10/2010	Days = 14
Clean =	90			

X Axis mm	Meter	Angle deg	EAC%/day
20	81	337	0.64
40	82	314	0.57
60	83	291	0.50
80	82	269	0.57
100	81	246	0.64
120	81	223	0.64
140	81	200	0.64
160	80	177	0.71
180	79	154	0.79
200	78	131	0.86
220	79	109	0.79
240	81	86	0.64
260	82	63	0.57
280	81	40	0.64
300	82	17	0.57



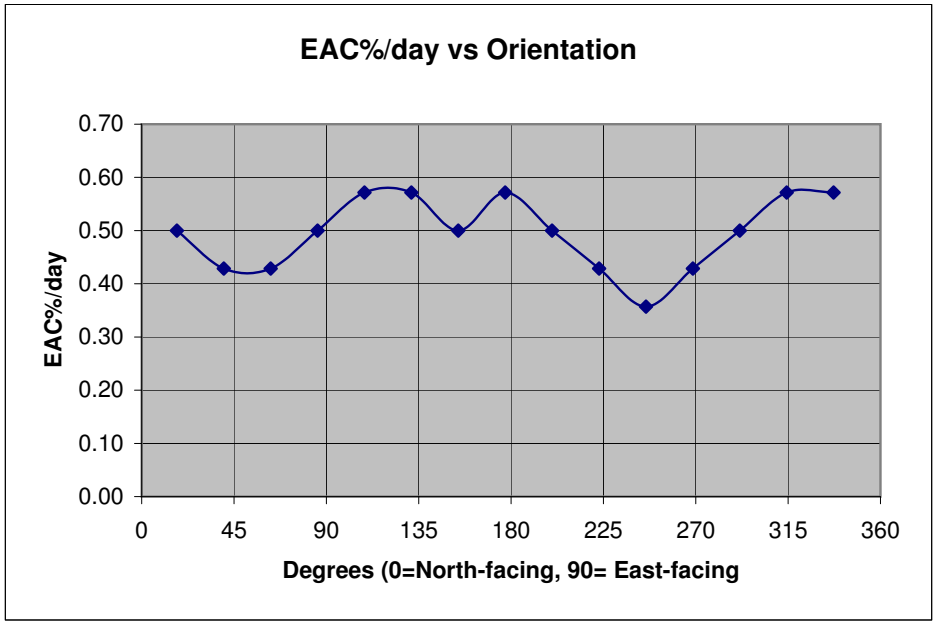
Note: Cells coloured yellow are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 40mm intervals along the sticky pad.

Chemtest **Sticky Pad Data**

Gauge Number - South location 907BRI

Sticky Pad Data

Date On	17/09/2010	Date Off	01/10/2010	Days = 14
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	82	337	0.57	
40	82	314	0.57	
60	83	291	0.50	
80	84	269	0.43	
100	85	246	0.36	
120	84	223	0.43	
140	83	200	0.50	
160	82	177	0.57	
180	83	154	0.50	
200	82	131	0.57	
220	82	109	0.57	
240	83	86	0.50	
260	84	63	0.43	
280	84	40	0.43	
300	83	17	0.50	



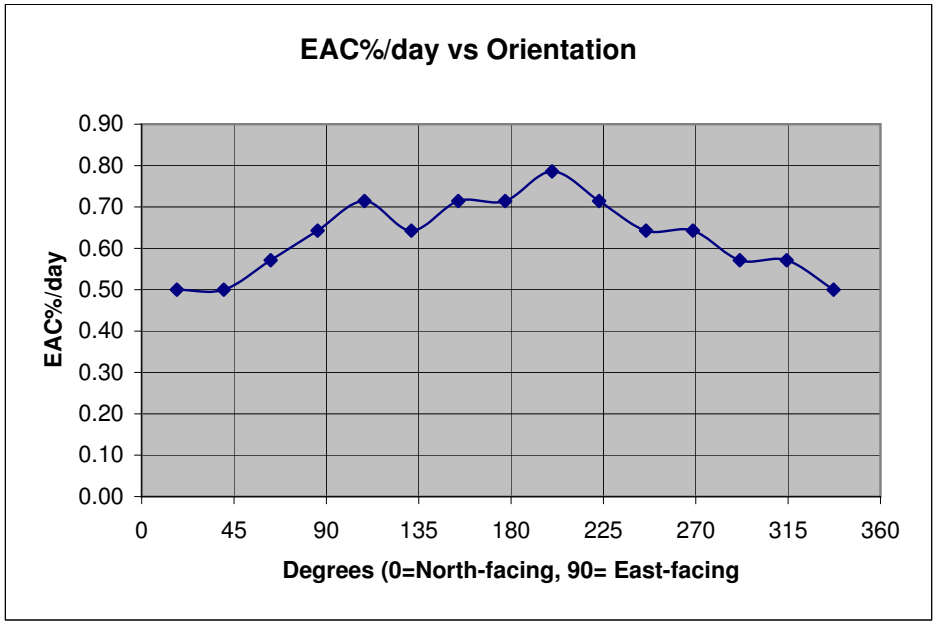
Note: Cells coloured yellow are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 40mm intervals along the sticky pad.

Chemtest **Sticky Pad Data**

Gauge Number - West location 907BRI

Sticky Pad Data

Date On	17/09/2010	Date Off	01/10/2010	Days = 14
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	83	337	0.50	
40	82	314	0.57	
60	82	291	0.57	
80	81	269	0.64	
100	81	246	0.64	
120	80	223	0.71	
140	79	200	0.79	
160	80	177	0.71	
180	80	154	0.71	
200	81	131	0.64	
220	80	109	0.71	
240	81	86	0.64	
260	82	63	0.57	
280	83	40	0.50	
300	83	17	0.50	



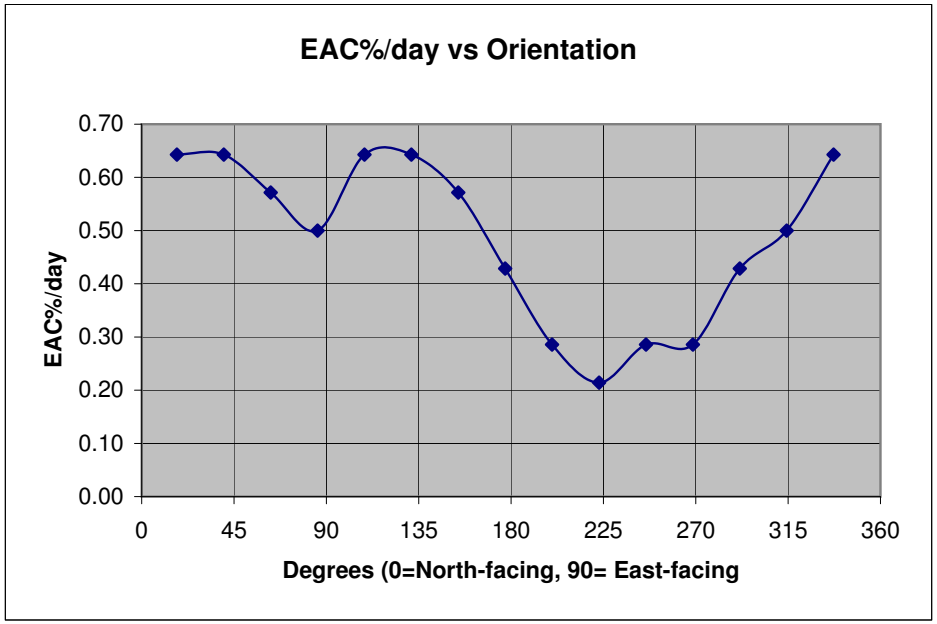
Note: Cells coloured yellow are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 40mm intervals along the sticky pad.

Chemtest **Sticky Pad Data**

Gauge Number - East location 907BRI

Sticky Pad Data

Date On	17/09/2010	Date Off	01/10/2010	Days = 14
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	81	337	0.64	
40	83	314	0.50	
60	84	291	0.43	
80	86	269	0.29	
100	86	246	0.29	
120	87	223	0.21	
140	86	200	0.29	
160	84	177	0.43	
180	82	154	0.57	
200	81	131	0.64	
220	81	109	0.64	
240	83	86	0.50	
260	82	63	0.57	
280	81	40	0.64	
300	81	17	0.64	



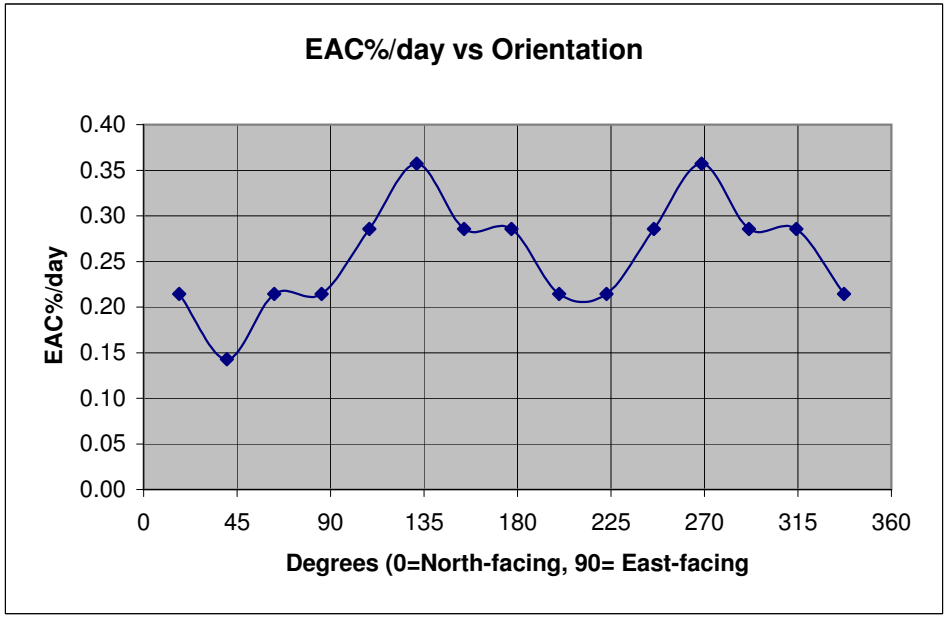
Note: Cells coloured yellow are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 40mm intervals along the sticky pad.

Chemtest **Sticky Pad Data**

Gauge Number - North location 907BRI

Sticky Pad Data

Date On	01/10/2010	Date Off	15/10/2010	Days = 14
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	87	337	0.21	
40	86	314	0.29	
60	86	291	0.29	
80	85	269	0.36	
100	86	246	0.29	
120	87	223	0.21	
140	87	200	0.21	
160	86	177	0.29	
180	86	154	0.29	
200	85	131	0.36	
220	86	109	0.29	
240	87	86	0.21	
260	87	63	0.21	
280	88	40	0.14	
300	87	17	0.21	



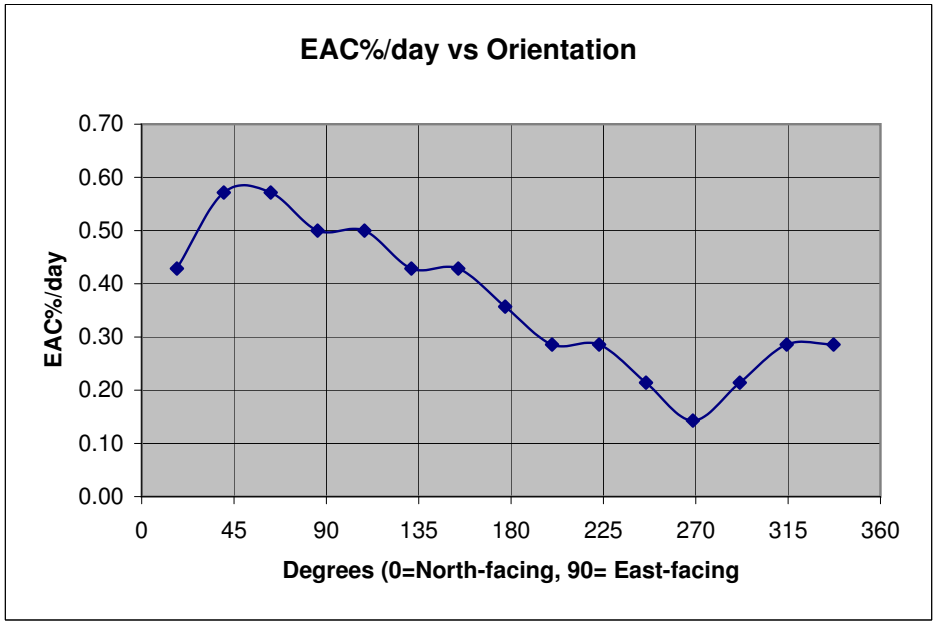
Note: Cells coloured yellow are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 40mm intervals along the sticky pad.

Chemtest **Sticky Pad Data**

Gauge Number - NE1 location 907BRI

Sticky Pad Data

Date On	01/10/2010	Date Off	15/10/2010	Days = 14
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	86	337	0.29	
40	86	314	0.29	
60	87	291	0.21	
80	88	269	0.14	
100	87	246	0.21	
120	86	223	0.29	
140	86	200	0.29	
160	85	177	0.36	
180	84	154	0.43	
200	84	131	0.43	
220	83	109	0.50	
240	83	86	0.50	
260	82	63	0.57	
280	82	40	0.57	
300	84	17	0.43	



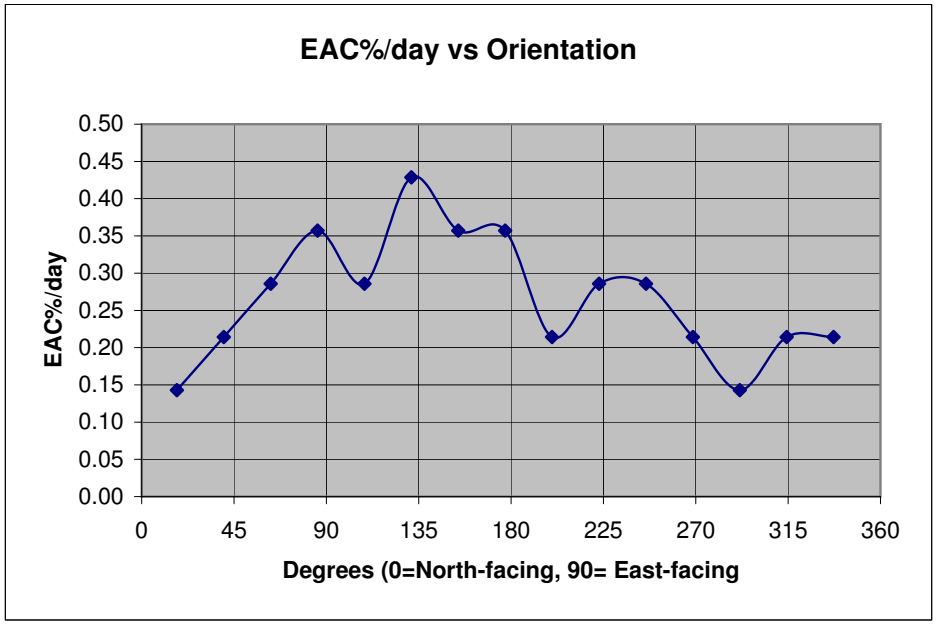
Note: Cells coloured yellow are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 40mm intervals along the sticky pad.

Chemtest **Sticky Pad Data**

Gauge Number - NE2 location 907BRI

Sticky Pad Data

Date On	01/10/2010	Date Off	15/10/2010	Days = 14
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	87	337	0.21	
40	87	314	0.21	
60	88	291	0.14	
80	87	269	0.21	
100	86	246	0.29	
120	86	223	0.29	
140	87	200	0.21	
160	85	177	0.36	
180	85	154	0.36	
200	84	131	0.43	
220	86	109	0.29	
240	85	86	0.36	
260	86	63	0.29	
280	87	40	0.21	
300	88	17	0.14	



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

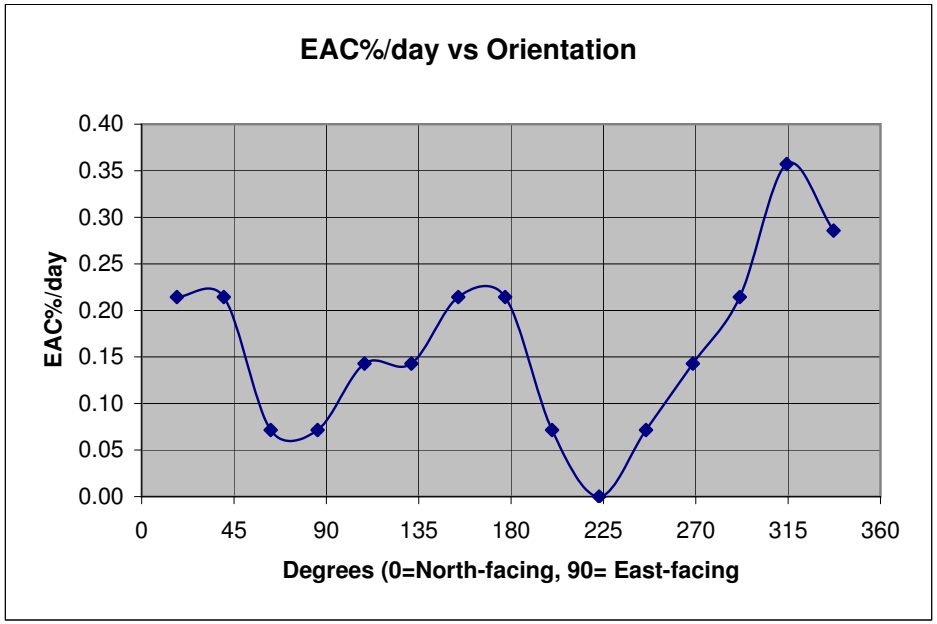
Sticky Pad Data

Gauge Number - South location 907BRI

Sticky Pad Data

Date On	01/10/2010	Date Off	15/10/2010	Days = 14
Clean =	90			

X Axis mm	Meter	Angle deg	EAC%/day
20	86	337	0.29
40	85	314	0.36
60	87	291	0.21
80	88	269	0.14
100	89	246	0.07
120	90	223	0.00
140	89	200	0.07
160	87	177	0.21
180	87	154	0.21
200	88	131	0.14
220	88	109	0.14
240	89	86	0.07
260	89	63	0.07
280	87	40	0.21
300	87	17	0.21
			6.43



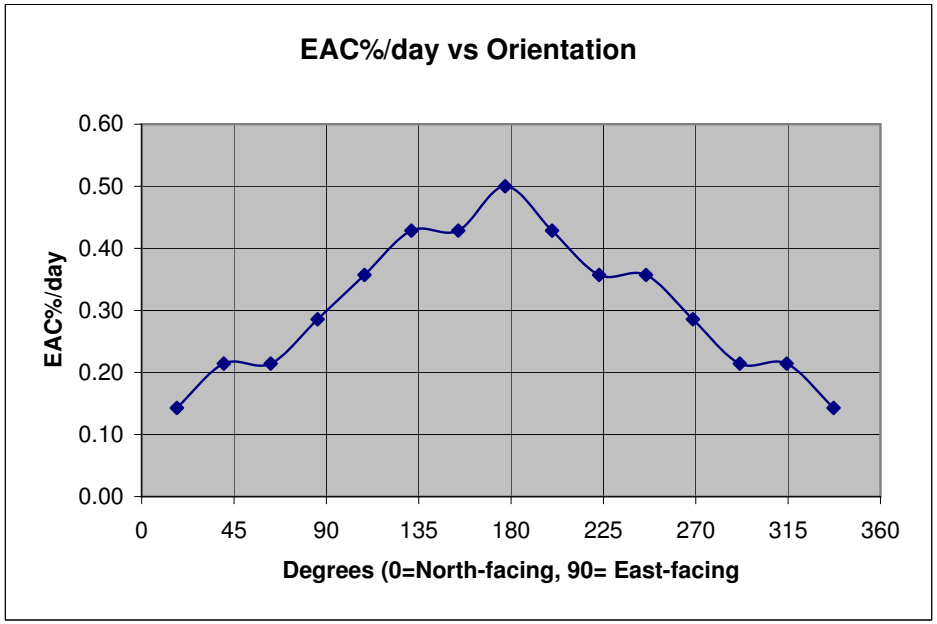
Note: Cells coloured yellow are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 40mm intervals along the sticky pad.

Chemtest **Sticky Pad Data**

Gauge Number - West location 907BRI

Sticky Pad Data

Date On	01/10/2010	Date Off	15/10/2010	Days = 14
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	88	337	0.14	
40	87	314	0.21	
60	87	291	0.21	
80	86	269	0.29	
100	85	246	0.36	
120	85	223	0.36	
140	84	200	0.43	
160	83	177	0.50	
180	84	154	0.43	
200	84	131	0.43	
220	85	109	0.36	
240	86	86	0.29	
260	87	63	0.21	
280	87	40	0.21	
300	88	17	0.14	



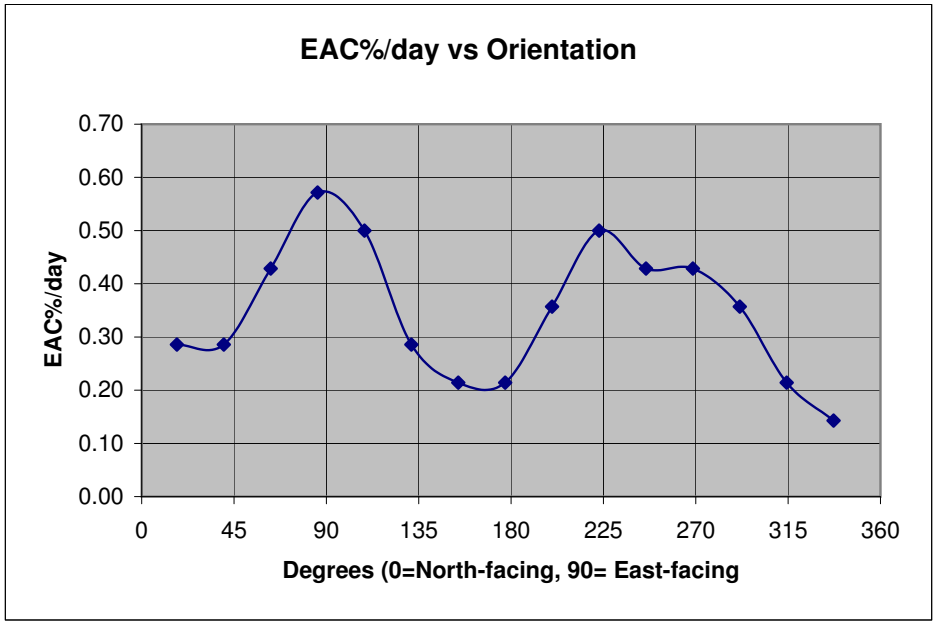
Note: Cells coloured yellow are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 40mm intervals along the sticky pad.

Chemtest **Sticky Pad Data**

Gauge Number - East location 907BRI

Sticky Pad Data

Date On	01/10/2010	Date Off	15/10/2010	Days = 14
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	88	337	0.14	
40	87	314	0.21	
60	85	291	0.36	
80	84	269	0.43	
100	84	246	0.43	
120	83	223	0.50	
140	85	200	0.36	
160	87	177	0.21	
180	87	154	0.21	
200	86	131	0.29	
220	83	109	0.50	
240	82	86	0.57	
260	84	63	0.43	
280	86	40	0.29	
300	86	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.

Appendix E
Groundwater Level Data

Date	BH6/06	S3/4	BH4	BH10B/06	BH9	S1/8	BH11*	S2/6	BHB1	W1 (n)	W2	W3 (s)	Riddy 1	Riddy 2	Riddy 3	Riddy 4
04/10/2010	10.13	10.59	10.444	10.391	10.449	silted up	9.653	10.403	9.82	10.23	10.18	10.23	9.199	9.304	9.550	9.649
05/10/2010	10.13	10.59	10.444	10.401	10.459	silted up	9.663	10.403	9.81	10.24	10.19	10.25	9.199	9.304	9.550	9.649
06/10/2010	10.14	10.59	10.454	10.271	10.449	silted up	9.653	10.393	9.83	10.23	10.21	10.28	9.199	9.304	9.550	9.649
07/10/2010	10.18	10.6	10.464	10.331	10.469	10.604	9.663	10.443	9.82	10.26	10.23	10.29	9.199	9.304	9.550	9.639
08/10/2010	10.21	10.59	10.464	10.371	10.479	10.594	9.673	10.473	9.83	10.28	10.26	10.28	9.209	9.304	9.540	9.649
11/10/2010	10.24	10.6	10.484	10.451	10.489	10.604	9.673	10.523	9.83	10.31	10.27	10.29	9.209	9.304	9.550	9.649
12/10/2010	10.25	10.6	10.484	10.491	10.499	10.614	9.683	10.543	9.83	10.32	10.28	10.3	9.219	9.304	9.550	9.649
13/10/2010	10.22	10.6	10.434	10.481	10.489	10.604	9.703	10.533	9.81	10.29	10.26	10.27	9.219	9.294	9.550	9.649
14/10/2010	10.19	10.61	10.424	10.481	10.499	10.604	9.713	10.503	9.8	10.28	10.25	10.26	9.219	9.304	9.550	9.649
15/10/2010	10.16	10.61	10.394	10.471	10.499	10.604	9.723	10.493	9.78	10.26	10.23	10.25	9.209	9.304	9.540	9.649
18/10/2010	10.12	10.6	10.314	10.441	10.509	10.604	9.753	11.463	9.75	10.23	10.19	10.21	9.209	9.304	9.550	9.649
19/10/2010	10.08	10.59	10.284	10.431	10.499	10.604	9.773	10.463	9.73	10.23	10.17	10.2	9.219	9.294	9.550	9.649
20/10/2010	10.04	10.58	10.254	10.431	10.509	10.614	9.773	10.443	9.68	10.21	10.16	10.18	9.219	9.294	9.540	9.659
21/10/2010	10.05	10.58	10.234	10.441	10.509	10.614	9.783	10.423	9.66	10.2	10.16	10.17	9.219	9.304	9.550	9.649
22/10/2010	10.04	10.59	10.224	10.431	10.499	10.614	9.783	10.413	9.65	10.21	10.15	10.16	9.209	9.304	9.550	9.649
25/10/2010	10.04	10.6	10.224	10.431	10.509	10.614	9.763	10.423	9.64	10.23	10.16	10.16	9.219	9.304	9.550	9.649
26/10/2010	10.08	10.62	10.244	10.461	10.519	10.624	9.773	10.443	9.67	10.24	10.18	10.17	9.219	9.304	9.550	9.659
27/10/2010	10.07	10.61	10.254	10.451	10.509	10.624	9.773	10.433	9.66	10.23	10.18	10.17	9.219	9.304	9.550	9.649
28/10/2010	10.06	10.61	10.254	10.451	10.499	10.614	9.783	10.423	9.66	10.23	10.17	10.16	9.209	9.304	9.550	9.649
29/10/2010	10.06	10.62	10.244	10.441	10.499	10.614	9.783	10.423	9.65	10.22	10.17	10.15	9.219	9.304	9.550	9.659

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: 217900-1

Date of Report: 16-Nov-2010

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

Customer Contact: The Project Management

Customer Job Reference: 907 BRI
Date Job Received at SAL: 03-Nov-2010
Date Analysis Started: 03-Nov-2010
Date Analysis Completed: 16-Nov-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 :
Amelia McVennon
Project Manager

Issued by :
Amelia McVennon
Project Manager

SAL Reference: 217900
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton Suite

				SAL Reference	**217900 001**	**217900 002**	**217900 003**	**217900 004**	**217900 005**	**217900 006**	**217900 007**
				Customer Sample Reference	**S2/6**	**BH6/06**	**BH10B/06**	**BH8/06**	**BH4/06**	**BH4**	**BHB1**
				Date Sampled	**28-OCT-2010**	**28-OCT-2010**	**28-OCT-2010**	**28-OCT-2010**	**28-OCT-2010**	**29-OCT-2010**	**29-OCT-2010**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**							
Electrical Conductivity	T7	AR	10	µS/cm	**1800**	**880**	**1300**	**4300**	**510**	**1900**	**2500**
pH	T7	AR			**7.6**	**7.1**	**7.3**	**7.4**	**7.6**	**6.8**	**6.8**

SAL Reference: 217900
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton Suite

				SAL Reference	**217900 008**	**217900 009**	**217900 010**	**217900 011**	**217900 012**	**217900 013**	**217900 014**
				Customer Sample Reference	**S3/4**	**BH9**	**BH11**	**Riddy Upstream**	**Riddy Downstream**	**Cam Upstream**	**Cam Downstream**
				Date Sampled	**29-OCT-2010**	**29-OCT-2010**	**29-OCT-2010**	**29-OCT-2010**	**29-OCT-2010**	**29-OCT-2010**	**29-OCT-2010**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**							
Electrical Conductivity	T7	AR	10	µS/cm	**3900**	**2600**	**570**	**870**	**860**	**850**	**870**
pH	T7	AR			**6.9**	**7.3**	**7.4**	**7.8**	**7.9**	**7.9**	**8.0**

SAL Reference: 217900
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton OP/ON Suite

			SAL Reference	**217900 001**	**217900 002**	**217900 003**	**217900 004**	**217900 005**	**217900 006**	**217900 007**
			Customer Sample Reference	**S2/6**	**BH6/06**	**BH10B/06**	**BH8/06**	**BH4/06**	**BH4**	**BHB1**
			Date Sampled	**28-OCT-2010**	**28-OCT-2010**	**28-OCT-2010**	**28-OCT-2010**	**28-OCT-2010**	**29-OCT-2010**	**29-OCT-2010**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**							
Dimefox	T16	AR	0.1	µg/l	<0.1	(9) <1.0	(9) <1.0	(9) <1.0	(9) <1.0	(9) <1.0	(9) <1.0
Ethofumesate	T16	AR	0.1	µg/l	**0.2**	(9) <1.0	**32**	(9) <1.0	**16**	**48**	**74**
Hempa	T16	AR	0.1	µg/l	<0.1	(9) <1.0	(9) <1.0	(9) <1.0	(9) <1.0	**10**	**20**
Schradan	T16	AR	0.1	µg/l	<0.1	(9) <1.0	(9) <1.0	(9) <1.0	(9) <1.0	(9) <1.0	(9) <1.0
Simazine	T16	AR	0.01	µg/l	**0.08**	(9) <1.0	**190**	**210**	**41**	(9) <1.0	(9) <1.0

SAL Reference: 217900
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton OP/ON Suite

			SAL Reference	**217900 008**	**217900 009**	**217900 010**	**217900 011**	**217900 012**	**217900 013**	**217900 014**
			Customer Sample Reference	**S3/4**	**BH9**	**BH11**	**Riddy Upstream**	**Riddy Downstream**	**Cam Upstream**	**Cam Downstream**
			Date Sampled	**29-OCT-2010**	**29-OCT-2010**	**29-OCT-2010**	**29-OCT-2010**	**29-OCT-2010**	**29-OCT-2010**	**29-OCT-2010**
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	**21**	**1.5**	**0.3**	<0.1	**0.8**	<0.1	<0.1
Hempa	T16	AR	0.1	µg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Schradan	T16	AR	0.1	µg/l	**0.3**	**0.7**	<0.1	<0.1	**0.1**	<0.1	<0.1
Simazine	T16	AR	0.01	µg/l	**0.05**	**0.55**	**0.04**	<0.01	<0.01	<0.01	<0.01

SAL Reference: 217900
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton Phenoxy Acid Herbs Suite

					SAL Reference	**217900 001**	**217900 002**	**217900 003**	**217900 004**	**217900 005**	**217900 006**	**217900 007**
					Customer Sample Reference	**S2/6**	**BH6/06**	**BH10B/06**	**BH8/06**	**BH4/06**	**BH4**	**BHB1**
					Date Sampled	**28-OCT-2010**	**28-OCT-2010**	**28-OCT-2010**	**28-OCT-2010**	**28-OCT-2010**	**29-OCT-2010**	**29-OCT-2010**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**								
Dicamba	T16	AR	0.1	µg/l		**160**	**0.7**	**22**	**6.5**	**1.1**	**6.9**	**10**
Dichlorprop	T16	AR	0.1	µg/l		**1.7**	<0.1	**3.2**	<0.1	**2.5**	**17**	**34**
Phenoxy Acetic acid herbicide: MCPA	T16	AR	0.1	µg/l		**48**	<0.1	**37**	<0.1	**55**	<0.1	<0.1
Mecoprop	T16	AR	0.1	µg/l		**4.1**	<0.1	**56**	<0.1	**34**	**200**	**420**

SAL Reference: 217900
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton Phenoxy Acid Herbs Suite

					SAL Reference	**217900 008**	**217900 009**	**217900 010**	**217900 011**	**217900 012**	**217900 013**	**217900 014**
					Customer Sample Reference	**S3/4**	**BH9**	**BH11**	**Riddy Upstream**	**Riddy Downstream**	**Cam Upstream**	**Cam Downstream**
					Date Sampled	**29-OCT-2010**	**29-OCT-2010**	**29-OCT-2010**	**29-OCT-2010**	**29-OCT-2010**	**29-OCT-2010**	**29-OCT-2010**
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	<0.1
Dichlorprop	T16	AR	0.1	µg/l		**12**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenoxy Acetic acid herbicide: MCPA	T16	AR	0.1	µg/l		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mecoprop	T16	AR	0.1	µg/l		**100**	**1.6**	**1.1**	<0.1	**0.4**	<0.1	**0.2**

SAL Reference: 217900
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton SVOC Suite

					SAL Reference	**217900 001**	**217900 002**	**217900 003**	**217900 004**	**217900 005**	**217900 006**	**217900 007**
					Customer Sample Reference	**S2/6**	**BH6/06**	**BH10B/06**	**BH8/06**	**BH4/06**	**BH4**	**BHB1**
					Date Sampled	**28-OCT-2010**	**28-OCT-2010**	**28-OCT-2010**	**28-OCT-2010**	**28-OCT-2010**	**29-OCT-2010**	**29-OCT-2010**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**								
2,4,6-Trichlorophenol	T16	AR	10	µg/l		**230**	<10	**50**	**20**	<10	<10	**20**
2-Methyl-4,6-dinitrophenol	T16	AR	10	µg/l		**470**	<10	**400**	<10	<10	<10	<10
4-Chloro-2-methylphenol	T16	AR	10	µg/l		<10	<10	<10	<10	<10	**1400**	**2600**
Bis (2-chloroethyl) ether	T16	AR	10	µg/l		**30**	<10	<10	<10	**60**	**250**	**510**
Phenol	T16	AR	10	µg/l		(162) <50	(162) <50	(162) <50	(162) <50	(162) <50	(162) <50	(162) <50

SAL Reference: 217900
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton SVOC Suite

					SAL Reference	**217900 008**	**217900 009**	**217900 010**	**217900 011**	**217900 012**	**217900 013**	**217900 014**
					Customer Sample Reference	**S3/4**	**BH9**	**BH11**	**Riddy Upstream**	**Riddy Downstream**	**Cam Upstream**	**Cam Downstream**
					Date Sampled	**29-OCT-2010**	**29-OCT-2010**	**29-OCT-2010**	**29-OCT-2010**	**29-OCT-2010**	**29-OCT-2010**	**29-OCT-2010**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**								
2,4,6-Trichlorophenol	T16	AR	10	µg/l		<10	<10	<10	<10	<10	<10	<10
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		**290**	<10	<10	<10	<10	<10	<10
Bis (2-chloroethyl) ether	T16	AR	10	µg/l		**2800**	**1300**	<10	<10	<10	<10	<10
Phenol	T16	AR	10	µg/l		(162) <50	(162) <50	(162) <50	(162) <50	(162) <50	(162) <50	(162) <50

SAL Reference: 217900
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton VOC Suite

	SAL Reference	217900 001	217900 002	217900 003	217900 004	217900 005	217900 006	217900 007
	Customer Sample Reference	S2/6	BH6/06	BH10B/06	BH8/06	BH4/06	BH4	BHB1
	Date Sampled	28-OCT-2010	28-OCT-2010	28-OCT-2010	28-OCT-2010	28-OCT-2010	29-OCT-2010	29-OCT-2010
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
1,2-Dichlorobenzene	T54	AR	1	µg/l	<1	<1	<1	<1	<1	**2**	**3**
1,2-Dichloroethane	T54	AR	1	µg/l	(13) <1	(13) <1	(13) <1	(13) <1	(13) <1	**(13) 13**	**(13) 20**
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l	<1	<1	**71**	<1	<1	**(19) 1200**	**(19) 1400**
Cyclohexanone	T54	AR	10	µg/l	<10	<10	<10	<10	<10	<10	<10
Tetrachloroethylene	T54	AR	1	µg/l	**4**	<1	**8**	**8**	<1	**3**	**2**
Toluene	T54	AR	1	µg/l	**1**	<1	**1**	**2**	<1	**12**	**35**
Trichloroethylene	T54	AR	1	µg/l	**4**	<1	**11**	<1	<1	**13**	**4**
Vinyl chloride	T54	AR	1	µg/l	<1	<1	**24**	<1	<1	**360**	**450**
Xylene (Total)	T54	AR	1	µg/l	<1	<1	<1	<1	**32**	**95**	**730**

SAL Reference: 217900
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton VOC Suite

	SAL Reference	217900 008	217900 009	217900 010	217900 011	217900 012	217900 013	217900 014
	Customer Sample Reference	S3/4	BH9	BH11	Riddy Upstream	Riddy Downstream	Cam Upstream	Cam Downstream
	Date Sampled	29-OCT-2010	29-OCT-2010	29-OCT-2010	29-OCT-2010	29-OCT-2010	29-OCT-2010	29-OCT-2010
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	(13) <1	(13) <1	(13) <1	(13) <1	(13) <1	(13) <1	(13) <1
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l	<1	**2**	<1	<1	**3**	<1	<1
Cyclohexanone	T54	AR	10	µg/l	<10	<10	<10	<10	<10	<10	<10
Tetrachloroethylene	T54	AR	1	µg/l	<1	<1	<1	**2**	**2**	**3**	**2**
Toluene	T54	AR	1	µg/l	**50**	<1	<1	<1	<1	**2**	**2**
Trichloroethylene	T54	AR	1	µg/l	<1	<1	<1	<1	**4**	<1	<1
Vinyl chloride	T54	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1
Xylene (Total)	T54	AR	1	µg/l	**62**	<1	<1	<1	<1	<1	<1

Index to symbols used in 217900-1

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

Method Index

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

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Electrical Conductivity	T7	AR	10	µS/cm	N	001-014
pH	T7	AR			U	001-014
Dimefox	T16	AR	0.1	µg/l	N	001-014
Ethofumesate	T16	AR	0.1	µg/l	N	001-014

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Hempa	T16	AR	0.1	µg/l	N	001-014
Schradan	T16	AR	0.1	µg/l	N	001-014
Simazine	T16	AR	0.01	µg/l	N	001-014
Dicamba	T16	AR	0.1	µg/l	N	001-014
Dichlorprop	T16	AR	0.1	µg/l	N	001-014
Phenoxy Acetic acid herbicide: MCPA	T16	AR	0.1	µg/l	N	001-014
Mecoprop	T16	AR	0.1	µg/l	N	001-014
2,4,6-Trichlorophenol	T16	AR	10	µg/l	U	001-014
2-Methyl-4,6-dinitrophenol	T16	AR	10	µg/l	N	001-014
4-Chloro-2-methylphenol	T16	AR	10	µg/l	N	001-014
Bis (2-chloroethyl) ether	T16	AR	10	µg/l	U	001-014
Phenol	T16	AR	10	µg/l	U	001-014
1,2-Dichlorobenzene	T54	AR	1	µg/l	U	001-014
1,2-Dichloroethane	T54	AR	1	µg/l	U	001-014
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l	U	001-014
Cyclohexanone	T54	AR	10	µg/l	N	001-014
Tetrachloroethylene	T54	AR	1	µg/l	U	001-014
Toluene	T54	AR	1	µg/l	U	001-014
Trichloroethylene	T54	AR	1	µg/l	U	001-014
Vinyl chloride	T54	AR	1	µg/l	U	001-014
Xylene (Total)	T54	AR	1	µg/l	U	001-014

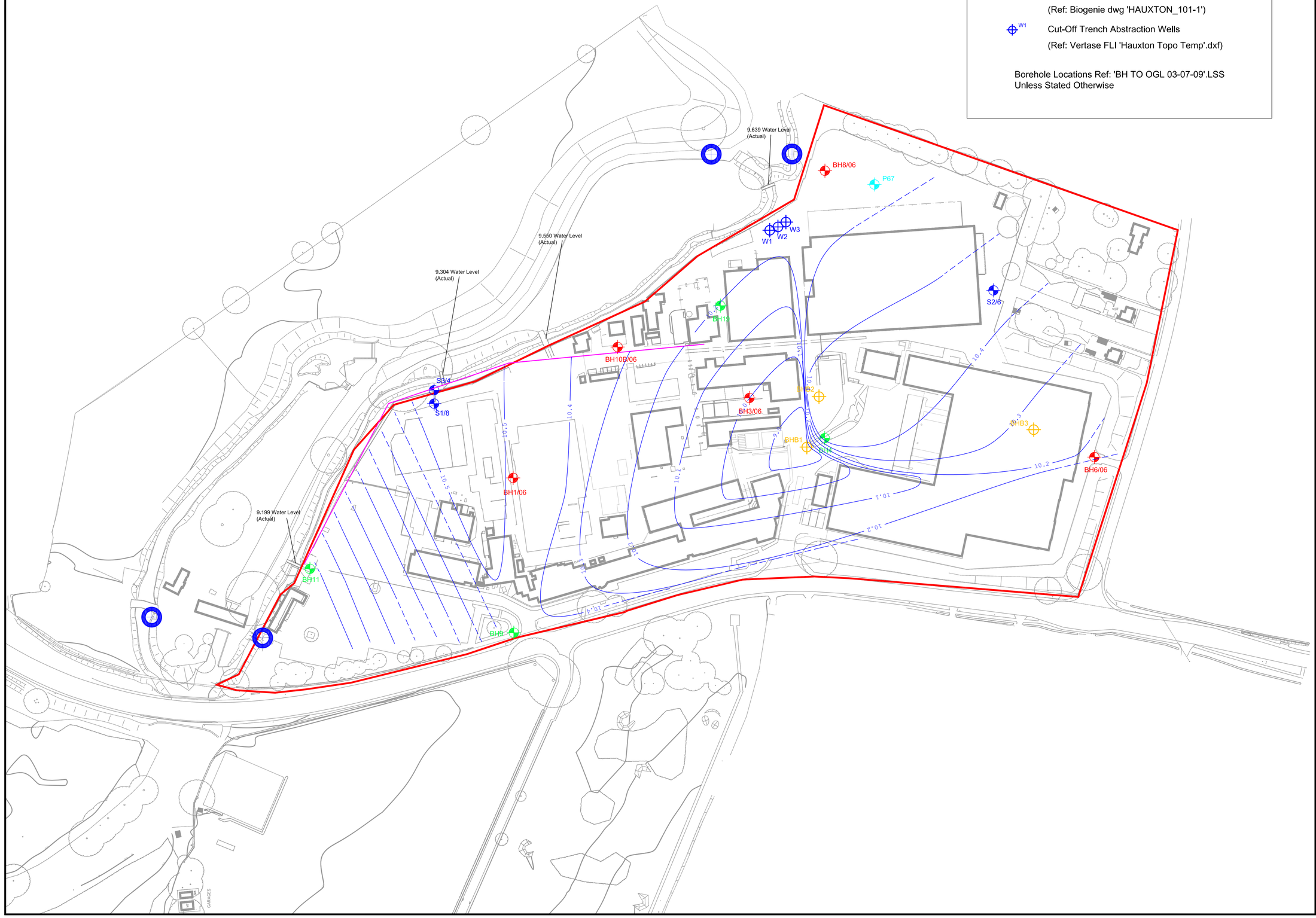
Appendix G
Groundwater Contour Plots

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)

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



Rev.	Description	Revised By	Date
	FIRST ISSUE		05-11-10

Vertase F.L.I.

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Site Address:
Bayer Site
Hauxton
Cambridge

Rev:

Title: Ground Water Contours 07-10-10

Client: Harrow Estates

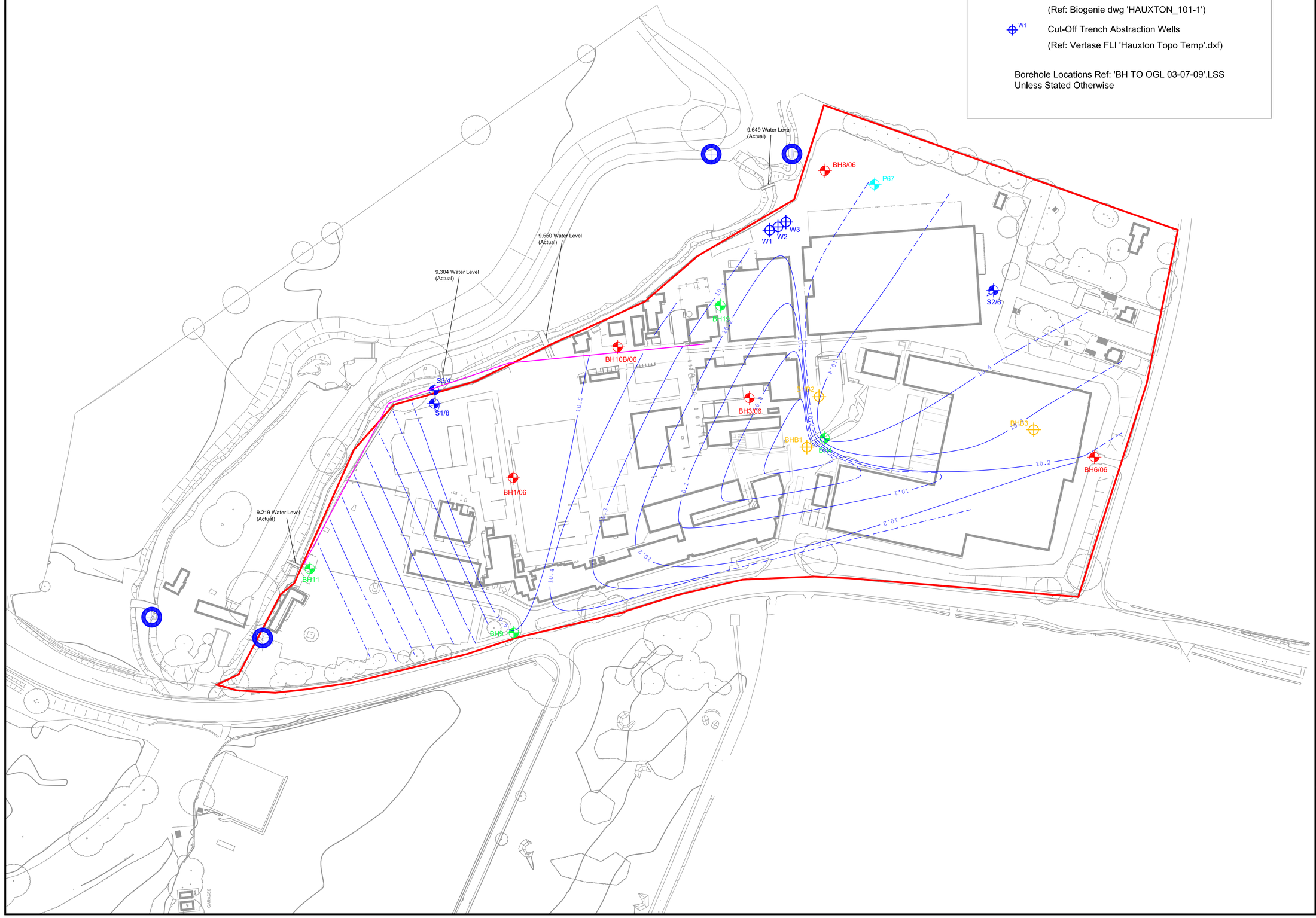
Drawn: MRG	Checked: MA	Approved: MA
Dwg: D907_112	Contract: 907 BRI	Scale: 1:1000

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)

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



Rev.	Description	Revised By	Date
	FIRST ISSUE		05-11-10

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Site Address:
Bayer Site
Hauxton
Cambridge

Rev:

Title: Ground Water Contours 14-10-10

Client: Harrow Estates

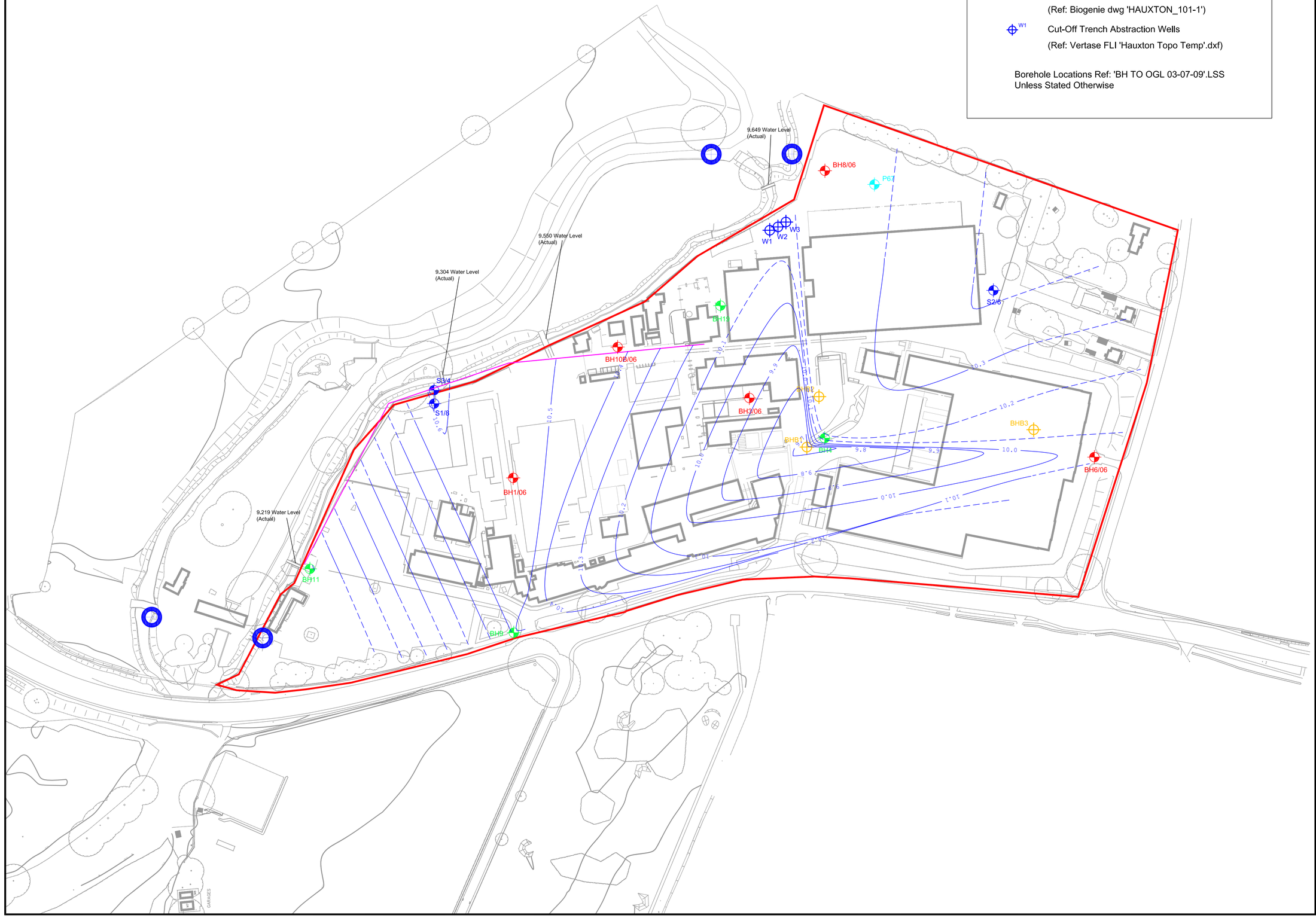
Drawn: MRG	Checked: MA	Approved: MA
Dwg: D907_113	Contract: 907 BRI	Scale: 1:1000

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)

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



Rev.	Description	Revised By	Date
	FIRST ISSUE		08-11-10

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Site Address:
Bayer Site
Hauxton
Cambridge

Rev:

Title: Ground Water Contours 21-10-10

Client: Harrow Estates

Drawn: MRG	Checked: MA	Approved: MA
Dwg: D907_114	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)

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

9.649 Water Level (Actual)
9.550 Water Level (Actual)
9.304 Water Level (Actual)
9.209 Water Level (Actual)

BH8/06
P67
W1
W2
W3
S2/6
BH10B/06
BH10
S3/4
S1/8
BH3/06
BHB2
BHB3
BHB1
BH4
BH6/06
BH1/06
BH11
BH9
GARAGES

Rev.	Description	Revised By	Date
	FIRST ISSUE		08-11-10

Vertase F.L.I.

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Site Address:
Bayer Site
Hauxton
Cambridge

Rev:

Title: Ground Water Contours 28-10-10

Client: Harrow Estates

Drawn: MRG	Checked: MA	Approved: MA
Dwg: D907_115	Contract: 907 BRI	Scale: 1:1000

Appendix H

Waste Water Treatment Plant Discharge Analysis

Water Quality Analysis of Effluent Discharge Sample

				Bromide	Chloride	Sulphate Ion	Suspended Solids (Total)	Ammoniacal Nitrogen	Biochemical Oxygen Demand	pH	Atrazine	Trietazine	Simazine	Total Atrazine, Trietazine and Simazine	Benazolin	2,3,6-TBA	Dicamba	Hempa	Schradan
Sample Taken	Report Date	Report Number	Sample Location	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l		µg/l	µg/l	µg/l	ug/l	µg/l	µg/l	µg/l	µg/l	µg/l
Consented Levels				*50*	*3000*	*5000*	*45*	*15*	*30*	*na*	*Total of all three*			*250*	*50*	*20*	*50*	*274*	*135*
01/03/2010	17/03/2010	193447	Discharge Point	0.30	84.00	150.00	<10	<0.05	<3	8.4	<0.02	0.07	<0.01	0.07	<0.1	0.40	<0.1	<0.1	<0.1
30/03/2010	09/04/2010	195429	Discharge Point	0.40	110.00	180.00	<10	<0.05	<3	8.7	<0.01	<0.01	<0.01	0.00	<0.1	0.30	<0.1	0.40	<0.1
08/04/2010	13/04/2010	196139	T99 Circ	<1.0	110.00	190.00	<10	<0.05	<3	8.0	<0.01	<0.01	<0.01	0.00	<0.1	<0.1	<0.1	2.90	0.40
10/04/2010	19/04/2010	196379	T100 Circ	<1.0	110.00	190.00	<10	0.05	<3	7.9	<0.01	0.01	<0.01	0.01	<0.1	<0.1	<0.1	0.90	0.30
12/04/2010	21/04/2010	196517	T100 Circ	<1.0	1100.00	200.00	<10	<0.05	<3	8.2	<0.01	<0.01	<0.01	0.00	<0.1	<0.1	<0.1	1.50	<0.1
28/04/2010	19/05/2010	199291	Discharge Point	<1.0	130.00	200.00	<10	<0.05	<3	8.1	<0.01	<0.01	<0.01	0.00	<0.1	<0.1	<0.1	5.10	1.50
07/05/2010	17/05/2010	199176	T99 Discharge	<1.0	110.00	200.00	<10	<0.05	6.6	8.2	<0.01	<0.01	<0.01	0.00	<0.2	3.00	<0.2	3.30	0.60
18/05/2010	01/06/2010	200382	Discharge Point	<1.0	180.00	280.00	<10	0.09	<3	8.0	<0.01	0.01	<0.01	0.01	0.60	5.20	0.20	6.30	3.80
28/05/2010	17/06/2010	201487	Discharge Point	<1.0	130.00	210.00	<10	<0.05	<3	8.1	<0.01	<0.01	<0.01	0.00	<0.1	1.30	<0.1	4.30	1.10
15/06/2010	28/06/2010	203351	WTW Discharge	2.7	240.00	320.00	<10	0.05	<3	8.1	<0.01	0.02	<0.01	0.02	<0.1	2.40	0.2	4.10	1.00
01/07/2010	19/07/2010	205613	WWTW Discharge	3.3	290.00	370.00	13	0.07	<3	8.1	<0.01	<0.01	<0.01	0.00	<0.1	0.40	<0.1	<0.1	<0.1
05/08/2010	16/08/2010	208693	WWTW Discharge	<1.0	160.00	300.00	<10	<0.05	<3	8.0	0.02	0.09	0.02	0.13	<0.5	0.40	<0.1	<0.1	<0.1
19/08/2010	26/08/2010	209961	WWTW Discharge	<1.0	160.00	260.00	<10	<0.05	<3	7.7	<0.01	<0.01	<0.01	0.00	<0.1	<0.1	<0.1	<0.1	<0.1
01/09/2010	09/09/2010	211356	WWTW Discharge	2.6	180.00	280.00	<10	<0.05	5	8.1	<0.01	<0.01	<0.01	0.00	<0.1	<0.1	<0.1	2.9	<0.1
16/09/2010	29/09/2010	212901	WWTW Discharge	<1.0	86.00	170.00	<10	0.08	<3	7.9	<0.01	<0.01	<0.01	0.00	<0.1	<0.1	<0.1	24	3.5
24/09/2010	04/10/2010	213745	WWTW Discharge	<1.0	160.00	340.00	35	<0.05	<3	8.0	<0.01	<0.01	<0.01	0.00	<0.1	<0.1	<0.1	24	0.6
08/10/2010	21/10/2010	215625	WWTW Discharge	<1.0	150.00	270.00	<10	<0.05	<3	8.2	<0.01	<0.01	<0.01	0.00	<0.1	<0.1	<0.1	52	2.2
21/10/2010	01/11/2010	216826	WWTW Discharge	<1.0	200.00	240.00	11	<0.05	<3	7.7	<0.01	<0.01	<0.01	0.00	<0.1	<0.1	<0.1	24	9.4

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
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M16 9FE
Tel : 0161 874 2400
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Report Number: 215625-1

Date of Report: 21-Oct-2010

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

Customer Contact: The Project Management

Customer Job Reference: 907BRI
Customer Purchase Order: 907BRI
Date Job Received at SAL: 13-Oct-2010
Date Analysis Started: 14-Oct-2010
Date Analysis Completed: 21-Oct-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 :
Amelia McVennon
Project Manager

Issued by :
Amelia McVennon
Project Manager

SAL Reference: 215625
Customer Reference: 907BRI

Water Analysed as Water
Miscellaneous

					SAL Reference	215625 001	215625 002
					Customer Sample Reference	WWTW DISCHARGE	WWTW PRIMARY B
					Date Sampled	08-OCT-2010	08-OCT-2010
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Ammoniacal nitrogen	T4	AR	50	µg/l	<50	**90**
Biochemical Oxygen Demand	T7	AR	3000	µg/l	<3000	<3000
pH	T7	AR			**8.2**	**8.2**

SAL Reference: 215625
Customer Reference: 907BRI

Water Analysed as Water
Suite A

					SAL Reference	215625 001	215625 002
					Customer Sample Reference	WWTW DISCHARGE	WWTW PRIMARY B
					Date Sampled	08-OCT-2010	08-OCT-2010
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Atrazine	T16	AR	0.01	µg/l	<0.01	<0.01
Trietazine	T16	AR	0.01	µg/l	<0.01	**0.10**

SAL Reference: 215625
Customer Reference: 907BRI

Water Analysed as Water
Suite B

					SAL Reference	215625 001	215625 002
					Customer Sample Reference	WWTW DISCHARGE	WWTW PRIMARY B
					Date Sampled	08-OCT-2010	08-OCT-2010
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Benazolin	T16	AR	0.1	µg/l	<0.1	<0.1
2,3,6-TCB	T16	AR	0.1	µg/l	<0.1	**14**

SAL Reference: 215625
Customer Reference: 907BRI

Water Analysed as Water
Suite C

					SAL Reference	215625 001	215625 002
					Customer Sample Reference	WWTW DISCHARGE	WWTW PRIMARY B
					Date Sampled	08-OCT-2010	08-OCT-2010
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Bromide	T253	AR	100	µg/l	(9) <1000	(9) <1000
Chloride	T253	AR	200	µg/l	**150000**	**150000**
Sulphate ion	T253	AR	100	µg/l	**270000**	**270000**
Suspended Solids (Total)	T2	AR	10000	µg/l	<10000	<10000

SAL Reference: 215625
Customer Reference: 907BRI

Water Analysed as Water
Suite D

				SAL Reference	**215625 001**	**215625 002**
				Customer Sample Reference	**WWTW DISCHARGE**	**WWTW PRIMARY B**
				Date Sampled	**08-OCT-2010**	**08-OCT-2010**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Dicamba	T16	AR	0.1	µg/l	<0.1	**0.3**
Hempa	T16	AR	0.1	µg/l	**52**	**16**
Schradan	T16	AR	0.1	µg/l	**2.2**	**4.0**
Simazine	T16	AR	0.01	µg/l	<0.01	<0.01

SAL Reference: 215625
Customer Reference: 907BRI

Water Analysed as Water
Suite E

				SAL Reference	**215625 001**	**215625 002**
				Customer Sample Reference	**WWTW DISCHARGE**	**WWTW PRIMARY B**
				Date Sampled	**08-OCT-2010**	**08-OCT-2010**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
TVC at 22°C after 3 days	T34	AR	10	cfu/ml	**1800**	**1200**
TVC at 37°C after 2 days	T34	AR	10	cfu/ml	**1900**	**690**

Index to symbols used in 215625-1

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

Method Index

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

Accreditation Summary

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

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

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Scientific Analysis Laboratories

Certificate of Analysis

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Tel : 0161 874 2400
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Report Number: 216826-1

Date of Report: 01-Nov-2010

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

Customer Contact: The Project Management

Customer Job Reference: 907BRI
Customer Purchase Order: 907BRI
Date Job Received at SAL: 25-Oct-2010
Date Analysis Started: 25-Oct-2010
Date Analysis Completed: 01-Nov-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 :
Mr Ross Walker
Customer Services Manager

Issued by :
Mr Ross Walker
Customer Services Manager

SAL Reference: 216826
Customer Reference: 907BRI

Water Analysed as Water
Miscellaneous

					SAL Reference	**216826 001**	**216826 002**
					Customer Sample Reference	**WWTW DISCHARGE**	**WWTW PRIMARY B**
					Date Sampled	**21-OCT-2010**	**21-OCT-2010**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Ammoniacal nitrogen	T4	AR	50	µg/l	<50	<50
Biochemical Oxygen Demand	T7	AR	3000	µg/l	<3000	<3000
pH	T7	AR			**7.7**	**8.0**

SAL Reference: 216826
Customer Reference: 907BRI

Water Analysed as Water
Suite A

					SAL Reference	**216826 001**	**216826 002**
					Customer Sample Reference	**WWTW DISCHARGE**	**WWTW PRIMARY B**
					Date Sampled	**21-OCT-2010**	**21-OCT-2010**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Atrazine	T16	AR	0.01	µg/l	<0.01	**1.8**
Trietazine	T16	AR	0.01	µg/l	<0.01	**1.8**

SAL Reference: 216826
Customer Reference: 907BRI

Water Analysed as Water
Suite B

					SAL Reference	**216826 001**	**216826 002**
					Customer Sample Reference	**WWTW DISCHARGE**	**WWTW PRIMARY B**
					Date Sampled	**21-OCT-2010**	**21-OCT-2010**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Benazolin	T16	AR	0.1	µg/l	<0.1	<0.1
2,3,6-TCB	T16	AR	0.1	µg/l	<0.1	**78**

SAL Reference: 216826
Customer Reference: 907BRI

Water Analysed as Water
Suite C

					SAL Reference	**216826 001**	**216826 002**
					Customer Sample Reference	**WWTW DISCHARGE**	**WWTW PRIMARY B**
					Date Sampled	**21-OCT-2010**	**21-OCT-2010**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Bromide	T253	AR	100	µg/l	(9) <1000	(9) <1000
Chloride	T253	AR	200	µg/l	**200000**	**200000**
Sulphate ion	T253	AR	100	µg/l	**240000**	**240000**
Suspended Solids (Total)	T2	AR	10000	µg/l	**11000**	**15000**

SAL Reference: 216826
Customer Reference: 907BRI

Water Analysed as Water
Suite D

				SAL Reference	**216826 001**	**216826 002**
				Customer Sample Reference	**WWTW DISCHARGE**	**WWTW PRIMARY B**
				Date Sampled	**21-OCT-2010**	**21-OCT-2010**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Dicamba	T16	AR	0.1	µg/l	<0.1	**4.1**
Hempa	T16	AR	0.1	µg/l	**24**	**23**
Schradan	T16	AR	0.1	µg/l	**9.4**	**22**
Simazine	T16	AR	0.01	µg/l	<0.01	<0.01

SAL Reference: 216826
Customer Reference: 907BRI

Water Analysed as Water
Suite E

				SAL Reference	**216826 001**	**216826 002**
				Customer Sample Reference	**WWTW DISCHARGE**	**WWTW PRIMARY B**
				Date Sampled	**21-OCT-2010**	**21-OCT-2010**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
TVC at 22°C after 3 days	T34	AR	10	cfu/ml	> **10000**	> **10000**
TVC at 37°C after 2 days	T34	AR	10	cfu/ml	> **10000**	**9200**

Index to symbols used in 216826-1

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

Method Index

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

Accreditation Summary

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

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Schradan	T16	AR	0.1	µg/l	N	001-002
Simazine	T16	AR	0.01	µg/l	N	001-002
TVC at 22°C after 3 days	T34	AR	10	cfu/ml	SN	001-002
TVC at 37°C after 2 days	T34	AR	10	cfu/ml	SN	001-002

Appendix I
Soil Characterisation Results Summary

Results Received	Reported to SCDC	Grid square	Contaminant	Concentration (µg/kg)	Likely use/origin
12.04.2010	06.05.2010	K15	VOC/SVOC peaks detected		
12.04.2010	06.05.2010	K16	Series of Aromatic Hydrocarbons circa C_{13}-C_{16}	17,000	Potential herbicide degradation products. The structrues are smaller and less complex than contaminants of concern and will therefore degrade more readily than the target contaminants and will be captured by the remediation process.
15.04.2010	06.05.2010 (09.06.2010)	J16	2(1-methylpropyl)-phenol	10,000	Encountered and assessed during site investigation, not a priority contaminant
			2,6-bis(1-methylpropyl)-phenol	100,000	Commonly used in the manufacture of specialty surfactants used as wetting agents for agrochemicals.
			2,6-bis(1,1-dimethylethyl)-4-(1-methylpropyl)-phenol	6,000	Commonly used as an antioxidant and stabiliser, also used in oils used in industrial applications.
			Unidentified branched aromatic alcohol, C_{14}	240,000	Potential herbicide degradation products. The structrues are smaller and less complex than contaminants of concern and will therefore degrade more readily than the target contaminants and will be captured by
			Unidentified branched aromatic alcohol, C_{18}	290,000	
15.04.2010	06.05.2010	K14	Phenanthrene	4,100	Encountered and assessed during site investigation, concentration below target value
			Fluoranthene	4,800	
			Pyrene	3,900	
			Benzo(b/k)Fluoranthene	2,200	
07.05.2010	24.05.2010	K9	Dodecanoic acid (Lauric acid), isooctyl ester	2,400	Lauric acid - main acid in coconut oil and palm kernel oil, is non-toxic and safe to handle, is used in many soaps, shampoos and body butters.
			Unidentified Aliphatic Hydrocarbon circa C_{30}	2,300	Potential herbicide degradation products. The structrues are smaller and less complex than contaminants of concern and will therefore degrade more readily than the target contaminants and will be captured by the remediation process.

07.05.2010	24.05.2010 (09.06.2010)	L8	2,4-Dichloro-o-cresol	9,000	Potential herbicide degradation product
			Bis(2-ethylhexyl) maleate	3,800	Commonly used as an intermediate in hydrogenation or acetylation reactions, possibly used in agrochemicals manufacture
			Cyclo octaatomic sulphur	2,800	S_8 is the most common form of sulphur in the solid state, widely used in insecticide and fungicide manufacture
			Dodecanoic acid (Lauric acid), isooctyl ester	7,400	Lauric acid - main acid in coconut oil and palm kernel oil, is non-toxic and safe to handle, is used in many soaps, shampoos and body butters.
			Unidentified aromatic hydrocarbon containing O and Cl circa C_7	8,400	Potential herbicide degradation products. The structrues are smaller and less complex than contaminants of concern and will therefore degrade more readily than the target contaminants and will be captured by the remediation process.
07.05.2010	24.05.2010	L9	Unidentified Aliphatic Hydrocarbon circa C_{30}	2,300	Potential herbicide degradation products. The structures are smaller and less complex than contaminants of concern and will therefore degrade more readily than the target contaminants and will be captured by the remediation process.
13.05.2010	24.05.2010	H8	No VOC/SVOC peaks detected		
13.05.2010	24.05.2010 (09.06.2010)	H9	1,2-bis(2,4,6-trichlorophenoxy)ethane	6,900	Potential Prochloraz degradation product
			Prochloraz	9,100	Fungicide
			Unidentified aromatic hydrocarbon containing Cl circa C_8	9,400	Potential herbicide degradation products. The structures are smaller and less complex than contaminants of concern and will therefore degrade more readily than the target contaminants and will be captured by the remediation process.
			Unidentified aromatic amine containing Cl circa C_{11}	2,100	
13.05.2010	24.05.2010	I7	No SVOC peaks detected		
			2,4-Dichloro-o-cresol	29,000	

13.05.2010	24.05.2010 (09.06.2010)	I9	2,3,6-Trichlorotoluene	47,000	Potential herbicide degradation product
			1-(2-Chloroethoxy)-2-(o-Tolyloxy) ethane	20,000	
			Unidentified aromatic alcohol containing Cl circa C_7	25,000	Potential herbicide degradation products. The structures are smaller and less complex than contaminants of concern and will therefore degrade more readily than the target contaminants and will be captured by the remediation process.
			Unidentified aromatic hydrocarbon containing O circa C_{16-18}	12,000	
13.05.2010	24.05.2010	J7	No VOC/SVOC peaks detected		
20.05.2010	24.05.2010	J8	No VOC/SVOC peaks detected		
26.05.2010		J9	No VOC/SVOC peaks detected		
04.06.2010	16.06.2010 (09.06.2010)	H7	Dichloromethyl phenol	2,100	Same as 2,4-Dichloro-o-cresol (I9)
05.05.2010	16.06.2010 (09.06.2010)	K7	1,2-bis(2,4,6-trichlorophenoxy)ethane	2400.0	As for H9
05.05.2010	16.06.2010	K8	No VOC/SVOC peaks detected		
18.06.2010	29.06.2010	I8	2-methyl phenol	5,500	Encountered and assessed during site investigation, not a priority contaminant
			1,2-dichlorobenzene	3,600	Contaminant of concern, already included in the standard validation suite
17.06.2010	29.06.2010 (09.06.2010)	K10	2,4-Dichloro-o-cresol	550,000	As for I9 and H7
22.06.2010		L10	Cyclo octaatomic sulphur	16,000	As for L8 - Sulphur
20.07.2010	21.07.2010	K10 NAPL	Dichloromethyl phenol	1,800,000	As for 2,4-Dichloro-o-cresol (I9, H7, K10)
			Naphthalene	4,600,000	Encountered and assessed during site investigation, not a priority contaminant
			2-methylnaphthalene	3,900,000	
			1-methylnaphthalene *CAS 90-12-0*	2,400,000	More toxic than 2-methylnaphthalene, must be assessed separately
			Dinoseb *CAS 88-85-7*	68,000,000	2-(1-methylpropyl)-4,6-dinitro- phenol - herbicide and insecticide. Yellow crystalline solid.
			Dichloromethyl phenol	24,000	As for 2,4-Dichloro-o-cresol (I9, H7, K10)
			1-(2-Chloroethoxy)-2-(o-Tolyloxy) ethane *CAS 21120-80-9*	13,000	Same as I9

21.07.2010	22.07.2010	J10	1,2,4-Trichlorobenzene	28,000	Encountered and assessed during site investigation, not a priority contaminant
			Trichlorobenzene	32,000	
			2-Chlorotoluene	60,000	
			Trichloro toluene isomer	48,000	Same as I9
			Trichloro benzenamine isomer	11,000	Potential herbicide degradation product
			2,3-Dichlorotoluene *CAS 32768-54-0*	290,000	
21.07.2010	22.07.2010	L11	Dichloromethyl phenol	5,000	As for 2,4-Dichloro-o-cresol (I9, H7, K10, J10)
28.07.2010	02.08.2010	H10	2,4-Dichloro-o-cresol *CAS 1570-65-6*	10,000	As for I9, H7, K10, J10, L11
			Trichloro toluene isomers	58,000	Same as I9, J10
			Dichlorotoluene isomer	52,000	6 possible isomers, but very little data, using surrogate.
			2-Chlorotoluene	39,000	Encountered and assessed during site investigation, not a priority contaminant
			Trichlorobenzene	350,000	
28.07.2010	02.08.2010	I10	2,4-Dichloro-o-cresol *CAS 1570-65-6*	5,000	As for I9, H7, K10, J10, L11, H10
			Trichloro toluene isomers	24,000	Same as I9, J10, H10
03.08.2010	04.08.2010	L12	2,4-Dichloro-o-cresol *CAS 1570-65-6*	7,000	As for I9, H7, K10, J10, L11, H10, I10
03.08.2010	04.08.2010	L13	No VOC/SVOC peaks detected		
03.08.2010	04.08.2010	K12	2,4-Dichloro-o-cresol *CAS 1570-65-6*	7,000	As for I9, H7, K10, J10, L11, H10, I10, L12
03.08.2010	04.08.2010	K13 sand & gravel	Cyclo octaatomic sulphur	68,000	As for L8, L10 - Sulphur
05.08.2010	N/A	K13 chalk	2,4-Dichloro-o-cresol CAS 1570-65-6	650,000	As for I9, H7, K10, J10, L11, H10, I10, L12, K12
			Trichloro toluene isomers	1,140,000	Same as I9, J10, H10, I10
			1-(2-Chloroethoxy)-2-(o-Tolyloxy) ethane CAS 21120-80-9	140,000	Same as I9 and J10
			Dichlorotoluene isomer	99,000	Same as J10, H10

			2-Chlorotoluene	12,000	Encountered and assessed during site investigation, not a priority contaminant
05.08.2010	N/A	K11	2,4-Dichloro-o-cresol CAS 1570-65-6	22,000	As for I9, H7, K10, J10, L11, H10, I10, L12, K12, K13
05.08.2010	N/A	J11	2,4-Dichloro-o-cresol CAS 1570-65-6	220,000	As for I9, H7, K10, J10, L11, H10, I10, L12, K12, K13
			Trichloro toluene isomers	376,000	Same as I9, J10, H10, I10, K13
			Dinoseb CAS 88-85-7	90,000	Same as K10
			Dichlorotoluene isomer	18,000	Same as H10, K13
			2-Chlorotoluene	13,000	Encountered and assessed during site investigation, not a priority contaminant
12.08.2010	17.08.2010	J12	2-chloro Benzenemethanol CAS 17849-38-6	620	Potential agrochemical synthesis ingredient - further investigation is required
			2-Chlorobenzalazine CAS 5328-80-3	5,900	
			2,4-Dichloro-o-cresol CAS 1570-65-6	2,000	As for I9, H7, K10, J10, L11, H10, I10, L12, K12, K13, J11
			2(1-methylpropyl)-phenol	610	Encountered and assessed during site investigation, not a priority contaminant
12.08.2010	N/A	J13	2,4-Dichloro-o-cresol CAS 1570-65-6	3,400	As for I9, H7, K10, J10, L11, H10, I10, L12, K12, K13, J11, J12
24.08.2010	25.08.2010	J14	Total Petroleum Hydrocarbons (C5-C12)	43,000	Encountered and assessed during site investigation, not a priority contaminant
			1,3,5-Trimethylbenzene CAS 108-67-8	1,600	Encountered and assessed during site investigation, not a priority contaminant
			1,2,4-Trimethylbenzene CAS 95-63-6	600	
			1,2,3-Trimethylbenzene CAS 526-73-8	700	Isomers encountered and assessed during site investigation, quantitative risk assessment not required
			1-Ethyl-2-Methylbenzene CAS 611-14-3	500	Potential agrochemical synthesis ingredient - further investigation is required
25.08.2010	N/A	I13	1-methylnaphthalene CAS 90-12-0	100	Same as K10NAPL

			Phenanthrene	200	Encountered and assessed during site investigation, not a priority contaminant
			Fluoranthene	300	
			Pyrene	300	
			Benzo(b/k)Fluoranthene	200	
01.09.2010	N/A	I14	Trichloro methyl benzene (trichloro toluene)	400	Same as I9, J10, H10, I10, K13, J11
01.09.2010	N/A	I15	Dichlorocresol	2600	As for I9, H7, K10, J10, L11, H10, I10, L12, K12, K13, J11, J12
			Dichlorophenoxybutyric acid	6300	Herbicide encountered and assessed during site investigation, similar to MCPA and Mecoprop which are higher risk substances, therefore not a priority contaminant
01.09.2010	N/A	H14	No VOC/SVOC peaks detected		
01.09.2010	N/A	H15	No VOC/SVOC peaks detected		
03.09.2010	N/A	I11	Dichlorocresol	3,300	As for I9, H7, K10, J10, L11, H10, I10, L12, K12, K13, J11, J12, I15
			Trichloro methyl benzene (trichloro toluene)	1,000	Same as I9, J10, H10, I10, K13, J11, I14
			Prochloraz CAS 67747-09-5	800	Same as H9
03.09.2010	N/A	I12	1-methylnaphthalene CAS 90-12-0	40,000	Same as K10NAPL, I13
			Dibenzofuran	24,000	Encountered and assessed during site investigation, not a priority contaminant
			Phenanthrene	60,000	
			Fluoranthene	29,000	
			Acenaphthene	31,000	
24.09.2010	N/A	J15	Methylpropyl phenol	340	Encountered and assessed during site investigation, not a priority contaminant
24.09.2010	28.09.2010	H13	Oxathiane 4,4-dioxide CAS 107-61-9	220	
	N/A		Trichloro methyl benzene (trichloro toluene)	230	Same as I9, J10, H10, I10, K13, J11, I14, I11
			Dichloromethylphenol	2100	As for I9, H7, K10, J10, L11, H10, I10, L12, K12, K13, J11, J12, I15, I11

			1-(2-Chloroethoxy)-2-(o-Tolyloxy) ethane CAS 21120-80-9	470	Same as I9, J10, K13
01.10.2010	N/A	H11	No VOC/SVOC peaks detected		
01.10.2010	05.10.2010	H12	Indane CAS 496-11-7	3700000	2-ring hydrocarbon
	N/A		Ethyltoluene (ethyl methyl benzene) isomer	4500000	As J14
			Bis methylpropyl phenol isomer	980000	As J16
			1,3,5-Trimethylbenzene	3900000	Encountered and assessed during site investigation, not a priority contaminant
			1,2,4-Trimethylbenzene	10000000	
			1,2,3-Trimethylbenzene	3100000	
22.10.2010 (216017)	25.10.2010	G12	Nicotine	6400	Natural insecticide
	N/A		Dichloromethyl phenol	2900	As for I9, H7, K10, J10, L11, H10, I10, L12, K12, K13, J11, J12, I15, I11, H13
			Methylpropyl phenol	9400	Encountered and assessed during site investigation, not a priority contaminant
			Schradan	1200	Contaminant of concern, already included in the standard validation suite
22.10.2010 (216017)	N/A	G13	1-methylnaphthalene CAS 90-12-0	170	Same as K10NAPL, I13, I12
			Isophorone CAS 78-59-1	530	Encountered and assessed during site investigation, not a priority contaminant
			Naphthalene	690	
			2-methylnaphthalene	270	
			Phenanthrene	410	
			Fluoranthene	380	
			Pyrene	310	
22.10.2010 (216017)	N/A	G14	No VOC/SVOC peaks detected		
29.10.2010 (216821)	N/A	H17	No VOC/SVOC peaks detected		
29.10.2010 (216821)	N/A	G17	No VOC/SVOC peaks detected		