



Environmental Monitoring Report

Reporting Period

1/05/2010-30/05/2010

Revision 1



Former Bayer Crop Science Site
Hauxton
Cambridgeshire

25th June 2010

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1.0 Introduction

1.1. *General*

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

The time period that this report represents is from the 1st of May 2010, until the 30th of May 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 8. Week Commencing 3rd May 2010

Excavation continued in grid square L8 (Drawing D907-07 Appendix A), materials being hauled to treatment area, formed into treatment beds and covered to prevent odour migration. Odorous materials excavated in K9 and L9 were temporarily left within the excavation until emissions generated by this material had significantly reduced. This action reduces odour migration by preventing contact with the predominant wind direction across the site and allowing the odours to release at a slower rate in a sheltered location / bottom of the excavation, away from the adjacent receptors. Further excavation was required within grid square K8 due to validation failure. Trial pits were excavated to the east and south of the main excavations to identify the potential odour releases during the next phase of excavation, samples were taken at specific intervals to assess the types and concentrations of contaminants that would be encountered in the coming month.

Week 9. Week Commencing 10th May 2010

The main excavation progressed to the east in grid squares J7 and J8 (Drawing D907-07 Appendix A), materials were less odorous than those previously encountered in grid squares L8 and J8. All materials having the potential to generate odours that may migrate off site are laid in windrows and covered on the same day, to minimise odour generation. Excavated concrete was stockpiled, waiting to be crushed site. All odorous materials were covered at the end of the working day including both soils and waters to minimise odour migration off site.

Week 10. Week Commencing 17th May 2010

Favourable weather conditions allowed excavation to recommence in L8 and L9, this material had the potential to release VOC's and odours at the excavation point. Soils from L8 and L9 were formed into windrows and covered immediately. The main excavations progressed southwards into grid square J9, the VOC and odour generated by the excavations had significantly reduced, also changing in character becoming slightly sour and more sulphurous in parts.

Week 11. Week Commencing 24th May 2010

Concrete slab and foundations were broken out in grid squares I7, I8 and I9. The main excavation followed this course removing contaminated marl, sands and gravels. Specific treatment beds were selected on a daily basis and processed to increase the rate of bioremediation within the soils, the beds were selected inline with the predominant wind direction. A concrete crusher, along with its associated dust suppression equipment was deployed to site to create a usable product from the fragmented concrete on site. The site was inspected by D Griffiths of the Environment Agency (24/05/2010).

3.0 Environmental Monitoring Summary

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

The detailed environmental monitoring form data can be found in Appendix B, the following chapters summarise the findings 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. 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 were observed during the monitoring rounds beyond the site boundary on:

- 04/05/10 (12:05): Very faint to faint odour control fragrance noted to the northeast and south of the site. An intermittent faint odour from the treatment beds was detected at the south western monitoring location (12:30) along with a very faint odour coming from the lagoons detected at the west monitoring location.
- 04/05/10 (17:00) Barely traceable to faint odour of suspected chlorinated phenols detected from the west through to the southwest, odour control fragrance detected to the south of the site (17:10).
- 05/05/10 (11:05): Faint odour control fragrance noted to the northeast and south of the site. At 16:55 a very faint odour from the treatment beds was detected to the south of the site.

- 06/05/10 (10:05): A faint odour from the lagoons noted to the west of the site.
- 07/05/10 (12:45): Very faint odour control fragrance noted to the southwest. Faint chlorinated phenol odours were detected to the north of the site (12:55). At 16:20 faint odour control fragrance was detected to the southeast and southwest of the site.
- 10/05/10 (10:20): Very faint to faint 50/50 (approximately) mix of odour control fragrance and solvent odours detected at the southwest monitoring location through to the northwest location. At 14:40 a barely traceable to very faint hydrocarbon odour was detected to the east and southwest of the site.
- 11/05/10 (17:25): Faint odour control fragrance detected to the south through to the northwest of the site.
- 12/05/10 (08:55): Faint odour control fragrance noted to the south of the site, very faint to faint odours from the excavations noted to the west and northwest of the site. In the afternoon (17:40) a very faint chlorinated phenol odour were detected to the south, southwest and northwest of the site.
- 13/05/10 (10:10): Faint odour control fragrance noted to the west of the site. AT 17:20 a moderate odour control fragrance mixed with the odours from the excavations was detected to the northeast of the site, to the southeast very faint odour control fragrance was detected (17:35).
- 14/05/10 (15:20): Very faint solvent odour noted beyond north western boundary..
- 18/05/10 (11:045): very faint to weak odour control fragrance noted to the southeast, west and northwest. In the afternoon (17:10) faint odour control fragrance was noted to the west.
- 20/05/10 (10:40): Very faint pesticide odour noted to the west of the site, at 16:55 unbearable odours were detected emanating from a decaying animal (badger) suspected to have been involved in a collision with a vehicle adjacent to the monitoring southwest monitoring location, SCDC notified during site visit.
- 21/05/10 (08:50) Unbearable odour caused by the above animal adjacent to the southwest monitoring location.
- 24/05/10 (16:05) Very faint to faint chlorinated phenol odour detected at the southwest and west monitoring locations, odour mitigation measures were amended to reduce the impact off site.
- 25/05/10 (11:45) Faint mixture of odour control fragrance and odour from the excavation was detected at the west and northwest monitoring locations. At 15:10 a very faint to faint

chlorinated phenol odour from the excavation was detected at the west and northwest monitoring locations.

- 26/05/10 (09:25) Very faint general site odour detected at the southwest monitoring location.
- 27/05/10 (10:55) Very faint odour control detected at the west monitoring location. At 18:08 a moderated phenol odour mixed with odour control fragrance was detected at the northeast monitoring location, a weak odour control fragrance was noted at 17:40 at the south monitoring location.
- 28/05/10 (09:10) Faint odour control fragrance mixed with traffic fumes detected at the west monitoring location, at 09:25 a faint mixture of hawthorn, odour control fragrance and phenols was detected at the northeast monitoring location, a weak mixture of odour control fragrance and odours from the treatment beds was detected at the southeast monitoring location (09:40). In the afternoon (15:40) a quite strong odour of phenols, odour control fragrance and hawthorn was detected at the northeast monitoring location.

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

The Environmental Engineers have logged the actions undertaken on site to reduce the impact of VOC/odours off site, these are noted in the environmental monitoring data in Appendix B. All mitigation measures have been in accordance with the actions stipulated in the deployment form, including some additional actions to reduce the potential of odour nuisance e.g. repositioning of mobile odour control systems.

During the twice daily environmental monitoring a Photoionisation Detector (PID) has been used to record VOC's present beyond the site boundary. During the reported period no VOC's, were detected by the PID (Limit of detection of 0.1ppm).

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

The results for the long term passive VOC monitoring carried out between 15/04/2010 and 13/05/2010 are presented in appendix C. The analysis indicates that the majority of the VOC's detected are around the baseline, except for Toluene and Tetrachloroethylene. Both of these VOC's have increased above the baseline values. The levels are considered to be within acceptable limits for published criteria. D-Limonene is also particularly elevated at the east and south east monitoring locations, this compound is a key ingredient in the odour controlling neutraliser /suppressant.

The 28 day passive VOC monitoring results have been forwarded to the HPA for review.

3.2. Dust Fibre and Particulate Emission

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

Real time airborne dust monitoring is undertaken as a minimum twice daily by an Environmental Engineer using a 'Dustmate' dust particle monitor around the site boundary as part of the environmental monitoring schedule, results are recorded in the environmental monitoring spreadsheet (Appendix B).

Dust particle measurements at each monitoring location have varied, with the higher dust readings being generally at the locations adjacent to the heavily trafficked Cambridge Road (A10). The average dust reading around the site is 103.45ug/m³, where a potential for dust has been observed, on site dust suppression methods have been deployed immediately to reduce the generation of site dust and all haul routes are continually wetted to prevent dust release. Total Suspended Particulates and PM10 dust values are being recorded as of the 26/05/2010 at the boundary monitoring locations as requested by the Environment Agency and Health Protection Agency.

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 15/04/2010 to 29/04/2010 (5 locations monitored) recorded a maximum dust deposition rate was 1.36 %EAC at the Northeast 1 monitoring location. All other locations had a maximum dust deposition rate of 1.14%EAC or less.

Dust monitoring undertaken from the 29/04/2010 to 13/05/2010 recorded a maximum dust deposition rate of 0.79% EAC at the northeast 1 monitoring location. All other locations had a maximum dust deposition rate of 0.71%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 noise levels are consistently at an acceptable low background level. There have been no exceedance's of the 80dB threshold as stipulated in

the Environmental Permit deployment document during the monitoring period. Data is recorded in the Environmental Monitoring Data spreadsheet, Appendix B.

3.5. Litter

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

4.0 Surface and Ground Water Condition

4.1 Surface Water Monitoring

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

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

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

4.2 Surface Water Sampling and Analysis

Upstream and downstream water samples from both the River Cam (Granta) and the Riddy Brook are taken on a monthly basis. The results for samples taken on 4th May 2010 are presented in Appendix F.

The surface water analysis (4th May 2010) shows traces of the contaminants of concern (Ethofumesate, Cis-1,2-Dichloroethylene, Tetrachloroethylene and Trichloroethylene) in the downstream sample taken from the Riddy Brook. The traces of the COC's present in the downstream sample taken from the Riddy Brook are consistent with baseline water quality data monitored in August 2008.

Tetrachloroethylene is present at trace levels (<3 µg/l) in both upstream and downstream Riddy Brook and River Cam samples. These trace levels of Tetrachloroethylene were present in the March 2010 samples and in the baseline data collected during the summer of 2008.

4.3. Groundwater Level Monitoring

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

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

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

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

The groundwater levels measured at locations around the 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_73, D907_76, D907_77 and D907_78 (Appendix G) illustrate the weekly groundwater levels for the reported period.

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

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 April and the 4th May 2010 are presented in Appendix F.

Site groundwater is actively pumped from around the bentonite wall and the High bay warehouse, to prevent groundwater migration towards the Riddy Brook. The concentrations of the contaminants of concern within each of the monitored boreholes have been static on site during the initial works on site.

The contaminant concentrations present in the samples taken on the 29th of April and 4th of May 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, specifically designed to treat and discharge liquid waste products derived from the production of agrichemicals (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 WWTP has been treating and discharging generally low volumes of influent with generally low contaminants levels as the influent has been solely from the groundwater control systems along the bentonite wall and high bay warehouse.

To ensure the WWTP can operate at higher volumes of influent with greater concentrations of contaminants, the initial loads of contaminated influent pumped from the remediation activities would be treated through the WWTP, re-circulated and stored on site in tanks while the treated effluent was analytically tested prior to being discharged to the River Cam (Granta).

The recirculation of treated effluent commenced on 08/04/2010, the WWTP ceased discharging to the River Cam (Granta). Initial samples were taken from the raw influent and the treated effluent from the first load of contaminated water from the remediation activities.

The second load of contaminated influent was treated and sampled on the 10/04/2010, and the third load of contaminated influent from the remediation site was sampled, treated and stored on the 12/04/2010.

The first set of laboratory results for the primary influent taken on the 08/004/2010 (report 196139, Appendix H) were received on the 13/04/2010, the analysis for the primary treated influent concluded that the stored effluent was suitable for discharge to the River Cam (Granta) under the current discharge consent conditions (consent PR1NF/1744D01). This treated effluent commenced discharged to the River Cam (Granta) on the 15/04/2010, due to the configuration of the WWTP the stored treated effluent had to pass through the entire treatment process for a second time, then on to discharge to the River Cam.

The second and third sets of laboratory results (report 196379 and 196517 respectively Appendix H) for the re-circulated and stored effluent also revealed that the WWTP had treated the loads of contaminated influent from the remediation activities sufficiently to allow it to be discharged to the River Cam (Granta) inline with the discharge consent. The second body of treated effluent commenced discharge on the 19/04/2010, the third body of stored, treated effluent was discharged on the 23/04/2010.

The treated, re-circulated, stored and finally discharged effluent analyses are denoted as T99Circ or T100Circ depending on which tank the influent had originated from, the influent samples are denoted as T99OUT and T100OUT. The laboratory analysis is presented in appendix H.

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 30/05/2010, thirteen 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. Eight characterisation samples analysed contained 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.

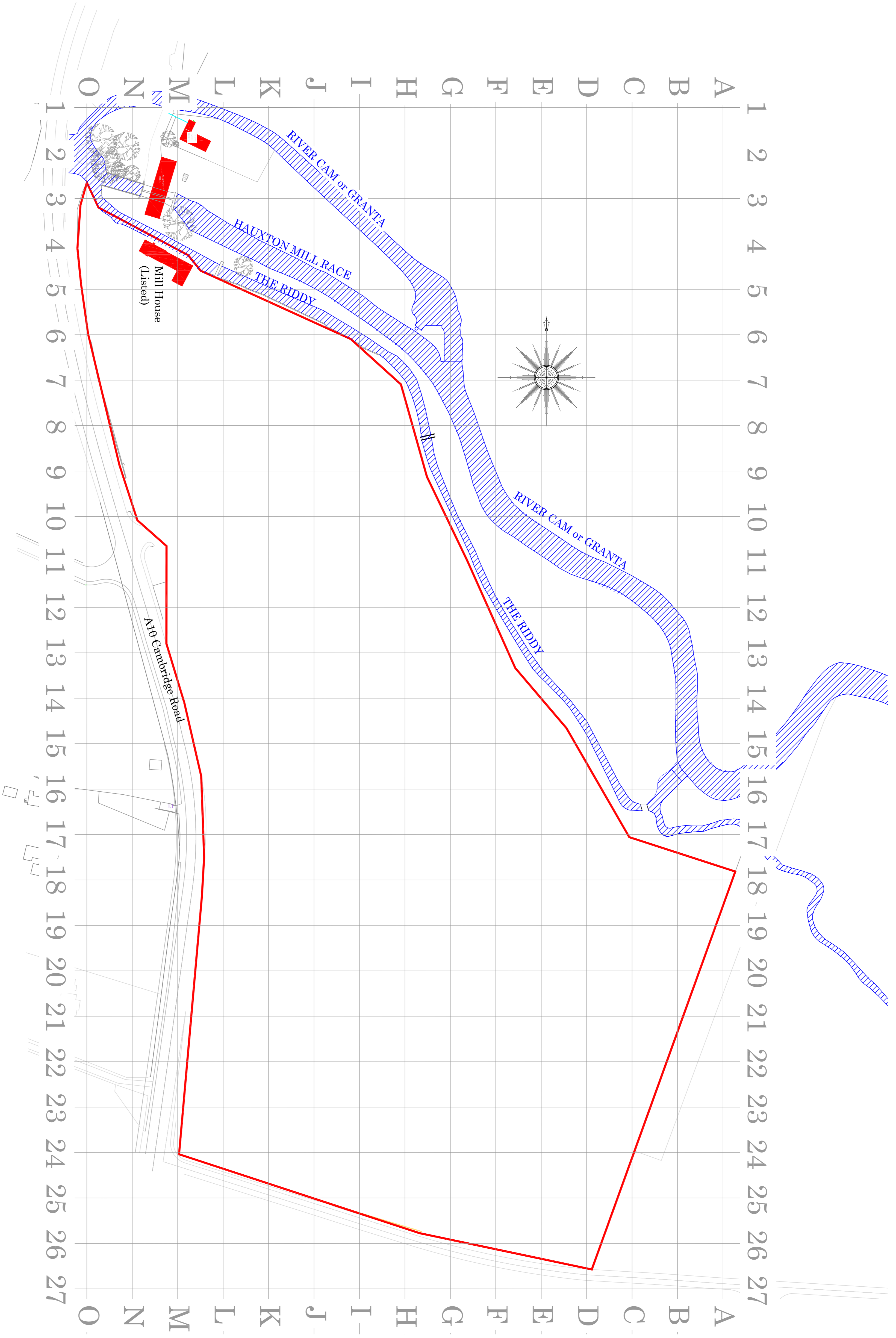
The remediation project consultants Atkins continuously review the soil characterisation analysis and report previously unidentified contaminants in accordance with condition 9, Planning Condition Document ref:S/2307/06/f Issued 10/02/2010. Where unidentified contaminants are recorded in soils, this material is quarantined on site until an appropriate risk assessment has been carried out and approved by the regulators.

Appendix A

Drawings

Legend

- Buildings to Remain
 - Water Course
 - Site Boundary
- Drawing Base : Ref
LW/HAUX-002/2006



Rev.	Description	Revised By	Date
1	FIRST ISSUE		21 April 2008

- Bristol Head Office: Tel: 01275 397600
- Sheffield Office: Tel: 01246 813289
- Hertford Office: Tel: 01438 812389
- Manchester Office: Tel: 01614 372708

Site Address:
Bayer Site
Hauxton
Cambridge






Client: Harrow Estates

Title: Blank Site Plan with Grid

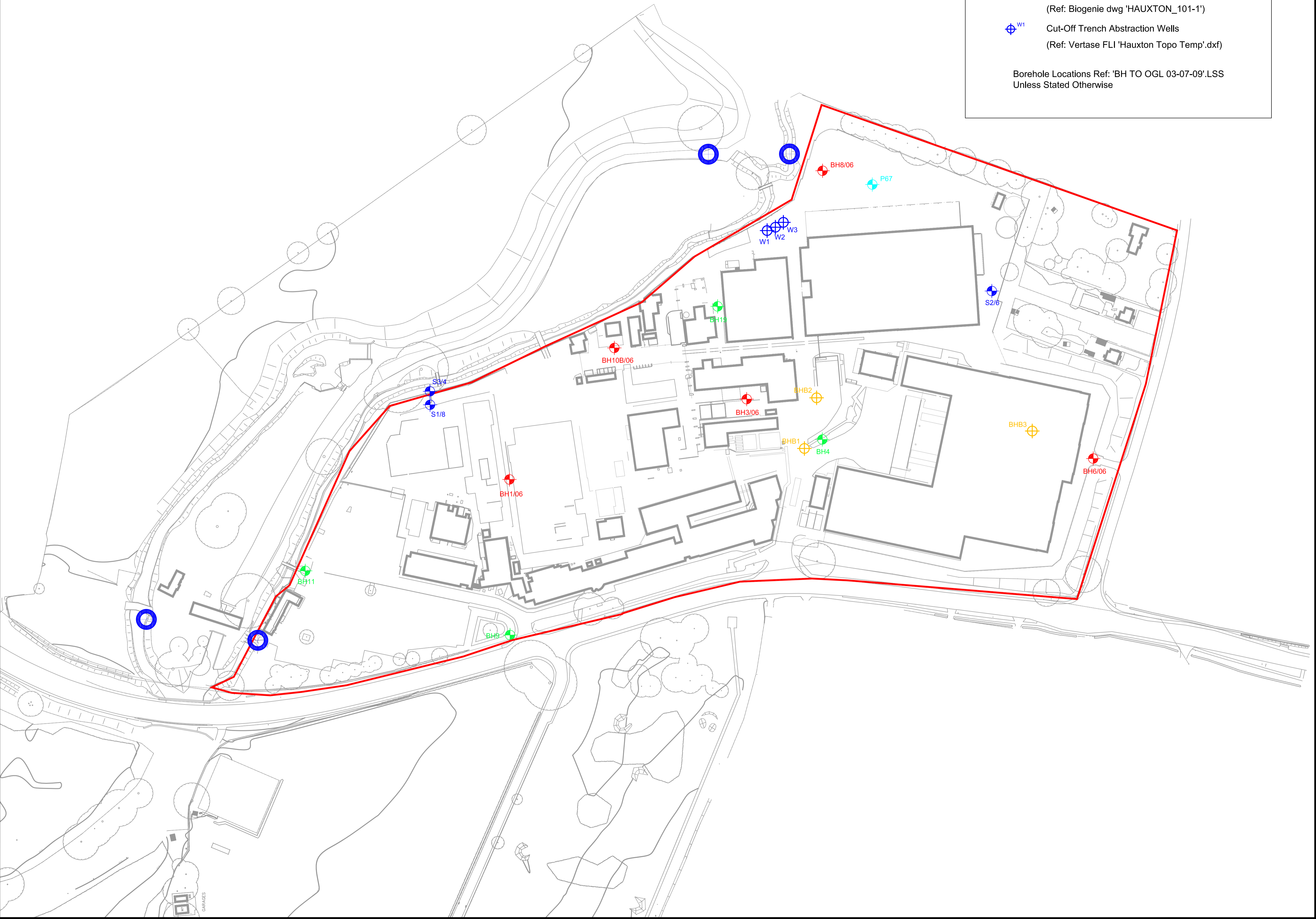
Drawn: JWH	Checked: MA	Approved: MA
Dwg:0907_07	Contact: 907BR4	Scale: 1:1000



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



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

Rev.	Description	Revised By	Date
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Vertase F.L.I.

- Bristol Head Office: Tel: 01275 397600 Fax: 01275 397601
- Sheffield Office: Tel: 01246 813289 Fax: 01246 812983
- Hertford Office: Tel: 01992 535757 Fax: 01992 535858
- Manchester Office: Tel: 01614 372708 Fax: 01614 376300

email: info@vertasefl.com
www.vertasefl.com

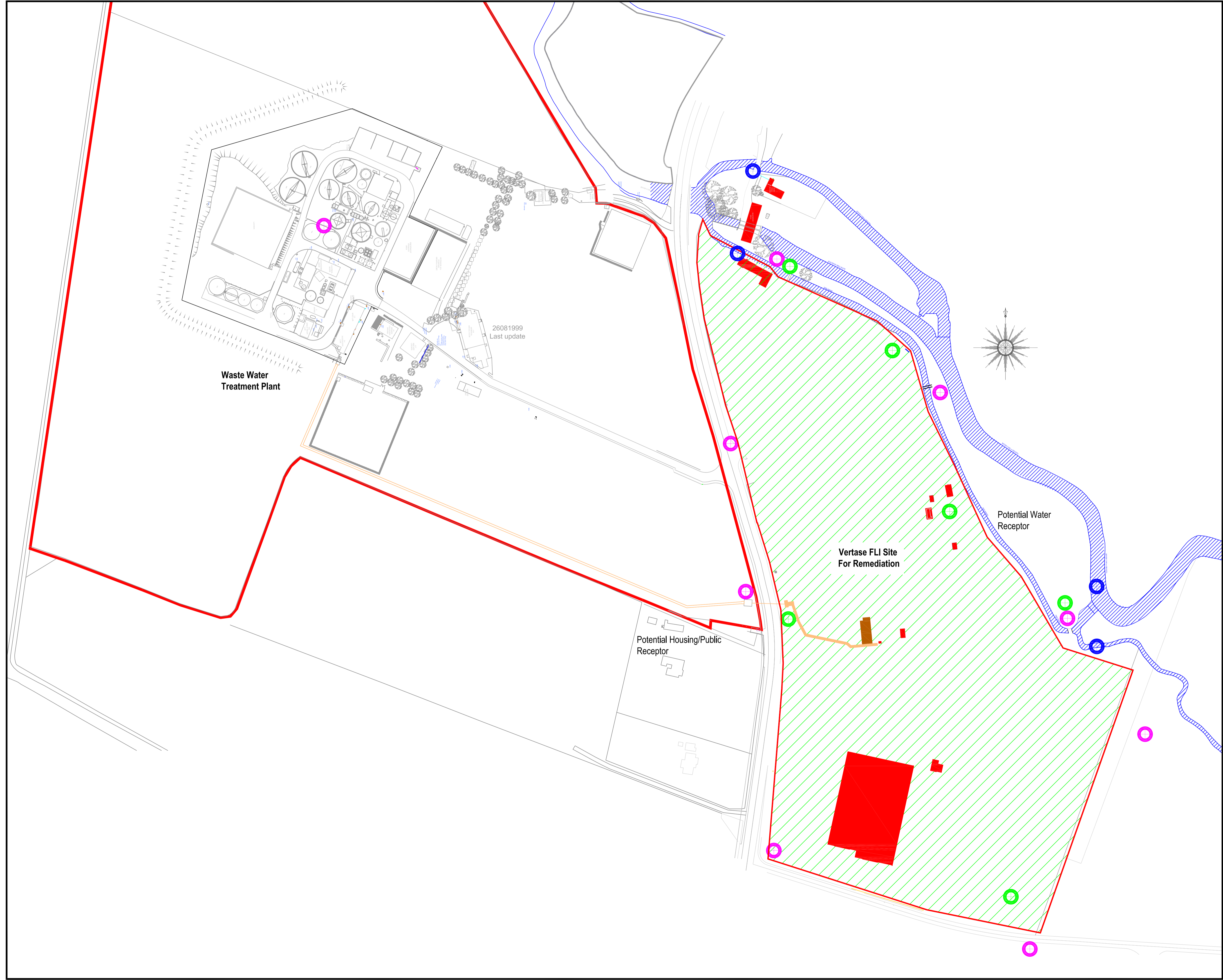
Site Address: Bayer Site Hauxton Cambridge	Rev: E
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Title: Retained Boreholes for Monitoring & Reference

Client: Harrow Estates

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

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 FIRST ISSUE	JWH	15 May 2008 21 April 2008

Rev.	Description	Revised By	Date
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Bristol Head Office: Tel: 01275 397600 Fax: 01275 397601
 Sheffield Office: Tel: 01246 813289 Fax: 01246 812983
 Hertford Office: Tel: 01992 535757 Fax: 01992 535858
 Manchester Office: Tel: 01614 372708 Fax: 01614 376300
 email: info@vertasefli.co.uk
 www.vertasefli.com

Site Address: Bayer Site, Hauxton, Cambridge
 Rev: 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

Appendix C

Long term Passive VOC Monitoring

LABORATORY ANALYSIS REPORT

**REPORT NO.
CUSTOMER**

**GHS 2724
VERTASE FLI
19 Napier Court, Balborough Links
Balborough, Sheffield
S43 3PZ**

**GRADKO LAB REF
BOOKING REF. NUMBER
DATE SAMPLES RECEIVED
JOB REF.:**

**GHSE 1088-1096
D 2610
17.05.10
907BRI/3973**

**SEMI-QUANTITATIVE ANALYSIS FOR TOP10 VOC'S
ON TENAX DIFFUSION TUBES BY GC/MS**

**Tube Number GRA 00141
Sample ID SE
Exposure Time (min) 40432**

Compounds	ng on tube	ppb in air*
D-Limonene	5890	73
Benzene, 1-methyl-4-(1-methylethenyl)-	500.81	6.19
Toluene	286.28	3.54
Tetrachloroethylene	125.34	1.55
Tetradecane	111.77	1.38
Hexadecane	105.85	1.31
Tridecane	98.83	1.22
Naphthalene	97.89	1.21
Pentadecane	95.31	1.18
.beta.-Pinene	57.32	0.71

**Tube Number GRA 04055
Sample ID E
Exposure Time (min) 40452**

Compounds	ng on tube	ppb in air*
D-Limonene	1039	13
Toluene	392.86	4.86

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

Form LQF32 Issue 2

Report Number

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Signed.....
A. Grout, Laboratory Manager

LABORATORY ANALYSIS REPORT

Tetrachloroethylene	154.12	1.90
1R-.alpha.-Pinene	84.48	1.04
p-Xylene	30.32	0.37
Acetone	13.66	0.17
Benzene	13.36	0.17
.beta.-Myrcene	11.97	0.15
Ethylbenzene	11.41	0.14
Benzene, 1-methyl-4-(1-methylethenyl)-	8.53	0.11

Tube Number GRA 02617
Sample ID NE
Exposure Time (min) 40482

Compounds	ng on tube	ppb in air*
Toluene	909.83	11.24
Tetrachloroethylene	578.79	7.15
Acetone	94.14	1.16
p-Xylene	62.25	0.77
Ethylbenzene	27.90	0.34
Benzene	27.54	0.34
Ethene, 1,2-dichloro-, (Z)-	19.05	0.24
o-Xylene	15.58	0.19
Octane	12.46	0.15
Benzene, 1-chloro-2-methyl-	9.75	0.12

Tube Number GRA 03298**
Sample ID N
Exposure Time (min) 40495

Compounds	ng on tube	ppb in air*
Toluene	574.87	7.10
Tetrachloroethylene	410.18	5.06
p-Xylene	54.19	0.67
Benzene, 1,3-dichloro-5-methyl-	24.99	0.31
Ethylbenzene	17.81	0.22

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LABORATORY ANALYSIS REPORT

Heptadecane	16.69	0.21
Phenol	13.54	0.17
Hexadecane	12.48	0.15
o-Xylene	11.97	0.15
Benzene, 1-chloro-3-methyl-	11.82	0.15

Tube Number GRA 05911
Sample ID NW
Exposure Time (min) 40516

Compounds	ng on tube	ppb in air*
Toluene	534.13	6.59
Tetrachloroethylene	448.37	5.53
Benzene, 1,3-dichloro-5-methyl-	90.21	1.11
p-Xylene	41.37	0.51
Acetone	15.88	0.20
Benzene	13.98	0.17
Ethylbenzene	12.92	0.16
o-Xylene	11.42	0.14
Trichloroethylene	11.11	0.14
Benzene, 1-chloro-2-methyl-	6.71	0.08

Tube Number GRA 05934
Sample ID W
Exposure Time (min) 40534

Compounds	ng on tube	ppb in air*
Toluene	480.03	5.92
Tetrachloroethylene	296.22	3.65
Benzene, 1,3-dichloro-5-methyl-	110.40	1.36
Acetone	76.53	0.94
p-Xylene	40.75	0.50
Benzene	23.28	0.29
Pentadecane	14.95	0.18
Ethylbenzene	13.60	0.17
o-Xylene	7.76	0.10

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LABORATORY ANALYSIS REPORT

Benzene, 1-chloro-2-methyl- 5.03 0.06

Tube Number GRA 01906
Sample ID SW
Exposure Time (min) 40557

Compounds	ng on tube	ppb in air*
Toluene	657.60	8.11
Tetrachloroethylene	546.53	6.74
Benzene, 1,4-dichloro-2-methyl-	92.75	1.14
p-Xylene	57.62	0.71
Octane	24.39	0.30
o-Xylene	23.33	0.29
Acetone	18.50	0.23
Ethylbenzene	17.31	0.21
Benzene	15.36	0.19
Tridecane	13.11	0.16

Tube Number GRA 05754
Sample ID S
Exposure Time (min) 40591

Compounds	ng on tube	ppb in air*
Toluene	138.52	1.71
Tetrachloroethylene	89.29	1.10
Benzene	16.50	0.20
p-Xylene	13.05	0.16
Acetone	10.55	0.13
o-Xylene	6.90	0.08
Ethylbenzene	4.58	0.06
Nonane	4.45	0.05
Phenol	1.63	0.02
Undecane	1.22	0.02

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LABORATORY ANALYSIS REPORT

Tube Number **GRA 00284**
Sample ID **WTW**
Exposure Time (min) **40530**

Compounds	ng on tube	ppb in air*
Acetone	90.26	1.11
Toluene	78.28	0.97
Cyclohexane, isocyanato-	33.88	0.42
p-Xylene	27.74	0.34
Ethylbenzene	25.33	0.31
Benzene	22.17	0.27
o-Xylene	19.81	0.24
Octane	17.15	0.21
Tetrachloroethylene	16.34	0.20
Decane	4.85	0.06

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

** Tube was damage on arrival.

Uptake rates: 2.00ng.ppm-1.min-1

MOU 9.8%+- (unspecified peak Toluene)- for semi-quantitative analysis.

Analyst's Signature Date of Analysis **27.05.10**

Analyst's Name **B. Stelmaszczuk** Date of Report **28.05.10**

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.

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Signed.....
A. Grout, Laboratory Manager

Appendix D

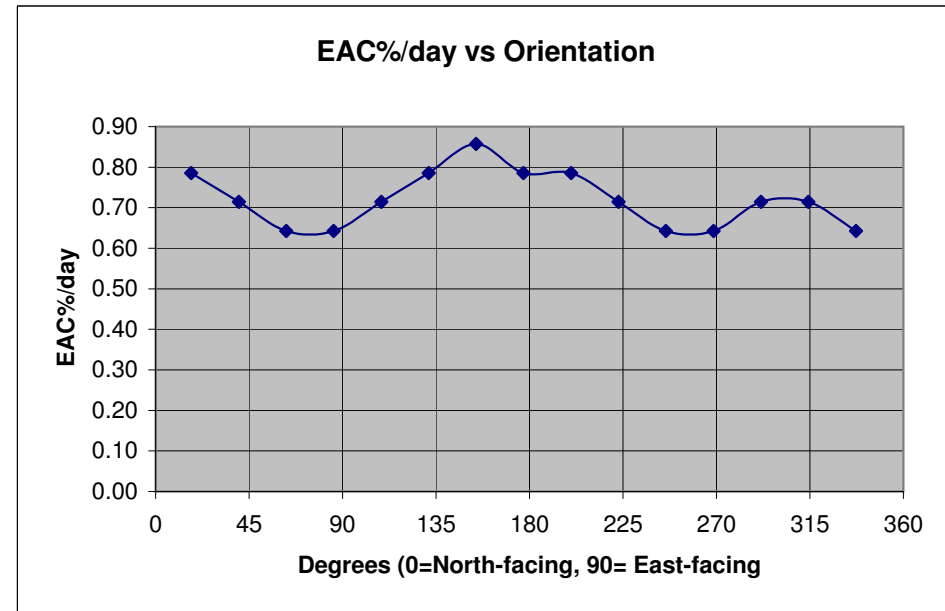
Directional Dust Monitoring

Gauge Number - North location 907BRI

Sticky Pad Data

Date On **15/04/2010** Date Off **29/04/2010** Days = 14
 Clean = **90**

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



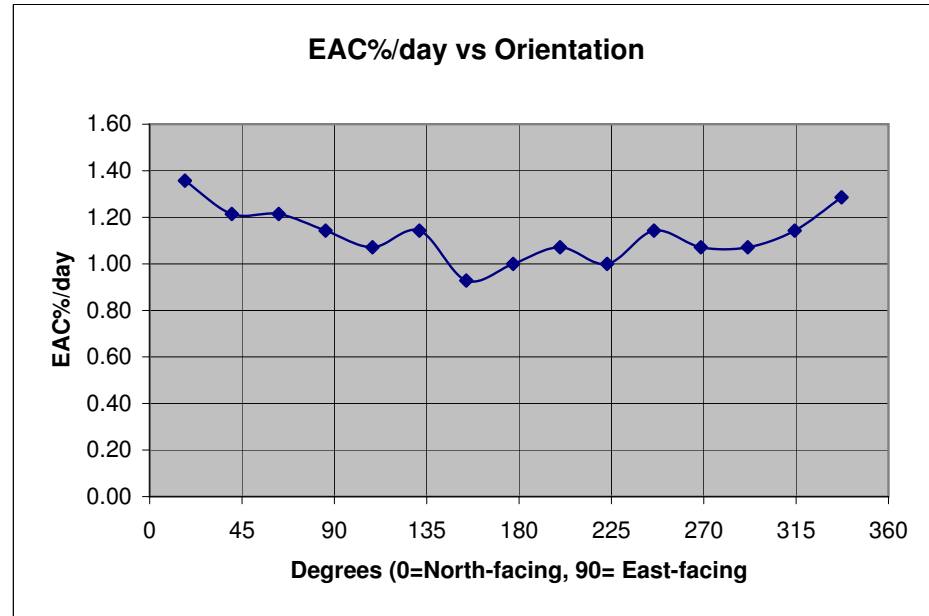
Note: Cells coloured yellow are inputs.
 The rest are either constants or calculated values.
 The calculation is based on taking readings at 40mm intervals along the sticky pad.

Gauge Number - NE1 location 907BRI

Sticky Pad Data

Date On **15/04/2010** Date Off **29/04/2010** Days = 14
 Clean = **90**

X Axis mm	Meter	Angle deg	EAC%/day
20	72	337	1.29
40	74	314	1.14
60	75	291	1.07
80	75	269	1.07
100	74	246	1.14
120	76	223	1.00
140	75	200	1.07
160	76	177	1.00
180	77	154	0.93
200	74	131	1.14
220	75	109	1.07
240	74	86	1.14
260	73	63	1.21
280	73	40	1.21
300	71	17	1.36



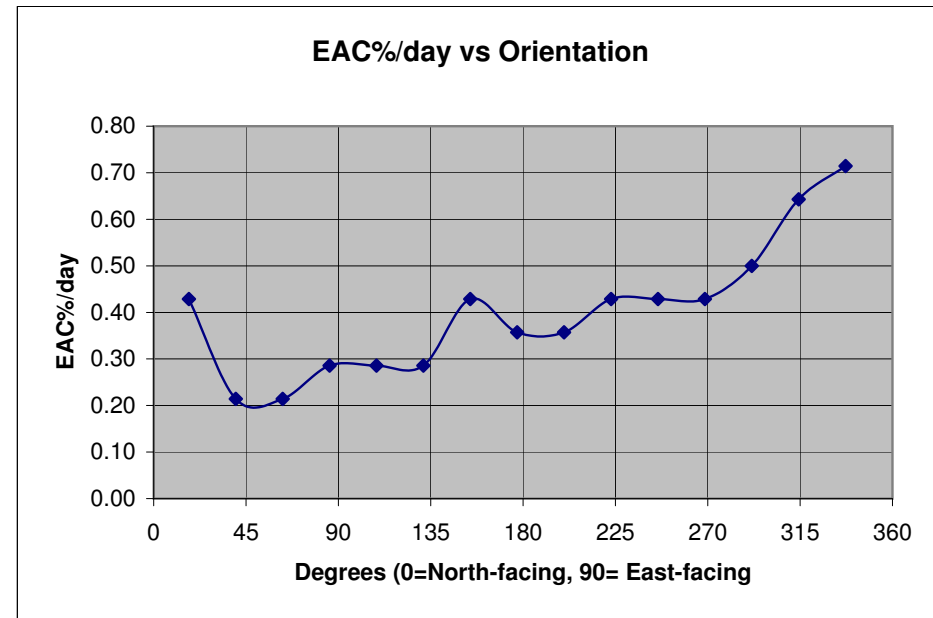
Note: Cells coloured yellow are inputs.
 The rest are either constants or calculated values.
 The calculation is based on taking readings at 40mm intervals along the sticky pad.

Gauge Number - NE2 location 907BRI

Sticky Pad Data

Date On **15/04/2010** Date Off **29/04/2010** Days = 14
 Clean = **90**

X Axis mm	Meter	Angle deg	EAC%/day
20	80	337	0.71
40	81	314	0.64
60	83	291	0.50
80	84	269	0.43
100	84	246	0.43
120	84	223	0.43
140	85	200	0.36
160	85	177	0.36
180	84	154	0.43
200	86	131	0.29
220	86	109	0.29
240	86	86	0.29
260	87	63	0.21
280	87	40	0.21
300	84	17	0.43



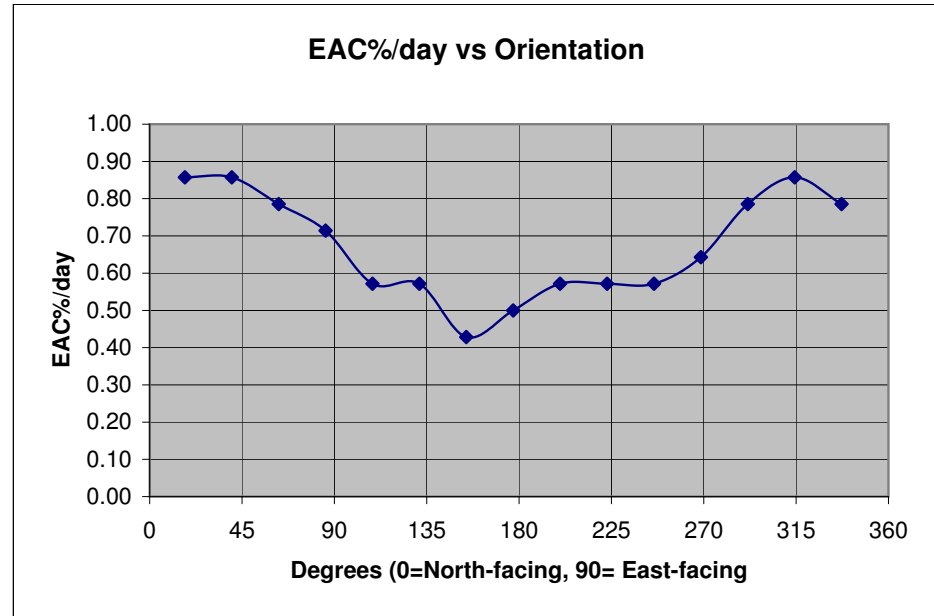
Note: Cells coloured yellow are inputs.
 The rest are either constants or calculated values.
 The calculation is based on taking readings at 40mm intervals along the sticky pad.

Gauge Number - South location 907BRI

Sticky Pad Data

Date On **15/04/2010** Date Off **29/04/2010** Days = 14
 Clean = **90**

X Axis mm	Meter	Angle deg	EAC%/day
20	79	337	0.79
40	78	314	0.86
60	79	291	0.79
80	81	269	0.64
100	82	246	0.57
120	82	223	0.57
140	82	200	0.57
160	83	177	0.50
180	84	154	0.43
200	82	131	0.57
220	82	109	0.57
240	80	86	0.71
260	79	63	0.79
280	78	40	0.86
300	78	17	0.86



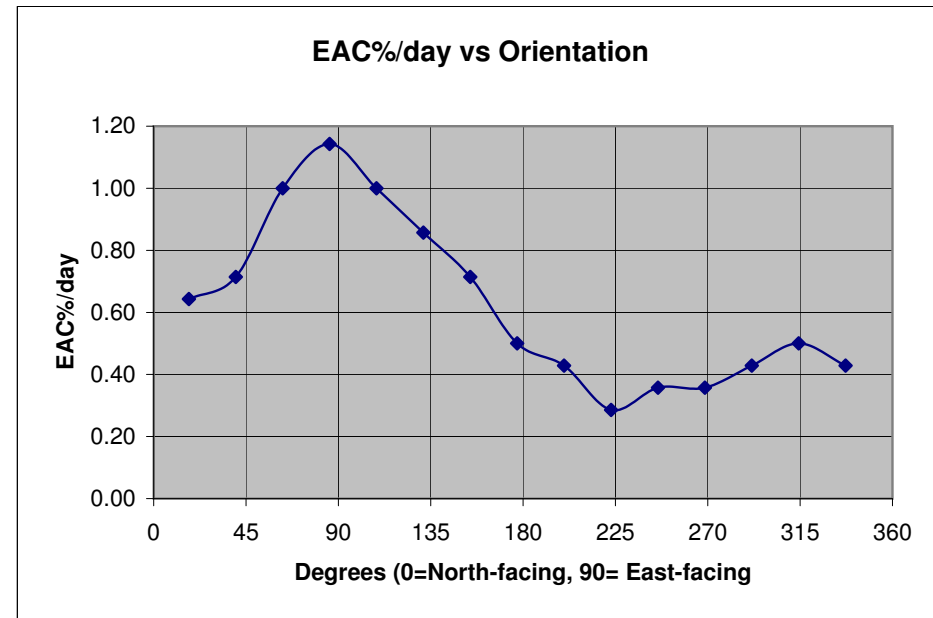
Note: Cells coloured yellow are inputs.
 The rest are either constants or calculated values.
 The calculation is based on taking readings at 40mm intervals along the sticky pad.

Gauge Number - West location 907BRI

Sticky Pad Data

Date On **15/04/2010** Date Off **29/04/2010** Days = 14
 Clean = **90**

X Axis mm	Meter	Angle deg	EAC%/day
20	84	337	0.43
40	83	314	0.50
60	84	291	0.43
80	85	269	0.36
100	85	246	0.36
120	86	223	0.29
140	84	200	0.43
160	83	177	0.50
180	80	154	0.71
200	78	131	0.86
220	76	109	1.00
240	74	86	1.14
260	76	63	1.00
280	80	40	0.71
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.

Gauge Number - North location 907BRI

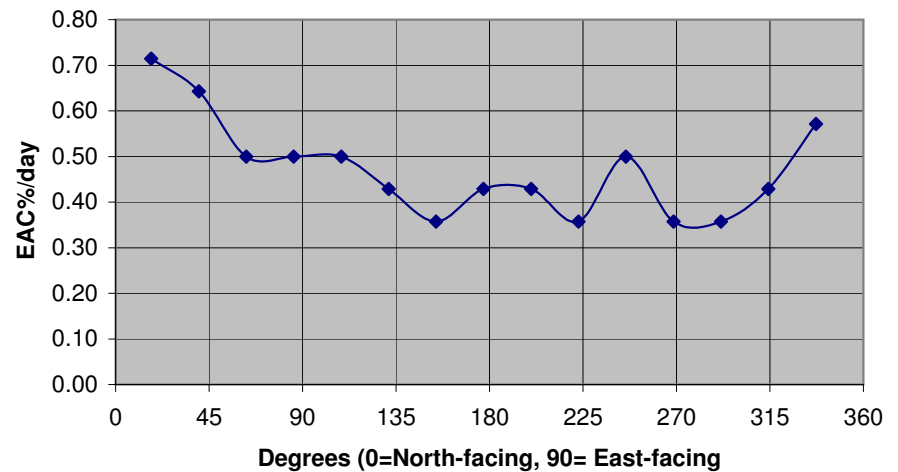
Sticky Pad Data

Date On **29/04/2010** Date Off **13/05/2010** Days = 14

Clean = **90**

X Axis mm	Meter	Angle deg	EAC%/day
20	82	337	0.57
40	84	314	0.43
60	85	291	0.36
80	85	269	0.36
100	83	246	0.50
120	85	223	0.36
140	84	200	0.43
160	84	177	0.43
180	85	154	0.36
200	84	131	0.43
220	83	109	0.50
240	83	86	0.50
260	83	63	0.50
280	81	40	0.64
300	80	17	0.71

EAC%/day vs Orientation



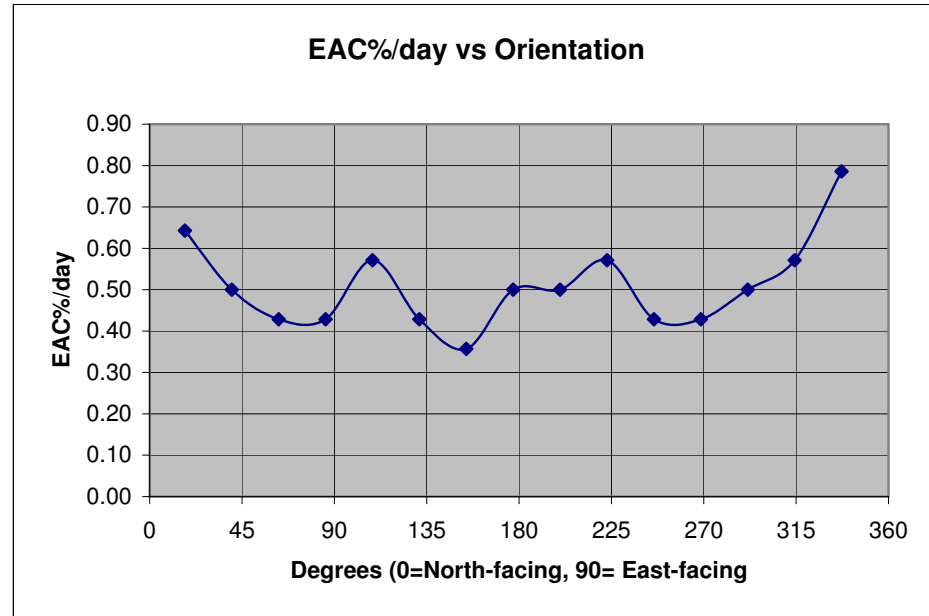
Note: Cells coloured yellow are inputs.
 The rest are either constants or calculated values.
 The calculation is based on taking readings at 40mm intervals along the sticky pad.

Gauge Number - NE1 location 907BRI

Sticky Pad Data

Date On **29/04/2010** Date Off **13/05/2010** Days = 14
 Clean = **90**

X Axis mm	Meter	Angle deg	EAC%/day
20	79	337	0.79
40	82	314	0.57
60	83	291	0.50
80	84	269	0.43
100	84	246	0.43
120	82	223	0.57
140	83	200	0.50
160	83	177	0.50
180	85	154	0.36
200	84	131	0.43
220	82	109	0.57
240	84	86	0.43
260	84	63	0.43
280	83	40	0.50
300	81	17	0.64



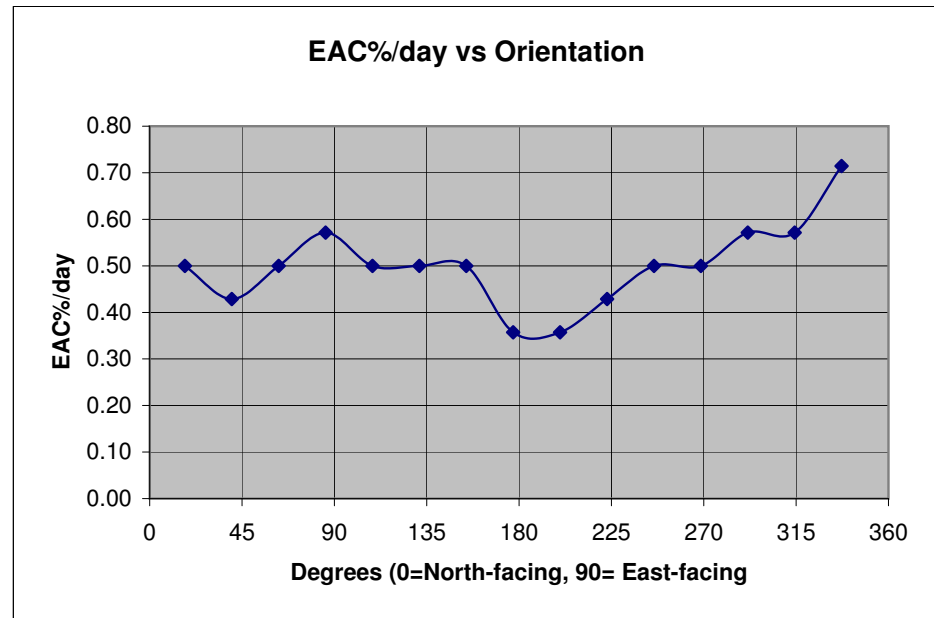
Note: Cells coloured yellow are inputs.
 The rest are either constants or calculated values.
 The calculation is based on taking readings at 40mm intervals along the sticky pad.

Gauge Number - NE2 location 907BRI

Sticky Pad Data

Date On **29/04/2010** Date Off **13/05/2010** Days = 14
 Clean = **90**

X Axis mm	Meter	Angle deg	EAC%/day
20	80	337	0.71
40	82	314	0.57
60	82	291	0.57
80	83	269	0.50
100	83	246	0.50
120	84	223	0.43
140	85	200	0.36
160	85	177	0.36
180	83	154	0.50
200	83	131	0.50
220	83	109	0.50
240	82	86	0.57
260	83	63	0.50
280	84	40	0.43
300	83	17	0.50



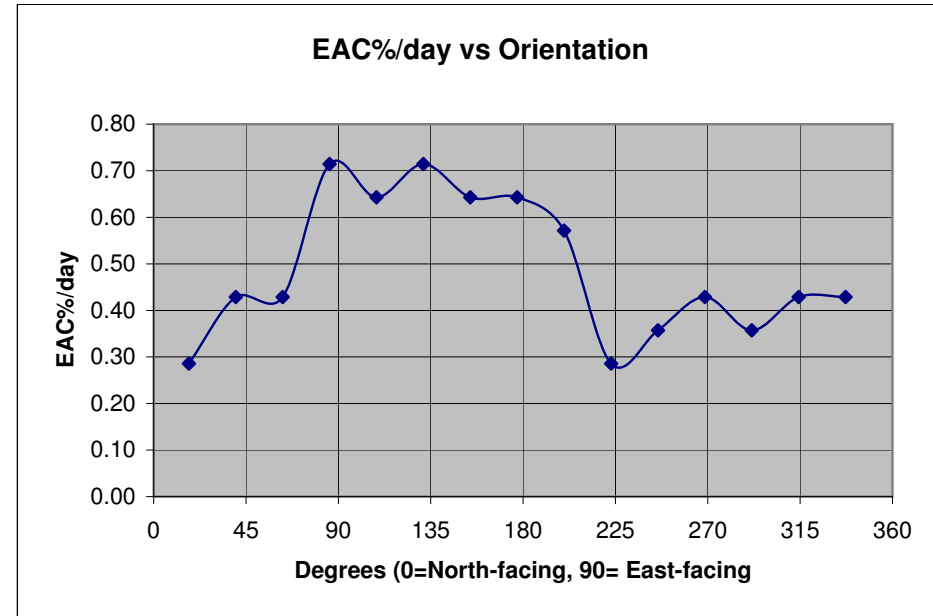
Note: Cells coloured yellow are inputs.
 The rest are either constants or calculated values.
 The calculation is based on taking readings at 40mm intervals along the sticky pad.

Gauge Number - West location 907BRI

Sticky Pad Data

Date On **29/04/2010** Date Off **13/05/2010** Days = 14
 Clean = **90**

X Axis mm	Meter	Angle deg	EAC%/day
20	84	337	0.43
40	84	314	0.43
60	85	291	0.36
80	84	269	0.43
100	85	246	0.36
120	86	223	0.29
140	82	200	0.57
160	81	177	0.64
180	81	154	0.64
200	80	131	0.71
220	81	109	0.64
240	80	86	0.71
260	84	63	0.43
280	84	40	0.43
300	86	17	0.29



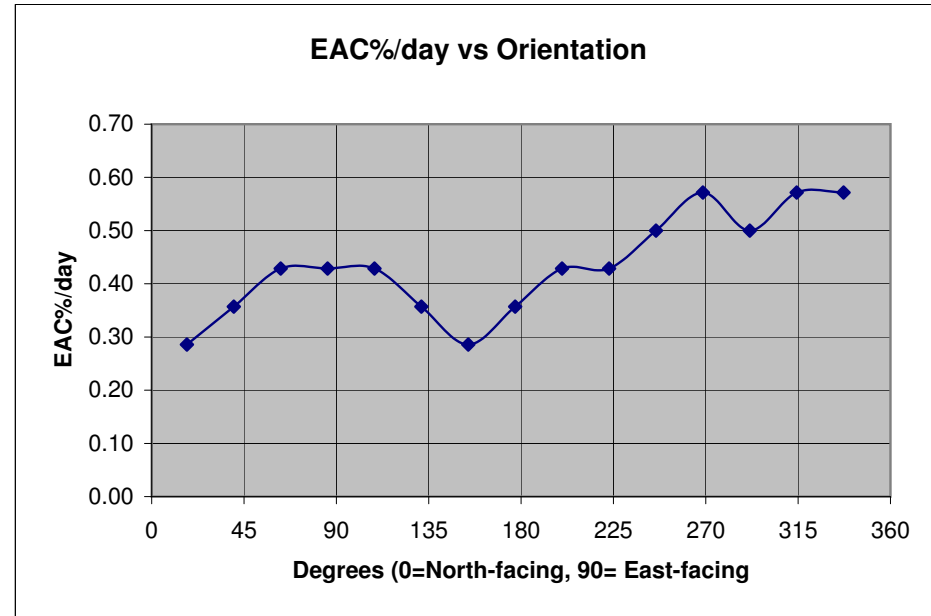
Note: Cells coloured yellow are inputs.
 The rest are either constants or calculated values.
 The calculation is based on taking readings at 40mm intervals along the sticky pad.

Gauge Number - East location 907BRI

Sticky Pad Data

Date On **29/04/2010** Date Off **13/05/2010** 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	82	269	0.57
100	83	246	0.50
120	84	223	0.43
140	84	200	0.43
160	85	177	0.36
180	86	154	0.29
200	85	131	0.36
220	84	109	0.43
240	84	86	0.43
260	84	63	0.43
280	85	40	0.36
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	P67**	BH19	BH10B/06	BH9	S1/8	BH11*	S2/6	BH1/06	BH3/06	BH8/06	BHB1	BHB2	BHB3	W1 (n)	W2	W3 (s)	Riddy 1	Riddy 2	Riddy 3	Riddy 4
04/05/2010	10.064	10.58	10.504	Blocked	11.696	11.263	10.698	11.285	10.042	10.932	11.612	11.2	10.029	9.876	10.082	Blocked	10.179	10.119	10.146	9.191	9.266	9.567	9.641
06/05/2010	10.019	10.586	10.332	Blocked	11.554	11.093	10.681	11.273	9.915	10.909	11.739	11.172	10.012	9.869	10.101	Blocked	10.165	10.092	Blocked	9.198	9.284	9.559	9.648
07/05/2010	10.02	10.59	10.334	Blocked	11.424	11.097	10.672	11.272	9.923	10.913	11.733	11.1743	10.006	9.866	10.106	Blocked	10.162	10.093	Blocked	9.198	9.284	9.56	9.648
10/05/2010	9.967	10.591	10.32	Blocked	11.384	10.924	10.652	11.235	9.888	10.861	11.695	11.111	10.02	9.844	10.059	Blocked	10.165	10.083	Blocked	9.197	9.274	9.562	9.647
11/05/2010	9.954	10.589	10.318	Blocked	11.341	10.882	10.651	11.333	9.884	10.852	11.679	11.098	10.018	9.844	10.054	Blocked	10.164	10.087	Blocked	9.197	9.283	9.562	9.646
12/05/2010	9.934	10.587	10.325	Blocked	11.269	10.843	10.644	11.308	9.883	10.831	11.66	11.061	10.019	9.839	10.038	Blocked	10.162	10.091	Blocked	9.197	9.289	9.559	9.64
13/05/2010	9.932	10.587	10.306	Blocked	11.243	10.83	10.664	11.328	9.883	10.832	11.65	11.049	10.019	9.837	10.033	Blocked	10.167	10.09	Blocked	9.197	9.284	9.56	9.649
14/05/2010	9.926	10.59	10.276	Blocked	11.201	10.799	10.669	11.315	9.898	10.815	11.653	11.031	10.019	9.827	10.019	Blocked	10.166	10.086	Blocked	9.197	9.289	9.56	9.649
18/05/2010	9.898	10.588	10.29	Blocked	Lost	10.697	10.669	11.278	9.883	10.772	11.58	10.981	10.009	9.827	10.018	Blocked	10.163	10.086	Blocked	9.196	9.294	9.56	9.649
19/05/2010	9.89	10.589	10.284	Blocked	Lost	10.689	10.659	11.276	9.883	10.773	11.571	10.98	10.002	9.82	10.01	Blocked	10.16	10.08	Blocked	9.195	9.284	9.56	9.65
20/05/2010	9.884	10.59	10.283	Blocked	Lost	10.663	10.619	11.273	9.888	10.762	11.668	10.947	10.001	9.777	9.98	Blocked	10.158	10.087	Blocked	9.195	9.284	9.56	9.649
21/05/2010	9.881	10.57	10.272	Blocked	Lost	10.65	10.599	11.282	9.873	10.754	11.552	10.93	10.003	9.779	9.979	Blocked	10.161	10.121	Blocked	9.194	9.274	9.55	9.639
24/05/2010	9.87	10.56	10.273	Blocked	Lost	10.629	10.584	11.335	9.834	10.742	11.542	10.901	9.999	9.779	9.959	Blocked	-2203.6	10.191	Blocked	9.19	9.265	9.49	9.639
25/05/2010	9.88	10.56	10.274	Blocked	Lost	10.608	10.589	11.344	9.853	10.753	11.551	10.91	10.002	9.78	9.96	Blocked	10.16	10.09	Blocked	9.193	9.264	9.49	9.639
26/05/2010	9.87	10.56	10.274	Blocked	Lost	10.617	10.589	11.388	9.853	10.743	11.531	10.9	10.001	9.77	9.93	Blocked	10.16	10.092	Blocked	9.194	9.264	9.5	9.644
27/05/2010	9.869	10.554	10.274	Blocked	Lost	10.612	10.569	11.388	9.629	10.723	11.518	10.888	9.999	9.76	9.929	Blocked	10.154	10.092	Blocked	9.196	9.267	9.51	9.649
28/05/2010	9.86	10.56	10.274	Blocked	Lost	10.611	10.569	11.384	9.633	10.733	11.521	10.89	10.002	9.76	9.93	Blocked	10.16	10.09	Blocked	9.189	9.269	9.51	9.639

Appendix F
Surface Water Analysis Reports



Scientific Analysis Laboratories

Certificate of Analysis

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

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

Report Number: 198271-1

Date of Report: 07-May-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: 30-Apr-2010
Date Analysis Started: 30-Apr-2010
Date Analysis Completed: 07-May-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



1549

Report checked
and authorised by :
Amelia McVennon
Project Manager

Issued by :
Amelia McVennon
Project Manager

Index to symbols used in 198271-1

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
162	LOD determined by matrix spike recovery
U	Analysis is UKAS accredited
N	Analysis is not accredited

Method Index

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

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Electrical Conductivity	T7	AR	10	µS/cm	N	001-007
pH	T7	AR			U	001-007
Dimefox	T16	AR	0.1	µg/l	N	001-007
Ethofumesate	T16	AR	0.1	µg/l	N	001-007
Hempa	T16	AR	0.1	µg/l	N	001-007
Schradan	T16	AR	0.1	µg/l	N	001-007
Simazine	T16	AR	0.01	µg/l	N	001-007
Dicamba	T16	AR	0.1	µg/l	N	001-007
Dichlorprop	T16	AR	0.1	µg/l	N	001-007
Phenoxy Acetic acid herbicide: MCPA	T16	AR	0.1	µg/l	N	001-007
Mecoprop	T16	AR	0.1	µg/l	N	001-007
2,4,6-Trichlorophenol	T16	AR	10	µg/l	U	001-007
2-Methyl-4,6-dinitrophenol	T16	AR	10	µg/l	N	001-007
4-Chloro-2-methylphenol	T16	AR	10	µg/l	N	001-007
Bis (2-chloroethyl) ether	T16	AR	10	µg/l	U	001-007
Phenol	T16	AR	10	µg/l	U	001-007
1,2-Dichlorobenzene	T54	AR	1	µg/l	U	001-007
1,2-Dichloroethane	T54	AR	1	µg/l	U	001-007
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l	U	001-007
Cyclohexanone	T54	AR	10	µg/l	N	001-007
Tetrachloroethylene	T54	AR	1	µg/l	U	001-007
Toluene	T54	AR	1	µg/l	U	001-007
Trichloroethylene	T54	AR	1	µg/l	U	001-007
Vinyl chloride	T54	AR	1	µg/l	U	001-007
Xylene (Total)	T54	AR	1	µg/l	U	001-007

SAL

SAL Reference: 198271											
Customer Reference: 907 BRI											
Water Analysed as Water											
Vertase Hauxton Suite											
SAL Reference					198271 001	198271 002	198271 003	198271 004	198271 005	198271 006	198271 007
Customer Sample Reference					BH1/06	S1/8	BH10B/06	BH19	BH4	S2/6	BH6/06
Determinand	Method	Test Sample	LOD	Units							
Electrical Conductivity	T7	AR	10	µS/cm	2400	2800	1100	1000	2100	730	860
pH	T7	AR			7.0	7.0	7.2	7.5	6.6	7.0	7.1

SAL Reference: 198271											
Customer Reference: 907 BRI											
Water Analysed as Water											
Vertase Hauxton OP/ON Suite											
SAL Reference					198271 001	198271 002	198271 003	198271 004	198271 005	198271 006	198271 007
Customer Sample Reference					BH1/06	S1/8	BH10B/06	BH19	BH4	S2/6	BH6/06
Determinand	Method	Test Sample	LOD	Units							
Dimefox	T16	AR	0.1	µg/l	⁽⁹⁾ <1.0	⁽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	380	810	15	44	690	⁽⁹⁾ <1.0	⁽⁹⁾ <1.0
Hempa	T16	AR	0.1	µg/l	⁽⁹⁾ <1.0	⁽⁹⁾ <1.0	8.0	5.0	⁽⁹⁾ <1.0	⁽⁹⁾ <1.0	⁽⁹⁾ <1.0
Schradan	T16	AR	0.1	µg/l	⁽⁹⁾ <1.0	56	4.0	4.0	69	⁽⁹⁾ <1.0	⁽⁹⁾ <1.0
Simazine	T16	AR	0.01	µg/l	⁽⁹⁾ <0.10	⁽⁹⁾ <0.10	⁽⁹⁾ <0.10	⁽⁹⁾ <0.10	⁽⁹⁾ <0.10	⁽⁹⁾ <0.10	⁽⁹⁾ <0.10

SAL Reference: 198271												
Customer Reference: 907 BRI												
Water Analysed as Water												
Vertase Hauxton Phenoxy Acid Herbs Suite												
SAL Reference				198271 001	198271 002	198271 003	198271 004	198271 005	198271 006	198271 007		
Customer Sample Reference				BH1/06	S1/8	BH10B/06	BH19	BH4	S2/6	BH6/06		
Determinand	Method	Test Sample	LOD	Units								
Dicamba	T16	AR	0.1	µg/l	70	19	⁽⁹⁾ <1.0	⁽⁹⁾ <1.0	14	⁽⁹⁾ <1.0	⁽⁹⁾ <1.0	
Dichlorprop	T16	AR	0.1	µg/l	140	45	⁽⁹⁾ <1.0	3.0	21	⁽⁹⁾ <1.0	⁽⁹⁾ <1.0	
Phenoxy Acetic acid herbicide: MCPA	T16	AR	0.1	µg/l	16000	690	⁽⁹⁾ <1.0	⁽⁹⁾ <1.0	33	⁽⁹⁾ <1.0	⁽⁹⁾ <1.0	
Mecoprop	T16	AR	0.1	µg/l	130	70	⁽⁹⁾ <1.0	70	300	3.0	⁽⁹⁾ <1.0	

SAL Reference: 198271											
Customer Reference: 907 BRI											
Water Analysed as Water											
Vertase Hauxton SVOC Suite											
SAL Reference					198271 001	198271 002	198271 003	198271 004	198271 005	198271 006	198271 007
Customer Sample Reference					BH1/06	S1/8	BH10B/06	BH19	BH4	S2/6	BH6/06
Determinand	Method	Test Sample	LOD	Units							
2,4,6-Trichlorophenol	T16	AR	10	µg/l	8000	9600	<10	36	21	<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	2200	6700	<10	<10	2100	<10	<10
Bis (2-chloroethyl) ether	T16	AR	10	µg/l	3900	2700	<10	180	370	<10	<10
Phenol	T16	AR	10	µg/l	⁽¹⁶²⁾ <50	⁽¹⁶²⁾ <50	⁽¹⁶²⁾ <50	⁽¹⁶²⁾ <50	⁽¹⁶²⁾ <50	⁽¹⁶²⁾ <50	⁽¹⁶²⁾ <50

SAL Reference: 198271
 Customer Reference: 907 BRI

Water Analysed as Water
 Vertase Hauxton VOC Suite

SAL Reference					198271 001	198271 002	198271 003	198271 004	198271 005	198271 006	198271 007
Customer Sample Reference					BH1/06	S1/8	BH10B/06	BH19	BH4	S2/6	BH6/06
Determinand	Method	Test Sample	LOD	Units							
1,2-Dichlorobenzene	T54	AR	1	µg/l	(9,19) <10	(19) 4200	<1	3	(9,19) <10	<1	<1
1,2-Dichloroethane	T54	AR	1	µg/l	(19) 30000	(19) 3200	<1	28	(19,9) <10	<1	<1
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l	(19) 120	(19) 7700	120	370	(19) 2400	<1	<1
Cyclohexanone	T54	AR	10	µg/l	(9,19) <100	(19,9) <100	<10	<10	(19,9) <100	<10	<10
Tetrachloroethylene	T54	AR	1	µg/l	(19) 6000	(19) 21000	51	23	(9,19) <10	<1	<1
Toluene	T54	AR	1	µg/l	(19) 17000	(19) 96000	2	<1	(19) 28	<1	<1
Trichloroethylene	T54	AR	1	µg/l	(19) 570	(19) 3600	93	20	(19) 12	<1	<1
Vinyl chloride	T54	AR	1	µg/l	(19) 160	(19) 1400	6	11	(19) 420	<1	<1
Xylene (Total)	T54	AR	1	µg/l	(19) 16	(19) 4800	<1	<1	(19) 440	<1	<1





Scientific Analysis Laboratories

Certificate of Analysis

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Hadfield Street
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Tel : 0161 874 2400
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Report Number: 198960-1

Date of Report: 13-May-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: 07-May-2010
Date Analysis Started: 07-May-2010
Date Analysis Completed: 13-May-2010

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
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Tests covered by this certificate were conducted in accordance with SAL SOPs



1549

Report checked
and authorised by :
Amelia McVennon
Project Manager

Issued by :
Amelia McVennon
Project Manager

Index to symbols used in 198960-1

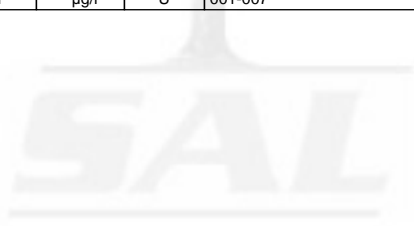
Value	Description
AR	As Received
162	LOD determined by matrix spike recovery
U	Analysis is UKAS accredited
N	Analysis is not accredited

Method Index

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

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Electrical Conductivity	T7	AR	10	µS/cm	N	001-007
pH	T7	AR			U	001-007
Dimefox	T16	AR	0.1	µg/l	N	001-007
Ethofumesate	T16	AR	0.1	µg/l	N	001-007
Hempa	T16	AR	0.1	µg/l	N	001-007
Schradan	T16	AR	0.1	µg/l	N	001-007
Simazine	T16	AR	0.01	µg/l	N	001-007
Dicamba	T16	AR	0.1	µg/l	N	001-007
Dichlorprop	T16	AR	0.1	µg/l	N	001-007
Phenoxy Acetic acid herbicide: MCPA	T16	AR	0.1	µg/l	N	001-007
Mecoprop	T16	AR	0.1	µg/l	N	001-007
2,4,6-Trichlorophenol	T16	AR	10	µg/l	U	001-007
2-Methyl-4,6-dinitrophenol	T16	AR	10	µg/l	N	001-007
4-Chloro-2-methylphenol	T16	AR	10	µg/l	N	001-007
Bis (2-chloroethyl) ether	T16	AR	10	µg/l	U	001-007
Phenol	T16	AR	10	µg/l	U	001-007
1,2-Dichlorobenzene	T54	AR	1	µg/l	U	001-007
1,2-Dichloroethane	T54	AR	1	µg/l	U	001-007
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l	U	001-007
Cyclohexanone	T54	AR	10	µg/l	N	001-007
Tetrachloroethylene	T54	AR	1	µg/l	U	001-007
Toluene	T54	AR	1	µg/l	U	001-007
Trichloroethylene	T54	AR	1	µg/l	U	001-007
Vinyl chloride	T54	AR	1	µg/l	U	001-007
Xylene (Total)	T54	AR	1	µg/l	U	001-007



SAL Reference: 198960 Customer Reference: 907 BRI Water Analysed as Water Vertase Hauxton Suite												
SAL Reference					198960 001	198960 002	198960 003	198960 004	198960 005	198960 006	198960 007	
Customer Sample Reference					S3/6	BH9	BH11	Riddy Brook U/S	Riddy Brook D/S	River Cam U/S	River Cam D/S	
Determinand	Method	Test Sample	LOD	Units								
Electrical Conductivity	T7	AR	10	µS/cm	3200	2400	670	700	700	690	670	
pH	T7	AR			7.4	7.4	7.5	7.9	8.2	8.2	8.3	

SAL Reference: 198960 Customer Reference: 907 BRI Water Analysed as Water Vertase Hauxton OP/ON Suite												
SAL Reference					198960 001	198960 002	198960 003	198960 004	198960 005	198960 006	198960 007	
Customer Sample Reference					S3/6	BH9	BH11	Riddy Brook U/S	Riddy Brook D/S	River Cam U/S	River Cam D/S	
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	2.2	18	0.6	<0.1	0.2	<0.1	<0.1	
Hempa	T16	AR	0.1	µg/l	<0.1	0.4	<0.1	<0.1	<0.1	<0.1	<0.1	
Schradan	T16	AR	0.1	µg/l	37	0.1	0.3	<0.1	<0.1	<0.1	<0.1	
Simazine	T16	AR	0.01	µg/l	<0.01	<0.01	0.09	<0.01	<0.01	<0.01	<0.01	

SAL Reference: 198960 Customer Reference: 907 BRI Water Analysed as Water Vertase Hauxton Phenoxy Acid Herbs Suite												
SAL Reference					198960 001	198960 002	198960 003	198960 004	198960 005	198960 006	198960 007	
Customer Sample Reference					S3/6	BH9	BH11	Riddy Brook U/S	Riddy Brook D/S	River Cam U/S	River Cam D/S	
Determinand	Method	Test Sample	LOD	Units								
Dicamba	T16	AR	0.1	µg/l	2.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Dichlorprop	T16	AR	0.1	µg/l	20	<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	110	27	1.0	<0.1	<0.1	<0.1	<0.1	

SAL Reference: 198960 Customer Reference: 907 BRI Water Analysed as Water Vertase Hauxton SVOC Suite												
SAL Reference					198960 001	198960 002	198960 003	198960 004	198960 005	198960 006	198960 007	
Customer Sample Reference					S3/6	BH9	BH11	Riddy Brook U/S	Riddy Brook D/S	River Cam U/S	River Cam D/S	
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	800	21	<10	<10	<10	<10	<10	
Bis (2-chloroethyl) ether	T16	AR	10	µg/l	3500	570	<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: 198960
 Customer Reference: 907 BRI

Water Analysed as Water
 Vertase Hauxton VOC Suite

SAL Reference					198960 001	198960 002	198960 003	198960 004	198960 005	198960 006	198960 007
Customer Sample Reference					S3/6	BH9	BH11	Riddy Brook U/S	Riddy Brook D/S	River Cam U/S	River Cam D/S
Determinand	Method	Test Sample	LOD	Units							
1,2-Dichlorobenzene	T54	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	T54	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l	2	2	<1	<1	4	<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	3	3	2
Toluene	T54	AR	1	µg/l	220	<1	<1	<1	<1	<1	<1
Trichloroethylene	T54	AR	1	µg/l	<1	<1	<1	<1	7	<1	<1
Vinyl chloride	T54	AR	1	µg/l	3	<1	<1	<1	<1	<1	<1
Xylene (Total)	T54	AR	1	µg/l	84	<1	<1	<1	<1	<1	<1

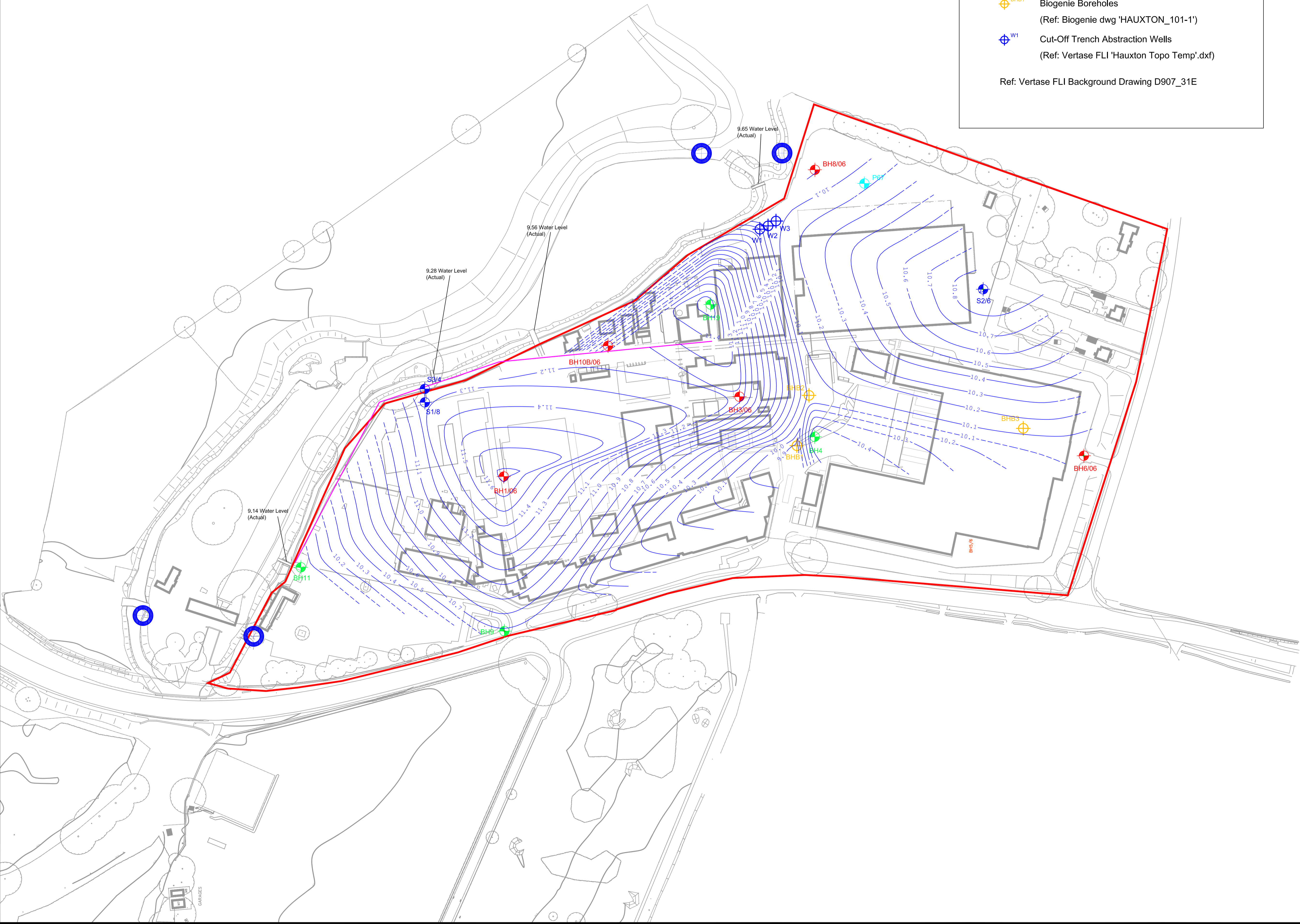


Appendix G
Groundwater Contour Plots

Legend

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

Ref: Vertase FLI Background Drawing D907_31E



Rev.	Description	Revised By	Date
	FIRST ISSUE		17-05-10

Vertase F.L.I.

- Bristol Head Office: Tel: 01275 397600 Fax: 01275 397601
- Sheffield Office: Tel: 01246 813289 Fax: 01246 812983
- Hertford Office: Tel: 01992 535757 Fax: 01992 535858
- Manchester Office: Tel: 01614 372708 Fax: 01614 376300

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

Site Address:	Rev:
Bayer Site Hauxton Cambridge	

Title: Ground Water Contours 06-05-10

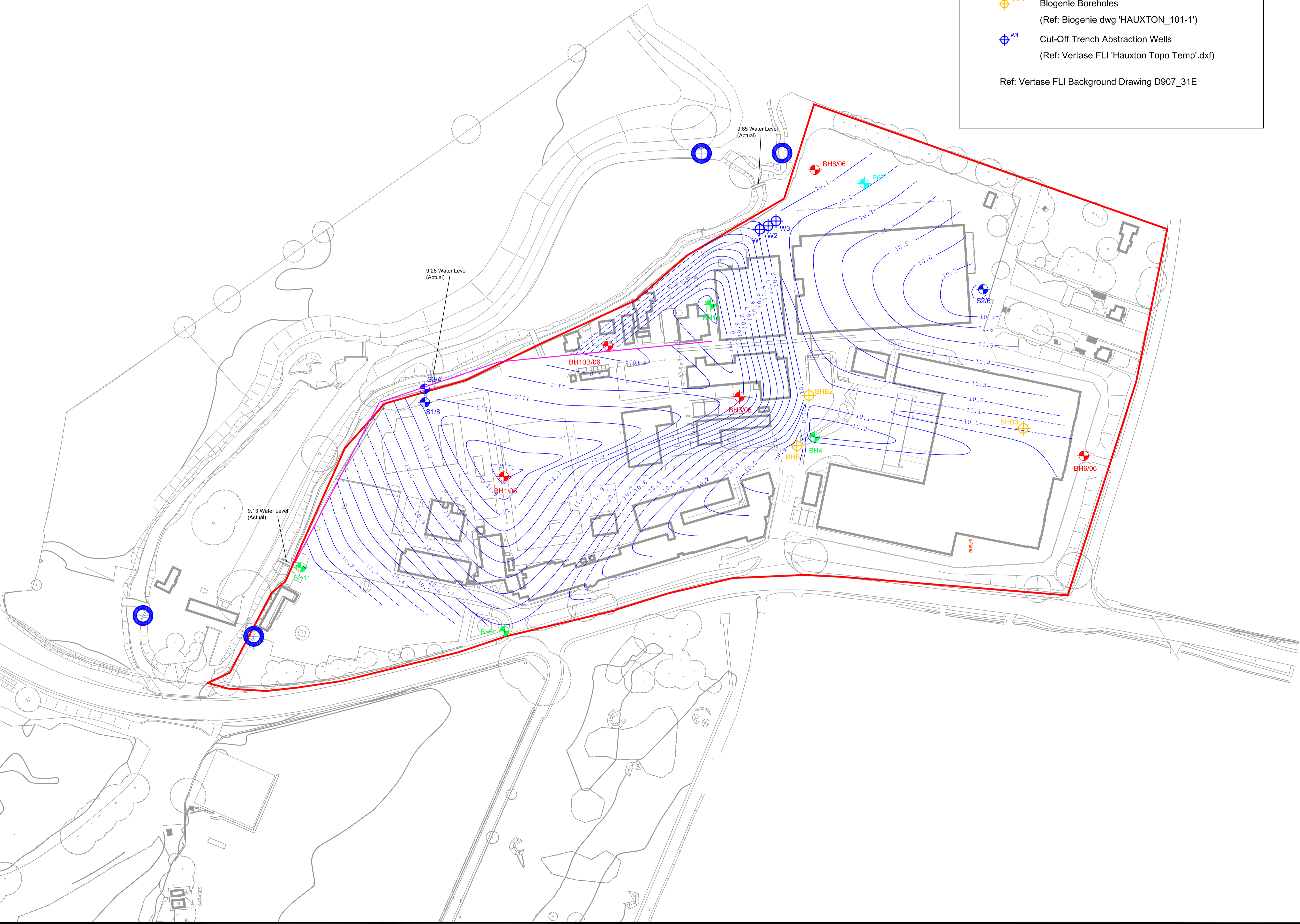
Client: Harrow Estates

Drawn: MRG	Checked: DL	Approved: MA
Dwg: D907_73	Contract: 907 BR1	Scale: 1:1000

Legend

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

Ref: Vertase FLI Background Drawing D907_31E



FIRST ISSUE	26-05-10		
Rev.	Description	Revised By	Date

Vertase F.L.I.

- Bristol Head Office: Tel: 01275 397600 Fax: 01275 397601
- Sheffield Office: Tel: 01246 813289 Fax: 01246 812983
- Hertford Office: Tel: 01992 535757 Fax: 01992 535858
- Manchester Office: Tel: 01614 372708 Fax: 01614 376300

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

Site Address: Bayer Site, Hauxton, Cambridge

Title: Ground Water Contours 13-05-10

Client: Harrow Estates

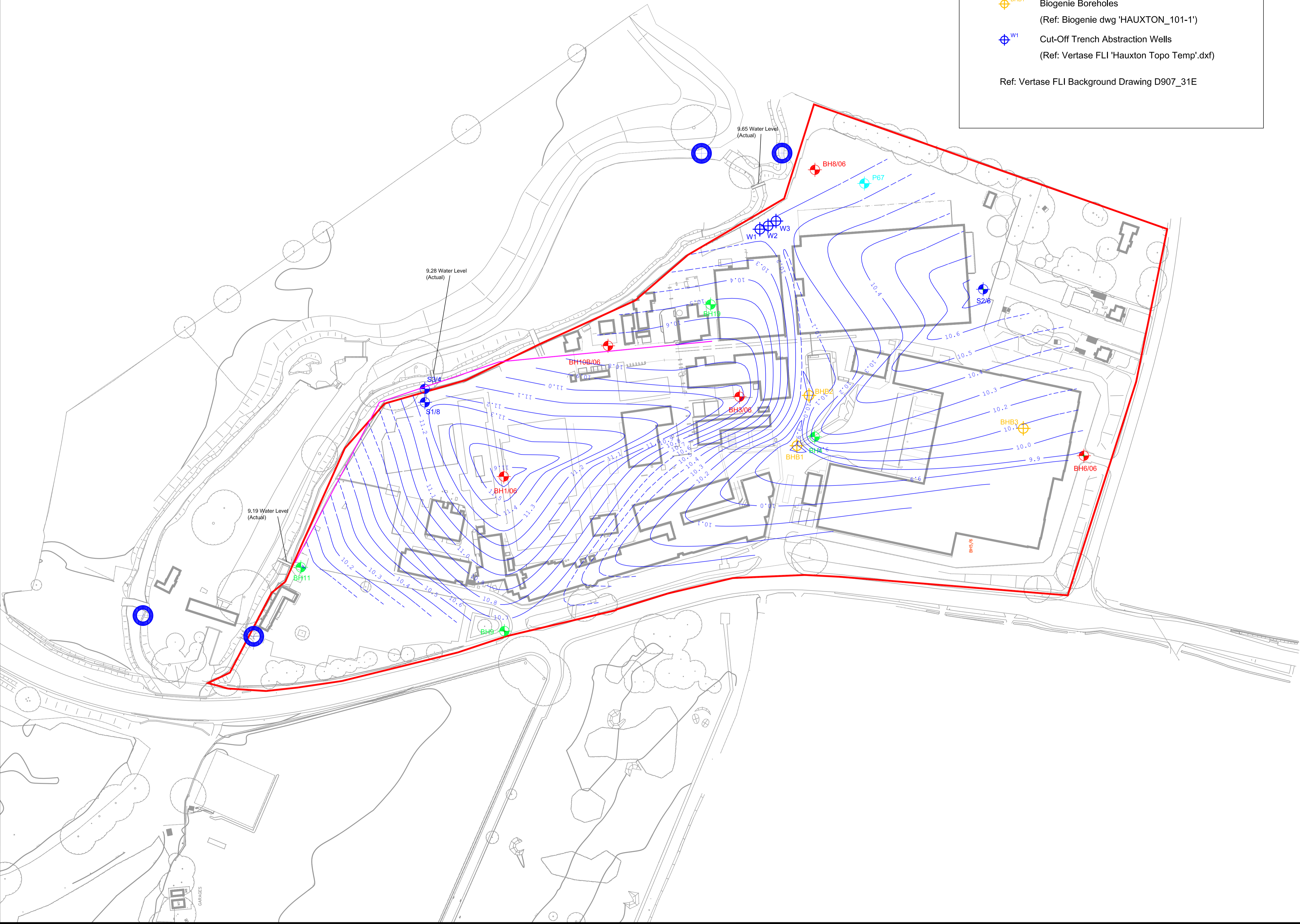
Drawn: MRG Checked: DL Approved: MA

Dwg: D907_76 Contract: 907 BR1 Scale: 1:1000

Legend

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

Ref: Vertase FLI Background Drawing D907_31E



Rev.	Description	Revised By	Date
	FIRST ISSUE		26-05-10

Vertase F.L.I.

- Bristol Head Office: Tel: 01275 397600 Fax: 01275 397601
- Sheffield Office: Tel: 01246 813289 Fax: 01246 812983
- Hertford Office: Tel: 01992 535757 Fax: 01992 535858
- Manchester Office: Tel: 01614 372708 Fax: 01614 376300

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

Site Address: Bayer Site, Hauxton, Cambridge

Title: Ground Water Contours 20-05-10

Client: Harrow Estates

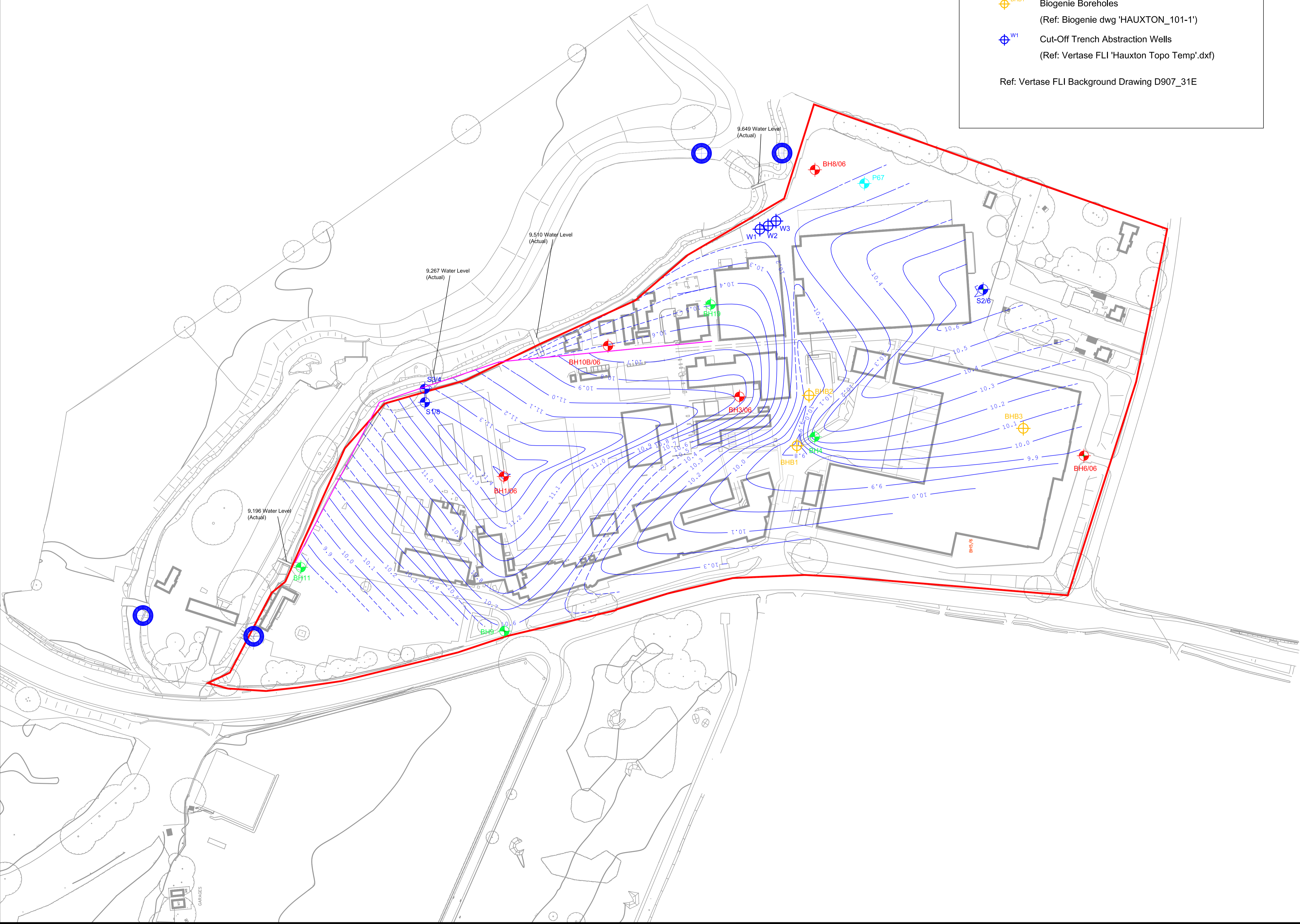
Drawn: MRG Checked: DL Approved: MA

Dwg: D907_77 Contract: 907 BR1 Scale: 1:1000

Legend

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

Ref: Vertase FLI Background Drawing D907_31E



Rev.	Description	Revised By	Date
	FIRST ISSUE		28-05-10

Vertase F.L.I.

- Bristol Head Office: Tel: 01275 397600 Fax: 01275 397601
- Sheffield Office: Tel: 01246 813289 Fax: 01246 812983
- Hertford Office: Tel: 01992 535757 Fax: 01992 535858
- Manchester Office: Tel: 01614 372708 Fax: 01614 376300

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

Site Address: Bayer Site, Hauxton, Cambridge

Title: Ground Water Contours 27-05-10

Client: Harrow Estates

Drawn: MRG Checked: DL Approved: MA

Dwg: D907_78 Contract: 907 BR1 Scale: 1:1000

Appendix H
Waste Water Treatment Plant Discharge Analysis

Water Quality Analysis of Effluent Discharge Sample

Sample Taken	Report Date	Report Number	Sample Location	Bromide mg/l	Chloride mg/l	Sulphate Ion mg/l	Suspended Solids (Total) mg/l	Ammoniacal Nitrogen mg/l	Biochemical Oxygen Demand mg/l	pH	Atrazine µg/l	Trietazine µg/l	Simazine µg/l	Total Atrazine, Trietazine and Simazine ug/l	Benazolin µg/l	2,3,6-TBA µg/l	Dicamba µg/l	Hempa µg/l	Schradan µg/l
<i>Consented Levels</i>				50	3000	5000	45	15	30	na	<i>Total of all three</i>			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	Discharge Point	<1.0	110.00	200.00	<10	<0.05	6.60	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



Scientific Analysis Laboratories

Certificate of Analysis

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Wales (No 2514788) whose address is at
Hadfield House, Hadfield Street, Manchester M16 9FE

Report Number: 193447-1

Date of Report: 17-Mar-2010

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

Customer Contact: Mr Jonathan Lewis

Customer Job Reference: 907BRI WWTW
Date Job Received at SAL: 02-Mar-2010
Date Analysis Started: 15-Mar-2010
Date Analysis Completed: 17-Mar-2010

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
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1549

Report checked
and authorised by :
Amelia McVennon
Project Manager

Issued by :
Amelia McVennon
Project Manager

Index to symbols used in 193447-1

Value	Description
AR	As Received
100	LOD determined by sample aliquot used for analysis
U	Analysis is UKAS accredited
N	Analysis is not accredited

Method Index

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

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Ammoniacal nitrogen	T4	AR	0.05	mg/l	U	001-003
Biochemical Oxygen Demand	T7	AR	3	mg/l	N	001-003
pH	T7	AR			U	001-003
Suspended Solids (Total)	T2	AR	10	mg/l	N	001
Atrazine	T16	AR	0.01	µg/l	N	001-003
Trietazine	T16	AR	0.01	µg/l	N	001-003
Benazolin	T16	AR	0.1	µg/l	N	001-003
2,3,6-TCB	T16	AR	0.1	µg/l	N	001-003
Bromide	T253	AR	0.1	mg/l	U	001-003
Chloride	T253	AR	0.2	mg/l	U	001-003
Sulphate ion	T253	AR	0.1	mg/l	U	001-003
Dicamba	T16	AR	0.1	µg/l	N	001-003
Hempa	T16	AR	0.1	µg/l	N	001-003
Schradan	T16	AR	0.1	µg/l	N	001-003
Simazine	T16	AR	0.01	µg/l	N	001-003



SAL Reference: 193447 Customer Reference: 907BRI WWTW Water Analysed as Water Miscellaneous							
SAL Reference				193447 001	193447 002	193447 003	
Customer Sample Reference				T99 OUT 192393-001	C5102 OUT 192393-002	T99 RIVER DISCHARGE OUT 192393-003	
Determinand	Method	Test Sample	LOD	Units			
Ammoniacal nitrogen	T4	AR	0.05	mg/l	0.47	<0.05	<0.05
Biochemical Oxygen Demand	T7	AR	3	mg/l	<3	<3	<3
pH	T7	AR			8.3	8.4	8.4
Suspended Solids (Total)	T2	AR	10	mg/l	<10	<10	<10

SAL Reference: 193447 Customer Reference: 907BRI WWTW Water Analysed as Water Suite A							
SAL Reference				193447 001	193447 002	193447 003	
Customer Sample Reference				T99 OUT 192393-001	C5102 OUT 192393-002	T99 RIVER DISCHARGE OUT 192393-003	
Determinand	Method	Test Sample	LOD	Units			
Atrazine	T16	AR	0.01	µg/l	4.3	0.69	⁽¹⁰⁰⁾ <0.02
Trietazine	T16	AR	0.01	µg/l	79	12	0.07

SAL Reference: 193447 Customer Reference: 907BRI WWTW Water Analysed as Water Suite B							
SAL Reference				193447 001	193447 002	193447 003	
Customer Sample Reference				T99 OUT 192393-001	C5102 OUT 192393-002	T99 RIVER DISCHARGE OUT 192393-003	
Determinand	Method	Test Sample	LOD	Units			
Benazolin	T16	AR	0.1	µg/l	14	3.1	<0.1
2,3,6-TCB	T16	AR	0.1	µg/l	40	28	0.4

SAL Reference: 193447 Customer Reference: 907BRI WWTW Water Analysed as Water Suite C							
SAL Reference				193447 001	193447 002	193447 003	
Customer Sample Reference				T99 OUT 192393-001	C5102 OUT 192393-002	T99 RIVER DISCHARGE OUT 192393-003	
Determinand	Method	Test Sample	LOD	Units			
Bromide	T253	AR	0.1	mg/l	0.4	0.3	0.3
Chloride	T253	AR	0.2	mg/l	99	76	84
Sulphate ion	T253	AR	0.1	mg/l	170	140	150
Suspended Solids (Total)	T2	AR	10	mg/l	<10	<10	<10

SAL Reference: 193447
 Customer Reference: 907BRI WWTW

Water
 Suite D Analysed as Water

SAL Reference					193447 001	193447 002	193447 003
Customer Sample Reference					T99 OUT 192393-001	C5102 OUT 192393-002	T99 RIVER DISCHARGE OUT 192393-003
Determinand	Method	Test Sample	LOD	Units			
Dicamba	T16	AR	0.1	µg/l	3.7	1.0	<0.1
Hempa	T16	AR	0.1	µg/l	3.2	6.0	<0.1
Schradan	T16	AR	0.1	µg/l	3.6	3.9	<0.1
Simazine	T16	AR	0.01	µg/l	1.4	<0.01	<0.01





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Report Number: 195429-1

Date of Report: 09-Apr-2010

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

Customer Contact: The Project Management

Customer Job Reference: 907BRI WWTW
Date Job Received at SAL: 31-Mar-2010
Date Analysis Started: 31-Mar-2010
Date Analysis Completed: 09-Apr-2010

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
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Tests covered by this certificate were conducted in accordance with SAL SOPs



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Report checked
and authorised by :
Amelia McVennon
Project Manager

Issued by :
Amelia McVennon
Project Manager

Index to symbols used in 195429-1

Value	Description
AR	As Received
W	Analysis was performed at another SAL laboratory
U	Analysis is UKAS accredited
N	Analysis is not accredited

Method Index

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

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Ammoniacal nitrogen	T4	AR	0.05	mg/l	U	001-003
Biochemical Oxygen Demand	T7	AR	3	mg/l	N	001-003
pH	T7	AR			U	001-003
Suspended Solids (Total)	T2	AR	10	mg/l	N	001
Bromide	T253	AR	0.1	mg/l	WU	001-003
Chloride	T253	AR	0.2	mg/l	WU	001-003
Sulphate ion	T253	AR	0.1	mg/l	WU	001-003
Suspended Solids (Total)	T2	AR	10	mg/l	WN	001
Atrazine	T16	AR	0.01	µg/l	N	001-003
Trietazine	T16	AR	0.01	µg/l	N	001-003
Benazolin	T16	AR	0.1	µg/l	N	001-003
2,3,6-TCB	T16	AR	0.1	µg/l	N	001-003
Dicamba	T16	AR	0.1	µg/l	N	001-003
Hempa	T16	AR	0.1	µg/l	N	001-003
Schradan	T16	AR	0.1	µg/l	N	001-003
Simazine	T16	AR	0.01	µg/l	N	001-003



SAL Reference: 195429 Customer Reference: 907BRI WWTW Water Analysed as Water Miscellaneous							
SAL Reference				195429 001	195429 002	195429 003	
Customer Sample Reference				T99 OUT	C5102 OUT	DISCHARGE OUT	
Determinand	Method	Test Sample	LOD	Units			
Ammoniacal nitrogen	T4	AR	0.05	mg/l	0.41	<0.05	<0.05
Biochemical Oxygen Demand	T7	AR	3	mg/l	5	<3	<3
pH	T7	AR			7.6	8.1	8.7
Suspended Solids (Total)	T2	AR	10	mg/l	<10	<10	<10

SAL Reference: 195429 Customer Reference: 907BRI WWTW Water Analysed as Water Suite C							
SAL Reference				195429 001	195429 002	195429 003	
Customer Sample Reference				T99 OUT	C5102 OUT	DISCHARGE OUT	
Determinand	Method	Test Sample	LOD	Units			
Bromide	T253	AR	0.1	mg/l	<1.0	<1.0	0.4
Chloride	T253	AR	0.2	mg/l	110	110	110
Sulphate ion	T253	AR	0.1	mg/l	190	180	180
Suspended Solids (Total)	T2	AR	10	mg/l	<10	<10	<10

SAL Reference: 195429 Customer Reference: 907BRI WWTW Water Analysed as Water Suite A							
SAL Reference				195429 001	195429 002	195429 003	
Customer Sample Reference				T99 OUT	C5102 OUT	DISCHARGE OUT	
Determinand	Method	Test Sample	LOD	Units			
Atrazine	T16	AR	0.01	µg/l	0.68	0.08	<0.01
Trietazine	T16	AR	0.01	µg/l	7.8	1.6	<0.01

SAL Reference: 195429 Customer Reference: 907BRI WWTW Water Analysed as Water Suite B							
SAL Reference				195429 001	195429 002	195429 003	
Customer Sample Reference				T99 OUT	C5102 OUT	DISCHARGE OUT	
Determinand	Method	Test Sample	LOD	Units			
Benazolin	T16	AR	0.1	µg/l	94	22	<0.1
2,3,6-TCB	T16	AR	0.1	µg/l	83	41	0.3

SAL Reference: 195429 Customer Reference: 907BRI WWTW Water Analysed as Water Suite D							
SAL Reference				195429 001	195429 002	195429 003	
Customer Sample Reference				T99 OUT	C5102 OUT	DISCHARGE OUT	
Determinand	Method	Test Sample	LOD	Units			
Dicamba	T16	AR	0.1	µg/l	1.6	0.4	<0.1
Hempa	T16	AR	0.1	µg/l	8.2	4.9	0.4
Schradan	T16	AR	0.1	µg/l	9.0	6.6	<0.1
Simazine	T16	AR	0.01	µg/l	1.0	<0.01	<0.01



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Hadfield House, Hadfield Street, Manchester M16 9FE

Report Number: 196139-1

Date of Report: 13-Apr-2010

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

Customer Contact: The Project Management

Customer Job Reference: 907 BRI WWTW
Date Job Received at SAL: 09-Apr-2010
Date Analysis Started: 09-Apr-2010
Date Analysis Completed: 13-Apr-2010

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
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1549

Report checked
and authorised by :
Amelia McVennon
Project Manager

Issued by :
Amelia McVennon
Project Manager

Index to symbols used in 196139-1

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

Method Index

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

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Ammoniacal nitrogen	T4	AR	0.05	mg/l	U	001-002
Biochemical Oxygen Demand	T7	AR	3	mg/l	N	001-002
pH	T7	AR			U	001-002
Suspended Solids (Total)	T2	AR	10	mg/l	N	001
Bromide	T253	AR	0.1	mg/l	WU	001-002
Chloride	T253	AR	0.2	mg/l	WU	001-002
Sulphate ion	T253	AR	0.1	mg/l	WU	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
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



SAL Reference: 196139 Customer Reference: 907 BRI WWTW Water Analysed as Water Miscellaneous							
					SAL Reference	196139 001	196139 002
					Customer Sample Reference	T99 OUT	T99 Circ
Determinand	Method	Test Sample	LOD	Units			
Ammoniacal nitrogen	T4	AR	0.05	mg/l	0.82	<0.05	
Biochemical Oxygen Demand	T7	AR	3	mg/l	<3	<3	
pH	T7	AR			7.7	8.0	
Suspended Solids (Total)	T2	AR	10	mg/l	54	<10	

SAL Reference: 196139 Customer Reference: 907 BRI WWTW Water Analysed as Water Suite C							
					SAL Reference	196139 001	196139 002
					Customer Sample Reference	T99 OUT	T99 Circ
Determinand	Method	Test Sample	LOD	Units			
Bromide	T253	AR	0.1	mg/l	⁽⁹⁾ <1.0	⁽⁹⁾ <1.0	
Chloride	T253	AR	0.2	mg/l	120	110	
Sulphate ion	T253	AR	0.1	mg/l	180	190	
Suspended Solids (Total)	T2	AR	10	mg/l	54	<10	

SAL Reference: 196139 Customer Reference: 907 BRI WWTW Water Analysed as Water Suite A							
					SAL Reference	196139 001	196139 002
					Customer Sample Reference	T99 OUT	T99 Circ
Determinand	Method	Test Sample	LOD	Units			
Atrazine	T16	AR	0.01	µg/l	0.97	<0.01	
Trietazine	T16	AR	0.01	µg/l	37	<0.01	

SAL Reference: 196139 Customer Reference: 907 BRI WWTW Water Analysed as Water Suite B							
					SAL Reference	196139 001	196139 002
					Customer Sample Reference	T99 OUT	T99 Circ
Determinand	Method	Test Sample	LOD	Units			
Benazolin	T16	AR	0.1	µg/l	85	<0.1	
2,3,6-TCB	T16	AR	0.1	µg/l	53	<0.1	

SAL Reference: 196139 Customer Reference: 907 BRI WWTW Water Analysed as Water Suite D							
					SAL Reference	196139 001	196139 002
					Customer Sample Reference	T99 OUT	T99 Circ
Determinand	Method	Test Sample	LOD	Units			
Dicamba	T16	AR	0.1	µg/l	1.6	<0.1	
Hempa	T16	AR	0.1	µg/l	8.9	2.9	
Schradan	T16	AR	0.1	µg/l	9.4	0.4	
Simazine	T16	AR	0.01	µg/l	1.7	<0.01	



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Report Number: 196379-1

Date of Report: 19-Apr-2010

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

Customer Contact: The Project Management

Customer Job Reference: 907 BRI WWTW
Date Job Received at SAL: 13-Apr-2010
Date Analysis Started: 13-Apr-2010
Date Analysis Completed: 19-Apr-2010

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
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Report checked
and authorised by :
Amelia McVennon
Project Manager

Issued by :
Amelia McVennon
Project Manager

Index to symbols used in 196379-1

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

Method Index

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

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
Suspended Solids (Total)	T2	AR	10000	µg/l	N	001
Bromide	T253	AR	100	µg/l	WU	001-002
Chloride	T253	AR	200	µg/l	WU	001-002
Sulphate ion	T253	AR	100	µg/l	WU	001-002
Suspended Solids (Total)	T2	AR	10000	µg/l	WN	001
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
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



SAL Reference: 196379 Customer Reference: 907 BRI WWTW Water Analysed as Water Miscellaneous							
					SAL Reference	196379 001	196379 002
					Customer Sample Reference	T100 OUT	T100 Circ
Determinand	Method	Test Sample	LOD	Units			
Ammoniacal nitrogen	T4	AR	50	µg/l	730	<50	
Biochemical Oxygen Demand	T7	AR	3000	µg/l	<3000	<3000	
pH	T7	AR			7.8	7.9	
Suspended Solids (Total)	T2	AR	10000	µg/l	59000	<10000	

SAL Reference: 196379 Customer Reference: 907 BRI WWTW Water Analysed as Water Suite C							
					SAL Reference	196379 001	196379 002
					Customer Sample Reference	T100 OUT	T100 Circ
Determinand	Method	Test Sample	LOD	Units			
Bromide	T253	AR	100	µg/l	⁽⁹⁾ <1000	⁽⁹⁾ <1000	
Chloride	T253	AR	200	µg/l	120000	110000	
Sulphate ion	T253	AR	100	µg/l	220000	190000	
Suspended Solids (Total)	T2	AR	10000	µg/l	59000	<10000	

SAL Reference: 196379 Customer Reference: 907 BRI WWTW Water Analysed as Water Suite A							
					SAL Reference	196379 001	196379 002
					Customer Sample Reference	T100 OUT	T100 Circ
Determinand	Method	Test Sample	LOD	Units			
Atrazine	T16	AR	0.01	µg/l	0.74	<0.01	
Trietazine	T16	AR	0.01	µg/l	15	0.01	

SAL Reference: 196379 Customer Reference: 907 BRI WWTW Water Analysed as Water Suite B							
					SAL Reference	196379 001	196379 002
					Customer Sample Reference	T100 OUT	T100 Circ
Determinand	Method	Test Sample	LOD	Units			
Benazolin	T16	AR	0.1	µg/l	140	<0.1	
2,3,6-TCB	T16	AR	0.1	µg/l	78	<0.1	

SAL Reference: 196379 Customer Reference: 907 BRI WWTW Water Analysed as Water Suite D							
					SAL Reference	196379 001	196379 002
					Customer Sample Reference	T100 OUT	T100 Circ
Determinand	Method	Test Sample	LOD	Units			
Dicamba	T16	AR	0.1	µg/l	8.4	<0.1	
Hempa	T16	AR	0.1	µg/l	10	0.9	
Schradan	T16	AR	0.1	µg/l	9.3	0.3	
Simazine	T16	AR	0.01	µg/l	0.86	<0.01	



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Hadfield House, Hadfield Street, Manchester M16 9FE

Report Number: 196517-1

Date of Report: 21-Apr-2010

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

Customer Contact: The Project Management

Customer Job Reference: 907 BRI WWTW
Date Job Received at SAL: 14-Apr-2010
Date Analysis Started: 14-Apr-2010
Date Analysis Completed: 20-Apr-2010

The results reported relate to samples received in the laboratory
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Report checked
and authorised by :
Amelia McVennon
Project Manager

Issued by :
Amelia McVennon
Project Manager

Index to symbols used in 196517-1

Value	Description
AR	As Received
9	LOD raised due to dilution of sample
162	LOD determined by matrix spike recovery
W	Analysis was performed at another SAL laboratory
U	Analysis is UKAS accredited
N	Analysis is not accredited

Method Index

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

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
Suspended Solids (Total)	T2	AR	10000	µg/l	N	001
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
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

SAL Reference: 196517 Customer Reference: 907 BRI WWTW Water Analysed as Water Suite C							
				SAL Reference		196517 001	196517 002
				Customer Sample Reference		T100 OUT	T100 Circ
Determinand	Method	Test Sample	LOD	Units			
Bromide	T253	AR	100	µg/l	(9) <1000	(9) <1000	
Chloride	T253	AR	200	µg/l	100000	110000	
Sulphate ion	T253	AR	100	µg/l	200000	200000	
Suspended Solids (Total)	T2	AR	10000	µg/l	26000	<10000	

SAL Reference: 196517 Customer Reference: 907 BRI WWTW Water Analysed as Water Miscellaneous							
				SAL Reference		196517 001	196517 002
				Customer Sample Reference		T100 OUT	T100 Circ
Determinand	Method	Test Sample	LOD	Units			
Ammoniacal nitrogen	T4	AR	50	µg/l	730	<50	
Biochemical Oxygen Demand	T7	AR	3000	µg/l	<3000	<3000	
pH	T7	AR			7.6	8.2	
Suspended Solids (Total)	T2	AR	10000	µg/l	26000	<10000	

SAL Reference: 196517 Customer Reference: 907 BRI WWTW Water Analysed as Water Suite A							
				SAL Reference		196517 001	196517 002
				Customer Sample Reference		T100 OUT	T100 Circ
Determinand	Method	Test Sample	LOD	Units			
Atrazine	T16	AR	0.01	µg/l	0.74	<0.01	
Trietazine	T16	AR	0.01	µg/l	18	<0.01	

SAL Reference: 196517 Customer Reference: 907 BRI WWTW Water Analysed as Water Suite B							
				SAL Reference		196517 001	196517 002
				Customer Sample Reference		T100 OUT	T100 Circ
Determinand	Method	Test Sample	LOD	Units			
Benazolin	T16	AR	0.1	µg/l	130	<0.1	
2,3,6-TCB	T16	AR	0.1	µg/l	77	<0.1	

SAL Reference: 196517 Customer Reference: 907 BRI WWTW Water Analysed as Water Suite D							
				SAL Reference		196517 001	196517 002
				Customer Sample Reference		T100 OUT	T100 Circ
Determinand	Method	Test Sample	LOD	Units			
Dicamba	T16	AR	0.1	µg/l	7.8	<0.1	
Hempa	T16	AR	0.1	µg/l	11	1.5	
Schradan	T16	AR	0.1	µg/l	14	⁽¹⁶²⁾ <1.0	
Simazine	T16	AR	0.01	µg/l	1.7	<0.01	



Scientific Analysis Laboratories

Certificate of Analysis

Hadfield House
Hadfield Street
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M16 9FE
Tel : 0161 874 2400
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limited company registered in England and
Wales (No 2514788) whose address is at
Hadfield House, Hadfield Street, Manchester M16 9FE

Report Number: 199291-1

Date of Report: 19-May-2010

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

Customer Contact: The Project Management

Customer Job Reference: 907 BRI WWTW
Date Job Received at SAL: 11-May-2010
Date Analysis Started: 11-May-2010
Date Analysis Completed: 19-May-2010

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
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Tests covered by this certificate were conducted in accordance with SAL SOPs



1549

Report checked
and authorised by :
Amelia McVennon
Project Manager

Issued by :
Amelia McVennon
Project Manager

Index to symbols used in 199291-1

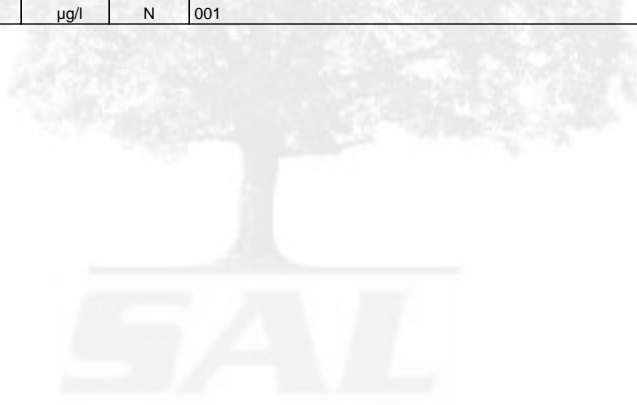
Value	Description
AR	As Received
9	LOD raised due to dilution of sample
W	Analysis was performed at another SAL laboratory
U	Analysis is UKAS accredited
N	Analysis is not accredited

Method Index

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

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Ammoniacal nitrogen	T4	AR	0.05	mg/l	U	001
Biochemical Oxygen Demand	T7	AR	3	mg/l	N	001
pH	T7	AR			U	001
Suspended Solids (Total)	T2	AR	10	mg/l	N	001
Bromide	T253	AR	0.1	mg/l	WU	001
Chloride	T253	AR	0.2	mg/l	WU	001
Sulphate ion	T253	AR	0.1	mg/l	WU	001
Atrazine	T16	AR	0.01	µg/l	N	001
Trietazine	T16	AR	0.01	µg/l	N	001
Benazolin	T16	AR	0.1	µg/l	N	001
2,3,6-TCB	T16	AR	0.1	µg/l	N	001
Dicamba	T16	AR	0.1	µg/l	N	001
Hempa	T16	AR	0.1	µg/l	N	001
Schradan	T16	AR	0.1	µg/l	N	001
Simazine	T16	AR	0.01	µg/l	N	001



SAL Reference: 199291					
Customer Reference: 907 BRI WWTW					
Water		Analysed as Water			
Miscellaneous					
SAL Reference					199291 001
Customer Sample Reference					WWTW Discharge
Determinand	Method	Test Sample	LOD	Units	
Ammoniacal nitrogen	T4	AR	0.05	mg/l	<0.05
Biochemical Oxygen Demand	T7	AR	3	mg/l	<3
pH	T7	AR			8.1
Suspended Solids (Total)	T2	AR	10	mg/l	<10

SAL Reference: 199291					
Customer Reference: 907 BRI WWTW					
Water		Analysed as Water			
Suite C					
SAL Reference					199291 001
Customer Sample Reference					WWTW Discharge
Determinand	Method	Test Sample	LOD	Units	
Bromide	T253	AR	0.1	mg/l	⁽⁹⁾ <1.0
Chloride	T253	AR	0.2	mg/l	130
Sulphate ion	T253	AR	0.1	mg/l	200

SAL Reference: 199291					
Customer Reference: 907 BRI WWTW					
Water		Analysed as Water			
Suite A					
SAL Reference					199291 001
Customer Sample Reference					WWTW Discharge
Determinand	Method	Test Sample	LOD	Units	
Atrazine	T16	AR	0.01	µg/l	<0.01
Trietazine	T16	AR	0.01	µg/l	<0.01

SAL Reference: 199291					
Customer Reference: 907 BRI WWTW					
Water		Analysed as Water			
Suite B					
SAL Reference					199291 001
Customer Sample Reference					WWTW Discharge
Determinand	Method	Test Sample	LOD	Units	
Benazolin	T16	AR	0.1	µg/l	<0.1
2,3,6-TCB	T16	AR	0.1	µg/l	<0.1

SAL Reference: 199291					
Customer Reference: 907 BRI WWTW					
Water		Analysed as Water			
Suite D					
SAL Reference					199291 001
Customer Sample Reference					WWTW Discharge
Determinand	Method	Test Sample	LOD	Units	
Dicamba	T16	AR	0.1	µg/l	<0.1
Hempa	T16	AR	0.1	µg/l	5.1
Schradan	T16	AR	0.1	µg/l	1.5
Simazine	T16	AR	0.01	µg/l	<0.01



Scientific Analysis Laboratories

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Wales (No 2514788) whose address is at
Hadfield House, Hadfield Street, Manchester M16 9FE

Report Number: Interim to 199176-1

Date of Report: 17-May-2010

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

Customer Contact: The Project Management

Customer Job Reference: 907 BRI WWTW
Date Job Received at SAL: 10-May-2010
Date Analysis Started: 10-May-2010
Date Analysis Completed:

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



1549

Report checked
and authorised by :

Issued by :
Amelia McVennon
Project Manager

Index to symbols used in Interim to 199176-1

Value	Description
AR	As Received
100	LOD determined by sample aliquot used for analysis
9	LOD raised due to dilution of sample
W	Analysis was performed at another SAL laboratory
U	Analysis is UKAS accredited
N	Analysis is not accredited

Notes

Interim report: BOD to follow

Method Index

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

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Ammoniacal nitrogen	T4	AR	0.05	mg/l	U	001-002
Biochemical Oxygen Demand	T7	AR	3	mg/l	N	001-002
pH	T7	AR			U	001-002
Suspended Solids (Total)	T2	AR	10	mg/l	N	001
Bromide	T253	AR	0.1	mg/l	WU	001-002
Chloride	T253	AR	0.2	mg/l	WU	001-002
Sulphate ion	T253	AR	0.1	mg/l	WU	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
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

SAL Reference: 199176						
Customer Reference: 907 BRI WWTW						
Water		Analysed as Water				
Miscellaneous						
SAL Reference				199176 001	199176 002	
Customer Sample Reference				T99 OUT (196931/001)	T99 Discharge	
Determinand	Method	Test Sample	LOD	Units		
Ammoniacal nitrogen	T4	AR	0.05	mg/l	0.40	<0.05
Biochemical Oxygen Demand	T7	AR	3	mg/l	-	-
pH	T7	AR			7.9	8.2
Suspended Solids (Total)	T2	AR	10	mg/l	34	<10
					34	<10

SAL Reference: 199176						
Customer Reference: 907 BRI WWTW						
Water		Analysed as Water				
Suite C						
SAL Reference				199176 001	199176 002	
Customer Sample Reference				T99 OUT (196931/001)	T99 Discharge	
Determinand	Method	Test Sample	LOD	Units		
Bromide	T253	AR	0.1	mg/l	⁽⁹⁾ <1.0	⁽⁹⁾ <1.0
Chloride	T253	AR	0.2	mg/l	110	110
Sulphate ion	T253	AR	0.1	mg/l	210	200

SAL Reference: 199176						
Customer Reference: 907 BRI WWTW						
Water		Analysed as Water				
Suite A						
SAL Reference				199176 001	199176 002	
Customer Sample Reference				T99 OUT (196931/001)	T99 Discharge	
Determinand	Method	Test Sample	LOD	Units		
Atrazine	T16	AR	0.01	µg/l	0.53	<0.01
Trietazine	T16	AR	0.01	µg/l	4.2	<0.01

SAL Reference: 199176						
Customer Reference: 907 BRI WWTW						
Water		Analysed as Water				
Suite B						
SAL Reference				199176 001	199176 002	
Customer Sample Reference				T99 OUT (196931/001)	T99 Discharge	
Determinand	Method	Test Sample	LOD	Units		
Benazolin	T16	AR	0.1	µg/l	62	⁽¹⁰⁰⁾ <0.2
2,3,6-TCB	T16	AR	0.1	µg/l	71	3.0

SAL Reference: 199176						
Customer Reference: 907 BRI WWTW						
Water		Analysed as Water				
Suite D						
SAL Reference				199176 001	199176 002	
Customer Sample Reference				T99 OUT (196931/001)	T99 Discharge	
Determinand	Method	Test Sample	LOD	Units		
Dicamba	T16	AR	0.1	µg/l	6.5	⁽¹⁰⁰⁾ <0.2
Hempa	T16	AR	0.1	µg/l	8.1	3.3
Schradan	T16	AR	0.1	µg/l	6.1	0.6
Simazine	T16	AR	0.01	µg/l	0.67	<0.01



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Fax : 0161 874 2468

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Wales (No 2514788) whose address is at
Hadfield House, Hadfield Street, Manchester M16 9FE

Report Number: 200382-1

Date of Report: 01-Jun-2010

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

Customer Contact: The Project Management

Customer Job Reference: 907BRI WWTW
Customer Purchase Order: 907BRI WWTW
Date Job Received at SAL: 20-May-2010
Date Analysis Started: 20-May-2010
Date Analysis Completed: 01-Jun-2010

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
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Tests covered by this certificate were conducted in accordance with SAL SOPs



1549

Report checked
and authorised by :
Amelia McVennon
Project Manager

Issued by :
Amelia McVennon
Project Manager

Index to symbols used in 200382-1

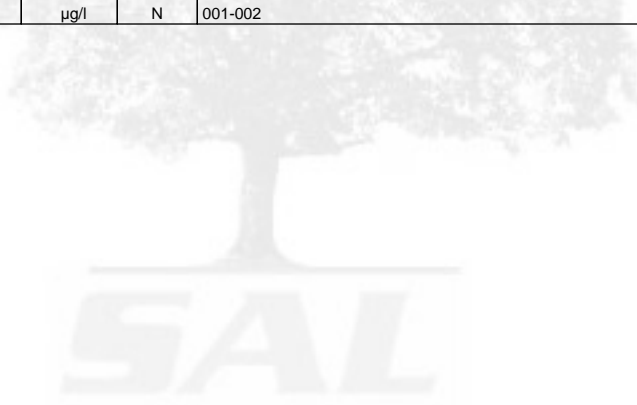
Value	Description
AR	As Received
9	LOD raised due to dilution of sample
W	Analysis was performed at another SAL laboratory
U	Analysis is UKAS accredited
N	Analysis is not accredited

Method Index

Value	Description
T4	Colorimetry
T2	Grav
T16	GC/MS
T7	Probe
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
Schradan	T16	AR	0.1	µg/l	N	001-002
Simazine	T16	AR	0.01	µg/l	N	001-002



SAL Reference: 200382
 Customer Reference: 907BRI WWTW

Water
 Suite C

Analysed as Water

SAL Reference		200382 001	200382 002			
Customer Sample Reference		Primary Carbon	Discharge			
Determinand	Method	Test Sample	LOD	Units		
Bromide	T253	AR	100	µg/l	(9) <1000	(9) <1000
Chloride	T253	AR	200	µg/l	170000	180000
Sulphate ion	T253	AR	100	µg/l	270000	280000
Suspended Solids (Total)	T2	AR	10000	µg/l	<10000	<10000



SAL Reference: 200382
 Customer Reference: 907BRI WWTW

Water
 Miscellaneous

Analysed as Water

SAL Reference		200382 001	200382 002			
Customer Sample Reference		Primary Carbon	Discharge			
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			7.9	8.0



<p>SAL Reference: 200382 Customer Reference: 907BRI WWTW</p>						
<p>Water Suite A</p>		<p>Analysed as Water</p>				
<p>SAL Reference</p>			<p>200382 001</p>		<p>200382 002</p>	
<p>Customer Sample Reference</p>			<p>Primary Carbon</p>		<p>Discharge</p>	
Determinand	Method	Test Sample	LOD	Units		
Atrazine	T16	AR	0.01	µg/l	0.08	<0.01
Trietazine	T16	AR	0.01	µg/l	3.5	0.01



<p>SAL Reference: 200382 Customer Reference: 907BRI WWTW</p> <p>Water Analysed as Water Suite B</p>						
SAL Reference				200382 001	200382 002	
Customer Sample Reference				Primary Carbon	Discharge	
Determinand	Method	Test Sample	LOD	Units		
Benazolin	T16	AR	0.1	µg/l	33	0.6
2,3,6-TCB	T16	AR	0.1	µg/l	64	5.2



SAL Reference: 200382
Customer Reference: 907BRI WWTW

Water Analysed as Water
Suite D

SAL Reference					200382 001	200382 002
Customer Sample Reference					Primary Carbon	Discharge
Determinand	Method	Test Sample	LOD	Units		
Dicamba	T16	AR	0.1	µg/l	1.2	0.2
Hempa	T16	AR	0.1	µg/l	13	6.3
Schradan	T16	AR	0.1	µg/l	4.4	3.8
Simazine	T16	AR	0.01	µg/l	0.07	<0.01





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Hadfield House, Hadfield Street, Manchester M16 9FE

Report Number: Supplement to 201487-1

Date of Report: 16-Jun-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: 01-Jun-2010
Date Analysis Started: 01-Jun-2010
Date Analysis Completed: 14-Jun-2010

The results reported relate to samples received in the laboratory
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with SAL SOPs

Report checked
and authorised by :
Mr Ross Walker
Customer Services Manager

Issued by :
Mr Ross Walker
Customer Services Manager

Index to symbols used in Supplement to 201487-1

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

Notes

Supplemental report issued to amend the sample references, at the customer's request

Method Index

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

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
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
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
Total Viable Coliforms	T34	AR			SN	001
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
Dicamba	T16	AR	0.1	µg/l	N	001
Hempa	T16	AR	0.1	µg/l	N	001
Schradan	T16	AR	0.1	µg/l	N	001
Simazine	T16	AR	0.01	µg/l	N	001

SAL Reference: 201487 Customer Reference: 907 BRI Water Analysed as Water Suite C						
SAL Reference					201487 001	201487 002
Customer Sample Reference					Discharge	Primary Carbon
Determinand	Method	Test Sample	LOD	Units		
Bromide	T253	AR	100	µg/l	(9) <1000	(9) <1000
Chloride	T253	AR	200	µg/l	130000	130000
Sulphate ion	T253	AR	100	µg/l	210000	210000
Suspended Solids (Total)	T2	AR	10000	µg/l	<10000	<10000

SAL Reference: 201487 Customer Reference: 907 BRI Water Analysed as Water Miscellaneous						
SAL Reference					201487 001	201487 002
Customer Sample Reference					Discharge	Primary Carbon
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			8.1	8.2
Total Viable Coliforms	T34	AR			Total Viable Count at 37°C after 2 days	Total Viable Count at 37°C after 2 days
					3000	8400
					Total Viable Count at 22°C after 3 days	Total Viable Count at 22°C after 3 days
					-	-
					>	>
					10000	10000

SAL Reference: 201487 Customer Reference: 907 BRI Water Analysed as Water Suite A						
SAL Reference					201487 001	201487 002
Customer Sample Reference					Discharge	Primary Carbon
Determinand	Method	Test Sample	LOD	Units		
Atrazine	T16	AR	0.01	µg/l	<0.01	0.09
Trietazine	T16	AR	0.01	µg/l	<0.01	0.93

SAL Reference: 201487 Customer Reference: 907 BRI Water Analysed as Water Suite B						
SAL Reference					201487 001	201487 002
Customer Sample Reference					Discharge	Primary Carbon
Determinand	Method	Test Sample	LOD	Units		
Benazolin	T16	AR	0.1	µg/l	<0.1	15
2,3,6-TCB	T16	AR	0.1	µg/l	1.3	43

SAL Reference: 201487
Customer Reference: 907 BRI

Water
Suite D

Analysed as Water

SAL Reference		201487 001	201487 002			
Customer Sample Reference		Discharge	Primary Carbon			
Determinand	Method	Test Sample	LOD	Units		
Dicamba	T16	AR	0.1	µg/l	<0.1	0.5
Hempa	T16	AR	0.1	µg/l	4.3	8.8
Schradan	T16	AR	0.1	µg/l	1.1	5.2
Simazine	T16	AR	0.01	µg/l	<0.01	<0.01



Appendix I
Soil Characterisation Results Summary

Results received	Reported to SCDC	Grid square	Contaminant	Concentration	Likely use/origin
12.04.2010	06.05.2010	K15	No VOC/SVOC peaks detected		
12.04.2010	06.05.2010	K16	Series of Aromatic Hydrocarbons circa C ₁₃ -C ₁₆	17 mg/kg	possible herbicide degradation products
15.04.2010	06.05.2010	J16	2(1-methylpropyl)-phenol	10.0 mg/kg	may have been used in surfactant production or may be degradation product of the 2,6-bis(1-methylpropyl)-phenol) listed below
			2,6-bis(1-methylpropyl)-phenol	100 mg/kg	used in the manufacture of specialty surfactants used as wetting agents for agrochemicals
			2,6-bis(1,1-dimethylethyl)-4-(1-methylpropyl)-phenol	6 mg/kg	used as an antioxidant and stabiliser in plastics such as polyvinyl chloride (PVC) and polyurethane. It is also used in liquids such as brake fluid and ink resins, as well as in oils used in industrial applications
			Unidentified branched aromatic alcohol, C ₁₄	240 mg/kg	possible herbicide degradation product
			Unidentified branched aromatic alcohol, C ₁₈	290 mg/kg	possible herbicide degradation product
15.04.2010	06.05.2010	K14	Phenanthrene	4.1 mg/kg	Previously Identified
			Fluoranthene	4.8 mg/kg	Previously Identified
			Pyrene	3.9 mg/kg	Previously Identified
			Benzo(b/k)Fluoranthene	2.2 mg/kg	Previously Identified
07.05.2010		K9	Dodecanoic acid (Lauric acid), isoocetyl ester	2.4 mg/kg	As for L8
			Unidentified Aliphatic Hydrocarbon circa C ₃₀	2.3 mg/kg	As for L9
07.05.2010		L8	2,4-Dichloro-o-cresol	9.0 mg/kg	potential herbicide degradation product
			Cyclo octaatomic sulphur	2.8 mg/kg	S ₈ is the most common form of sulphur in the solid state, widely used in insecticide and fungicide manufacture
			Dodecanoic acid (Lauric acid), isoocetyl ester	7.4 mg/kg	Lauric acid is the main acid in coconut oil and in palm kernel oil, is believed to have antimicrobial properties, is non-toxic and safe to handle
			Bis(2-ethylhexyl) maleate	3.8 mg/kg	used as an intermediate in hydrogenation or acetylation reactions, possibly used in agrochemicals manufacture
			Unidentified aromatic hydrocarbon containing O and Cl circa C ₇	8.4 mg/kg	likely herbicide degradation product
07.05.2010		L9	Unidentified Aliphatic Hydrocarbon circa C ₃₀	2.3 mg/kg	Not known. Due to straight line structure, degradation will be readily promoted by remediation technology.
13.05.2010		H8	No VOC/SVOC peaks detected		
13.05.2010		H9	1,2-bis(2,4,6-trichlorophenoxy)ethane	6.9 mg/kg	Possible herbicide?
			Prochloraz	9.1 mg/kg	Fungicide
			Unidentified aromatic hydrocarbon containing Cl circa C ₈	9.4 mg/kg	likely herbicide degradation product
			Unidentified aromatic amine containing Cl circa C11	2.1 mg/kg	Possible herbicide?
13.05.2010		I7	No VOC/SVOC peaks detected		
13.05.2010		I9	2,4-Dichloro-o-cresol	29.0 mg/kg	As for L8
			2,3,6-Trichlorotoluene	47.0 mg/kg	potential herbicide degradation product
			1-(2-Chloroethoxy)-2-(o-Tolyloxy)-ethane	20.0 mg/kg	potential herbicide degradation product
			Unidentified aromatic alcohol containing Cl circa C ₇	25.0 mg/kg	likely herbicide degradation product
			Unidentified aromatic hydrocarbon containing O circa C ₁₆₋₁₈	12.0 mg/kg	likely herbicide degradation product
13.05.2010		J7	No VOC/SVOC peaks detected		
20.05.2010		J8	No VOC/SVOC peaks detected		