Controlled Waters Monitoring Report

Meadow View, Wheathampstead

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1.0 Introduction

Sanctus Limited (Sanctus) has been appointed by Jarvis Homes Limited (Client) to carry out remediation works at their development called 'Meadow View' in Wheathampstead. The new development comprises private residential housing with gardens and planning permission (Reference 5/2018/1260) has been granted, subject to conditions.

The site covers a small portion of the former Murphy Chemical Works, which had been used for the production and development of pesticides. The site and surrounding area had previous phases of remediation undertaken by other parties 1990-2000, with the site area developed for a long-term groundwater remediation system comprising abstraction boreholes and reed bed treatment beds. The previous remediation scheme was operational between 2003 and 2014, when it had ceased to be effective and was discontinued.

Further remediation is required for the new development as detailed in the approved Remediation Strategy referenced below.

A groundwater monitoring programme is required to ensure no mobilisation of contaminants is caused during the remediation phase and to monitor potentially deteriorating or improving conditions. Pam Brown Associates (PBA) carried out independent monitoring between August and December 2019, to determine a baseline contaminant concentration of the groundwater and surface river water, and calculate the trigger levels used to assess future monitoring results. The Baseline Groundwater and River Quality Report was submitted to the Environment Agency on 1st April 2020.

This report presents the findings of the groundwater monitoring period of May 2020 (when remediation works commenced) to July 2020, completed independently by Pam Brown Associates (PBA) for the controlled water on the site (Both the River Lea and Groundwater). It includes the results of that monitoring, interpretation, and assessment of the detected concentrations against the baseline conditions and derived Trigger Levels.

This report should be read in conjunction with the following documents:

- Pam Brown Associates 'Phase I Desk Study and Phase II - Environmental Site Investigation.' 1302-13/MM/PB. February 2014.

- Pam Brown Associates 'Phase II – Supplementary Site Investigation'.1302-13/MM/RB. April 2017.
- Sanctus 'Treatability Report' S2503-017 Rev A. November 2019.
- Sanctus 'Remediation Strategy' S2503-002 Rev D. January 2020.
- Sanctus 'Baseline Groundwater and River Quality Report' S2503-018 Rev A. January 2020.
- Sanctus Email 'Land between The River Lea & Palmerstone Drive, Wheathampstead, Hertfordshire, AL4 8FE Planning Ref: 5/2018/1260 dated 24/04/2019' Sent 1st April 2020.

2.0 Site Overview

2.1 Site Location and Description

The site is located at: Palmerston Drive, Wheathampstead, Hertfordshire, AL4 8FE. The approximate Ordnance Survey National Grid Reference for the centre of the site is 517904mE, 214224mN.

Prior to the commencement of works, the majority of the site was occupied by an engineered 4-cell rectangular reed bed system designed for a long-term groundwater remediation scheme, which was decommissioned in 2014. The area surrounding the reed beds was heavily vegetated with brambles. The eastern and southern boundaries are occupied by mature trees that are protected by Tree Preservation Orders (TPO).

Detailed previous site history and relating background information is contained within the Sanctus Remediation Strategy S2503-002 Rev D, January 2020.

The River Lea flows along the southern boundary of the site and its floodplain extends to the east as open grassland which is used for public recreational purposes.

2.2 Geology

The British Geological Society (BGS) indicates the site is underlain by Alluvium (clay, silt, sand and gravel), with solid bedrock comprising the Holywell Nodular Chalk Formation and New Pit Chalk Formation (undifferentiated) and the Chalk Rock Member Formation.

This geology has been confirmed through previous site investigations.

2.3 Hydrogeology

The Environment Agency (EA) had classified the superficial geology as Secondary 'A' Aquifer, and the bedrock geology as a Principal Aquifer.

The site is located within a Source Protection Zone 3 (Total Catchment) source protection zone (SPZ) and SPZ1 is located approximately 0.6km to the west of the site.

Groundwater levels fall from the northern boundary to the southern boundary towards the River Lea, indicating groundwater flow to the south/southeast.

2.4 Hydrology

Topographically the site is located in a valley for the River Lea, with higher ground to the North and the River Lea located on the Southern boundary, with precipitation filtrating across the site towards the River Lea.

The River Lea also receives run-off from surrounding farm fields, in addition to receiving effluent from a number of permitted discharges upstream of the site, including the Luton Sewage Works, with associated impact on water quality.

Sanctus understands that as a result of the Luton Sewage Works, there is a twice daily discharge to the River Lea around midday and midnight that causes river levels to temporarily increase.

3.0 Controlled Water Quality Monitoring

3.1 Site Activities

During this monitoring period (27th May – 22nd July 2020) remediation works had commenced on the site in Phases 1 & 2. The work areas comprised excavation of the main central plume area to maximum permitted depth whilst maintaining 1m of 'cover' above the chalk stratum, deep injection treatment works of the deepest contamination and a 2m turnover of the site to identify any obstructions and previously unidentified contamination. The phase areas can be seen on Sanctus Drawing D2503/023/024 Rev A included in Appendix A.

3.2 Programme

All groundwater sampling and monitoring was carried out independently by Pam Brown Associates. The 3-month monitoring programme comprised a total of 5no rounds of in situ monitoring and 3no rounds of chemical analysis. The frequency and type of monitoring was agreed during the meeting with the Environment Agency in September 2019, in-situ parameters were carried out at fortnightly frequency, with additional weekly in situ monitoring implemented during works occurring below the groundwater water table.

Samples were sent for chemical analysis on a monthly basis to UKAS accredited laboratories. Details of the analysis carried out is included within Section 3.6.

The detailed programme is shown in Table 1 below.

Table 1. Monitoring Programme

Monitoring Date	Monitoring Schedule	Additional Monitoring
27-28/05/2020	In Situ monitoring & Chemical Analysis	-
04-05/06/2020	-	In Situ Monitoring*
14/06/2020	In Situ Monitoring	-
17/06/2020	Chemical Analysis	-
01/07/2020	In Situ Monitoring	-
08/07/2020	-	In Situ Monitoring*
22/07/2020	Chemical Analysis	-

Table notes - * denotes additional monitoring due to works extending below Groundwater Table

3.3

3.3 Well Network

A total of 10no monitoring wells located across the site were monitored during all monitoring rounds. The monitoring locations are shown on Sanctus Drawing D2503-027 Rev A.

The installation details / response zones for all the wells part of the monitoring network are summarised in .

Table 2. Groundwater Monitoring Wells and Response Zones

Monitoring ID	Boundary Position	Response Zone (m bgl)	Response Strata
BH301	Northern	8.00-10.00	Chalk
BH302	Northern	7.50 – 9.50	Chalk
BH303	Northern	8.00 – 10.00	Chalk
BH304	Northern	8.00 – 10.00	Chalk
BH305	Southern	5.00 – 7.00	Chalk
BH306	Southern	5.00 – 7.00	Chalk
WS102	Southern	2.00 – 6.00	Alluvium / Chalk
WS103	Southern	1.00 – 3.00	Alluvium
ASB1 (D)	Northern	Unknown, total depth ~23.6m	Unknown
BH22 (D)	Southern	13.00 – 22.00	Chalk

3.4 Groundwater & Free-Phase Level Monitoring

Groundwater sampling was undertaken using a peristaltic pump with dedicated tubing for each well, and for each monitoring round. The pump was connected to a low-flow cell within which was an AquaTroll 600 multiparameter sonde. The sonde allowed for 6no standard parameters to be monitored at each location, which included:

- pH
- Temperature (°C)
- Specific Conductivity (µS/cm)
- Dissolved Oxygen Concentration (mg/L)
- Turbidity (NTU)
- Redox Potential (mV)

The parameters were measured at regular three-minute intervals until a stable reading was achieved for each parameter. Once all parameters proved stable, a sample was retrieved from each well.

During each visit, a dual phase interface meter was used to measure the groundwater levels and thickness of Non-Aqueous Phase Liquid (NAPL) if present, as well as the depth to the base of all wells. The recorded groundwater levels and observations are detailed in Section 4.1 and 4.2 respectively.

A total of 36no samples were collected from the monitoring wells and the locations in the river across the quarterly monitoring period. Samples were collected in appropriate containers and stored in cool boxes at approximately 4°C. They were sent within a 48-hour period to two (2No.) UKAS accredited laboratories for specialist analysis of pesticides and other organic contaminants.

3.5 Surface Water Monitoring

As part of the monitoring visits, samples were retrieved from the River Lea at 2no locations, downstream (S1) and upstream (S2) of the site to provide river quality data. The river monitoring locations are shown on Sanctus Drawing D2503-027 Rev A and summarised in Table 3.

Table 2. Surface Water Monitoring Locations

Monitoring ID	Sample Location
S1	Downstream
S2	Upstream

3.6 Laboratory Chemical Analysis

The samples collected were sent to UKAS accredited laboratories (Chemtest and Concept Life Sciences) to undergo a specific suite of environmental and pesticide determinations, respectively.

The analysis suite performed in all samples included:

- pH (Chemtest);

- Monitored Natural Attenuation indicators – dissolved oxygen, redox potential, (Chemtest);
- chloride, nitrate, sulphate, manganese, iron [II], iron [III] and dissolved methane (Chemtest);
- Aliphatic and aromatic petroleum hydrocarbons (TPH by CWG) (Chemtest);
- Polyaromatic Hydrocarbons (Chemtest);
- 2-Chlorophenol (Chemtest); and
- Pesticides – 447 spp (Concept Life Sciences).

4.0 Findings

4.1 Groundwater Levels

Groundwater levels recorded across the 10No. monitoring locations on site ranged between 76.69m and 77.24m Above Ordnance Datum (AOD). The levels measured at each borehole during the monitoring rounds are detailed in Table 4 below:

Table 4. Groundwater Level Summary

Monitoring ID	Ground Level (m AOD)	Groundwater Level (m AOD)					
		27/05/20	05/06/20	17/06/20	01/07/20	08/07/20	23/07/20
BH301	80.13	77.24	77.08	77.03	77.12	77.02	77.08
BH302	80.57	77.04	76.86	76.83	76.92	76.69	76.82
BH303	80.48	77.11	76.92	76.90	76.94	76.88	76.90
BH304	80.45	77.18	77.03	76.98	77.01	76.81	76.85
BH305	78.53	77.03	76.88	76.87	76.91	76.78	76.81
BH306	78.49	77.05	76.97	76.96	77.05	76.91	76.95
WS102	78.81	77.05	76.90	76.86	76.93	76.83	76.94
WS103	78.35	77.19	77.08	77.07	77.10	76.98	77.09
ASB1 (D)	79.48	77.12	77.04	76.93	77.01	76.87	76.90
BH22 (D)	79.01	77.05	77.11	77.06	77.05	77.02	77.07

No adverse weather conditions were noted during the monitoring period. Generally, the groundwater levels are comparable to the range encountered during the baseline rounds.

4.2 Visual and Olfactory Contamination Evidence

PBA recorded that a strong hydrocarbon odour and an iridescent sheen was present in BH302 on the northern boundary, upgradient of the site, throughout the monitoring programme. Free phase NAPL was also detected at BH302 in a single monitoring round (05/06/2020). The pink tint in the groundwater which was detected during the baseline rounds was also observed throughout the monitoring period, but became fainter in some rounds.

A hydrocarbon odour was also noted in BH303 at each monitoring event.

No other olfactory or visual evidence of contamination was noted in the wells along the northern or southern boundary.

The location of visual and olfactoral evidence for contamination recorded along the northern boundary is comparable to the contamination evidence identified during the baseline rounds and further supports evidence of a residual offsite source of contamination located to the north.

4.3 In Situ Monitoring Results

PBA utilised low-flow sampling techniques with a water quality meter to obtain representative groundwater samples. The minimum and maximum stabilised parameters for the in-situ determinants are compared to the baseline and summarised in Table 5 below.

Table 5. Stabilised In Situ Monitoring Summary

Parameter	May – July Monitoring				Baseline Monitoring			
	Northern		Southern		Northern		Southern	
	Min	Max	Min	Max	Min	Max	Min	Max
pH	6.64	7.65	6.66	7.29	6.40	7.50	7.06	7.95
Temperature (˚C)	11.60	13.90	10.66	17.38	11.53	15.70	11.97	17.38
Specific Conductivity (µS/cm)	0.07	2,184	0.07	1,364.80	1.71	1,561	1.60	1,728
RDO Concentration (mg/L)	0.00	10.09	0.00	10.1	0.01	9.59	0.01	10.24
Turbidity (NTU)	0.00	949.23	0.00	3,870	5.74	2,751	0.00	10,870
OPR (mV)	-269.20	56.80	-314.40	122.50	-280	70.5	-182	196

The detailed results of the in-situ monitoring for each borehole per round are enclosed as Appendix B. Generally, in-situ results are comparable to those detected during the baseline rounds.

4.4 Groundwater Analytical Results

A summary of the dissolved concentrations of the site-specific contaminants of concern observed along the northern and southern boundaries, and compared to the baseline round concentrations is displayed in Table 6 below.

The full laboratory analytical results are presented in Appendix C and a detailed assessment of the results for individual contaminants is provided on the following page.

Table 6. Groundwater Contamination Summary

Contaminant	May – July Monitoring				Baseline Monitoring			
	Northern		Southern		Northern		Southern	
	Min	Max	Min	Max	Min	Max	Min	Max
Aliphatic >C8-C10	<0.10	<0.10	<0.10	<0.10	<0.10	24	<0.10	<0.10
Aliphatic >C10-C12	<0.10	13	<0.10	<0.10	<0.10	19	<0.10	<0.10
Aliphatic >C12-C16	<0.10	12	<0.10	<0.10	<0.10	190	<0.10	6.5
Aliphatic >C16-C21	<0.10	<0.10	<0.10	<0.10	<0.10	7.2	<0.10	<0.10
Aromatic >C8-C10	<0.10	950	<0.10	<0.10	<0.10	1,400	<0.10	71
Aromatic >C10-C12	<0.10	1,800	<0.10	<0.10	<0.10	1,300	<0.10	52
Aromatic >C12-C16	<0.10	4,900	<0.10	<0.10	<0.10	6,900	<0.10	64
Aromatic >C16-C21	<0.10	2,400	<0.10	<0.10	<0.10	2,400	<0.10	<0.10
Total Petroleum Hydrocarbons	<10	11,000	<10	<10	<10	19,000	<10	220
Naphthalene	<0.10	280	<0.10	<0.10	<0.10	800	<0.10	41
Benzo(a)pyrene	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
2- Phenylphenol	<0.10	43	<0.10	<0.10	<0.10	65	<0.10	0.40
EPTC	0.1	2.3	<0.10	<0.10	<0.10	20	<0.10	<0.10
Fenson	<0.10	30	<0.10	0.20	1.30	50	<0.10	0.30
Mecarbam	<0.10	0.70	<0.10	<0.10	<0.10	6.7	<0.10	<0.10
Total Pesticides	<0.10	276.5	<0.10	0.20	3.00	273	0.10	0.50

Table notes:

All units in µg/l.

Petroleum Hydrocarbons

Elevated concentrations of aromatic hydrocarbon fractions (C8-C10, C10-C12, C12-C16 and C16-C21) were identified in groundwater samples retrieved from wells along the northern boundary, with the highest total petroleum hydrocarbon (TPH) concentration (11,000µg/l) recorded in BH302. This concentration is lower than the maximum concentration identified on the northern boundary during the baseline round.

No concentrations of petroleum hydrocarbons above the laboratory limit of detection (LOD) were detected in samples retrieved from wells along the southern boundary.

Naphthalene

Naphthalene was reported below the LOD in 34no of 36no samples retrieved on site. Detections were noted in 2no samples from BH302, on the northern boundary.

Benzo(a)pyrene

No concentrations of Benzo[a]pyrene were detected above the LOD in any groundwater samples throughout the monitoring rounds.

2-Phenylphenol

2-Phenylphenol was only detected in samples retrieved from BH302, and 1no sample from BH303 on the northern boundary, with the highest concentration (43µg/l) detected at BH302 in the June monitoring round. This concentration is lower than the maximum concentration detected during the baseline round.

2-Phenylphenol concentrations were below the LOD in all remaining samples and wells, including along the southern boundary.

EPTC

Concentrations of EPTC were identified in all samples from wells along the northern boundary of the site. The highest concentration recorded was 2.3µg/l in a sample retrieved from BH302.

EPTC concentrations were recorded below the LOD in samples from all locations along the southern boundary.

Fenson

Fenson was detected in the majority of groundwater samples across site with the exception of WS102 and WS103 (In the south of the site). The highest concentrations were observed along the northern boundary at 30µg/l identified at BH302.

Mecarbam

Mecarbam was only detected within 2no samples retrieved from BH302 along the northern boundary, with a maximum concentration of 0.7µg/l.

Mecarbam was recorded below the LOD in all other samples retrieved from site.

Total Pesticides

Groundwater concentrations of total pesticide detections on site (Sum of a total 447 tested compounds) ranged between <0.1µg/l and 276.54µg/l. The highest detections recorded were localised to the northern site boundary, specifically BH302.

Generally, Total Pesticides were detected below the LOD in the wells located along the southern boundary. Where detections were noted, the highest concentrations were 0.2µg/l recorded in BH305 and BH306, in the May monitoring round.

4.5 Surface Water Analytical Results

A total of 6no samples were collected across 3no rounds during May 2020 to July 2020.

A summary of the dissolved concentrations of the site-specific contaminants of concern observed upstream (S2) and downstream (S1) are summarised in Table 7 below and compared to the baseline concentrations.

Table 7. Surface Water Contamination Summary

Contaminants	May - July Monitoring		Baseline Monitoring	
	Min	Max	Min	Max
Aliphatic >C8-C10	<0.10	<0.10	<0.10	<0.10
Aliphatic >C10-C12	<0.10	<0.10	<0.10	<0.10
Aliphatic >C12-C16	<0.10	<0.10	<0.10	<0.10
Aliphatic >C16-C21	<0.10	<0.10	<0.10	<0.10
Aromatic >C8-C10	<0.10	<0.10	<0.10	<0.10
Aromatic >C10-C12	<0.10	<0.10	<0.10	<0.10

Aromatic >C12-C16	<0.10	<0.10	<0.10	<0.10
Aromatic >C16-C21	<0.10	<0.10	<0.10	<0.10
Total Petroleum Hydrocarbons	<10	<10	<10	<10
Naphthalene	<0.10	<0.10	<0.10	<0.10
Benzo(a)pyrene	<0.10	<0.10	<0.10	<0.10
2- Phenylphenol	<0.10	<0.10	<0.10	0.20
EPTC	<0.10	<0.10	<0.10	<0.10
Fenson	<0.10	<0.10	<0.10	<0.10
Mecarbam	<0.10	0.10	<0.10	<0.10
Total Pesticides	<0.10	0.20	<0.10	0.20
Table notes: All units in µg/l.				

No detections of petroleum hydrocarbons or polyaromatic hydrocarbons were detected in samples retrieved from the River Lea (S1 and S2) in any monitoring round.

Mecarbam was the only pesticide of concern to be detected above the LOD, detected in a single sample upstream (S2) of the site in the July monitoring round.

A maximum concentration of Total Pesticides at 0.20 µg/l, also detected within the upstream sample, was noted in the July monitoring round.

The results of this monitoring period are comparable with the findings of the baseline rounds.

5.0 Trigger Value Assessment

Sanctus has assessed the results of the May – July monitoring period and has compared the concentrations of contaminants of concern against the trigger levels derived during the baseline monitoring rounds.

These trigger levels were proposed to the Environment Agency in an email detailing the monitoring programme and trigger levels on the 1st April 2020. The regulatory correspondence is included within Appendix D. The maximum concentrations detected during the monitoring period compared to the trigger level values are summarised in Table 8 below.

Table 8. Trigger Level Values for Contaminants of Concern

Contaminant	Southern Boundary (BH22D, WS102, WS103, BH305, & WS306)			River Lea (S1 & S2)		
	Max DC (µg/l)	Trigger 1	Trigger 2	Max DC (µg/l)	Trigger 1	Trigger 2
Aliphatic >C8-C10	<0.10	0.12	0.14	<0.10	0.11	0.12
Aliphatic >C10-C12	<0.10	0.12	0.14	<0.10	0.11	0.12
Aliphatic >C12-C16	<0.10	8.03	8.83	<0.10	0.11	0.12
Aliphatic >C16-C21	<0.10	0.12	0.14	<0.10	0.11	0.12
Aromatic >C8-C10	<0.10	87.7	96.5	<0.10	0.11	0.12
Aromatic >C10-C12	<0.10	64.2	70.6	<0.10	0.11	0.12
Aromatic >C12-C16	<0.10	79.0	86.9	<0.10	0.11	0.12
Aromatic >C16-C21	<0.10	0.12	0.14	<0.10	0.11	0.12
Total Petroleum Hydrocarbons	<10	272	299	<10	11.00	12.00
Naphthalene	<0.10	53.3	58.6	<0.10	0.11	0.12
Benzo(a)pyrene	<0.10	0.13	0.14	<0.10	0.11	0.12
2- Phenylphenol	<0.10	0.49	0.54	<0.10	0.11	0.12
EPTC	<0.10	0.12	0.14	<0.10	0.11	0.12
Fenson	0.20	0.37	0.41	<0.10	1.76	1.92
Mecarbam	<0.10	0.12	0.14	0.10*	0.11	0.12
Total Pesticides	0.20	0.62	0.68	0.20*	0.22	0.24
Turbidity	3870	6738	7350	Not recorded	-	-

Table notes:

* Recorded upstream of the site

All units in µg/l, except Turbidity reported in NTU Units. Max DC denotes maximum detected concentration from May to July monitoring period

The Groundwater and River Water Trigger Levels comprise a combination of in-situ observations i.e. free phase presence / absence and laboratory determinations of dissolved phase concentrations to indicate if site works are potentially going to cause pollution.

As detailed in Table 8, no contaminants of concern exceeded the trigger levels for the Southern boundary wells or the surface water samples from the River Lea, with the majority of contaminants returning below the laboratory LOD.

Fenson was the only pesticide of concern to be noted above the LOD in the southern boundary wells, but has been detected at concentrations below the trigger levels. This detection is less than the maximum recorded concentrations identified during the baseline rounds.

Mecarbam was the only pesticide of concern to be detected above the LOD within the River Lea samples. This detection does not exceed the trigger levels and was noted in the upstream sample of the site, and has not been detected within the downstream sample, therefore Sanctus does not consider this to be attributed from the site works.

Turbidity appeared to be variable between locations and monitoring rounds with no obvious trends, and no increased values noted during works below the groundwater table.

6.0 Conclusion

Pam Brown Associates carried (PBA) out the quarterly monitoring of the onsite wells and surface water samples of the River Lea between May and July 2020, during which remediation was being undertaken on site. The monitoring comprised 5no rounds of In Situ monitoring, and 3no monthly chemical analysis.

Within the groundwater, the highest detected concentrations of contaminants were located along the northern boundary, predominantly at BH302 and to a lesser extent BH303. Fewer contaminants and lower dissolved contaminant concentrations were observed in locations on the southern boundary, with the majority of samples returning all concentrations below the LOD. The concentrations and distribution of detected contaminants are comparable with the findings of the baseline monitoring period.

Within the surface water samples retrieved from the River Lea, the majority of contaminants of concern were observed below the LOD, with the exception of Mecarbam. Mecarbam was detected in a single sample at 0.10 µg/l within the upstream sample (S2) from the River Lea.

Sanctus has compared the dissolved phase concentrations from this monitoring period to the trigger levels to indicate if site works are potentially causing a mobilisation of pollution. There have been no exceedances of the trigger levels along the southern boundary or within the River Lea.

Appendix A

Drawings

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Sanctus House, The Waterfront, Stonehouse Park,
Stonehouse, Glos, GL10 3UT
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Legend:

- Site Boundary
- Monitoring Well (Response Zone Depth mbgl)
- Existing Monitoring Well (Response Zone Depth mbgl)
- Sanctus Window Sample (Response Zone Depth mbgl)
- River Water Sample Points
- Reed Beds

Drawing Notes:
Based on North Point Surveys' DWG - J101.GEO rev A - Jan 2013 and Pam Brown Associates PDF - 1302-13 Fig 3. Locations surveyed by Sanctus Engineer. Must be printed in colour.

Site Address:
Meadow View
Wheathampstead
St Albans
AL4 8FE

Rev.	Description	Date
A	First Issue	14/10/2019

Project Name: Meadow View, Wheathampstead		
Client: Jarvis Homes Ltd		
Drawing Title: Monitoring Well Location Plan		
Contract No: S2503	Drawing No: D2503/027	Scale @ A3: 1:500
Drawn By: JH	QC Check By: AS	Approved By: ST

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Legend:

- Site Boundary - Solid Timber Hoarding
- Site Boundary - Mesh Heras Fencing
- Trial Extents
- Phase 1 Area
- Soil Treatment Area for Trial & Phase 1
- Welfare Boundary
- Environmental Monitoring Location
- Weather Vane
- Line of Tree Protection Area

Drawing Notes:
Based on RDT Architect's DWG - Proposed Site Formation Levels No. 1140SK-RDT-ZZ-XX-DR-A-0105.
All locations are indicative. Must be printed in colour.

Site Address:
Meadow View
Wheathampstead
St Albans
AL4 8FE

Rev.	Description	Date
A	First Issue	25/09/2019

Project Name: Meadow View, Wheathampstead		
Client: Jarvis Homes Ltd		
Drawing Title: Trial and Phase 1 Locations Plan		
Contract No: S2503	Drawing No: D2503/023	Scale @ A3: 1:500
Drawn By: JH	QC Check By: AKS	Approved By: ST

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Legend:

- Site Boundary - Solid Timber Hoarding
- Site Boundary - Mesh Heras Fencing
- Phase 2 Area
- Soil Treatment Area for Phase 2
- Welfare Boundary
- Environmental Monitoring Location
- Weather Vane
- Line of Tree Protection Area

Drawing Notes:
Based on RDT Architect's DWG - Proposed Site Formation Levels No. 1140SK-RDT-ZZ-XX-DR-A-0105.
All locations are indicative. Must be printed in colour.

Site Address:
Meadow View
Wheathampstead
St Albans
AL4 8FE

Rev.	Description	Date
A	First Issue	25/09/2019

Project Name: Meadow View, Wheathampstead		
Client: Jarvis Homes Ltd		
Drawing Title: Phase 2 Location Plan		
Contract No: S2503	Drawing No: D2503/024	Scale @ A3: 1:500
Drawn By: JH	QC Check By: AKS	Approved By: ST

Appendix B

In situ Monitoring Records

Low-Flow Test Report:

Test Date / Time: 5/27/2020 8:33:27 AM
Project: 1302-13
Operator Name:

Location Name: BH306	**Flow Cell Volume: 130 ml**	**Instrument Used: Aqua TROLL 500** **Serial Number: 713502**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10
5/27/2020 8:33 AM	00:00	7.18 pH	12.08 °C	1,081.4 µS/cm	1.00 mg/L	1,500.5 NTU	83.9 mV
5/27/2020 8:36 AM	03:00	7.03 pH	11.85 °C	990.58 µS/cm	0.18 mg/L	1,034.7 NTU	54.5 mV
5/27/2020 8:39 AM	06:00	6.95 pH	11.83 °C	1,103.3 µS/cm	0.11 mg/L	1,464.4 NTU	31.9 mV
5/27/2020 8:42 AM	09:00	6.92 pH	11.90 °C	393.62 µS/cm	0.11 mg/L	1,317.2 NTU	14.1 mV
5/27/2020 8:45 AM	12:00	6.92 pH	11.91 °C	293.21 µS/cm	0.08 mg/L	2,986.8 NTU	0.7 mV
5/27/2020 8:48 AM	15:00	6.93 pH	11.90 °C	1,069.1 µS/cm	0.06 mg/L	466.58 NTU	-12.5 mV
5/27/2020 8:51 AM	18:00	6.95 pH	11.94 °C	938.51 µS/cm	0.04 mg/L	535.71 NTU	-17.1 mV
5/27/2020 8:54 AM	21:00	6.98 pH	11.97 °C	1,114.0 µS/cm	0.03 mg/L	2,965.7 NTU	-28.1 mV
5/27/2020 8:57 AM	24:00	6.99 pH	11.99 °C	268.11 µS/cm	0.02 mg/L	344.89 NTU	-35.5 mV
5/27/2020 9:00 AM	27:00	7.02 pH	11.96 °C	1,049.2 µS/cm	0.02 mg/L	1,192.7 NTU	-41.2 mV
5/27/2020 9:03 AM	30:00	7.03 pH	11.96 °C	467.66 µS/cm	0.03 mg/L	3,229.3 NTU	-44.2 mV
5/27/2020 9:06 AM	33:00	7.05 pH	11.94 °C	327.81 µS/cm	0.01 mg/L	952.85 NTU	-51.8 mV
5/27/2020 9:09 AM	36:00	7.06 pH	11.94 °C	1,101.9 µS/cm	0.00 mg/L	655.41 NTU	-55.4 mV
5/27/2020 9:12 AM	39:00	7.07 pH	11.97 °C	483.30 µS/cm	0.01 mg/L	945.42 NTU	-59.8 mV
5/27/2020 9:15 AM	42:00	7.08 pH	11.97 °C	471.34 µS/cm	0.02 mg/L	193.88 NTU	-63.1 mV
5/27/2020 9:18 AM	45:00	7.08 pH	11.95 °C	826.25 µS/cm	0.01 mg/L	643.19 NTU	-66.9 mV

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 5/27/2020 9:31:39 AM
Project: 1302-13 (2)
Operator Name:

Location Name: WS103	**Flow Cell Volume: 130 ml**	**Instrument Used: Aqua TROLL 500** **Serial Number: 713502**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10
5/27/2020 9:31 AM	00:00	7.36 pH	12.26 °C	1,093.1 µS/cm	6.20 mg/L	94.27 NTU	10.6 mV
5/27/2020 9:34 AM	03:00	7.24 pH	11.82 °C	1,100.2 µS/cm	0.13 mg/L	6.89 NTU	18.2 mV
5/27/2020 9:37 AM	06:00	7.23 pH	11.81 °C	1,100.5 µS/cm	0.07 mg/L	2.10 NTU	21.7 mV
5/27/2020 9:40 AM	09:00	7.23 pH	11.80 °C	1,100.7 µS/cm	0.03 mg/L	0.00 NTU	24.2 mV

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 5/27/2020 10:02:47 AM
Project: 1302-13 (3)
Operator Name:

Location Name: BH305	**Flow Cell Volume: 130 ml**	**Instrument Used: Aqua TROLL 500** **Serial Number: 713502**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10
5/27/2020 10:02 AM	00:00	7.13 pH	12.05 °C	1,367.5 µS/cm	4.67 mg/L	3,901.2 NTU	67.9 mV
5/27/2020 10:05 AM	03:00	7.05 pH	11.13 °C	1,380.2 µS/cm	0.24 mg/L	3,616.5 NTU	69.2 mV
5/27/2020 10:08 AM	06:00	7.04 pH	11.20 °C	1,392.6 µS/cm	0.13 mg/L	4,975.2 NTU	63.0 mV
5/27/2020 10:11 AM	09:00	7.03 pH	11.22 °C	1,380.2 µS/cm	0.09 mg/L	4,665.0 NTU	57.7 mV
5/27/2020 10:14 AM	12:00	7.04 pH	11.27 °C	1,364.5 µS/cm	0.07 mg/L	16,480 NTU	53.7 mV
5/27/2020 10:17 AM	15:00	7.04 pH	11.25 °C	1,374.5 µS/cm	0.05 mg/L	13,083 NTU	50.6 mV
5/27/2020 10:20 AM	18:00	7.04 pH	11.28 °C	1,380.1 µS/cm	0.03 mg/L	11,052 NTU	47.3 mV
5/27/2020 10:23 AM	21:00	7.05 pH	11.29 °C	1,361.9 µS/cm	0.02 mg/L	10,136 NTU	42.5 mV
5/27/2020 10:26 AM	24:00	7.06 pH	11.35 °C	1,364.7 µS/cm	0.01 mg/L	8,675.6 NTU	39.3 mV
5/27/2020 10:29 AM	27:00	7.06 pH	11.39 °C	1,360.5 µS/cm	0.00 mg/L	5,328.4 NTU	34.3 mV
5/27/2020 10:32 AM	30:00	7.06 pH	11.36 °C	1,364.8 µS/cm	0.00 mg/L	3,870.0 NTU	31.8 mV

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 5/27/2020 10:47:38 AM
Project: 1302-13 (4)
Operator Name:

Location Name: WS102	**Flow Cell Volume: 130 ml**	**Instrument Used: Aqua TROLL 500** **Serial Number: 713502**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10
5/27/2020 10:47 AM	00:00	7.34 pH	11.34 °C	1,096.6 µS/cm	4.20 mg/L	79.00 NTU	53.5 mV
5/27/2020 10:50 AM	03:00	7.21 pH	10.56 °C	1,035.4 µS/cm	0.10 mg/L	30.28 NTU	58.2 mV
5/27/2020 10:53 AM	06:00	7.20 pH	10.57 °C	1,031.6 µS/cm	0.06 mg/L	48.65 NTU	58.5 mV
5/27/2020 10:56 AM	09:00	7.20 pH	10.56 °C	1,037.4 µS/cm	0.03 mg/L	246.95 NTU	58.0 mV
5/27/2020 10:59 AM	12:00	7.21 pH	10.58 °C	1,036.1 µS/cm	0.01 mg/L	273.04 NTU	57.5 mV
5/27/2020 11:02 AM	15:00	7.22 pH	10.60 °C	1,035.2 µS/cm	0.00 mg/L	301.07 NTU	57.0 mV
5/27/2020 11:05 AM	18:00	7.22 pH	10.58 °C	1,034.5 µS/cm	0.00 mg/L	374.57 NTU	56.9 mV
5/27/2020 11:08 AM	21:00	7.23 pH	10.58 °C	1,026.5 µS/cm	0.00 mg/L	406.97 NTU	56.5 mV
5/27/2020 11:11 AM	24:00	7.23 pH	10.63 °C	1,020.7 µS/cm	0.01 mg/L	473.50 NTU	56.5 mV
5/27/2020 11:14 AM	27:00	7.23 pH	10.62 °C	1,023.6 µS/cm	0.00 mg/L	437.42 NTU	56.5 mV
5/27/2020 11:17 AM	30:00	7.23 pH	10.61 °C	1,020.0 µS/cm	0.00 mg/L	475.77 NTU	56.3 mV
5/27/2020 11:20 AM	33:00	7.24 pH	10.63 °C	1,014.5 µS/cm	0.00 mg/L	531.05 NTU	56.5 mV
5/27/2020 11:23 AM	36:00	7.23 pH	10.65 °C	1,010.1 µS/cm	0.00 mg/L	508.22 NTU	56.5 mV
5/27/2020 11:26 AM	39:00	7.24 pH	10.64 °C	1,037.3 µS/cm	0.00 mg/L	543.91 NTU	56.4 mV
5/27/2020 11:29 AM	42:00	7.24 pH	10.62 °C	1,033.4 µS/cm	0.00 mg/L	814.00 NTU	56.6 mV
5/27/2020 11:32 AM	45:00	7.23 pH	10.66 °C	1,027.1 µS/cm	0.00 mg/L	981.92 NTU	56.7 mV

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 5/27/2020 11:41:21 AM
Project: 1302-13 (5)
Operator Name:

Location Name: BH22	**Flow Cell Volume: 130 ml**	**Instrument Used: Aqua TROLL 500** **Serial Number: 713502**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10
5/27/2020 11:41 AM	00:00	7.05 pH	12.90 °C	1,043.9 µS/cm	5.95 mg/L	185.71 NTU	-196.6 mV
5/27/2020 11:44 AM	03:00	7.03 pH	11.77 °C	1,033.1 µS/cm	0.17 mg/L	94.92 NTU	-92.4 mV
5/27/2020 11:47 AM	06:00	7.03 pH	11.70 °C	1,037.6 µS/cm	0.07 mg/L	288.53 NTU	-65.8 mV
5/27/2020 11:50 AM	09:00	7.04 pH	11.68 °C	1,035.9 µS/cm	0.05 mg/L	542.31 NTU	-50.7 mV
5/27/2020 11:53 AM	12:00	7.04 pH	11.73 °C	1,037.5 µS/cm	0.03 mg/L	703.45 NTU	-43.1 mV
5/27/2020 11:56 AM	15:00	7.04 pH	11.77 °C	1,040.3 µS/cm	0.03 mg/L	1,014.7 NTU	-38.6 mV
5/27/2020 11:59 AM	18:00	7.03 pH	11.77 °C	1,035.2 µS/cm	0.02 mg/L	1,188.4 NTU	-31.4 mV
5/27/2020 12:02 PM	21:00	7.04 pH	11.83 °C	1,034.0 µS/cm	0.01 mg/L	1,545.9 NTU	-28.3 mV
5/27/2020 12:05 PM	24:00	7.03 pH	11.77 °C	1,035.6 µS/cm	0.01 mg/L	731.10 NTU	-36.9 mV
5/27/2020 12:08 PM	27:00	7.04 pH	11.75 °C	1,031.5 µS/cm	0.00 mg/L	901.44 NTU	-51.8 mV
5/27/2020 12:11 PM	30:00	7.03 pH	11.74 °C	1,035.7 µS/cm	0.00 mg/L	1,376.1 NTU	-89.9 mV
5/27/2020 12:14 PM	33:00	7.03 pH	11.77 °C	1,034.5 µS/cm	0.00 mg/L	2,036.6 NTU	-111.8 mV
5/27/2020 12:17 PM	36:00	7.03 pH	11.80 °C	1,033.1 µS/cm	0.00 mg/L	862.70 NTU	-117.7 mV
5/27/2020 12:20 PM	39:00	7.03 pH	11.82 °C	1,033.3 µS/cm	0.00 mg/L	1,422.1 NTU	-118.3 mV
5/27/2020 12:23 PM	42:00	7.03 pH	11.78 °C	1,024.4 µS/cm	0.00 mg/L	1,863.8 NTU	-121.9 mV
5/27/2020 12:26 PM	45:00	7.03 pH	11.75 °C	1,029.5 µS/cm	0.00 mg/L	1,357.7 NTU	-123.1 mV

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 5/27/2020 12:43:58 PM
Project: 1302-13 (6)
Operator Name:

Location Name: ASB1	**Flow Cell Volume: 130 ml**	**Instrument Used: Aqua TROLL 500** **Serial Number: 713502**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10
5/27/2020 12:43 PM	00:00	7.16 pH	14.48 °C	988.13 µS/cm	3.03 mg/L	126.13 NTU	14.6 mV
5/27/2020 12:46 PM	03:00	7.08 pH	12.10 °C	999.17 µS/cm	0.46 mg/L	278.52 NTU	15.1 mV
5/27/2020 12:49 PM	06:00	7.08 pH	12.02 °C	996.43 µS/cm	0.43 mg/L	1,316.3 NTU	15.7 mV
5/27/2020 12:52 PM	09:00	7.08 pH	12.08 °C	993.23 µS/cm	0.41 mg/L	1,735.6 NTU	16.8 mV
5/27/2020 12:55 PM	12:00	7.08 pH	12.52 °C	1,009.4 µS/cm	0.44 mg/L	221.93 NTU	17.1 mV
5/27/2020 12:58 PM	15:00	7.08 pH	12.51 °C	1,004.9 µS/cm	0.46 mg/L	222.17 NTU	16.5 mV
5/27/2020 1:01 PM	18:00	7.08 pH	12.40 °C	993.27 µS/cm	0.45 mg/L	268.66 NTU	16.1 mV
5/27/2020 1:04 PM	21:00	7.08 pH	12.46 °C	991.82 µS/cm	0.44 mg/L	267.69 NTU	15.2 mV
5/27/2020 1:07 PM	24:00	7.09 pH	12.40 °C	989.15 µS/cm	0.46 mg/L	293.75 NTU	14.6 mV
5/27/2020 1:10 PM	27:00	7.09 pH	12.56 °C	990.11 µS/cm	0.49 mg/L	315.23 NTU	14.3 mV
5/27/2020 1:13 PM	30:00	7.09 pH	12.49 °C	978.11 µS/cm	0.47 mg/L	311.73 NTU	15.3 mV
5/27/2020 1:16 PM	33:00	7.09 pH	12.45 °C	987.98 µS/cm	0.43 mg/L	318.25 NTU	15.5 mV

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 5/27/2020 1:31:20 PM
Project: 1302-13 (7)
Operator Name:

Location Name: BH304	**Flow Cell Volume: 130 ml**	**Instrument Used: Aqua TROLL 500** **Serial Number: 713502**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10
5/27/2020 1:31 PM	00:00	6.94 pH	13.25 °C	1,503.1 µS/cm	5.35 mg/L	30.35 NTU	-106.8 mV
5/27/2020 1:34 PM	03:00	6.89 pH	12.89 °C	1,526.2 µS/cm	0.25 mg/L	58.20 NTU	-128.3 mV
5/27/2020 1:37 PM	06:00	6.89 pH	12.84 °C	1,528.9 µS/cm	0.16 mg/L	1,492.3 NTU	-132.5 mV
5/27/2020 1:40 PM	09:00	6.90 pH	12.81 °C	1,525.5 µS/cm	0.11 mg/L	1,129.3 NTU	-135.0 mV
5/27/2020 1:43 PM	12:00	6.90 pH	12.89 °C	1,525.8 µS/cm	0.08 mg/L	876.67 NTU	-135.9 mV
5/27/2020 1:46 PM	15:00	6.91 pH	12.84 °C	1,536.5 µS/cm	0.05 mg/L	673.29 NTU	-140.0 mV
5/27/2020 1:49 PM	18:00	6.90 pH	12.81 °C	1,538.7 µS/cm	0.02 mg/L	483.80 NTU	-140.9 mV
5/27/2020 1:52 PM	21:00	6.90 pH	12.85 °C	1,511.7 µS/cm	0.05 mg/L	628.60 NTU	-141.5 mV
5/27/2020 1:55 PM	24:00	6.90 pH	12.91 °C	1,504.1 µS/cm	0.03 mg/L	668.85 NTU	-142.5 mV
5/27/2020 1:58 PM	27:00	6.91 pH	12.93 °C	1,510.8 µS/cm	0.01 mg/L	577.38 NTU	-143.1 mV
5/27/2020 2:01 PM	30:00	6.91 pH	12.84 °C	1,517.3 µS/cm	0.01 mg/L	949.23 NTU	-143.8 mV

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 5/27/2020 2:13:44 PM
Project: 1302-13 (8)
Operator Name:

Location Name: BH303	**Flow Cell Volume: 130 ml**	**Instrument Used: Aqua TROLL 500** **Serial Number: 713502**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10
5/27/2020 2:13 PM	00:00	6.84 pH	13.26 °C	1,822.9 µS/cm	1.32 mg/L	3,468.7 NTU	-165.0 mV
5/27/2020 2:16 PM	03:00	6.80 pH	12.87 °C	1,863.1 µS/cm	0.14 mg/L	794.17 NTU	-137.3 mV
5/27/2020 2:19 PM	06:00	6.79 pH	12.76 °C	1,885.9 µS/cm	0.13 mg/L	336.06 NTU	-122.3 mV
5/27/2020 2:22 PM	09:00	6.77 pH	12.69 °C	1,943.4 µS/cm	0.14 mg/L	334.86 NTU	-112.9 mV
5/27/2020 2:25 PM	12:00	6.77 pH	12.78 °C	1,890.7 µS/cm	0.28 mg/L	601.49 NTU	-110.5 mV
5/27/2020 2:28 PM	15:00	6.78 pH	12.66 °C	1,908.9 µS/cm	0.22 mg/L	701.60 NTU	-113.1 mV
5/27/2020 2:31 PM	18:00	6.79 pH	12.78 °C	1,912.3 µS/cm	0.20 mg/L	721.30 NTU	-121.8 mV
5/27/2020 2:34 PM	21:00	6.79 pH	12.80 °C	1,914.8 µS/cm	0.13 mg/L	664.15 NTU	-126.6 mV
5/27/2020 2:37 PM	24:00	6.79 pH	12.89 °C	1,928.3 µS/cm	0.05 mg/L	1,001.8 NTU	-123.2 mV
5/27/2020 2:40 PM	27:00	6.79 pH	12.84 °C	1,923.1 µS/cm	0.06 mg/L	450.59 NTU	-120.4 mV
5/27/2020 2:43 PM	30:00	6.79 pH	12.97 °C	1,948.6 µS/cm	0.09 mg/L	347.27 NTU	-128.8 mV

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 5/27/2020 3:02:05 PM
Project: 1302-13 (9)
Operator Name:

Location Name: BH302	**Flow Cell Volume: 130 ml**	**Instrument Used: Aqua TROLL 500** **Serial Number: 713502**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10
5/27/2020 3:02 PM	00:00	6.99 pH	14.77 °C	1,132.3 µS/cm	5.58 mg/L	2,895.7 NTU	-94.4 mV
5/27/2020 3:05 PM	03:00	6.81 pH	12.49 °C	1,245.5 µS/cm	0.46 mg/L	884.59 NTU	-110.4 mV
5/27/2020 3:08 PM	06:00	6.76 pH	12.46 °C	1,291.8 µS/cm	0.06 mg/L	466.60 NTU	-120.1 mV
5/27/2020 3:11 PM	09:00	6.72 pH	12.58 °C	1,314.3 µS/cm	0.00 mg/L	401.37 NTU	-123.5 mV
5/27/2020 3:14 PM	12:00	6.77 pH	12.65 °C	1,320.9 µS/cm	0.37 mg/L	446.31 NTU	-126.4 mV
5/27/2020 3:17 PM	15:00	6.78 pH	12.49 °C	1,353.6 µS/cm	0.00 mg/L	309.77 NTU	-131.2 mV
5/27/2020 3:20 PM	18:00	6.77 pH	12.40 °C	1,314.3 µS/cm	0.00 mg/L	370.78 NTU	-134.1 mV
5/27/2020 3:23 PM	21:00	6.78 pH	12.75 °C	1,309.1 µS/cm	0.00 mg/L	412.75 NTU	-135.9 mV
5/27/2020 3:26 PM	24:00	6.81 pH	12.71 °C	1,263.6 µS/cm	0.00 mg/L	351.93 NTU	-139.1 mV
5/27/2020 3:29 PM	27:00	6.82 pH	12.72 °C	1,190.4 µS/cm	0.00 mg/L	360.40 NTU	-141.7 mV
5/27/2020 3:32 PM	30:00	6.83 pH	12.56 °C	1,350.4 µS/cm	0.00 mg/L	365.39 NTU	-141.1 mV
5/27/2020 3:35 PM	33:00	6.82 pH	12.60 °C	1,325.6 µS/cm	0.00 mg/L	649.44 NTU	-142.8 mV
5/27/2020 3:38 PM	36:00	6.83 pH	12.61 °C	1,389.1 µS/cm	0.00 mg/L	638.11 NTU	-145.2 mV
5/27/2020 3:41 PM	39:00	6.84 pH	12.65 °C	1,296.2 µS/cm	0.00 mg/L	823.94 NTU	-140.8 mV
5/27/2020 3:44 PM	42:00	6.83 pH	12.61 °C	1,085.3 µS/cm	0.00 mg/L	715.81 NTU	-142.3 mV
5/27/2020 3:47 PM	45:00	6.83 pH	12.41 °C	969.18 µS/cm	0.00 mg/L	721.72 NTU	-136.7 mV
5/27/2020 3:50 PM	48:00	6.83 pH	12.47 °C	964.70 µS/cm	0.00 mg/L	833.02 NTU	-139.4 mV
5/27/2020 3:53 PM	51:00	6.84 pH	12.42 °C	1,328.8 µS/cm	0.00 mg/L	852.45 NTU	-145.4 mV

Low-Flow Test Report:

Test Date / Time: 5/27/2020 4:14:40 PM
Project: 1302-13 (10)
Operator Name:

Location Name: BH301	**Flow Cell Volume: 130 ml**	**Instrument Used: Aqua TROLL 500** **Serial Number: 713502**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10
5/27/2020 4:14 PM	00:00	7.27 pH	13.32 °C	1,066.0 µS/cm	1.90 mg/L	1,433.9 NTU	-10.5 mV
5/27/2020 4:17 PM	03:00	7.03 pH	12.72 °C	1,073.0 µS/cm	0.16 mg/L	505.06 NTU	-6.7 mV
5/27/2020 4:20 PM	06:00	6.93 pH	12.72 °C	1,096.3 µS/cm	0.15 mg/L	470.74 NTU	0.8 mV
5/27/2020 4:23 PM	09:00	6.90 pH	12.69 °C	1,099.5 µS/cm	0.21 mg/L	258.36 NTU	3.1 mV
5/27/2020 4:26 PM	12:00	6.90 pH	12.73 °C	1,061.7 µS/cm	0.22 mg/L	307.10 NTU	-1.2 mV
5/27/2020 4:29 PM	15:00	6.91 pH	12.72 °C	1,108.2 µS/cm	0.22 mg/L	1,098.4 NTU	-3.4 mV
5/27/2020 4:32 PM	18:00	6.92 pH	12.68 °C	1,116.6 µS/cm	0.24 mg/L	3,211.2 NTU	-4.5 mV
5/27/2020 4:35 PM	21:00	6.95 pH	12.65 °C	1,136.0 µS/cm	0.23 mg/L	3,759.0 NTU	-5.8 mV
5/27/2020 4:38 PM	24:00	6.97 pH	12.67 °C	1,109.0 µS/cm	0.23 mg/L	4,210.2 NTU	-7.2 mV
5/27/2020 4:41 PM	27:00	6.99 pH	12.71 °C	1,111.7 µS/cm	0.24 mg/L	3,336.0 NTU	-8.5 mV
5/27/2020 4:44 PM	30:00	7.01 pH	12.64 °C	1,034.6 µS/cm	0.24 mg/L	107.94 NTU	-9.5 mV

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 5/28/2020 8:24:06 AM
Project: 1302-13 (11)
Operator Name:

Location Name: SWS03	**Flow Cell Volume: 130 ml**	**Instrument Used: Aqua TROLL 500** **Serial Number: 713502**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10
5/28/2020 8:24 AM	00:00	7.31 pH	15.06 °C	1,495.2 µS/cm	2.81 mg/L	853.42 NTU	-127.8 mV
5/28/2020 8:27 AM	03:00	7.09 pH	13.20 °C	1,615.2 µS/cm	0.29 mg/L	973.15 NTU	-132.0 mV
5/28/2020 8:30 AM	06:00	7.04 pH	13.05 °C	1,361.0 µS/cm	0.26 mg/L	4,605.0 NTU	-127.6 mV
5/28/2020 8:33 AM	09:00	7.03 pH	13.06 °C	973.23 µS/cm	0.24 mg/L	1,611.6 NTU	-130.0 mV
5/28/2020 8:36 AM	12:00	7.02 pH	13.04 °C	1,057.9 µS/cm	0.14 mg/L	92.88 NTU	-132.4 mV
5/28/2020 8:39 AM	15:00	7.03 pH	13.00 °C	1,105.3 µS/cm	0.09 mg/L	1,506.4 NTU	-133.1 mV
5/28/2020 8:42 AM	18:00	7.03 pH	12.99 °C	1,147.1 µS/cm	0.07 mg/L	133.88 NTU	-134.6 mV
5/28/2020 8:45 AM	21:00	7.04 pH	12.93 °C	1,179.9 µS/cm	0.06 mg/L	2,317.7 NTU	-135.2 mV
5/28/2020 8:48 AM	24:00	7.05 pH	12.96 °C	1,143.4 µS/cm	0.04 mg/L	2,813.7 NTU	-136.0 mV
5/28/2020 8:51 AM	27:00	7.06 pH	12.96 °C	1,049.0 µS/cm	0.03 mg/L	1,986.6 NTU	-137.2 mV
5/28/2020 8:54 AM	30:00	7.08 pH	13.00 °C	1,057.1 µS/cm	0.02 mg/L	5,376.6 NTU	-139.0 mV
5/28/2020 8:57 AM	33:00	7.10 pH	12.99 °C	1,018.8 µS/cm	0.01 mg/L	331.79 NTU	-139.9 mV
5/28/2020 9:00 AM	36:00	7.11 pH	12.99 °C	971.87 µS/cm	0.02 mg/L	945.82 NTU	-141.9 mV
5/28/2020 9:03 AM	39:00	7.13 pH	12.98 °C	948.28 µS/cm	0.00 mg/L	1,843.2 NTU	-143.9 mV
5/28/2020 9:06 AM	42:00	7.14 pH	13.01 °C	821.34 µS/cm	0.01 mg/L	1,255.9 NTU	-145.6 mV
5/28/2020 9:09 AM	45:00	7.16 pH	13.04 °C	790.69 µS/cm	0.00 mg/L	378.71 NTU	-134.8 mV

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 6/4/2020 12:54:06 PM
Project: Low-Flow Test 1 (2)
Operator Name:

Location Name: WS103	**Flow Cell Volume: 130 ml**	**Instrument Used: Aqua TROLL 500** **Serial Number: 714340**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10
6/4/2020 12:54 PM	00:00	6.80 pH	14.27 °C	1,150.6 µS/cm	0.20 mg/L	21.90 NTU	32.9 mV
6/4/2020 12:57 PM	03:00	6.83 pH	14.43 °C	1,146.4 µS/cm	0.08 mg/L	1.81 NTU	50.0 mV
6/4/2020 1:00 PM	06:00	6.86 pH	14.53 °C	1,151.0 µS/cm	0.07 mg/L	0.89 NTU	59.4 mV
6/4/2020 1:03 PM	09:00	6.89 pH	14.58 °C	1,144.1 µS/cm	0.06 mg/L	0.00 NTU	65.3 mV
6/4/2020 1:06 PM	12:00	6.92 pH	14.61 °C	1,132.4 µS/cm	0.06 mg/L	0.00 NTU	69.3 mV

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 6/4/2020 12:08:46 PM
Project:
Operator Name:

Location Name: BH306	**Flow Cell Volume: 130 ml**	**Instrument Used: Aqua TROLL 500** **Serial Number: 714340**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5
6/4/2020 12:08 PM	00:00	6.99 pH	12.57 °C	1,076.1 µS/cm	2.12 mg/L	56.22 NTU	10.8 mV	
6/4/2020 12:11 PM	02:45	6.95 pH	12.17 °C	2.53 µS/cm	3.34 mg/L	0.00 NTU	15.9 mV	
6/4/2020 12:14 PM	05:45	6.85 pH	11.89 °C	1,096.9 µS/cm	0.15 mg/L	150.09 NTU	3.2 mV	
6/4/2020 12:16 PM	08:12	6.79 pH	11.85 °C	1,037.6 µS/cm	0.09 mg/L	167.22 NTU	-7.2 mV	
6/4/2020 12:19 PM	11:12	6.73 pH	11.85 °C	967.34 µS/cm	0.07 mg/L	227.42 NTU	-10.0 mV	
6/4/2020 12:22 PM	13:22	6.69 pH	11.87 °C	947.98 µS/cm	0.06 mg/L	277.73 NTU	-12.3 mV	
6/4/2020 12:25 PM	16:22	6.67 pH	11.88 °C	845.37 µS/cm	0.04 mg/L	324.66 NTU	-17.9 mV	
6/4/2020 12:27 PM	18:34	6.66 pH	11.89 °C	866.71 µS/cm	0.04 mg/L	333.46 NTU	-22.9 mV	
6/4/2020 12:30 PM	21:34	6.65 pH	11.92 °C	804.97 µS/cm	0.04 mg/L	442.00 NTU	-29.2 mV	
6/4/2020 12:32 PM	23:44	6.65 pH	11.94 °C	928.63 µS/cm	0.04 mg/L	599.13 NTU	-32.9 mV	
6/4/2020 12:35 PM	26:44	6.66 pH	11.96 °C	834.98 µS/cm	0.04 mg/L	725.16 NTU	-44.9 mV	
6/4/2020 12:37 PM	28:55	6.66 pH	11.96 °C	776.56 µS/cm	0.03 mg/L	806.23 NTU	-46.1 mV	
6/4/2020 12:40 PM	31:55	6.66 pH	11.98 °C	128.09 µS/cm	0.03 mg/L	887.54 NTU	-41.9 mV	

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 6/4/2020 1:12:42 PM
Project: Low-Flow Test 1 (3)
Operator Name:

Location Name: BH305	**Flow Cell Volume: 130 ml**	**Instrument Used: Aqua TROLL 500** **Serial Number: 714340**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10
6/4/2020 1:12 PM	00:00	7.14 pH	14.68 °C	0.16 µS/cm	9.93 mg/L	0.00 NTU	100.0 mV
6/4/2020 1:15 PM	03:00	7.01 pH	14.43 °C	0.07 µS/cm	9.99 mg/L	0.00 NTU	104.4 mV
6/4/2020 1:18 PM	06:00	6.98 pH	14.37 °C	0.07 µS/cm	10.00 mg/L	0.00 NTU	108.3 mV
6/4/2020 1:21 PM	09:00	6.90 pH	14.31 °C	0.07 µS/cm	10.01 mg/L	0.00 NTU	112.3 mV
6/4/2020 1:24 PM	12:00	6.71 pH	14.33 °C	0.07 µS/cm	10.01 mg/L	0.00 NTU	116.5 mV
6/4/2020 1:27 PM	15:00	6.63 pH	14.30 °C	0.07 µS/cm	10.01 mg/L	0.00 NTU	119.8 mV
6/4/2020 1:30 PM	18:00	6.66 pH	14.29 °C	0.07 µS/cm	10.01 mg/L	0.00 NTU	122.5 mV

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 6/4/2020 1:37:48 PM
Project: Low-Flow Test 1 (4)
Operator Name:

Location Name: WS102	**Flow Cell Volume: 130 ml**	**Instrument Used: Aqua TROLL 500** **Serial Number: 714340**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10
6/4/2020 1:37 PM	00:00	7.28 pH	13.13 °C	1,123.1 µS/cm	5.68 mg/L	9.88 NTU	137.5 mV
6/4/2020 1:40 PM	03:00	7.09 pH	11.66 °C	1,122.7 µS/cm	0.36 mg/L	0.36 NTU	135.2 mV
6/4/2020 1:43 PM	06:00	7.06 pH	11.24 °C	1,150.4 µS/cm	0.20 mg/L	16.21 NTU	130.9 mV
6/4/2020 1:46 PM	09:00	7.01 pH	11.11 °C	1,148.3 µS/cm	0.15 mg/L	22.90 NTU	129.5 mV
6/4/2020 1:49 PM	12:00	6.98 pH	11.05 °C	1,147.9 µS/cm	0.14 mg/L	50.54 NTU	128.1 mV
6/4/2020 1:52 PM	15:00	6.96 pH	11.01 °C	1,151.7 µS/cm	0.13 mg/L	62.25 NTU	126.8 mV
6/4/2020 1:55 PM	18:00	6.96 pH	11.02 °C	1,115.5 µS/cm	0.11 mg/L	77.19 NTU	125.8 mV
6/4/2020 1:58 PM	21:00	6.95 pH	11.00 °C	1,095.6 µS/cm	0.10 mg/L	100.30 NTU	124.5 mV
6/4/2020 2:01 PM	24:00	6.96 pH	10.98 °C	1,094.7 µS/cm	0.12 mg/L	215.37 NTU	123.3 mV
6/4/2020 2:04 PM	27:00	6.95 pH	10.96 °C	1,083.5 µS/cm	0.10 mg/L	205.19 NTU	122.4 mV
6/4/2020 2:07 PM	30:00	6.95 pH	10.95 °C	1,076.5 µS/cm	0.11 mg/L	208.77 NTU	121.5 mV
6/4/2020 2:10 PM	33:00	6.96 pH	10.95 °C	1,043.6 µS/cm	0.12 mg/L	260.58 NTU	120.8 mV

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 6/4/2020 2:15:23 PM
Project: Low-Flow Test 1 (5)
Operator Name:

Location Name: BH22	**Flow Cell Volume: 130 ml**	**Instrument Used: Aqua TROLL 500** **Serial Number: 714340**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10
6/4/2020 2:15 PM	00:00	6.82 pH	11.63 °C	1,055.9 µS/cm	3.97 mg/L	23.10 NTU	-205.5 mV
6/4/2020 2:18 PM	03:00	6.83 pH	11.10 °C	1,132.1 µS/cm	0.25 mg/L	34.72 NTU	-206.5 mV
6/4/2020 2:21 PM	06:00	6.82 pH	11.26 °C	818.32 µS/cm	0.15 mg/L	110.78 NTU	-210.5 mV
6/4/2020 2:24 PM	09:00	6.81 pH	11.45 °C	551.77 µS/cm	0.15 mg/L	236.71 NTU	-213.0 mV
6/4/2020 2:27 PM	12:00	6.82 pH	11.54 °C	836.90 µS/cm	0.12 mg/L	257.98 NTU	-210.1 mV
6/4/2020 2:30 PM	15:00	6.81 pH	11.59 °C	148.22 µS/cm	0.11 mg/L	330.74 NTU	-213.0 mV
6/4/2020 2:33 PM	18:00	6.81 pH	11.56 °C	715.86 µS/cm	0.14 mg/L	439.99 NTU	-206.9 mV
6/4/2020 2:36 PM	21:00	6.82 pH	11.54 °C	149.93 µS/cm	0.12 mg/L	446.08 NTU	-214.3 mV
6/4/2020 2:39 PM	24:00	6.81 pH	11.54 °C	121.23 µS/cm	0.14 mg/L	327.51 NTU	-217.3 mV
6/4/2020 2:42 PM	27:00	6.82 pH	11.52 °C	828.69 µS/cm	0.13 mg/L	486.29 NTU	-219.8 mV
6/4/2020 2:45 PM	30:00	6.82 pH	11.54 °C	223.13 µS/cm	0.10 mg/L	544.19 NTU	-223.3 mV

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 6/4/2020 2:55:20 PM
Project: Low-Flow Test 1 (6)
Operator Name:

Location Name: ASB1	**Flow Cell Volume: 130 ml**	**Instrument Used: Aqua TROLL 500** **Serial Number: 714340**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10
6/4/2020 2:55 PM	00:00	7.00 pH	11.63 °C	1,005.9 µS/cm	5.10 mg/L	8.66 NTU	-110.5 mV
6/4/2020 2:58 PM	03:00	6.94 pH	11.59 °C	1,008.7 µS/cm	0.26 mg/L	29.56 NTU	-144.6 mV
6/4/2020 3:01 PM	06:00	6.95 pH	11.60 °C	1,009.3 µS/cm	0.22 mg/L	53.10 NTU	-141.8 mV
6/4/2020 3:04 PM	09:00	6.96 pH	11.61 °C	1,008.2 µS/cm	0.21 mg/L	93.28 NTU	-140.6 mV
6/4/2020 3:07 PM	12:00	6.98 pH	11.61 °C	1,007.9 µS/cm	0.20 mg/L	118.82 NTU	-144.0 mV
6/4/2020 3:10 PM	15:00	6.99 pH	11.66 °C	1,007.9 µS/cm	0.20 mg/L	134.50 NTU	-143.7 mV
6/4/2020 3:13 PM	18:00	7.00 pH	11.61 °C	1,007.9 µS/cm	0.20 mg/L	157.86 NTU	-143.4 mV
6/4/2020 3:16 PM	21:00	7.01 pH	11.64 °C	1,007.0 µS/cm	0.20 mg/L	163.40 NTU	-142.2 mV
6/4/2020 3:19 PM	24:00	7.02 pH	11.65 °C	1,005.9 µS/cm	0.19 mg/L	206.80 NTU	-141.4 mV
6/4/2020 3:22 PM	27:00	7.03 pH	11.64 °C	1,006.6 µS/cm	0.19 mg/L	248.08 NTU	-140.6 mV
6/4/2020 3:25 PM	30:00	7.04 pH	11.66 °C	1,006.8 µS/cm	0.19 mg/L	259.43 NTU	-139.7 mV

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 6/5/2020 8:15:13 AM
Project: Low-Flow Test 1 (7)
Operator Name:

Location Name: BH304	**Flow Cell Volume: 130 ml**	**Instrument Used: Aqua TROLL 500** **Serial Number: 714340**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10
6/5/2020 8:15 AM	00:00	7.16 pH	15.10 °C	0.07 µS/cm	9.97 mg/L	0.00 NTU	46.3 mV
6/5/2020 8:18 AM	03:00	7.35 pH	13.96 °C	0.07 µS/cm	10.20 mg/L	0.00 NTU	-104.3 mV
6/5/2020 8:21 AM	06:00	7.46 pH	13.60 °C	0.07 µS/cm	10.18 mg/L	0.00 NTU	-133.2 mV
6/5/2020 8:24 AM	09:00	7.55 pH	13.39 °C	0.07 µS/cm	10.20 mg/L	0.00 NTU	-137.4 mV
6/5/2020 8:27 AM	12:00	7.60 pH	13.26 °C	0.07 µS/cm	10.17 mg/L	0.00 NTU	-142.1 mV
6/5/2020 8:30 AM	15:00	7.63 pH	13.16 °C	0.07 µS/cm	10.12 mg/L	0.00 NTU	-148.2 mV
6/5/2020 8:33 AM	18:00	7.65 pH	13.09 °C	0.07 µS/cm	10.09 mg/L	0.00 NTU	-151.3 mV

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 6/5/2020 8:39:58 AM
Project: Low-Flow Test 1 (8)
Operator Name:

Location Name: BH303	**Flow Cell Volume: 130 ml**	**Instrument Used: Aqua TROLL 500** **Serial Number: 714340**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10
6/5/2020 8:39 AM	00:00	6.90 pH	12.76 °C	1,818.6 µS/cm	4.62 mg/L	30.83 NTU	-215.1 mV
6/5/2020 8:42 AM	03:00	6.86 pH	12.35 °C	1,676.6 µS/cm	0.27 mg/L	66.98 NTU	-169.6 mV
6/5/2020 8:45 AM	06:00	6.83 pH	12.31 °C	1,591.4 µS/cm	0.15 mg/L	98.76 NTU	-157.3 mV
6/5/2020 8:48 AM	09:00	6.82 pH	12.24 °C	1,940.1 µS/cm	0.12 mg/L	121.48 NTU	-153.5 mV
6/5/2020 8:51 AM	12:00	6.82 pH	12.23 °C	1,909.9 µS/cm	0.11 mg/L	175.79 NTU	-153.4 mV
6/5/2020 8:54 AM	15:00	6.81 pH	12.24 °C	1,924.3 µS/cm	0.09 mg/L	193.03 NTU	-149.8 mV
6/5/2020 8:57 AM	18:00	6.82 pH	12.23 °C	1,879.7 µS/cm	0.09 mg/L	249.45 NTU	-147.9 mV
6/5/2020 9:00 AM	21:00	6.82 pH	12.23 °C	1,895.2 µS/cm	0.08 mg/L	190.78 NTU	-149.4 mV
6/5/2020 9:03 AM	24:00	6.82 pH	12.23 °C	1,901.1 µS/cm	0.07 mg/L	303.22 NTU	-148.6 mV
6/5/2020 9:06 AM	27:00	6.82 pH	12.22 °C	1,946.2 µS/cm	0.06 mg/L	340.54 NTU	-149.2 mV
6/5/2020 9:09 AM	30:00	6.82 pH	12.23 °C	1,925.5 µS/cm	0.07 mg/L	354.96 NTU	-146.0 mV
6/5/2020 9:12 AM	33:00	6.82 pH	12.24 °C	1,913.6 µS/cm	0.07 mg/L	510.43 NTU	-142.8 mV

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 6/5/2020 9:20:54 AM
Project: Low-Flow Test 1 (9)
Operator Name:

Location Name: BH302	**Flow Cell Volume: 130 ml**	**Instrument Used: Aqua TROLL 500** **Serial Number: 714340**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10
6/5/2020 9:20 AM	00:00	7.05 pH	12.08 °C	969.95 µS/cm	6.43 mg/L	393.62 NTU	-81.3 mV
6/5/2020 9:23 AM	03:00	6.93 pH	12.01 °C	989.56 µS/cm	0.18 mg/L	3,747.5 NTU	-130.1 mV
6/5/2020 9:26 AM	06:00	6.92 pH	12.13 °C	902.04 µS/cm	0.06 mg/L	1,312.0 NTU	-144.0 mV
6/5/2020 9:29 AM	09:00	6.91 pH	12.44 °C	699.11 µS/cm	0.01 mg/L	234.70 NTU	-145.5 mV
6/5/2020 9:32 AM	12:00	6.93 pH	12.54 °C	504.66 µS/cm	0.00 mg/L	169.79 NTU	-153.3 mV
6/5/2020 9:35 AM	15:00	6.93 pH	12.63 °C	103.24 µS/cm	0.00 mg/L	169.55 NTU	-146.2 mV
6/5/2020 9:38 AM	18:00	6.92 pH	12.77 °C	32.75 µS/cm	0.00 mg/L	195.31 NTU	-144.6 mV
6/5/2020 9:41 AM	21:00	6.99 pH	12.59 °C	1,130.0 µS/cm	0.01 mg/L	58.46 NTU	-107.4 mV
6/5/2020 9:44 AM	24:00	6.92 pH	12.73 °C	1,288.9 µS/cm	0.00 mg/L	33.47 NTU	-109.9 mV
6/5/2020 9:47 AM	27:00	6.91 pH	12.91 °C	972.82 µS/cm	0.00 mg/L	34.79 NTU	-114.0 mV
6/5/2020 9:50 AM	30:00	6.92 pH	13.04 °C	952.56 µS/cm	0.00 mg/L	31.21 NTU	-114.8 mV
6/5/2020 9:53 AM	33:00	6.92 pH	12.79 °C	679.67 µS/cm	0.00 mg/L	62.58 NTU	-120.9 mV

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 6/5/2020 10:25:47 AM
Project: Low-Flow Test 1 (10)
Operator Name:

Location Name: BH301	**Flow Cell Volume: 130 ml**	**Instrument Used: Aqua TROLL 500** **Serial Number: 714340**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10
6/5/2020 10:25 AM	00:00	7.35 pH	14.17 °C	1,039.4 µS/cm	4.26 mg/L	11,106 NTU	-23.1 mV
6/5/2020 10:28 AM	03:00	7.19 pH	13.05 °C	1,019.0 µS/cm	2.46 mg/L	151.58 NTU	-57.7 mV
6/5/2020 10:31 AM	06:00	7.15 pH	12.99 °C	916.04 µS/cm	1.63 mg/L	156.20 NTU	-65.5 mV
6/5/2020 10:34 AM	09:00	7.14 pH	13.00 °C	634.79 µS/cm	1.06 mg/L	194.04 NTU	-70.7 mV
6/5/2020 10:37 AM	12:00	7.14 pH	12.97 °C	506.83 µS/cm	0.79 mg/L	266.01 NTU	-68.0 mV
6/5/2020 10:40 AM	15:00	7.14 pH	12.91 °C	819.25 µS/cm	0.65 mg/L	384.22 NTU	-72.2 mV
6/5/2020 10:43 AM	18:00	7.14 pH	12.89 °C	661.14 µS/cm	0.68 mg/L	356.65 NTU	-71.3 mV
6/5/2020 10:46 AM	21:00	7.14 pH	12.85 °C	660.77 µS/cm	0.68 mg/L	386.61 NTU	-71.5 mV
6/5/2020 10:49 AM	24:00	7.14 pH	12.79 °C	115.97 µS/cm	0.65 mg/L	369.51 NTU	-81.1 mV
6/5/2020 10:52 AM	27:00	7.13 pH	12.74 °C	115.69 µS/cm	0.71 mg/L	418.07 NTU	-81.6 mV
6/5/2020 10:55 AM	30:00	7.13 pH	12.65 °C	114.73 µS/cm	0.77 mg/L	588.55 NTU	-84.8 mV

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 6/5/2020 11:04:21 AM
Project: Low-Flow Test 1 (11)
Operator Name:

Location Name: SWS03	**Flow Cell Volume: 130 ml**	**Instrument Used: Aqua TROLL 500** **Serial Number: 714340**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10
6/5/2020 11:04 AM	00:00	7.27 pH	13.47 °C	1,263.3 µS/cm	1.70 mg/L	156.83 NTU	-125.8 mV
6/5/2020 11:07 AM	03:00	7.27 pH	13.15 °C	1,275.6 µS/cm	0.81 mg/L	15.91 NTU	-156.1 mV
6/5/2020 11:10 AM	06:00	7.28 pH	13.08 °C	1,278.1 µS/cm	0.88 mg/L	31.60 NTU	-163.8 mV
6/5/2020 11:13 AM	09:00	7.28 pH	13.01 °C	1,284.9 µS/cm	1.06 mg/L	45.57 NTU	-168.2 mV
6/5/2020 11:16 AM	12:00	7.28 pH	12.93 °C	1,283.0 µS/cm	1.29 mg/L	88.50 NTU	-171.1 mV
6/5/2020 11:19 AM	15:00	7.28 pH	12.86 °C	1,274.4 µS/cm	1.08 mg/L	80.17 NTU	-172.3 mV
6/5/2020 11:22 AM	18:00	7.29 pH	12.89 °C	1,269.7 µS/cm	1.13 mg/L	235.46 NTU	-171.7 mV
6/5/2020 11:25 AM	21:00	7.28 pH	12.89 °C	1,254.3 µS/cm	1.12 mg/L	269.00 NTU	-173.7 mV
6/5/2020 11:28 AM	24:00	7.28 pH	12.88 °C	1,251.9 µS/cm	1.17 mg/L	486.95 NTU	-174.6 mV
6/5/2020 11:31 AM	27:00	7.28 pH	12.90 °C	1,243.9 µS/cm	1.23 mg/L	472.94 NTU	-174.5 mV
6/5/2020 11:34 AM	30:00	7.29 pH	12.88 °C	1,246.5 µS/cm	1.30 mg/L	878.56 NTU	-173.9 mV

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 6/17/2020 9:26:37 AM
Project: 1302-13
Operator Name: RM

Location Name: BH306	**Flow Cell Volume: 130 ml**	**Instrument Used: Aqua TROLL 600** **Serial Number: 544789**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10
6/17/2020 9:26 AM	00:00	7.79 pH	13.68 °C	1,192.8 µS/cm	3.07 mg/L	255.47 NTU	-75.6 mV
6/17/2020 9:29 AM	03:00	7.42 pH	12.56 °C	1,219.7 µS/cm	0.13 mg/L	67.40 NTU	-126.8 mV
6/17/2020 9:32 AM	06:00	7.38 pH	12.54 °C	1,177.8 µS/cm	0.07 mg/L	38.29 NTU	-132.1 mV
6/17/2020 9:35 AM	09:00	7.34 pH	12.52 °C	1,205.6 µS/cm	0.05 mg/L	57.24 NTU	-136.5 mV
6/17/2020 9:38 AM	12:00	7.33 pH	12.46 °C	1,217.4 µS/cm	0.03 mg/L	21.29 NTU	-141.6 mV
6/17/2020 9:41 AM	15:00	7.30 pH	12.45 °C	1,223.4 µS/cm	0.03 mg/L	11.58 NTU	-145.8 mV
6/17/2020 9:44 AM	18:00	7.29 pH	12.46 °C	1,194.6 µS/cm	0.03 mg/L	32.46 NTU	-149.7 mV
6/17/2020 9:47 AM	21:00	7.27 pH	12.41 °C	1,198.6 µS/cm	0.02 mg/L	39.08 NTU	-152.8 mV
6/17/2020 9:50 AM	24:00	7.26 pH	12.43 °C	1,194.0 µS/cm	0.01 mg/L	5.51 NTU	-155.6 mV
6/17/2020 9:53 AM	27:00	7.25 pH	12.43 °C	1,189.3 µS/cm	0.01 mg/L	2.91 NTU	-159.1 mV
6/17/2020 9:56 AM	30:00	7.24 pH	12.45 °C	1,177.7 µS/cm	0.01 mg/L	1.35 NTU	-161.0 mV

Samples

Sample ID:	Description:
BH306	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 6/17/2020 10:13:53 AM
Project: 1302-13 (2)
Operator Name: RM

Location Name: WS103	**Flow Cell Volume: 130 ml**	**Instrument Used: Aqua TROLL 600** **Serial Number: 544789**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10
6/17/2020 10:13 AM	00:00	7.31 pH	15.50 °C	1,304.6 µS/cm	2.48 mg/L	0.00 NTU	-77.7 mV
6/17/2020 10:16 AM	03:00	7.28 pH	15.20 °C	1,304.3 µS/cm	0.18 mg/L	0.00 NTU	-73.6 mV
6/17/2020 10:19 AM	06:00	7.26 pH	15.19 °C	1,303.6 µS/cm	0.10 mg/L	0.00 NTU	-69.2 mV
6/17/2020 10:22 AM	09:00	7.25 pH	15.18 °C	1,297.8 µS/cm	0.08 mg/L	0.00 NTU	-65.3 mV

Samples

Sample ID:	Description:
WS103	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 6/17/2020 10:37:06 AM
Project: 1302-13 (3)
Operator Name: RM

Location Name: BH305	**Flow Cell Volume: 130 ml**	**Instrument Used: Aqua TROLL 600** **Serial Number: 544789**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10
6/17/2020 10:37 AM	00:00	7.24 pH	13.01 °C	1,270.5 µS/cm	3.83 mg/L	7,019.4 NTU	-44.9 mV
6/17/2020 10:40 AM	03:00	7.22 pH	11.93 °C	1,283.3 µS/cm	0.77 mg/L	9,416.2 NTU	-88.1 mV
6/17/2020 10:43 AM	06:00	7.19 pH	11.56 °C	1,296.2 µS/cm	0.43 mg/L	3,572.4 NTU	-69.7 mV
6/17/2020 10:46 AM	09:00	7.18 pH	11.55 °C	1,300.8 µS/cm	0.33 mg/L	1,916.7 NTU	-61.3 mV
6/17/2020 10:49 AM	12:00	7.18 pH	11.55 °C	1,304.4 µS/cm	0.27 mg/L	1,536.6 NTU	-58.8 mV
6/17/2020 10:52 AM	15:00	7.18 pH	11.57 °C	1,308.6 µS/cm	0.22 mg/L	1,300.3 NTU	-58.4 mV
6/17/2020 10:55 AM	18:00	7.17 pH	11.57 °C	1,314.0 µS/cm	0.17 mg/L	758.98 NTU	-57.8 mV
6/17/2020 10:58 AM	21:00	7.16 pH	11.60 °C	1,319.1 µS/cm	0.13 mg/L	627.06 NTU	-61.5 mV
6/17/2020 11:01 AM	24:00	7.16 pH	11.61 °C	1,324.1 µS/cm	0.11 mg/L	890.92 NTU	-63.4 mV
6/17/2020 11:04 AM	27:00	7.16 pH	11.63 °C	1,326.4 µS/cm	0.08 mg/L	454.61 NTU	-64.9 mV
6/17/2020 11:07 AM	30:00	7.15 pH	11.62 °C	1,331.5 µS/cm	0.06 mg/L	490.53 NTU	-66.4 mV

Samples

Sample ID:	Description:
BH305	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 6/17/2020 11:21:33 AM
Project: 1302-13 (4)
Operator Name: RM

Location Name: WS102	**Flow Cell Volume: 130 ml**	**Instrument Used: Aqua TROLL 600** **Serial Number: 544789**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10
6/17/2020 11:21 AM	00:00	7.23 pH	14.29 °C	1,293.4 µS/cm	1.34 mg/L	10.62 NTU	-7.3 mV
6/17/2020 11:24 AM	03:00	7.17 pH	13.59 °C	1,289.2 µS/cm	0.19 mg/L	3.42 NTU	-10.1 mV
6/17/2020 11:27 AM	06:00	7.17 pH	13.36 °C	1,285.7 µS/cm	0.11 mg/L	1.22 NTU	-13.0 mV
6/17/2020 11:30 AM	09:00	7.25 pH	14.31 °C	0.07 µS/cm	9.81 mg/L	1.01 NTU	-11.1 mV
6/17/2020 11:33 AM	12:00	7.19 pH	13.10 °C	1,281.1 µS/cm	0.07 mg/L	0.53 NTU	-10.8 mV
6/17/2020 11:36 AM	15:00	7.19 pH	13.04 °C	1,281.0 µS/cm	0.04 mg/L	0.61 NTU	-13.1 mV
6/17/2020 11:39 AM	18:00	7.19 pH	12.98 °C	1,280.5 µS/cm	0.03 mg/L	0.53 NTU	-14.8 mV

Samples

Sample ID:	Description:
WS102	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 6/17/2020 11:53:34 AM
Project: 1302-13 (5)
Operator Name: RM

Location Name: BH22	**Flow Cell Volume: 130 ml**	**Instrument Used: Aqua TROLL 600** **Serial Number: 544789**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10
6/17/2020 11:53 AM	00:00	7.06 pH	14.11 °C	1,204.0 µS/cm	2.70 mg/L	19.28 NTU	-308.9 mV
6/17/2020 11:56 AM	03:00	7.10 pH	12.57 °C	1,201.6 µS/cm	0.09 mg/L	7.25 NTU	-318.4 mV
6/17/2020 11:59 AM	06:00	7.07 pH	12.37 °C	1,186.3 µS/cm	0.04 mg/L	1.05 NTU	-314.0 mV
6/17/2020 12:02 PM	09:00	7.04 pH	12.28 °C	1,182.9 µS/cm	0.03 mg/L	0.42 NTU	-314.4 mV

Samples

Sample ID:	Description:
BH22	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 6/17/2020 12:30:00 PM
Project: 1302-13 (6)
Operator Name: RM

Location Name: ASB1	**Flow Cell Volume: 130 ml**	**Instrument Used: Aqua TROLL 600** **Serial Number: 544789**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10
6/17/2020 12:30 PM	00:00	7.18 pH	14.03 °C	1,107.6 µS/cm	3.13 mg/L	221.89 NTU	-201.5 mV
6/17/2020 12:33 PM	03:00	7.05 pH	12.00 °C	1,130.5 µS/cm	0.14 mg/L	4.27 NTU	-218.1 mV
6/17/2020 12:36 PM	06:00	7.04 pH	11.91 °C	1,127.6 µS/cm	0.08 mg/L	0.71 NTU	-220.1 mV
6/17/2020 12:39 PM	09:00	7.03 pH	11.85 °C	1,129.2 µS/cm	0.05 mg/L	2.29 NTU	-220.4 mV

Samples

Sample ID:	Description:
ASB1	

Low-Flow Test Report:

Test Date / Time: 6/17/2020 12:59:49 PM
Project: 1302-13 (7)
Operator Name: RM

Location Name: BH304	**Flow Cell Volume: 130 ml**	**Instrument Used: Aqua TROLL 600** **Serial Number: 544789**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10
6/17/2020 12:59 PM	00:00	6.97 pH	13.42 °C	1,420.6 µS/cm	4.81 mg/L	0.00 NTU	-219.1 mV
6/17/2020 1:02 PM	03:00	6.91 pH	12.89 °C	1,427.9 µS/cm	0.15 mg/L	5.73 NTU	-253.6 mV
6/17/2020 1:05 PM	06:00	6.90 pH	12.86 °C	1,437.9 µS/cm	0.10 mg/L	0.91 NTU	-261.4 mV
6/17/2020 1:08 PM	09:00	6.90 pH	12.83 °C	1,436.8 µS/cm	0.07 mg/L	0.00 NTU	-266.2 mV
6/17/2020 1:11 PM	12:00	6.90 pH	12.80 °C	1,438.8 µS/cm	0.05 mg/L	2.73 NTU	-269.2 mV

Samples

Sample ID:	Description:
BH304	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 6/17/2020 1:44:55 PM
Project: 1302-13 (8)
Operator Name: RM

Location Name: BH303	**Flow Cell Volume: 130 ml**	**Instrument Used: Aqua TROLL 600** **Serial Number: 544789**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10
6/17/2020 1:44 PM	00:00	6.71 pH	14.44 °C	2,019.9 µS/cm	5.70 mg/L	0.92 NTU	-181.2 mV
6/17/2020 1:47 PM	03:00	6.68 pH	13.22 °C	2,073.8 µS/cm	0.08 mg/L	5.69 NTU	-210.9 mV
6/17/2020 1:50 PM	06:00	6.68 pH	13.14 °C	2,092.6 µS/cm	0.05 mg/L	1.34 NTU	-220.0 mV
6/17/2020 1:53 PM	09:00	6.69 pH	13.21 °C	2,064.2 µS/cm	0.03 mg/L	0.00 NTU	-226.3 mV
6/17/2020 1:56 PM	12:00	6.69 pH	13.19 °C	2,079.0 µS/cm	0.02 mg/L	0.00 NTU	-230.0 mV

Samples

Sample ID:	Description:
BH303	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 6/17/2020 2:17:32 PM
Project: 1302-13 (9)
Operator Name: RM

Location Name: BH302	**Flow Cell Volume: 130 ml**	**Instrument Used: Aqua TROLL 600** **Serial Number: 544789**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10
6/17/2020 2:17 PM	00:00	6.74 pH	14.24 °C	1,328.3 µS/cm	4.38 mg/L	41.65 NTU	-196.1 mV
6/17/2020 2:20 PM	03:00	6.74 pH	12.68 °C	1,297.6 µS/cm	0.20 mg/L	53.46 NTU	-206.0 mV
6/17/2020 2:23 PM	06:00	6.74 pH	12.71 °C	1,430.3 µS/cm	0.03 mg/L	91.86 NTU	-222.1 mV
6/17/2020 2:26 PM	09:00	6.74 pH	12.71 °C	1,430.8 µS/cm	0.00 mg/L	117.10 NTU	-228.2 mV
6/17/2020 2:29 PM	12:00	6.74 pH	12.74 °C	1,441.2 µS/cm	0.00 mg/L	201.55 NTU	-231.3 mV
6/17/2020 2:32 PM	15:00	6.74 pH	12.70 °C	1,441.3 µS/cm	0.00 mg/L	224.49 NTU	-233.1 mV
6/17/2020 2:35 PM	18:00	6.75 pH	12.72 °C	1,433.8 µS/cm	0.00 mg/L	223.91 NTU	-234.5 mV
6/17/2020 2:38 PM	21:00	6.74 pH	12.64 °C	1,446.9 µS/cm	0.00 mg/L	184.82 NTU	-236.1 mV
6/17/2020 2:41 PM	24:00	6.74 pH	12.67 °C	1,454.6 µS/cm	0.00 mg/L	124.50 NTU	-236.3 mV
6/17/2020 2:44 PM	27:00	6.74 pH	12.59 °C	1,466.9 µS/cm	0.00 mg/L	113.74 NTU	-236.8 mV
6/17/2020 2:47 PM	30:00	6.74 pH	12.54 °C	1,423.0 µS/cm	0.00 mg/L	84.62 NTU	-239.5 mV

Samples

Sample ID:	Description:
BH302	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 6/17/2020 3:11:31 PM
Project: 1302-13 (10)
Operator Name: RM

Location Name: BH301	**Flow Cell Volume: 130 ml**	**Instrument Used: Aqua TROLL 600** **Serial Number: 544789**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10
6/17/2020 3:11 PM	00:00	6.98 pH	16.78 °C	1,180.0 µS/cm	5.76 mg/L	0.00 NTU	-106.5 mV
6/17/2020 3:14 PM	03:00	6.95 pH	13.35 °C	1,209.8 µS/cm	0.14 mg/L	2,593.2 NTU	-111.8 mV
6/17/2020 3:17 PM	06:00	6.96 pH	13.14 °C	1,214.5 µS/cm	0.08 mg/L	9.32 NTU	-113.8 mV
6/17/2020 3:20 PM	09:00	6.96 pH	13.10 °C	1,209.7 µS/cm	0.07 mg/L	10.48 NTU	-115.2 mV
6/17/2020 3:23 PM	12:00	6.96 pH	13.07 °C	1,208.9 µS/cm	0.05 mg/L	19.93 NTU	-116.6 mV
6/17/2020 3:26 PM	15:00	6.96 pH	13.04 °C	1,206.4 µS/cm	0.04 mg/L	6.46 NTU	-117.9 mV
6/17/2020 3:29 PM	18:00	6.97 pH	13.01 °C	1,204.9 µS/cm	0.04 mg/L	6.21 NTU	-118.9 mV
6/17/2020 3:32 PM	21:00	6.96 pH	13.00 °C	1,196.3 µS/cm	0.04 mg/L	9.18 NTU	-119.7 mV

Samples

Sample ID:	Description:
BH301	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 6/17/2020 3:45:22 PM
Project: 1302-13 (11)
Operator Name: RM

Location Name: SWS03	**Flow Cell Volume: 130 ml**	**Instrument Used: Aqua TROLL 600** **Serial Number: 544789**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10
6/17/2020 3:45 PM	00:00	6.96 pH	16.11 °C	1,403.6 µS/cm	3.48 mg/L	41.61 NTU	-204.7 mV
6/17/2020 3:48 PM	03:00	7.12 pH	15.03 °C	1,412.9 µS/cm	0.10 mg/L	13.84 NTU	-257.4 mV
6/17/2020 3:51 PM	06:00	7.15 pH	14.48 °C	1,412.8 µS/cm	0.08 mg/L	13.69 NTU	-268.5 mV
6/17/2020 3:54 PM	09:00	7.17 pH	14.23 °C	1,408.2 µS/cm	0.06 mg/L	8.89 NTU	-270.9 mV
6/17/2020 3:57 PM	12:00	7.18 pH	14.21 °C	1,410.4 µS/cm	0.03 mg/L	6.66 NTU	-273.5 mV

Samples

Sample ID:	Description:
SWS03	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 7/1/2020 8:43:09 AM
Project: 1302-13 (12)
Operator Name:

Location Name: BH306	**Flow Cell Volume: 130 ml**	**Instrument Used: Aqua TROLL 500** **Serial Number: 714324**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10
7/1/2020 8:43 AM	00:00	6.98 pH	14.22 °C	1,196.5 µS/cm	2.27 mg/L	53.86 NTU	36.2 mV
7/1/2020 8:46 AM	03:00	6.88 pH	12.56 °C	1,236.4 µS/cm	0.19 mg/L	686.92 NTU	-35.4 mV
7/1/2020 8:49 AM	06:00	6.87 pH	12.44 °C	1,245.5 µS/cm	0.16 mg/L	234.23 NTU	-38.2 mV
7/1/2020 8:52 AM	09:00	6.86 pH	12.40 °C	1,243.0 µS/cm	0.15 mg/L	98.54 NTU	-45.5 mV
7/1/2020 8:55 AM	12:00	6.87 pH	12.38 °C	1,240.9 µS/cm	0.30 mg/L	64.56 NTU	-54.3 mV
7/1/2020 8:58 AM	15:00	6.88 pH	12.37 °C	1,247.8 µS/cm	0.27 mg/L	69.24 NTU	-63.0 mV
7/1/2020 9:01 AM	18:00	6.95 pH	12.37 °C	1,252.1 µS/cm	0.24 mg/L	29.86 NTU	-72.1 mV
7/1/2020 9:04 AM	21:00	6.99 pH	12.37 °C	1,252.7 µS/cm	0.17 mg/L	26.84 NTU	-78.9 mV
7/1/2020 9:07 AM	24:00	7.00 pH	12.36 °C	1,249.3 µS/cm	0.20 mg/L	29.44 NTU	-82.8 mV
7/1/2020 9:10 AM	27:00	7.00 pH	12.35 °C	1,246.3 µS/cm	0.17 mg/L	17.51 NTU	-86.2 mV
7/1/2020 9:13 AM	30:00	6.99 pH	12.35 °C	1,247.6 µS/cm	0.18 mg/L	23.47 NTU	-88.4 mV

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 7/1/2020 9:19:34 AM
Project: 1302-13 (13)
Operator Name:

Location Name: WS103	**Flow Cell Volume: 130 ml**	**Instrument Used: Aqua TROLL 500** **Serial Number: 714324**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10
7/1/2020 9:19 AM	00:00	7.15 pH	16.29 °C	1,247.5 µS/cm	4.42 mg/L	2.08 NTU	1.1 mV
7/1/2020 9:22 AM	03:00	7.10 pH	16.78 °C	1,238.5 µS/cm	0.17 mg/L	0.00 NTU	20.9 mV
7/1/2020 9:25 AM	06:00	7.10 pH	16.82 °C	1,237.8 µS/cm	0.09 mg/L	0.00 NTU	26.6 mV
7/1/2020 9:28 AM	09:00	7.10 pH	16.84 °C	1,237.2 µS/cm	0.08 mg/L	0.00 NTU	30.1 mV

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 7/1/2020 9:34:42 AM
Project: 1302-13 (14)
Operator Name:

Location Name: BH305	**Flow Cell Volume: 130 ml**	**Instrument Used: Aqua TROLL 500** **Serial Number: 714324**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10
7/1/2020 9:34 AM	00:00	7.08 pH	13.22 °C	1,254.7 µS/cm	4.77 mg/L	10,351 NTU	59.7 mV
7/1/2020 9:37 AM	03:00	7.07 pH	11.68 °C	1,301.8 µS/cm	1.76 mg/L	15,518 NTU	59.9 mV
7/1/2020 9:40 AM	06:00	7.05 pH	11.58 °C	1,313.1 µS/cm	1.11 mg/L	8,856.8 NTU	53.5 mV
7/1/2020 9:43 AM	09:00	7.04 pH	11.56 °C	1,320.5 µS/cm	0.98 mg/L	5,250.8 NTU	39.2 mV
7/1/2020 9:46 AM	12:00	7.02 pH	11.57 °C	1,330.0 µS/cm	0.90 mg/L	3,903.7 NTU	28.8 mV
7/1/2020 9:49 AM	15:00	7.01 pH	11.57 °C	1,337.9 µS/cm	0.72 mg/L	2,427.2 NTU	18.9 mV
7/1/2020 9:52 AM	18:00	7.00 pH	11.57 °C	1,343.9 µS/cm	0.54 mg/L	1,470.5 NTU	16.5 mV
7/1/2020 9:55 AM	21:00	6.99 pH	11.58 °C	1,352.9 µS/cm	0.43 mg/L	819.19 NTU	10.7 mV
7/1/2020 9:58 AM	24:00	6.99 pH	11.58 °C	1,355.6 µS/cm	0.44 mg/L	546.65 NTU	8.0 mV
7/1/2020 10:01 AM	27:00	6.99 pH	11.58 °C	1,361.9 µS/cm	0.32 mg/L	753.27 NTU	5.1 mV
7/1/2020 10:04 AM	30:00	7.00 pH	11.58 °C	1,362.8 µS/cm	0.28 mg/L	509.94 NTU	2.5 mV

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 7/1/2020 10:11:55 AM
Project: 1302-13 (15)
Operator Name:

Location Name: WS102	**Flow Cell Volume: 130 ml**	**Instrument Used: Aqua TROLL 500** **Serial Number: 714324**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10
7/1/2020 10:11 AM	00:00	7.03 pH	14.76 °C	1,278.1 µS/cm	0.79 mg/L	0.56 NTU	63.3 mV
7/1/2020 10:14 AM	03:00	7.06 pH	14.04 °C	1,272.6 µS/cm	0.09 mg/L	0.00 NTU	61.7 mV
7/1/2020 10:17 AM	06:00	7.08 pH	13.85 °C	1,271.2 µS/cm	0.05 mg/L	0.00 NTU	60.6 mV
7/1/2020 10:20 AM	09:00	7.10 pH	13.75 °C	1,270.6 µS/cm	0.04 mg/L	0.00 NTU	60.1 mV

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 7/1/2020 10:24:50 AM
Project: 1302-13 (16)
Operator Name:

Location Name: BH22	**Flow Cell Volume: 130 ml**	**Instrument Used: Aqua TROLL 500** **Serial Number: 714324**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10
7/1/2020 10:24 AM	00:00	7.02 pH	14.99 °C	1,237.7 µS/cm	6.92 mg/L	97.54 NTU	-243.3 mV
7/1/2020 10:27 AM	03:00	6.96 pH	13.09 °C	1,202.8 µS/cm	0.21 mg/L	65.80 NTU	-266.0 mV
7/1/2020 10:30 AM	06:00	6.96 pH	12.68 °C	1,188.5 µS/cm	0.15 mg/L	32.25 NTU	-275.4 mV
7/1/2020 10:33 AM	09:00	6.93 pH	12.59 °C	1,190.6 µS/cm	0.13 mg/L	14.66 NTU	-274.8 mV
7/1/2020 10:36 AM	12:00	6.94 pH	12.54 °C	1,187.7 µS/cm	0.10 mg/L	24.25 NTU	-276.0 mV
7/1/2020 10:39 AM	15:00	6.93 pH	12.50 °C	1,178.5 µS/cm	0.09 mg/L	33.49 NTU	-270.1 mV
7/1/2020 10:42 AM	18:00	6.91 pH	12.49 °C	1,179.5 µS/cm	0.09 mg/L	6.09 NTU	-267.0 mV
7/1/2020 10:45 AM	21:00	6.92 pH	12.42 °C	1,177.9 µS/cm	0.06 mg/L	15.98 NTU	-268.4 mV
7/1/2020 10:48 AM	24:00	6.90 pH	12.41 °C	1,178.2 µS/cm	0.05 mg/L	15.30 NTU	-260.5 mV

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 7/1/2020 11:00:33 AM
Project: 1302-13 (17)
Operator Name:

Location Name: ASB1	**Flow Cell Volume: 130 ml**	**Instrument Used: Aqua TROLL 500** **Serial Number: 714324**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10
7/1/2020 11:00 AM	00:00	7.01 pH	13.69 °C	1,110.6 µS/cm	3.39 mg/L	11.06 NTU	-135.9 mV
7/1/2020 11:03 AM	03:00	7.01 pH	11.88 °C	1,133.0 µS/cm	0.29 mg/L	22.54 NTU	-158.6 mV
7/1/2020 11:06 AM	06:00	7.00 pH	11.89 °C	1,132.8 µS/cm	0.21 mg/L	30.56 NTU	-163.0 mV
7/1/2020 11:09 AM	09:00	6.98 pH	11.78 °C	1,135.2 µS/cm	0.19 mg/L	20.99 NTU	-163.1 mV

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 7/1/2020 11:19:42 AM
Project: 1302-13 (18)
Operator Name:

Location Name: BH304	**Flow Cell Volume: 130 ml**	**Instrument Used: Aqua TROLL 500** **Serial Number: 714324**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10
7/1/2020 11:19 AM	00:00	6.95 pH	13.69 °C	1,130.3 µS/cm	1.37 mg/L	0.00 NTU	-187.3 mV
7/1/2020 11:22 AM	03:00	6.97 pH	12.87 °C	1,074.3 µS/cm	0.18 mg/L	0.89 NTU	-207.4 mV
7/1/2020 11:25 AM	06:00	6.98 pH	12.79 °C	1,055.1 µS/cm	0.09 mg/L	0.54 NTU	-211.6 mV
7/1/2020 11:28 AM	09:00	6.97 pH	12.79 °C	1,054.7 µS/cm	0.08 mg/L	0.94 NTU	-214.2 mV

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 7/1/2020 11:43:51 AM
Project: 1302-13 (19)
Operator Name:

Location Name: BH303	**Flow Cell Volume: 130 ml**	**Instrument Used: Aqua TROLL 500** **Serial Number: 714324**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10
7/1/2020 11:43 AM	00:00	6.92 pH	13.27 °C	2,053.0 µS/cm	1.45 mg/L	97.05 NTU	-183.2 mV
7/1/2020 11:46 AM	03:00	6.90 pH	12.63 °C	2,130.8 µS/cm	0.14 mg/L	52.99 NTU	-183.7 mV
7/1/2020 11:49 AM	06:00	6.87 pH	12.54 °C	2,145.0 µS/cm	0.15 mg/L	35.39 NTU	-186.3 mV
7/1/2020 11:52 AM	09:00	6.84 pH	12.48 °C	2,145.1 µS/cm	0.14 mg/L	15.77 NTU	-189.7 mV
7/1/2020 11:55 AM	12:00	6.82 pH	12.47 °C	2,165.1 µS/cm	0.13 mg/L	13.87 NTU	-188.9 mV
7/1/2020 11:58 AM	15:00	6.78 pH	12.47 °C	2,184.0 µS/cm	0.12 mg/L	16.24 NTU	-187.1 mV

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 7/1/2020 12:09:17 PM
Project: 1302-13 (20)
Operator Name:

Location Name: BH302	**Flow Cell Volume: 130 ml**	**Instrument Used: Aqua TROLL 500** **Serial Number: 714324**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10
7/1/2020 12:09 PM	00:00	6.92 pH	13.23 °C	1,374.8 µS/cm	2.37 mg/L	1,225.8 NTU	-132.6 mV
7/1/2020 12:12 PM	03:00	6.91 pH	12.23 °C	1,419.3 µS/cm	0.05 mg/L	625.15 NTU	-153.6 mV
7/1/2020 12:15 PM	06:00	6.89 pH	12.11 °C	1,439.4 µS/cm	0.01 mg/L	496.05 NTU	-158.4 mV
7/1/2020 12:18 PM	09:00	6.86 pH	12.12 °C	1,458.4 µS/cm	0.00 mg/L	381.46 NTU	-161.7 mV
7/1/2020 12:21 PM	12:00	6.83 pH	12.18 °C	1,461.6 µS/cm	0.00 mg/L	340.17 NTU	-161.8 mV
7/1/2020 12:24 PM	15:00	6.81 pH	12.22 °C	1,463.0 µS/cm	0.00 mg/L	233.84 NTU	-162.1 mV
7/1/2020 12:27 PM	18:00	6.79 pH	12.14 °C	1,467.0 µS/cm	0.04 mg/L	248.05 NTU	-162.2 mV
7/1/2020 12:30 PM	21:00	6.78 pH	12.08 °C	1,454.1 µS/cm	0.02 mg/L	183.96 NTU	-161.3 mV
7/1/2020 12:33 PM	24:00	6.77 pH	12.17 °C	1,438.7 µS/cm	0.02 mg/L	171.80 NTU	-161.0 mV
7/1/2020 12:36 PM	27:00	6.76 pH	12.08 °C	1,404.2 µS/cm	0.01 mg/L	159.89 NTU	-161.3 mV
7/1/2020 12:39 PM	30:00	6.76 pH	12.13 °C	1,398.1 µS/cm	0.00 mg/L	133.06 NTU	-161.9 mV

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 7/1/2020 12:49:55 PM
Project: 1302-13 (21)
Operator Name:

Location Name: BH301	**Flow Cell Volume: 130 ml**	**Instrument Used: Aqua TROLL 500** **Serial Number: 714324**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10
7/1/2020 12:49 PM	00:00	7.11 pH	14.29 °C	1,211.2 µS/cm	3.28 mg/L	112.29 NTU	-145.9 mV
7/1/2020 12:52 PM	03:00	7.12 pH	12.83 °C	1,231.0 µS/cm	0.21 mg/L	45.28 NTU	-120.9 mV
7/1/2020 12:55 PM	06:00	7.11 pH	12.73 °C	1,223.5 µS/cm	0.18 mg/L	31.69 NTU	-115.8 mV
7/1/2020 12:58 PM	09:00	7.09 pH	12.66 °C	1,212.8 µS/cm	0.26 mg/L	21.26 NTU	-113.8 mV
7/1/2020 1:01 PM	12:00	7.08 pH	12.68 °C	1,211.2 µS/cm	0.30 mg/L	14.22 NTU	-107.9 mV
7/1/2020 1:04 PM	15:00	7.06 pH	12.73 °C	1,208.9 µS/cm	0.31 mg/L	8.60 NTU	-104.9 mV
7/1/2020 1:07 PM	18:00	7.06 pH	12.77 °C	1,207.3 µS/cm	0.32 mg/L	10.56 NTU	-102.7 mV

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 7/1/2020 1:15:04 PM
Project: 1302-13 (22)
Operator Name:

Location Name: SWS03	**Flow Cell Volume: 130 ml**	**Instrument Used: Aqua TROLL 500** **Serial Number: 714324**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10
7/1/2020 1:15 PM	00:00	7.27 pH	15.19 °C	1,404.7 µS/cm	1.64 mg/L	19.25 NTU	-183.2 mV
7/1/2020 1:18 PM	03:00	7.32 pH	14.22 °C	1,412.4 µS/cm	0.14 mg/L	72.69 NTU	-207.7 mV
7/1/2020 1:21 PM	06:00	7.33 pH	14.18 °C	1,412.1 µS/cm	0.06 mg/L	23.34 NTU	-211.2 mV
7/1/2020 1:24 PM	09:00	7.33 pH	14.11 °C	1,412.1 µS/cm	0.04 mg/L	22.09 NTU	-213.3 mV
7/1/2020 1:27 PM	12:00	7.33 pH	14.12 °C	1,411.4 µS/cm	0.03 mg/L	15.40 NTU	-213.5 mV

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 7/8/2020 9:28:51 AM
Project: 1302-13 (23)
Operator Name:

Location Name: BH306	**Flow Cell Volume: 130 ml**	**Instrument Used: Aqua TROLL 600** **Serial Number: 544789**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10
7/8/2020 9:28 AM	00:00	7.95 pH	13.31 °C	1,105.8 µS/cm	3.91 mg/L	1,232.3 NTU	15.0 mV
7/8/2020 9:31 AM	03:00	7.32 pH	12.52 °C	1,114.7 µS/cm	0.06 mg/L	197.04 NTU	-37.4 mV
7/8/2020 9:34 AM	06:00	7.29 pH	12.48 °C	1,114.1 µS/cm	0.02 mg/L	152.16 NTU	-48.1 mV
7/8/2020 9:37 AM	09:00	7.28 pH	12.46 °C	1,119.3 µS/cm	0.01 mg/L	92.15 NTU	-55.9 mV
7/8/2020 9:40 AM	12:00	7.27 pH	12.47 °C	1,120.6 µS/cm	0.00 mg/L	43.24 NTU	-62.6 mV
7/8/2020 9:43 AM	15:00	7.26 pH	12.45 °C	1,126.6 µS/cm	0.00 mg/L	31.40 NTU	-67.9 mV
7/8/2020 9:46 AM	18:00	7.25 pH	12.46 °C	1,119.2 µS/cm	0.00 mg/L	25.77 NTU	-72.5 mV
7/8/2020 9:49 AM	21:00	7.24 pH	12.45 °C	1,119.7 µS/cm	0.00 mg/L	14.44 NTU	-76.1 mV
7/8/2020 9:52 AM	24:00	7.23 pH	12.43 °C	1,121.4 µS/cm	0.00 mg/L	10.20 NTU	-79.5 mV
7/8/2020 9:55 AM	27:00	7.23 pH	12.44 °C	1,121.3 µS/cm	0.00 mg/L	8.60 NTU	-82.7 mV

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 7/8/2020 10:01:20 AM
Project: 1302-13 (24)
Operator Name:

Location Name: WS103	**Flow Cell Volume: 130 ml**	**Instrument Used: Aqua TROLL 600** **Serial Number: 544789**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10
7/8/2020 10:01 AM	00:00	7.24 pH	16.82 °C	1,156.7 µS/cm	4.75 mg/L	8.69 NTU	5.4 mV
7/8/2020 10:04 AM	03:00	7.28 pH	17.34 °C	1,147.8 µS/cm	0.29 mg/L	1.97 NTU	14.6 mV
7/8/2020 10:07 AM	06:00	7.28 pH	17.36 °C	1,148.8 µS/cm	0.26 mg/L	2.22 NTU	20.7 mV
7/8/2020 10:10 AM	09:00	7.29 pH	17.37 °C	1,149.2 µS/cm	0.25 mg/L	2.36 NTU	25.0 mV
7/8/2020 10:13 AM	12:00	7.29 pH	17.38 °C	1,149.3 µS/cm	0.23 mg/L	2.18 NTU	28.7 mV

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 7/8/2020 10:18:28 AM
Project: 1302-13 (25)
Operator Name:

Location Name: BH305	**Flow Cell Volume: 130 ml**	**Instrument Used: Aqua TROLL 600** **Serial Number: 544789**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10
7/8/2020 10:18 AM	00:00	7.32 pH	12.43 °C	1,173.0 µS/cm	3.25 mg/L	169.00 NTU	52.2 mV
7/8/2020 10:21 AM	03:00	7.24 pH	11.73 °C	1,186.5 µS/cm	0.34 mg/L	9,049.8 NTU	45.9 mV
7/8/2020 10:24 AM	06:00	7.24 pH	11.73 °C	1,188.8 µS/cm	0.27 mg/L	3,145.7 NTU	41.6 mV
7/8/2020 10:27 AM	09:00	7.25 pH	11.72 °C	1,185.9 µS/cm	0.24 mg/L	2,036.5 NTU	35.9 mV
7/8/2020 10:30 AM	12:00	7.26 pH	11.72 °C	1,186.1 µS/cm	0.19 mg/L	1,211.0 NTU	29.9 mV
7/8/2020 10:33 AM	15:00	7.26 pH	11.72 °C	1,188.9 µS/cm	0.15 mg/L	623.53 NTU	24.5 mV
7/8/2020 10:36 AM	18:00	7.26 pH	11.72 °C	1,188.8 µS/cm	0.11 mg/L	418.39 NTU	19.3 mV
7/8/2020 10:39 AM	21:00	7.25 pH	11.73 °C	1,192.3 µS/cm	0.08 mg/L	558.56 NTU	15.4 mV
7/8/2020 10:42 AM	24:00	7.24 pH	11.73 °C	1,197.0 µS/cm	0.07 mg/L	343.44 NTU	12.2 mV
7/8/2020 10:45 AM	27:00	7.24 pH	11.73 °C	1,198.4 µS/cm	0.05 mg/L	252.46 NTU	10.5 mV
7/8/2020 10:48 AM	30:00	7.23 pH	11.73 °C	1,200.4 µS/cm	0.04 mg/L	205.75 NTU	8.2 mV

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 7/8/2020 10:56:00 AM
Project: 1302-13 (26)
Operator Name:

Location Name: WS102	**Flow Cell Volume: 130 ml**	**Instrument Used: Aqua TROLL 600** **Serial Number: 544789**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10
7/8/2020 10:56 AM	00:00	7.27 pH	15.40 °C	1,149.5 µS/cm	4.40 mg/L	7.44 NTU	65.6 mV
7/8/2020 10:59 AM	03:00	7.24 pH	14.78 °C	1,145.7 µS/cm	0.15 mg/L	0.53 NTU	57.4 mV
7/8/2020 11:02 AM	06:00	7.26 pH	14.61 °C	1,144.6 µS/cm	0.08 mg/L	1.01 NTU	54.5 mV
7/8/2020 11:05 AM	09:00	7.27 pH	14.51 °C	1,144.1 µS/cm	0.05 mg/L	0.99 NTU	53.1 mV

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 7/8/2020 11:12:04 AM
Project: 1302-13 (27)
Operator Name:

Location Name: BH22	**Flow Cell Volume: 130 ml**	**Instrument Used: Aqua TROLL 600** **Serial Number: 544789**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10
7/8/2020 11:12 AM	00:00	7.24 pH	13.90 °C	1,064.6 µS/cm	4.51 mg/L	10.50 NTU	-279.1 mV
7/8/2020 11:15 AM	03:00	7.22 pH	13.15 °C	1,066.7 µS/cm	0.09 mg/L	4.66 NTU	-269.1 mV
7/8/2020 11:18 AM	06:00	7.22 pH	13.01 °C	1,064.7 µS/cm	0.05 mg/L	4.20 NTU	-269.1 mV
7/8/2020 11:21 AM	09:00	7.21 pH	12.95 °C	1,064.3 µS/cm	0.02 mg/L	5.57 NTU	-270.4 mV

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 7/8/2020 11:31:58 AM
Project: 1302-13 (28)
Operator Name:

Location Name: ASB1	**Flow Cell Volume: 130 ml**	**Instrument Used: Aqua TROLL 600** **Serial Number: 544789**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10
7/8/2020 11:31 AM	00:00	7.33 pH	12.46 °C	1,003.0 µS/cm	4.65 mg/L	5.79 NTU	-138.8 mV
7/8/2020 11:34 AM	03:00	7.18 pH	11.60 °C	1,017.5 µS/cm	0.05 mg/L	3.24 NTU	-165.0 mV
7/8/2020 11:37 AM	06:00	7.16 pH	11.56 °C	1,017.5 µS/cm	0.02 mg/L	2.85 NTU	-170.3 mV
7/8/2020 11:40 AM	09:00	7.16 pH	11.60 °C	1,016.6 µS/cm	0.27 mg/L	3.06 NTU	-165.3 mV

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 7/8/2020 11:48:25 AM
Project: 1302-13 (29)
Operator Name:

Location Name: BH304	**Flow Cell Volume: 130 ml**	**Instrument Used: Aqua TROLL 600** **Serial Number: 544789**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10
7/8/2020 11:48 AM	00:00	7.12 pH	12.90 °C	1,144.2 µS/cm	2.21 mg/L	0.97 NTU	-172.9 mV
7/8/2020 11:51 AM	03:00	7.12 pH	12.67 °C	1,141.2 µS/cm	0.02 mg/L	0.00 NTU	-203.6 mV
7/8/2020 11:54 AM	06:00	7.12 pH	12.65 °C	1,149.9 µS/cm	0.00 mg/L	0.00 NTU	-210.4 mV
7/8/2020 11:57 AM	09:00	7.12 pH	12.66 °C	1,153.8 µS/cm	0.00 mg/L	0.00 NTU	-214.6 mV
7/8/2020 12:00 PM	12:00	7.11 pH	12.66 °C	1,151.5 µS/cm	0.00 mg/L	0.00 NTU	-217.1 mV

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 7/8/2020 12:11:03 PM
Project: 1302-13 (30)
Operator Name:

Location Name: BH303	**Flow Cell Volume: 130 ml**	**Instrument Used: Aqua TROLL 600** **Serial Number: 544789**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10
7/8/2020 12:11 PM	00:00	6.85 pH	13.54 °C	1,800.8 µS/cm	3.95 mg/L	2.30 NTU	-150.6 mV
7/8/2020 12:14 PM	03:00	6.87 pH	12.66 °C	1,861.7 µS/cm	0.10 mg/L	0.18 NTU	-182.6 mV
7/8/2020 12:17 PM	06:00	6.86 pH	12.63 °C	1,883.6 µS/cm	0.04 mg/L	0.19 NTU	-187.7 mV
7/8/2020 12:20 PM	09:00	6.86 pH	12.60 °C	1,893.0 µS/cm	0.02 mg/L	0.36 NTU	-191.9 mV

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 7/8/2020 12:29:43 PM
Project: 1302-13 (31)
Operator Name:

Location Name: BH302	**Flow Cell Volume: 130 ml**	**Instrument Used: Aqua TROLL 600** **Serial Number: 544789**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10
7/8/2020 12:29 PM	00:00	6.92 pH	12.41 °C	1,325.9 µS/cm	0.66 mg/L	0.00 NTU	-155.1 mV
7/8/2020 12:32 PM	03:00	6.91 pH	12.28 °C	1,360.3 µS/cm	0.00 mg/L	0.28 NTU	-163.2 mV
7/8/2020 12:35 PM	06:00	6.90 pH	12.26 °C	1,374.3 µS/cm	0.00 mg/L	0.68 NTU	-168.2 mV
7/8/2020 12:38 PM	09:00	6.89 pH	12.23 °C	1,388.4 µS/cm	0.00 mg/L	1.67 NTU	-173.7 mV
7/8/2020 12:41 PM	12:00	6.89 pH	12.22 °C	1,387.2 µS/cm	0.00 mg/L	1.32 NTU	-175.3 mV

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 7/8/2020 12:48:04 PM
Project: 1302-13 (32)
Operator Name:

Location Name: BH301	**Flow Cell Volume: 130 ml**	**Instrument Used: Aqua TROLL 600** **Serial Number: 544789**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10
7/8/2020 12:48 PM	00:00	7.16 pH	14.39 °C	1,084.7 µS/cm	5.85 mg/L	6.92 NTU	-67.6 mV
7/8/2020 12:51 PM	03:00	7.11 pH	12.97 °C	1,095.9 µS/cm	0.15 mg/L	0.00 NTU	-93.6 mV
7/8/2020 12:54 PM	06:00	7.11 pH	12.98 °C	1,089.8 µS/cm	0.14 mg/L	0.00 NTU	-99.0 mV
7/8/2020 12:57 PM	09:00	7.13 pH	13.07 °C	1,090.4 µS/cm	2.18 mg/L	0.00 NTU	-81.3 mV
7/8/2020 1:00 PM	12:00	7.09 pH	13.01 °C	1,086.2 µS/cm	0.16 mg/L	0.00 NTU	-91.7 mV
7/8/2020 1:03 PM	15:00	7.09 pH	13.00 °C	1,082.3 µS/cm	0.12 mg/L	0.00 NTU	-95.2 mV
7/8/2020 1:06 PM	18:00	7.09 pH	13.00 °C	1,088.6 µS/cm	0.12 mg/L	0.00 NTU	-96.7 mV

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 7/8/2020 1:11:13 PM
Project: 1302-13 (33)
Operator Name:

Location Name: SWS03	**Flow Cell Volume: 130 ml**	**Instrument Used: Aqua TROLL 600** **Serial Number: 544789**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10
7/8/2020 1:11 PM	00:00	7.14 pH	14.87 °C	1,255.6 µS/cm	3.20 mg/L	91.82 NTU	-149.6 mV
7/8/2020 1:14 PM	03:00	7.28 pH	14.19 °C	1,260.1 µS/cm	0.09 mg/L	37.41 NTU	-190.1 mV
7/8/2020 1:17 PM	06:00	7.23 pH	15.52 °C	0.07 µS/cm	0.47 mg/L	40.89 NTU	-183.5 mV
7/8/2020 1:20 PM	09:00	7.29 pH	14.17 °C	1,261.9 µS/cm	1.57 mg/L	4.42 NTU	-172.6 mV
7/8/2020 1:23 PM	12:00	7.31 pH	14.15 °C	1,260.4 µS/cm	0.06 mg/L	1.51 NTU	-198.0 mV
7/8/2020 1:26 PM	15:00	7.32 pH	14.14 °C	1,261.3 µS/cm	0.01 mg/L	0.00 NTU	-206.6 mV
7/8/2020 1:29 PM	18:00	7.33 pH	14.13 °C	1,261.4 µS/cm	0.00 mg/L	0.00 NTU	-211.4 mV
7/8/2020 1:32 PM	21:00	7.33 pH	14.10 °C	1,260.2 µS/cm	0.00 mg/L	0.00 NTU	-214.3 mV

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 7/22/2020 9:52:39 AM
Project: 1302-13 (2)
Operator Name: RM

Location Name: WS103	**Flow Cell Volume: 130 ml**	**Instrument Used: Aqua TROLL 600** **Serial Number: 660833**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10
7/22/2020 9:52 AM	00:00	7.21 pH	16.94 °C	1,214.0 µS/cm	2.86 mg/L	0.56 NTU	-5.0 mV
7/22/2020 9:55 AM	03:00	7.19 pH	17.01 °C	1,213.4 µS/cm	0.21 mg/L	0.53 NTU	18.8 mV
7/22/2020 9:58 AM	06:00	7.18 pH	17.02 °C	1,213.9 µS/cm	0.18 mg/L	0.54 NTU	24.7 mV
7/22/2020 10:01 AM	09:00	7.18 pH	17.02 °C	1,214.1 µS/cm	0.15 mg/L	0.53 NTU	28.2 mV

Samples

Sample ID:	Description:
WS103	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 7/22/2020 11:02:53 AM
Project: 1302-13 (4)
Operator Name: RM

Location Name: ASB1	**Flow Cell Volume: 130 ml**	**Instrument Used: Aqua TROLL 600** **Serial Number: 660833**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10
7/22/2020 11:02 AM	00:00	7.10 pH	14.01 °C	1,012.4 µS/cm	6.69 mg/L	39.09 NTU	59.2 mV
7/22/2020 11:05 AM	03:00	6.87 pH	11.95 °C	1,026.9 µS/cm	0.21 mg/L	1.97 NTU	60.5 mV
7/22/2020 11:08 AM	06:00	6.74 pH	11.98 °C	1,031.8 µS/cm	0.12 mg/L	3.40 NTU	65.7 mV
7/22/2020 11:11 AM	09:00	6.74 pH	11.90 °C	1,028.3 µS/cm	0.10 mg/L	10.00 NTU	64.3 mV
7/22/2020 11:14 AM	12:00	6.77 pH	11.91 °C	1,036.0 µS/cm	0.09 mg/L	26.43 NTU	62.2 mV
7/22/2020 11:17 AM	15:00	6.80 pH	12.02 °C	1,060.1 µS/cm	0.07 mg/L	42.08 NTU	61.8 mV
7/22/2020 11:20 AM	18:00	6.84 pH	11.92 °C	1,027.3 µS/cm	0.06 mg/L	44.29 NTU	59.1 mV
7/22/2020 11:23 AM	21:00	6.86 pH	11.96 °C	1,025.7 µS/cm	0.05 mg/L	52.60 NTU	58.1 mV
7/22/2020 11:26 AM	24:00	6.88 pH	11.93 °C	1,051.4 µS/cm	0.04 mg/L	90.49 NTU	57.1 mV
7/22/2020 11:29 AM	27:00	6.90 pH	11.95 °C	1,051.4 µS/cm	0.04 mg/L	113.68 NTU	55.7 mV
7/22/2020 11:32 AM	30:00	6.91 pH	12.13 °C	1,070.6 µS/cm	0.03 mg/L	162.04 NTU	56.8 mV

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 7/22/2020 12:24:07 PM
Project: 1302-13 (6)
Operator Name: RM

Location Name: BH303	**Flow Cell Volume: 130 ml**	**Instrument Used: Aqua TROLL 600** **Serial Number: 660833**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10
7/22/2020 12:24 PM	00:00	6.84 pH	13.98 °C	1,794.2 µS/cm	5.30 mg/L	8.84 NTU	-184.5 mV
7/22/2020 12:27 PM	03:00	6.57 pH	12.55 °C	1,884.3 µS/cm	0.11 mg/L	6.79 NTU	-212.0 mV
7/22/2020 12:30 PM	06:00	6.48 pH	12.57 °C	1,899.6 µS/cm	0.07 mg/L	9.74 NTU	-215.3 mV
7/22/2020 12:33 PM	09:00	6.50 pH	12.54 °C	1,913.4 µS/cm	0.06 mg/L	16.80 NTU	-219.1 mV
7/22/2020 12:36 PM	12:00	6.52 pH	12.53 °C	1,898.3 µS/cm	0.03 mg/L	39.87 NTU	-226.1 mV
7/22/2020 12:39 PM	15:00	6.54 pH	12.52 °C	1,892.6 µS/cm	0.01 mg/L	38.16 NTU	-231.6 mV
7/22/2020 12:42 PM	18:00	6.56 pH	12.52 °C	1,882.7 µS/cm	0.00 mg/L	54.68 NTU	-234.7 mV
7/22/2020 12:45 PM	21:00	6.59 pH	12.60 °C	1,876.4 µS/cm	0.00 mg/L	82.16 NTU	-235.4 mV
7/22/2020 12:48 PM	24:00	6.64 pH	12.64 °C	1,931.0 µS/cm	0.00 mg/L	171.31 NTU	-238.5 mV
7/22/2020 12:51 PM	27:00	6.67 pH	12.63 °C	1,918.6 µS/cm	0.00 mg/L	246.32 NTU	-239.9 mV
7/22/2020 12:54 PM	30:00	6.69 pH	12.53 °C	1,965.8 µS/cm	0.00 mg/L	302.24 NTU	-244.6 mV

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 7/22/2020 1:56:25 PM
Project: 1302-13 (8)
Operator Name: RM

Location Name: BH301	**Flow Cell Volume: 130 ml**	**Instrument Used: Aqua TROLL 600** **Serial Number: 660833**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10
7/22/2020 1:56 PM	00:00	7.15 pH	14.46 °C	1,072.1 µS/cm	5.12 mg/L	6.25 NTU	-88.3 mV
7/22/2020 1:59 PM	03:00	6.76 pH	13.18 °C	888.94 µS/cm	0.11 mg/L	4.27 NTU	-98.8 mV
7/22/2020 2:02 PM	06:00	6.67 pH	13.06 °C	876.41 µS/cm	0.09 mg/L	1.62 NTU	-106.8 mV
7/22/2020 2:05 PM	09:00	6.67 pH	12.99 °C	873.58 µS/cm	0.10 mg/L	1.54 NTU	-115.2 mV
7/22/2020 2:08 PM	12:00	6.71 pH	13.04 °C	870.32 µS/cm	0.11 mg/L	1.82 NTU	-122.4 mV
7/22/2020 2:11 PM	15:00	6.75 pH	12.98 °C	868.33 µS/cm	0.11 mg/L	3.50 NTU	-129.3 mV
7/22/2020 2:14 PM	18:00	6.80 pH	12.98 °C	866.97 µS/cm	0.11 mg/L	4.67 NTU	-134.9 mV
7/22/2020 2:17 PM	21:00	6.85 pH	12.99 °C	859.99 µS/cm	0.11 mg/L	7.09 NTU	-139.3 mV

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 7/23/2020 8:34:28 AM
Project: 1302-13 (10)
Operator Name: RM

Location Name: BH22	**Flow Cell Volume: 130 ml**	**Instrument Used: Aqua TROLL 600** **Serial Number: 660833**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10
7/23/2020 8:34 AM	00:00	7.14 pH	16.40 °C	1,130.3 µS/cm	4.25 mg/L	132.81 NTU	-273.6 mV
7/23/2020 8:37 AM	03:00	6.99 pH	14.59 °C	1,112.2 µS/cm	0.13 mg/L	46.83 NTU	-281.3 mV
7/23/2020 8:40 AM	06:00	6.87 pH	13.93 °C	1,099.7 µS/cm	0.08 mg/L	27.87 NTU	-273.8 mV
7/23/2020 8:43 AM	09:00	6.82 pH	13.53 °C	1,100.5 µS/cm	0.06 mg/L	43.19 NTU	-263.3 mV
7/23/2020 8:46 AM	12:00	6.80 pH	13.32 °C	1,124.7 µS/cm	0.04 mg/L	88.40 NTU	-255.3 mV
7/23/2020 8:49 AM	15:00	6.80 pH	13.23 °C	1,137.5 µS/cm	0.04 mg/L	143.11 NTU	-249.9 mV
7/23/2020 8:52 AM	18:00	6.80 pH	13.12 °C	1,131.6 µS/cm	0.03 mg/L	222.44 NTU	-245.2 mV
7/23/2020 8:55 AM	21:00	6.81 pH	13.09 °C	1,123.9 µS/cm	0.02 mg/L	259.99 NTU	-242.1 mV
7/23/2020 8:58 AM	24:00	6.83 pH	13.09 °C	1,132.9 µS/cm	0.02 mg/L	338.21 NTU	-239.6 mV
7/23/2020 9:01 AM	27:00	6.84 pH	13.07 °C	1,150.6 µS/cm	0.02 mg/L	449.24 NTU	-237.7 mV
7/23/2020 9:04 AM	30:00	6.86 pH	13.07 °C	1,137.7 µS/cm	0.01 mg/L	695.49 NTU	-235.5 mV

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 7/22/2020 9:07:15 AM
Project: 1302-13
Operator Name: RM

Location Name: BH306	**Flow Cell Volume: 130 ml**	**Instrument Used: Aqua TROLL 600** **Serial Number: 660833**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10
7/22/2020 9:07 AM	00:00	6.99 pH	12.73 °C	1,128.0 µS/cm	4.67 mg/L	27.98 NTU	4.7 mV
7/22/2020 9:10 AM	03:00	6.87 pH	12.62 °C	1,132.7 µS/cm	0.30 mg/L	14.90 NTU	-16.9 mV
7/22/2020 9:13 AM	06:00	6.84 pH	12.64 °C	1,124.0 µS/cm	0.23 mg/L	16.31 NTU	-25.9 mV
7/22/2020 9:16 AM	09:00	6.86 pH	12.63 °C	1,118.4 µS/cm	0.20 mg/L	26.32 NTU	-32.1 mV
7/22/2020 9:19 AM	12:00	6.88 pH	12.61 °C	1,093.5 µS/cm	0.20 mg/L	23.66 NTU	-38.3 mV
7/22/2020 9:22 AM	15:00	6.90 pH	12.60 °C	1,084.0 µS/cm	0.16 mg/L	29.47 NTU	-42.6 mV
7/22/2020 9:25 AM	18:00	6.92 pH	12.59 °C	1,074.8 µS/cm	0.16 mg/L	93.48 NTU	-47.3 mV
7/22/2020 9:28 AM	21:00	6.95 pH	12.59 °C	1,049.3 µS/cm	0.12 mg/L	28.26 NTU	-51.6 mV
7/22/2020 9:31 AM	24:00	6.96 pH	12.58 °C	1,023.3 µS/cm	0.10 mg/L	36.77 NTU	-55.6 mV
7/22/2020 9:34 AM	27:00	6.97 pH	12.59 °C	1,012.6 µS/cm	0.11 mg/L	31.01 NTU	-58.4 mV
7/22/2020 9:37 AM	30:00	6.98 pH	12.58 °C	989.39 µS/cm	0.10 mg/L	23.62 NTU	-62.6 mV

Samples

Sample ID:	Description:
BH306	

Low-Flow Test Report:

Test Date / Time: 7/22/2020 10:13:56 AM
Project: 1302-13 (3)
Operator Name: RM

Location Name: BH305	**Flow Cell Volume: 130 ml**	**Instrument Used: Aqua TROLL 600** **Serial Number: 660833**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10
7/22/2020 10:13 AM	00:00	7.24 pH	13.14 °C	1,169.1 µS/cm	5.84 mg/L	67.16 NTU	51.6 mV
7/22/2020 10:16 AM	03:00	6.95 pH	12.19 °C	1,186.7 µS/cm	0.30 mg/L	1,220.0 NTU	53.3 mV
7/22/2020 10:19 AM	06:00	6.85 pH	12.14 °C	1,187.9 µS/cm	0.20 mg/L	953.78 NTU	54.6 mV
7/22/2020 10:22 AM	09:00	6.84 pH	12.10 °C	1,189.3 µS/cm	0.16 mg/L	937.42 NTU	51.5 mV
7/22/2020 10:25 AM	12:00	6.87 pH	12.09 °C	1,191.5 µS/cm	0.14 mg/L	634.78 NTU	47.5 mV
7/22/2020 10:28 AM	15:00	6.90 pH	12.07 °C	1,195.5 µS/cm	0.11 mg/L	474.82 NTU	43.5 mV
7/22/2020 10:31 AM	18:00	6.93 pH	12.05 °C	1,198.8 µS/cm	0.09 mg/L	594.40 NTU	39.5 mV
7/22/2020 10:34 AM	21:00	6.96 pH	12.04 °C	1,201.3 µS/cm	0.07 mg/L	624.92 NTU	37.0 mV
7/22/2020 10:37 AM	24:00	6.99 pH	12.02 °C	1,206.2 µS/cm	0.06 mg/L	690.13 NTU	35.8 mV
7/22/2020 10:40 AM	27:00	7.01 pH	12.01 °C	1,214.5 µS/cm	0.05 mg/L	590.50 NTU	34.6 mV
7/22/2020 10:43 AM	30:00	7.02 pH	12.00 °C	1,215.5 µS/cm	0.04 mg/L	406.96 NTU	33.7 mV

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 7/22/2020 11:38:53 AM
Project: 1302-13 (5)
Operator Name: RM

Location Name: BH304	**Flow Cell Volume: 130 ml**	**Instrument Used: Aqua TROLL 600** **Serial Number: 660833**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10
7/22/2020 11:38 AM	00:00	7.00 pH	13.75 °C	1,246.1 µS/cm	4.48 mg/L	3.75 NTU	-65.4 mV
7/22/2020 11:41 AM	03:00	6.93 pH	12.85 °C	1,279.7 µS/cm	0.15 mg/L	0.54 NTU	-145.7 mV
7/22/2020 11:44 AM	06:00	6.92 pH	12.84 °C	1,286.5 µS/cm	0.08 mg/L	1.62 NTU	-176.9 mV
7/22/2020 11:47 AM	09:00	6.93 pH	12.85 °C	1,293.3 µS/cm	0.06 mg/L	9.59 NTU	-190.5 mV
7/22/2020 11:50 AM	12:00	6.94 pH	12.86 °C	1,292.9 µS/cm	0.05 mg/L	23.68 NTU	-200.0 mV
7/22/2020 11:53 AM	15:00	6.94 pH	12.86 °C	1,293.7 µS/cm	0.04 mg/L	39.19 NTU	-204.4 mV
7/22/2020 11:56 AM	18:00	6.94 pH	12.91 °C	1,295.8 µS/cm	0.03 mg/L	65.08 NTU	-211.7 mV
7/22/2020 11:59 AM	21:00	6.94 pH	12.89 °C	1,296.0 µS/cm	0.03 mg/L	91.51 NTU	-216.8 mV
7/22/2020 12:02 PM	24:00	6.95 pH	12.91 °C	1,301.7 µS/cm	0.02 mg/L	236.78 NTU	-222.4 mV
7/22/2020 12:05 PM	27:00	6.95 pH	12.90 °C	1,305.2 µS/cm	0.02 mg/L	299.65 NTU	-224.7 mV
7/22/2020 12:08 PM	30:00	6.94 pH	12.91 °C	1,315.2 µS/cm	0.02 mg/L	296.17 NTU	-229.8 mV

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 7/22/2020 1:11:37 PM
Project: 1302-13 (7)
Operator Name: RM

Location Name: BH302	**Flow Cell Volume: 130 ml**	**Instrument Used: Aqua TROLL 600** **Serial Number: 660833**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10
7/22/2020 1:11 PM	00:00	6.84 pH	13.71 °C	1,303.2 µS/cm	3.60 mg/L	262.67 NTU	-179.4 mV
7/22/2020 1:14 PM	03:00	6.51 pH	12.40 °C	1,363.0 µS/cm	0.09 mg/L	70.45 NTU	-164.9 mV
7/22/2020 1:17 PM	06:00	6.43 pH	12.37 °C	1,392.0 µS/cm	0.05 mg/L	79.15 NTU	-168.1 mV
7/22/2020 1:20 PM	09:00	6.42 pH	12.55 °C	1,398.6 µS/cm	0.05 mg/L	104.69 NTU	-171.3 mV
7/22/2020 1:23 PM	12:00	6.45 pH	12.60 °C	1,414.1 µS/cm	0.01 mg/L	194.92 NTU	-177.9 mV
7/22/2020 1:26 PM	15:00	6.48 pH	12.60 °C	1,421.5 µS/cm	0.00 mg/L	282.94 NTU	-183.7 mV
7/22/2020 1:29 PM	18:00	6.52 pH	12.60 °C	1,423.9 µS/cm	0.00 mg/L	122.58 NTU	-185.0 mV
7/22/2020 1:32 PM	21:00	6.56 pH	12.51 °C	1,404.4 µS/cm	0.00 mg/L	190.42 NTU	-188.6 mV
7/22/2020 1:35 PM	24:00	6.59 pH	12.46 °C	1,359.5 µS/cm	0.00 mg/L	152.18 NTU	-190.1 mV
7/22/2020 1:38 PM	27:00	6.60 pH	12.40 °C	1,349.4 µS/cm	0.00 mg/L	76.26 NTU	-192.5 mV
7/22/2020 1:41 PM	30:00	6.64 pH	12.58 °C	1,335.0 µS/cm	0.00 mg/L	112.43 NTU	-195.2 mV

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 7/22/2020 2:30:16 PM
Project: 1302-13 (9)
Operator Name: RM

Location Name: SWS03	**Flow Cell Volume: 130 ml**	**Instrument Used: Aqua TROLL 600** **Serial Number: 660833**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10
7/22/2020 2:30 PM	00:00	7.24 pH	15.85 °C	1,280.9 µS/cm	6.08 mg/L	63.79 NTU	-170.1 mV
7/22/2020 2:33 PM	03:00	7.13 pH	14.50 °C	1,306.6 µS/cm	0.13 mg/L	44.43 NTU	-219.1 mV
7/22/2020 2:36 PM	06:00	7.08 pH	14.41 °C	1,298.7 µS/cm	0.08 mg/L	48.37 NTU	-220.8 mV
7/22/2020 2:39 PM	09:00	7.09 pH	14.38 °C	1,278.5 µS/cm	0.10 mg/L	204.96 NTU	-223.9 mV
7/22/2020 2:42 PM	12:00	7.14 pH	14.37 °C	1,209.1 µS/cm	0.04 mg/L	500.37 NTU	-228.4 mV
7/22/2020 2:45 PM	15:00	7.17 pH	14.36 °C	1,157.7 µS/cm	0.06 mg/L	871.56 NTU	-230.8 mV
7/22/2020 2:48 PM	18:00	7.19 pH	14.32 °C	1,117.8 µS/cm	0.02 mg/L	1,841.2 NTU	-233.7 mV
7/22/2020 2:51 PM	21:00	7.20 pH	14.31 °C	1,071.4 µS/cm	0.06 mg/L	2,007.7 NTU	-235.0 mV
7/22/2020 2:54 PM	24:00	7.22 pH	14.29 °C	1,064.2 µS/cm	0.03 mg/L	712.09 NTU	-236.0 mV
7/22/2020 2:57 PM	27:00	7.22 pH	14.28 °C	1,259.8 µS/cm	0.04 mg/L	73.61 NTU	-237.2 mV
7/22/2020 3:00 PM	30:00	7.23 pH	14.31 °C	1,177.3 µS/cm	0.00 mg/L	138.71 NTU	-237.9 mV

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 7/23/2020 9:13:58 AM
Project: 1302-13 (11)
Operator Name: RM

Location Name: WS102	**Flow Cell Volume: 130 ml**	**Instrument Used: Aqua TROLL 600** **Serial Number: 660833**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10
7/23/2020 9:13 AM	00:00	7.08 pH	16.11 °C	1,266.8 µS/cm	1.45 mg/L	1.12 NTU	-147.9 mV
7/23/2020 9:16 AM	03:00	7.17 pH	15.61 °C	1,226.3 µS/cm	0.18 mg/L	0.74 NTU	-170.0 mV
7/23/2020 9:19 AM	06:00	7.18 pH	15.49 °C	1,220.8 µS/cm	0.12 mg/L	0.64 NTU	-176.0 mV
7/23/2020 9:22 AM	09:00	7.18 pH	15.45 °C	1,221.2 µS/cm	0.11 mg/L	0.77 NTU	-177.0 mV

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Appendix C

Laboratory Analysis

Chemtest
The right chemistry to deliver results
Chemtest Ltd.
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

UKAS TESTING 2183

Final Report

Report No.:	20-13570-1		
Initial Date of Issue:	05-Jun-2020		
Client	Pam Brown Associates		
Client Address:	Needwood House, Lancaster Park Newborough Road Needwood Staffordshire DE13 9PD		
Contact(s):	Enquiries Rudo Mafikeni		
Project	1302-13 Wheathampstead		
Quotation No.:	Q19-17781	**Date Received:**	29-May-2020
Order No.:		**Date Instructed:**	01-Jun-2020
No. of Samples:	10		
Turnaround (Wkdays):	5	**Results Due:**	05-Jun-2020
Date Approved:	05-Jun-2020		

Approved By:

Details: Glynn Harvey, Technical Manager

Chemtest
The right chemistry to deliver results

Results - Water

Project: 1302-13 Wheathampstead

Client: Pam Brown Associates				**Chemtest Job No.:**	20-13570	20-13570	20-13570	20-13570	20-13570	20-13570	20-13570	20-13570	20-13570
Quotation No.: Q19-17781				**Chemtest Sample ID.:**	1010503	1010504	1010505	1010506	1010507	1010508	1010509	1010510	1010511
				Sample Location:	BH22	S1	BH302	BH303	BH304	BH305	BH306	WS102	WS103
				Sample Type:	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
				Date Sampled:	27-May-2020	28-May-2020	27-May-2020	27-May-2020	27-May-2020	27-May-2020	27-May-2020	27-May-2020	27-May-2020
Determinand	**Accred.**	**SOP**	**Units**	**LOD**									
pH	U	1010		N/A	8.2	8.4	8.1	8.2	8.0	8.1	8.2	8.4	8.4
Electrical Conductivity	U	1020	µS/cm	1.0			1400				1000		
Turbidity	N	1060	NTU	1.0	< 1.0		160	530	280	200	110	2.0	
Dissolved Oxygen	N	1150	mg O2/l	0.50	7.9	7.8	8.0	7.9	7.9	8.0	7.9	8.0	8.0
Redox Potential	N	1170	mV	N/A	150	150	160	150	140	140	130	140	140
Chloride	U	1220	mg/l	1.0	97	90	46	47	45	130	98	94	90
Nitrate	U	1220	mg/l	0.50	0.62	110	< 0.50	< 0.50	< 0.50	8.3	< 0.50	60	110
Sulphate	U	1220	mg/l	1.0	75	100	190	710	460	140	110	120	98
Manganese (Dissolved)	U	1450	µg/l	1.0	24	6.4	290	820	440	36	6.3	80	33
Iron [II]	N	1450	µg/l	20	< 20	< 20	90	540	630	< 20	< 20	< 20	< 20
Iron [III]	N	1450	µg/l	20	270	710	2400	1800	1900	1100	1200	640	660
Dissolved Methane	N	1630	mg/l	0.050	< 0.050	< 0.050	0.65	0.46	0.14	< 0.050	< 0.050	< 0.050	< 0.050
Aliphatic TPH >C5-C6	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C6-C8	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C8-C10	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C10-C12	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C12-C16	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C16-C21	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C21-C35	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C35-C44	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Aliphatic Hydrocarbons	N	1675	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C7-C8	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C8-C10	N	1675	µg/l	0.10	< 0.10	< 0.10	88	230	22	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C10-C12	N	1675	µg/l	0.10	< 0.10	< 0.10	260	45	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C12-C16	N	1675	µg/l	0.10	< 0.10	< 0.10	2000	120	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C16-C21	N	1675	µg/l	0.10	< 0.10	< 0.10	1500	63	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C21-C35	N	1675	µg/l	0.10	< 0.10	< 0.10	55	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C35-C44	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Aromatic Hydrocarbons	N	1675	µg/l	5.0	< 5.0	< 5.0	4000	450	22	< 5.0	< 5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	1675	µg/l	10	< 10	< 10	4000	450	22	< 10	< 10	< 10	< 10
Naphthalene	U	1700	µg/l	0.10	< 0.10	< 0.10	62	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	U	1700	µg/l	0.10	< 0.10	< 0.10	14	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	U	1700	µg/l	0.10	< 0.10	< 0.10	23	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	U	1700	µg/l	0.10	< 0.10	< 0.10	11	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	U	1700	µg/l	0.10	< 0.10	< 0.10	42	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	U	1700	µg/l	0.10	< 0.10	< 0.10	9.5	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	N	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Water

Project: 1302-13 Wheathampstead

Client: Pam Brown Associates				**Chemtest Job No.:**	20-13570	20-13570	20-13570	20-13570	20-13570	20-13570	20-13570	20-13570	20-13570
Quotation No.: Q19-17781				**Chemtest Sample ID.:**	1010503	1010504	1010505	1010506	1010507	1010508	1010509	1010510	1010511
				Sample Location:	BH22	S1	BH302	BH303	BH304	BH305	BH306	WS102	WS103
				Sample Type:	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
				Date Sampled:	27-May-2020	28-May-2020	27-May-2020	27-May-2020	27-May-2020	27-May-2020	27-May-2020	27-May-2020	27-May-2020
Determinand	**Accred.**	**SOP**	**Units**	**LOD**									
Benzo[b]fluoranthene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	N	1700	µg/l	2.0	< 2.0	< 2.0	160	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
2-Chlorophenol	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

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Results - Water

Project: 1302-13 Wheathampstead

Client: Pam Brown Associates			**Chemtest Job No.:**		20-13570
Quotation No.: Q19-17781			**Chemtest Sample ID.:**		1010512
			Sample Location:		ASB1
			Sample Type:		WATER
			Date Sampled:		27-May-2020
Determinand	**Accred.**	**SOP**	**Units**	**LOD**	
pH	U	1010		N/A	8.2
Electrical Conductivity	U	1020	µS/cm	1.0	
Turbidity	N	1060	NTU	1.0	
Dissolved Oxygen	N	1150	mg O2/l	0.50	8.1
Redox Potential	N	1170	mV	N/A	150
Chloride	U	1220	mg/l	1.0	84
Nitrate	U	1220	mg/l	0.50	2.5
Sulphate	U	1220	mg/l	1.0	100
Manganese (Dissolved)	U	1450	µg/l	1.0	190
Iron [II]	N	1450	µg/l	20	< 20
Iron [III]	N	1450	µg/l	20	800
Dissolved Methane	N	1630	mg/l	0.050	< 0.050
Aliphatic TPH >C5-C6	N	1675	µg/l	0.10	< 0.10
Aliphatic TPH >C6-C8	N	1675	µg/l	0.10	< 0.10
Aliphatic TPH >C8-C10	N	1675	µg/l	0.10	< 0.10
Aliphatic TPH >C10-C12	N	1675	µg/l	0.10	< 0.10
Aliphatic TPH >C12-C16	N	1675	µg/l	0.10	< 0.10
Aliphatic TPH >C16-C21	N	1675	µg/l	0.10	< 0.10
Aliphatic TPH >C21-C35	N	1675	µg/l	0.10	< 0.10
Aliphatic TPH >C35-C44	N	1675	µg/l	0.10	< 0.10
Total Aliphatic Hydrocarbons	N	1675	µg/l	5.0	< 5.0
Aromatic TPH >C5-C7	N	1675	µg/l	0.10	< 0.10
Aromatic TPH >C7-C8	N	1675	µg/l	0.10	< 0.10
Aromatic TPH >C8-C10	N	1675	µg/l	0.10	< 0.10
Aromatic TPH >C10-C12	N	1675	µg/l	0.10	47
Aromatic TPH >C12-C16	N	1675	µg/l	0.10	490
Aromatic TPH >C16-C21	N	1675	µg/l	0.10	76
Aromatic TPH >C21-C35	N	1675	µg/l	0.10	< 0.10
Aromatic TPH >C35-C44	N	1675	µg/l	0.10	< 0.10
Total Aromatic Hydrocarbons	N	1675	µg/l	5.0	610
Total Petroleum Hydrocarbons	N	1675	µg/l	10	610
Naphthalene	U	1700	µg/l	0.10	< 0.10
Acenaphthylene	U	1700	µg/l	0.10	< 0.10
Acenaphthene	U	1700	µg/l	0.10	< 0.10
Fluorene	U	1700	µg/l	0.10	< 0.10
Phenanthrene	U	1700	µg/l	0.10	< 0.10
Anthracene	U	1700	µg/l	0.10	< 0.10
Fluoranthene	U	1700	µg/l	0.10	< 0.10
Pyrene	U	1700	µg/l	0.10	< 0.10
Benzo[a]anthracene	U	1700	µg/l	0.10	< 0.10
Chrysene	N	1700	µg/l	0.10	< 0.10

Results - Water

Project: 1302-13 Wheathampstead

Client: Pam Brown Associates				**Chemtest Job No.:**	20-13570
Quotation No.: Q19-17781				**Chemtest Sample ID.:**	1010512
				Sample Location:	ASB1
				Sample Type:	WATER
				Date Sampled:	27-May-2020
Determinand	**Accred.**	**SOP**	**Units**	**LOD**	
Benzo[b]fluoranthene	U	1700	µg/l	0.10	< 0.10
Benzo[k]fluoranthene	U	1700	µg/l	0.10	< 0.10
Benzo[a]pyrene	U	1700	µg/l	0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1700	µg/l	0.10	< 0.10
Dibenz(a,h)Anthracene	U	1700	µg/l	0.10	< 0.10
Benzo[g,h,i]perylene	U	1700	µg/l	0.10	< 0.10
Total Of 16 PAH's	N	1700	µg/l	2.0	< 2.0
2-Chlorophenol	N	1790	µg/l	0.50	< 0.50

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Conductivity Meter
1060	Turbidity	Turbidity	Spetctrophotometry
1150	Dissolved Oxygen	Dissolved Oxygen (DO)	Electrometric determination (on site preferred), using oxygen sensitive membrane electrode.
1170	Redox Potential	Redox Potential	Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1450	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1675	TPH Aliphatic/Aromatic split in Waters by GC-FID(cf. Texas Method 1006 / TPH CWG)	Aliphatics: >C5–C6, >C6–C8, >C8– C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Pentane extraction / GCxGC FID detection
1700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)
1790	Semi-Volatile Organic Compounds (SVOCs) in Waters by GC-MS	Semi-volatile organic compounds	Solvent extraction / GCMS detection

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"

Comments or interpretations are beyond the scope of UKAS accreditation
The results relate only to the items tested
Uncertainty of measurement for the determinands tested are available upon request
None of the results in this report have been recovery corrected
All results are expressed on a dry weight basis
The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols
For all other tests the samples were dried at < 37°C prior to analysis
All Asbestos testing is performed at the indicated laboratory
Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

A - Date of sampling not supplied
B - Sample age exceeds stability time (sampling to extraction)
C - Sample not received in appropriate containers
D - Broken Container
E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 45 days from the date of receipt
All water samples will be retained for 14 days from the date of receipt
Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

Chemtest
The right chemistry to deliver results
Chemtest Ltd.
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

UKAS TESTING 2183

Final Report

Report No.:	20-13666-1		
Initial Date of Issue:	05-Jun-2020		
Client	Pam Brown Associates		
Client Address:	Needwood House, Lancaster Park Newborough Road Needwood Staffordshire DE13 9PD		
Contact(s):	Enquiries Rudo Mafikeni		
Project	1302-13 Wheathampstead		
Quotation No.:	Q19-17781	**Date Received:**	01-Jun-2020
Order No.:		**Date Instructed:**	01-Jun-2020
No. of Samples:	3		
Turnaround (Wkdays):	5	**Results Due:**	05-Jun-2020
Date Approved:	05-Jun-2020		

Approved By:

Details: Glynn Harvey, Technical Manager

Chemtest
The right chemistry to deliver results

Results - Water

Project: 1302-13 Wheathampstead

Client: Pam Brown Associates				**Chemtest Job No.:**	20-13666	20-13666	20-13666
Quotation No.: Q19-17781				**Chemtest Sample ID.:**	1010970	1010971	1010972
				Client Sample ID.:	7	2	13
				Sample Location:	BH301	S2	SWS03
				Sample Type:	WATER	WATER	WATER
				Date Sampled:	27-May-2020	27-May-2020	27-May-2020
Determinand	**Accred.**	**SOP**	**Units**	**LOD**			
pH	U	1010		N/A	8.4	8.4	8.3
Electrical Conductivity	U	1020	µS/cm	1.0	970		1100
Turbidity	N	1060	NTU	1.0	1.2		22
Dissolved Oxygen	N	1150	mg O2/l	0.50	8.3	8.4	8.3
Redox Potential	N	1170	mV	N/A	150	150	160
Chloride	U	1220	mg/l	1.0	81	91	83
Nitrate	U	1220	mg/l	0.50	55	170	< 0.50
Sulphate	U	1220	mg/l	1.0	95	110	57
Manganese (Dissolved)	U	1450	µg/l	1.0	25	11	1500
Iron [II]	N	1450	µg/l	20	< 20	< 20	< 20
Iron [III]	N	1450	µg/l	20	740	680	1100
Dissolved Methane	N	1630	mg/l	0.050	< 0.050	< 0.050	< 0.050
Aliphatic TPH >C5-C6	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C6-C8	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C8-C10	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C10-C12	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C12-C16	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C16-C21	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C21-C35	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C35-C44	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10
Total Aliphatic Hydrocarbons	N	1675	µg/l	5.0	< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C7-C8	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C8-C10	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C10-C12	N	1675	µg/l	0.10	< 0.10	< 0.10	47
Aromatic TPH >C12-C16	N	1675	µg/l	0.10	< 0.10	< 0.10	490
Aromatic TPH >C16-C21	N	1675	µg/l	0.10	< 0.10	< 0.10	76
Aromatic TPH >C21-C35	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C35-C44	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10
Total Aromatic Hydrocarbons	N	1675	µg/l	5.0	< 5.0	< 5.0	610
Total Petroleum Hydrocarbons	N	1675	µg/l	10	< 10	< 10	610
Naphthalene	U	1700	µg/l	0.10	< 0.10	< 0.10	9.9
Acenaphthylene	U	1700	µg/l	0.10	< 0.10	< 0.10	21
Acenaphthene	U	1700	µg/l	0.10	< 0.10	< 0.10	290
Fluorene	U	1700	µg/l	0.10	< 0.10	< 0.10	5.6
Phenanthrene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10
Anthracene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10
Pyrene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10

Results - Water

Project: 1302-13 Wheathampstead

Client: Pam Brown Associates				**Chemtest Job No.:**	20-13666	20-13666	20-13666
Quotation No.: Q19-17781				**Chemtest Sample ID.:**	1010970	1010971	1010972
				Client Sample ID.:	7	2	13
				Sample Location:	BH301	S2	SWS03
				Sample Type:	WATER	WATER	WATER
				Date Sampled:	27-May-2020	27-May-2020	27-May-2020
Determinand	**Accred.**	**SOP**	**Units**	**LOD**			
Chrysene	N	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	N	1700	µg/l	2.0	< 2.0	< 2.0	330
2-Chlorophenol	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Conductivity Meter
1060	Turbidity	Turbidity	Spetctrophotometry
1150	Dissolved Oxygen	Dissolved Oxygen (DO)	Electrometric determination (on site preferred), using oxygen sensitive membrane electrode.
1170	Redox Potential	Redox Potential	Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1450	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1675	TPH Aliphatic/Aromatic split in Waters by GC-FID(cf. Texas Method 1006 / TPH CWG)	Aliphatics: >C5–C6, >C6–C8, >C8– C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Pentane extraction / GCxGC FID detection
1700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)
1790	Semi-Volatile Organic Compounds (SVOCs) in Waters by GC-MS	Semi-volatile organic compounds	Solvent extraction / GCMS detection

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customerservices@chemtest.com

CONCEPT LIFE SCIENCES
DELIVERING SCIENCE

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Concept Life Sciences

Certificate of Analysis

Unit 2
The Links
Bar Hill
Cambridgeshire
CB23 8UD
Tel : 01954 782791
Fax : 01954 782183

Report Number : 863842 001
Date of Issue : 04-Jun-2020

Customer : Pam Brown Associates
Contact : Dr Melissa Morales
Address : 2 Needwood House, Lancaster Park, Newborough Road, Needwood Burton on Trent, DE13 9PD

Samples Received : 29-May-2020
Analysis Started : 01-Jun-2020
Concept Job Reference : 863842-1
Analysis Requested : MRPS by GC (CSOPP611), MRPS by LC (CSOPP603)
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : BH301
Location : Wheathampstead
Sample Description : Water

Results Summary

Analyte	Level Found	Units	LOD	EU MRL mg/kg	CODEX MRL mg/kg	Symbol
MRPS by GC (CSOPP611)						
Bromacil	**0.3**	ug/l	0.1			N
EPTC	**0.6**	ug/l	0.1			N
Fenson	**1.2**	ug/l	0.1			N
MRPS by LC (CSOPP603)	**No residue detected above the limit of detection.**					

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.
Customers are responsible for information provided where, if incorrect, it could affect the validity of the results.
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 Concept Life Sciences SOPs
All results have been reviewed in accordance with QMSection 15 of the Concept Life Sciences, Analytical Services Quality Manual
All samples prepared in accordance with the CODEX alimentarius

Report checked
and authorised by :
Matt Line
Section Manager - Pesticides

Issued by :
Mr Mark Obrien
Customer Service Manager Mark O'Brien

Index to symbols used in this report

Value	Description
3	LOD Raised Due to Elevated Blank
62	LOD was raised due to the method performance of the analytical procedure used
147	Result has been Recovery corrected.
13	Results have been blank corrected.
278	Data reported is qualitative as recovery is outside the 60 to 140% range
N	Analysis is not UKAS accredited

Report Number : 863842 001
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : BH301
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
2,4,6-Trichlorophenol	ug/l	0.1	N	<0.1
2-Phenylphenol	ug/l	0.2	N	(3) <0.2
Acetochlor	ug/l	0.1	N	<0.1
Aclonifen	ug/l	0.1	N	(278) <0.1
Acrinathrin	ug/l	0.1	N	(278) <0.1
Alachlor	ug/l	0.1	N	<0.1
Aldrin	ug/l	0.1	N	<0.1
Ametryn	ug/l	0.1	N	(278) <0.1
Atraton	ug/l	0.1	N	(278) <0.1
Atrazine	ug/l	0.1	N	<0.1
Azaconazole	ug/l	0.1	N	<0.1
Azobenzene	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Benalaxyl	ug/l	0.1	N	<0.1
Benfluralin	ug/l	0.1	N	<0.1
Bifenox	ug/l	0.1	N	<0.1
Bifenthrin	ug/l	0.1	N	<0.1
Binapacryl	ug/l	0.1	N	(278) <0.1
Biphenyl	ug/l	0.5	N	(3, 278) <0.5
Bitertanol	ug/l	0.1	N	(278) <0.1
Boscalid	ug/l	0.1	N	<0.1
Bromacil	**ug/l**	**0.1**	**N**	**0.3**
Bromophos	ug/l	0.1	N	<0.1
Bromophos-Ethyl	ug/l	0.1	N	<0.1
Bromopropylate	ug/l	0.1	N	<0.1
Bupirimate	ug/l	0.1	N	(278) <0.1
Buprofezine	ug/l	0.1	N	<0.1
Butachlor	ug/l	0.1	N	<0.1
Cadusafos	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbophenothion	ug/l	0.1	N	<0.1
Carboxine	ug/l	0.1	N	(278) <0.1
Carfentrazone Ethyl	ug/l	0.1	N	(278) <0.1
Chlorobenzilate	ug/l	0.1	N	<0.1
Chlordane (sum of cis and trans isomers)	ug/l	0.1	N	(278) <0.1
Chlordimeform	ug/l	0.1	N	(278) <0.1
Chlorethoxyfos	ug/l	0.1	N	<0.1
Chlorfenapyr	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Chlorfenvinphos	ug/l	0.1	N	<0.1
Chlormephos	ug/l	0.1	N	<0.1
Chloropropylate	ug/l	0.1	N	<0.1
Chlorothalonil	ug/l	0.1	N	<0.1
Chlorpropham	ug/l	0.1	N	<0.1
Chlorpyrifos	ug/l	0.1	N	<0.1
Chlorpyrifos methyl	ug/l	0.1	N	<0.1
Chlorthal Dimethyl	ug/l	0.1	N	<0.1
Chlorthion	ug/l	0.1	N	<0.1
Chlorthiophos	ug/l	0.1	N	<0.1
Chlozolinate	ug/l	0.1	N	(278) <0.1
Clodinafop Propargyl	ug/l	0.1	N	(278) <0.1
Clomazone	ug/l	0.1	N	<0.1
Cloquintocet mexyl	ug/l	0.1	N	<0.1
Coumaphos	ug/l	0.1	N	(278) <0.1
Cyflufenamid	ug/l	0.1	N	<0.1
Cyfluthrin	ug/l	0.1	N	<0.1
Cypermethrin	ug/l	0.1	N	<0.1
Cyphenothrin	ug/l	0.1	N	<0.1
Cyproconazole	ug/l	0.1	N	(278) <0.1
Cyprodinil	ug/l	0.1	N	(278) <0.1
Deltamethrin	ug/l	0.1	N	<0.1
Desmetryn	ug/l	0.1	N	(278) <0.1
Diafenthiuron	ug/l	0.1	N	(278) <0.1
Dialifos	ug/l	0.1	N	<0.1
Diazinon	ug/l	0.1	N	<0.1
Dichlobenil	ug/l	0.1	N	<0.1
Dichlofenthion	ug/l	0.1	N	<0.1
Dichlorvos	ug/l	0.1	N	<0.1
Diclobutrazol	ug/l	0.1	N	<0.1
Dicloran	ug/l	0.1	N	<0.1
Dicofol	ug/l	0.1	N	(278) <0.1
Dieldrin	ug/l	0.1	N	<0.1
Difenoconazole	ug/l	0.1	N	<0.1
Diflufenican	ug/l	0.1	N	<0.1
Dimethenamid	ug/l	0.1	N	<0.1
Dimethomorph	ug/l	0.1	N	<0.1
Dimoxystrobin	ug/l	0.1	N	<0.1

Report Number : 863842 001
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : BH301
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Dioxabenzofos	ug/l	0.1	N	<0.1
Diphenamid	ug/l	0.1	N	<0.1
Diphenylamine	ug/l	0.1	N	<0.1
Disulfoton	ug/l	0.1	N	<0.1
Ditalimfos	ug/l	0.1	N	<0.1
Edifenphos	ug/l	0.1	N	<0.1
Endosulphan alpha	ug/l	0.1	N	<0.1
Endosulphan beta	ug/l	0.1	N	<0.1
Endosulphan sulphate	ug/l	0.1	N	<0.1
Endrin	ug/l	0.1	N	<0.1
EPN	ug/l	0.1	N	(278) <0.1
Epoxiconazole	ug/l	0.1	N	<0.1
EPTC	**ug/l**	**0.1**	**N**	**0.6**
Etaconazole	ug/l	0.1	N	<0.1
Ethion	ug/l	0.1	N	<0.1
Ethofumesate	ug/l	0.1	N	<0.1
Ethoprophos	ug/l	0.1	N	<0.1
Ethoxyquin	ug/l	0.1	N	<0.1
Etofenprox	ug/l	0.1	N	<0.1
Etoxazole	ug/l	0.1	N	<0.1
Etridiazole	ug/l	0.1	N	(278) <0.1
Etrimfos	ug/l	0.1	N	<0.1
Famoxadone	ug/l	0.1	N	<0.1
Famphur	ug/l	0.1	N	<0.1
Fenamidone	ug/l	0.1	N	<0.1
Fenamiphos	ug/l	0.1	N	<0.1
Fenarimol	ug/l	0.1	N	<0.1
Fenbuconazole	ug/l	0.1	N	<0.1
Fenchlorphos	ug/l	0.1	N	<0.1
Fenitrothion	ug/l	0.1	N	<0.1
Fenpiclonil	ug/l	0.1	N	<0.1
Fenpropathrin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenson	**ug/l**	**0.1**	**N**	**1.2**
Fensulfothion	ug/l	0.1	N	<0.1
Fenthion	ug/l	0.1	N	<0.1
Fenvalerate	ug/l	0.1	N	<0.1
Fipronil	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Fipronil sulphone	ug/l	0.1	N	<0.1
Flamprop isopropyl	ug/l	0.1	N	<0.1
Fluazifop-P-Butyl	ug/l	0.1	N	<0.1
Flucythrinate	ug/l	0.1	N	<0.1
Fludioxonil	ug/l	0.1	N	<0.1
Flufenacet	ug/l	0.1	N	<0.1
Flumetralin	ug/l	0.1	N	<0.1
Flumioxazin	ug/l	0.1	N	(278) <0.1
Flumorph	ug/l	0.1	N	<0.1
Fluopyram	ug/l	0.1	N	<0.1
Fluquinconazole	ug/l	0.1	N	<0.1
Fluroxypyr-1-methylheptyl ester	ug/l	0.1	N	<0.1
Flusilazole	ug/l	0.1	N	<0.1
Flutolanil	ug/l	0.1	N	<0.1
Fluxapyroxad	ug/l	0.1	N	<0.1
Fonophos	ug/l	0.1	N	<0.1
Formothion	ug/l	0.1	N	(278) <0.1
Furalaxyl	ug/l	0.1	N	<0.1
Haloxyfop etotyl	ug/l	0.1	N	<0.1
Haloxyfop Methyl	ug/l	0.1	N	<0.1
Heptachlor	ug/l	0.1	N	<0.1
Heptachlor epoxide	ug/l	0.1	N	<0.1
Heptachlor exo Epoxide	ug/l	0.1	N	<0.1
Heptenophos	ug/l	0.1	N	<0.1
Hexachlorobenzene	ug/l	0.1	N	(278) <0.1
Hexachlorocyclohexane (alpha)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (beta)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (delta)	ug/l	0.1	N	<0.1
Hexaconazole	ug/l	0.1	N	(278) <0.1
Hexazinone	ug/l	0.1	N	<0.1
Iodofenphos	ug/l	0.1	N	<0.1
Iprodione	ug/l	0.1	N	(278) <0.1
Isazofos	ug/l	0.1	N	<0.1
Isocarbophos	ug/l	0.1	N	<0.1
Isodrin	ug/l	0.1	N	<0.1
Isofenphos	ug/l	0.1	N	<0.1
Isofenphos Methyl	ug/l	0.1	N	<0.1
Isomethiozin	ug/l	0.1	N	<0.1

Report Number : 863842 001
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : BH301
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Isoprothiolane	ug/l	0.1	N	<0.1
Isopyrazam	ug/l	0.1	N	<0.1
Kresoxim Methyl	ug/l	0.1	N	<0.1
Lambda Cyhalothrin	ug/l	0.1	N	<0.1
Lenacil	ug/l	0.1	N	<0.1
Leptophos	ug/l	0.1	N	<0.1
Lindane	ug/l	0.1	N	<0.1
Malathion	ug/l	0.1	N	<0.1
MCPA-thioethyl	ug/l	0.1	N	<0.1
Mecarbam	ug/l	0.1	N	(278) <0.1
Mepanipyrim	ug/l	0.1	N	(278) <0.1
Mephosfolan	ug/l	0.1	N	<0.1
Mepronil	ug/l	0.1	N	<0.1
Metalaxyl	ug/l	0.1	N	<0.1
Metazachlor	ug/l	0.1	N	<0.1
Methacrifos	ug/l	0.1	N	<0.1
Methidathion	ug/l	0.1	N	<0.1
Methoxychlor	ug/l	0.1	N	<0.1
Methyl Paraoxon	ug/l	0.1	N	(278) <0.1
Metolachlor	ug/l	0.1	N	<0.1
Metolcarb	ug/l	0.1	N	<0.1
Metrafenone	ug/l	0.1	N	<0.1
Metribuzin	ug/l	0.1	N	<0.1
Mevinphos	ug/l	0.1	N	<0.1
Mirex	ug/l	0.1	N	<0.1
Molinate	ug/l	0.1	N	<0.1
Myclobutanil	ug/l	0.1	N	<0.1
Napropamide	ug/l	0.1	N	<0.1
Nitrofen	ug/l	0.1	N	<0.1
Nitrothal isopropyl	ug/l	0.1	N	<0.1
Nuarimol	ug/l	0.1	N	<0.1
o,p'-DDT	ug/l	0.1	N	<0.1
o,p-DDD	ug/l	0.1	N	<0.1
o,p-DDE	ug/l	0.1	N	<0.1
Octylisothiazolon	ug/l	0.1	N	<0.1
Ofurace	ug/l	0.1	N	<0.1
Orysastrobin	ug/l	0.1	N	<0.1
Oxadiazon	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Oxadixyl	ug/l	0.1	N	<0.1
Oxyfluorfen	ug/l	0.1	N	(278) <0.1
p,p-DDD	ug/l	0.1	N	<0.1
p,p-DDE	ug/l	0.1	N	<0.1
p,p-DDT	ug/l	0.1	N	<0.1
Paclobutrazol	ug/l	0.1	N	<0.1
Paraoxon	ug/l	0.1	N	<0.1
Parathion	ug/l	0.1	N	<0.1
Parathion methyl	ug/l	0.1	N	<0.1
Penconazole	ug/l	0.1	N	<0.1
Pendimethalin	ug/l	0.1	N	<0.1
Pentachloroaniline	ug/l	0.1	N	<0.1
Pentachlorophenol	ug/l	0.1	N	(278) <0.1
Pentanochlor	ug/l	0.1	N	<0.1
Permethrin	ug/l	0.1	N	<0.1
Pethoxamid	ug/l	0.1	N	<0.1
Phenothrin	ug/l	0.1	N	<0.1
Phenthoate	ug/l	0.1	N	<0.1
Phorate	ug/l	0.1	N	<0.1
Phosalone	ug/l	0.1	N	<0.1
Phosfolan	ug/l	0.1	N	<0.1
Picoxystrobin	ug/l	0.1	N	<0.1
Piperonyl Butoxide	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	(278) <0.1
Pirimiphos Ethyl	ug/l	0.1	N	<0.1
Pirimiphos methyl	ug/l	0.1	N	<0.1
Pretilachlor	ug/l	0.1	N	<0.1
Procymidone	ug/l	0.1	N	<0.1
Profenofos	ug/l	0.1	N	<0.1
Prometon	ug/l	0.1	N	(278) <0.1
Prometryn	ug/l	0.1	N	(278) <0.1
Propachlor	ug/l	0.1	N	<0.1
Propanil	ug/l	0.1	N	<0.1
Propaphos	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	(278) <0.1
Propazine	ug/l	0.1	N	<0.1
Propetamphos	ug/l	0.1	N	<0.1
Propham	ug/l	0.1	N	<0.1

Report Number : 863842 001
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : BH301
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Propiconazole	ug/l	0.1	N	<0.1
Propyzamide	ug/l	0.1	N	<0.1
Proquinazid	ug/l	0.1	N	<0.1
Prosulfocarb	ug/l	0.1	N	<0.1
Prothiofos	ug/l	0.1	N	<0.1
Pyraclostrobin	ug/l	0.1	N	(278) <0.1
Pyraflufen ethyl	ug/l	0.1	N	<0.1
Pyrazophos	ug/l	0.1	N	<0.1
Pyridaben	ug/l	0.1	N	<0.1
Pyridaphenthion	ug/l	0.1	N	<0.1
Pyrimethanil	ug/l	0.1	N	(278) <0.1
Pyriproxyfen	ug/l	0.1	N	<0.1
Quinalphos	ug/l	0.1	N	<0.1
Quinoxyfen	ug/l	0.1	N	<0.1
Quintozene	ug/l	0.1	N	<0.1
Quizalofop-ethyl	ug/l	0.1	N	<0.1
Secbumeton	ug/l	0.1	N	(278) <0.1
Silafluofen	ug/l	0.1	N	<0.1
Simazine	ug/l	0.1	N	<0.1
Simeconazole	ug/l	0.1	N	<0.1
Sulfallate	ug/l	0.1	N	<0.1
Sulprofos	ug/l	0.1	N	<0.1
Tebuconazole	ug/l	0.1	N	(278) <0.1
Tebufenpyrad	ug/l	0.1	N	<0.1
Tebupirimiphos	ug/l	0.1	N	<0.1
Tecnazene	ug/l	0.1	N	(278) <0.1
Tefluthrin	ug/l	0.1	N	<0.1
Terbacil	ug/l	0.1	N	<0.1
Terbufos	ug/l	0.1	N	<0.1
Terbumeton	ug/l	0.1	N	(278) <0.1
Terbuthylazine	ug/l	0.1	N	<0.1
Terbutryn	ug/l	0.1	N	(278) <0.1
Tetrachlorvinphos	ug/l	0.1	N	<0.1
Tetraconazole	ug/l	0.1	N	<0.1
Tetradifon	ug/l	0.1	N	<0.1
tetraethyl dithiopyrophosphate	ug/l	0.1	N	<0.1
Tetramethrin	ug/l	0.1	N	<0.1
Tetrasul	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Thiamethoxam	ug/l	0.1	N	<0.1
Thiobencarb	ug/l	0.1	N	<0.1
Tolclofos-methyl	ug/l	0.1	N	<0.1
Triadimefon	ug/l	0.1	N	<0.1
Triadimenol	ug/l	0.1	N	(278) <0.1
Triallate	ug/l	0.1	N	<0.1
Triazamate	ug/l	0.1	N	<0.1
Triazophos	ug/l	0.1	N	<0.1
Trifloxystrobin	ug/l	0.1	N	<0.1
Triflumizole	ug/l	0.1	N	(278) <0.1
Trifluralin	ug/l	0.1	N	<0.1
Vinclozolin	ug/l	0.1	N	<0.1
Vinclozolin metabolite 3,5-Dichloroaniline	ug/l	0.1	N	(278) <0.1

Report Number : 863842 001
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : BH301
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
2-(1-Naphthyl)acetamide	ug/l	0.1	N	<0.1
3-hydroxycarbofuran	ug/l	0.1	N	<0.1
6-Benzyladenine	ug/l	0.1	N	<0.1
Acephate	ug/l	0.1	N	<0.1
Acetamiprid	ug/l	0.1	N	<0.1
Acibenzolar-S-methyl	ug/l	0.1	N	<0.1
Aldicarb	ug/l	0.1	N	<0.1
Aldicarb sulphone	ug/l	0.1	N	<0.1
Aldicarb sulphoxide	ug/l	0.1	N	<0.1
Aminocarb	ug/l	0.1	N	<0.1
Azadirachtin	ug/l	0.1	N	<0.1
Azinphos ethyl	ug/l	0.1	N	<0.1
Azinphos methyl	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Bendiocarb	ug/l	0.1	N	<0.1
Benfuracarb	ug/l	0.1	N	(278) <0.1
Butralin	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbendazim	ug/l	0.1	N	(278) <0.1
Carbetamide	ug/l	0.1	N	<0.1
Carbofuran	ug/l	0.1	N	<0.1
Carbosulfan	ug/l	0.1	N	(278) <0.1
Carpropamid	ug/l	0.1	N	<0.1
Chinomethionat	ug/l	0.1	N	<0.1
Chlorantraniliprole	ug/l	0.1	N	<0.1
Chlorbromuron	ug/l	0.1	N	<0.1
Chlorfluazuron	ug/l	0.1	N	<0.1
Chloridazon	ug/l	0.1	N	<0.1
Chlorotoluron	ug/l	0.1	N	<0.1
Clofentezine	ug/l	0.1	N	<0.1
Clothianidin	ug/l	0.1	N	<0.1
Cyanazine	ug/l	0.1	N	<0.1
Cyazofamid	ug/l	0.1	N	<0.1
Cycluron	ug/l	0.1	N	<0.1
Cymoxanil	ug/l	0.1	N	<0.1
Cythioate	ug/l	0.1	N	<0.1
Demeton	ug/l	0.1	N	<0.1
Demeton-s-methyl	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Demeton-s-methyl sulphone	ug/l	0.1	N	<0.1
Dichlofluanid	ug/l	0.1	N	<0.1
Dicrotophos	ug/l	0.1	N	<0.1
Diethofencarb	ug/l	0.1	N	<0.1
Diflubenzuron	ug/l	0.1	N	<0.1
Dimefuron	ug/l	0.1	N	<0.1
Dimethoate	ug/l	0.1	N	<0.1
Diniconazole	ug/l	0.1	N	<0.1
Dinotefuran	ug/l	0.1	N	<0.1
Dioxacarb	ug/l	0.1	N	<0.1
Disulfoton sulfoxide	ug/l	0.1	N	<0.1
Disulfoton sulphone	ug/l	0.1	N	<0.1
Diuron	ug/l	0.1	N	<0.1
DMSA	ug/l	0.1	N	<0.1
DMST	ug/l	0.1	N	<0.1
Dodemorph	ug/l	0.1	N	(278) <0.1
Dodine	ug/l	0.1	N	<0.1
Emamectin	ug/l	0.1	N	<0.1
Ethidimuron	ug/l	0.1	N	<0.1
Ethiofencarb	ug/l	0.1	N	<0.1
Ethiofencarb sulfone	ug/l	0.1	N	<0.1
Ethiofencarb sulfoxide	ug/l	0.1	N	<0.1
Ethiprole	ug/l	0.1	N	<0.1
Ethirimol	ug/l	0.1	N	<0.1
Fenamiphos sulfone	ug/l	0.1	N	<0.1
Fenamiphos sulfoxide	ug/l	0.1	N	<0.1
Fenazaquin	ug/l	0.1	N	<0.1
Fenchlorphos oxon	ug/l	0.1	N	<0.1
Fenhexamid	ug/l	0.1	N	<0.1
Fenoxycarb	ug/l	0.1	N	<0.1
Fenpropidin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenpyroximate	ug/l	0.1	N	<0.1
Fenthion Sulphone	ug/l	0.1	N	<0.1
Fenthion Sulphoxide	ug/l	0.1	N	<0.1
Fenuron	ug/l	0.1	N	<0.1
Flonicamid	ug/l	0.1	N	<0.1
Fluazinam	ug/l	0.1	N	<0.1

Report Number : 863842 001
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : BH301
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Flufenoxuron	ug/l	0.1	N	<0.1
Fluometuron	ug/l	0.1	N	<0.1
Fluopicolide	ug/l	0.1	N	<0.1
Fluorochloridone	ug/l	0.1	N	<0.1
Fluoxastrobin	ug/l	0.1	N	<0.1
Flurtamone	ug/l	0.1	N	<0.1
Flutriafol	ug/l	0.1	N	<0.1
Forchlorfenuron	ug/l	0.1	N	<0.1
Fosthiasate	ug/l	0.1	N	<0.1
Fuberidazole	ug/l	0.1	N	<0.1
Furathiocarb	ug/l	0.1	N	<0.1
Hexaflumuron	ug/l	0.1	N	<0.1
Hexythiazox	ug/l	0.1	N	<0.1
Imazalil	ug/l	0.1	N	(278) <0.1
Imibenconazole	ug/l	0.1	N	<0.1
Imidacloprid	ug/l	0.1	N	<0.1
Indoxacarb	ug/l	0.1	N	<0.1
Iprovalicarb	ug/l	0.1	N	<0.1
Isoprocarb	ug/l	0.1	N	<0.1
Isoproturon	ug/l	0.1	N	<0.1
Isoxaben	ug/l	0.1	N	<0.1
Karbutilate	ug/l	0.1	N	<0.1
Linuron	ug/l	0.1	N	<0.1
Lufenuron	ug/l	0.1	N	<0.1
Malaoxon	ug/l	0.1	N	<0.1
Mandipropamid	ug/l	0.1	N	<0.1
Mefenacet	ug/l	0.1	N	<0.1
Metamitron	ug/l	0.1	N	<0.1
Metconazole	ug/l	0.1	N	<0.1
Methabenzthiazuron	ug/l	0.1	N	<0.1
Methamidophos	ug/l	0.1	N	<0.1
Methiocarb	ug/l	0.1	N	<0.1
Methiocarb Sulfone	ug/l	0.1	N	<0.1
Methiocarb Sulfoxide	ug/l	0.1	N	<0.1
Methomyl	ug/l	0.1	N	<0.1
Methoxyfenozide	ug/l	0.1	N	<0.1
Metobromuron	ug/l	0.1	N	<0.1
Metoxuron	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Monocrotophos	ug/l	0.1	N	<0.1
Monolinuron	ug/l	0.1	N	<0.1
Monuron	ug/l	0.1	N	<0.1
Neburon	ug/l	0.1	N	<0.1
Nicotine	ug/l	1.0	N	(278, 62) <1.0
Nitenpyram	ug/l	0.1	N	<0.1
Novaluron	ug/l	0.1	N	<0.1
Omethoate	ug/l	0.1	N	<0.1
Oxadiargyl	ug/l	0.1	N	<0.1
Oxamyl	ug/l	0.1	N	<0.1
Oxycarboxin	ug/l	0.1	N	<0.1
Oxydemeton-Methyl	ug/l	0.1	N	<0.1
Pencycuron	ug/l	0.1	N	<0.1
Phorate sulfone	ug/l	0.1	N	<0.1
Phorate sulfoxide	ug/l	0.1	N	<0.1
Phosmet	ug/l	0.1	N	<0.1
Phosphamidon	ug/l	0.1	N	<0.1
Phoxim	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	<0.1
Prochloraz	ug/l	0.1	N	<0.1
Promecarb	ug/l	0.1	N	<0.1
Propamocarb	ug/l	0.1	N	<0.1
Propaquizafop	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	<0.1
Propoxur	ug/l	0.1	N	<0.1
Pymetrozine	ug/l	0.1	N	<0.1
Pyrifenox	ug/l	0.1	N	<0.1
Resmethrin	ug/l	0.1	N	<0.1
Rotenone	ug/l	0.1	N	<0.1
Spinosad	ug/l	0.1	N	<0.1
Spirodiclofen	ug/l	0.1	N	<0.1
Spiromesifen	ug/l	0.1	N	<0.1
Spiroxamine	ug/l	0.1	N	<0.1
Tebufenozide	ug/l	0.1	N	<0.1
Teflubenzuron	ug/l	0.1	N	<0.1
Temephos	ug/l	0.1	N	<0.1
Terbufos sulfone	ug/l	0.1	N	<0.1
Terbufos sulfoxide	ug/l	0.1	N	<0.1

Report Number : 863842 001
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : BH301
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Thiabendazole	ug/l	0.1	N	<0.1
Thiacloprid	ug/l	0.1	N	<0.1
Thiazafluron	ug/l	0.1	N	<0.1
Thiodicarb	ug/l	0.1	N	<0.1
Thiofanox	ug/l	0.1	N	<0.1
Thiophanate Methyl	ug/l	0.1	N	<0.1
Tolylfluanid	ug/l	0.1	N	<0.1
Trichlorfon	ug/l	0.1	N	<0.1
Tridemorph	ug/l	0.1	N	<0.1
Trifloxysulfuron	ug/l	0.1	N	<0.1
Triflumuron	ug/l	0.1	N	<0.1
Triflusulfuron-methyl	ug/l	0.1	N	<0.1
Triticonazole	ug/l	0.1	N	<0.1
Vamidothion	ug/l	0.1	N	<0.1
Vernolate	ug/l	0.1	N	<0.1
Zoxamide	ug/l	0.1	N	<0.1

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Certificate of Analysis

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Report Number : 863842 002
Date of Issue : 04-Jun-2020

Customer : Pam Brown Associates
Contact : Dr Melissa Morales
Address : 2 Needwood House, Lancaster Park, Newborough Road, Needwood Burton on Trent, DE13 9PD

Samples Received : 29-May-2020
Analysis Started : 01-Jun-2020
Concept Job Reference : 863842-1
Analysis Requested : MRPS by GC (CSOPP611), MRPS by LC (CSOPP603)
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : BH302
Location : Wheathampstead
Sample Description : Water

Results Summary

Analyte	Level Found	Units	LOD	EU MRL mg/kg	CODEX MRL mg/kg	Symbol
MRPS by GC (CSOPP611)						
2,4,6-Trichlorophenol	**0.5**	ug/l	0.1			N
2-Phenylphenol	**42**	ug/l	0.1			N
Carboxine	**1.9**	ug/l	0.1			N
Chlorpropham	**0.2**	ug/l	0.1			N
Dieldrin	**0.2**	ug/l	0.1			N
EPTC	**2.3**	ug/l	0.1			N
Fenson	**30**	ug/l	0.1			N
Mecarbam	(147) **0.7**	ug/l	0.1			N
p,p-DDT	**0.2**	ug/l	0.1			N
Pentachlorophenol	(147) **8.1**	ug/l	0.1			N
Propham	**190**	ug/l	0.1			N
MRPS by LC (CSOPP603)						
Chloridazon	**0.2**	ug/l	0.1			N
Fenuron	**0.2**	ug/l	0.1			N

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.
Customers are responsible for information provided where, if incorrect, it could affect the validity of the results.
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 Concept Life Sciences SOPs
All results have been reviewed in accordance with QMSection 15 of the Concept Life Sciences, Analytical Services Quality Manual

Report checked
and authorised by :
Matt Line
Section Manager - Pesticides

Issued by :
Mr Mark Obrien
Customer Service Manager Mark O'Brien

Index to symbols used in this report

Value	Description
3	LOD Raised Due to Elevated Blank
62	LOD was raised due to the method performance of the analytical procedure used
147	Result has been Recovery corrected.
13	Results have been blank corrected.
278	Data reported is qualitative as recovery is outside the 60 to 140% range
N	Analysis is not UKAS accredited

Report Number : 863842 002
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : BH302
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
2,4,6-Trichlorophenol	**ug/l**	**0.1**	**N**	**0.5**
2-Phenylphenol	**ug/l**	**0.1**	**N**	**42**
Acetochlor	ug/l	0.1	N	<0.1
Aclonifen	ug/l	0.1	N	(278) <0.1
Acrinathrin	ug/l	0.1	N	(278) <0.1
Alachlor	ug/l	0.1	N	<0.1
Aldrin	ug/l	0.1	N	<0.1
Ametryn	ug/l	0.1	N	(278) <0.1
Atraton	ug/l	0.1	N	(278) <0.1
Atrazine	ug/l	0.1	N	<0.1
Azaconazole	ug/l	0.1	N	<0.1
Azobenzene	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Benalaxyl	ug/l	0.1	N	<0.1
Benfluralin	ug/l	0.1	N	<0.1
Bifenox	ug/l	0.1	N	<0.1
Bifenthrin	ug/l	0.1	N	<0.1
Binapacryl	ug/l	0.1	N	(278) <0.1
Biphenyl	ug/l	0.5	N	(3, 278) <0.5
Bitertanol	ug/l	0.1	N	(278) <0.1
Boscalid	ug/l	0.1	N	<0.1
Bromacil	ug/l	0.1	N	<0.1
Bromophos	ug/l	0.1	N	<0.1
Bromophos-Ethyl	ug/l	0.1	N	<0.1
Bromopropylate	ug/l	0.1	N	<0.1
Bupirimate	ug/l	0.1	N	(278) <0.1
Buprofezine	ug/l	0.1	N	<0.1
Butachlor	ug/l	0.1	N	<0.1
Cadusafos	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbophenothion	ug/l	0.1	N	<0.1
Carboxine	**ug/l**	**0.1**	**N**	**1.9**
Carfentrazone Ethyl	ug/l	0.1	N	(278) <0.1
Chlorobenzilate	ug/l	0.1	N	<0.1
Chlordane (sum of cis and trans isomers)	ug/l	0.1	N	(278) <0.1
Chlordimeform	ug/l	0.1	N	(278) <0.1
Chlorethoxyfos	ug/l	0.1	N	<0.1
Chlorfenapyr	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Chlorfenvinphos	ug/l	0.1	N	<0.1
Chlormephos	ug/l	0.1	N	<0.1
Chloropropylate	ug/l	0.1	N	<0.1
Chlorothalonil	ug/l	0.1	N	<0.1
Chlorpropham	**ug/l**	**0.1**	**N**	**0.2**
Chlorpyrifos	ug/l	0.1	N	<0.1
Chlorpyrifos methyl	ug/l	0.1	N	<0.1
Chlorthal Dimethyl	ug/l	0.1	N	<0.1
Chlorthion	ug/l	0.1	N	<0.1
Chlorthiophos	ug/l	0.1	N	<0.1
Chlozolinate	ug/l	0.1	N	(278) <0.1
Clodinafop Propargyl	ug/l	0.1	N	(278) <0.1
Clomazone	ug/l	0.1	N	<0.1
Cloquintocet mexyl	ug/l	0.1	N	<0.1
Coumaphos	ug/l	0.1	N	(278) <0.1
Cyflufenamid	ug/l	0.1	N	<0.1
Cyfluthrin	ug/l	0.1	N	<0.1
Cypermethrin	ug/l	0.1	N	<0.1
Cyphenothrin	ug/l	0.1	N	<0.1
Cyproconazole	ug/l	0.1	N	(278) <0.1
Cyprodinil	ug/l	0.1	N	(278) <0.1
Deltamethrin	ug/l	0.1	N	<0.1
Desmetryn	ug/l	0.1	N	(278) <0.1
Diafenthiuron	ug/l	0.1	N	(278) <0.1
Dialifos	ug/l	0.1	N	<0.1
Diazinon	ug/l	0.1	N	<0.1
Dichlobenil	ug/l	0.1	N	<0.1
Dichlofenthion	ug/l	0.1	N	<0.1
Dichlorvos	ug/l	0.1	N	<0.1
Diclobutrazol	ug/l	0.1	N	<0.1
Dicloran	ug/l	0.1	N	<0.1
Dicofol	ug/l	0.1	N	(278) <0.1
Dieldrin	**ug/l**	**0.1**	**N**	**0.2**
Difenoconazole	ug/l	0.1	N	<0.1
Diflufenican	ug/l	0.1	N	<0.1
Dimethenamid	ug/l	0.1	N	<0.1
Dimethomorph	ug/l	0.1	N	<0.1
Dimoxystrobin	ug/l	0.1	N	<0.1

Report Number : 863842 002
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : BH302
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Dioxabenzofos	ug/l	0.1	N	<0.1
Diphenamid	ug/l	0.1	N	<0.1
Diphenylamine	ug/l	0.1	N	<0.1
Disulfoton	ug/l	0.1	N	<0.1
Ditalimfos	ug/l	0.1	N	<0.1
Edifenphos	ug/l	0.1	N	<0.1
Endosulphan alpha	ug/l	0.1	N	<0.1
Endosulphan beta	ug/l	0.1	N	<0.1
Endosulphan sulphate	ug/l	0.1	N	<0.1
Endrin	ug/l	0.1	N	<0.1
EPN	ug/l	0.1	N	(278) <0.1
Epoxiconazole	ug/l	0.1	N	<0.1
EPTC	**ug/l**	**0.1**	**N**	**2.3**
Etaconazole	ug/l	0.1	N	<0.1
Ethion	ug/l	0.1	N	<0.1
Ethofumesate	ug/l	0.1	N	<0.1
Ethoprophos	ug/l	0.1	N	<0.1
Ethoxyquin	ug/l	0.1	N	<0.1
Etofenprox	ug/l	0.1	N	<0.1
Etoxazole	ug/l	0.1	N	<0.1
Etridiazole	ug/l	0.1	N	(278) <0.1
Etrimfos	ug/l	0.1	N	<0.1
Famoxadone	ug/l	0.1	N	<0.1
Famphur	ug/l	0.1	N	<0.1
Fenamidone	ug/l	0.1	N	<0.1
Fenamiphos	ug/l	0.1	N	<0.1
Fenarimol	ug/l	0.1	N	<0.1
Fenbuconazole	ug/l	0.1	N	<0.1
Fenchlorphos	ug/l	0.1	N	<0.1
Fenitrothion	ug/l	0.1	N	<0.1
Fenpiclonil	ug/l	0.1	N	<0.1
Fenpropathrin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenson	**ug/l**	**0.1**	**N**	**30**
Fensulfothion	ug/l	0.1	N	<0.1
Fenthion	ug/l	0.1	N	<0.1
Fenvalerate	ug/l	0.1	N	<0.1
Fipronil	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Fipronil sulphone	ug/l	0.1	N	<0.1
Flamprop isopropyl	ug/l	0.1	N	<0.1
Fluazifop-P-Butyl	ug/l	0.1	N	<0.1
Flucythrinate	ug/l	0.1	N	<0.1
Fludioxonil	ug/l	0.1	N	<0.1
Flufenacet	ug/l	0.1	N	<0.1
Flumetralin	ug/l	0.1	N	<0.1
Flumioxazin	ug/l	0.1	N	(278) <0.1
Flumorph	ug/l	0.1	N	<0.1
Fluopyram	ug/l	0.1	N	<0.1
Fluquinconazole	ug/l	0.1	N	<0.1
Fluroxypyr-1-methylheptyl ester	ug/l	0.1	N	<0.1
Flusilazole	ug/l	0.1	N	<0.1
Flutolanil	ug/l	0.1	N	<0.1
Fluxapyroxad	ug/l	0.1	N	<0.1
Fonophos	ug/l	0.1	N	<0.1
Formothion	ug/l	0.1	N	(278) <0.1
Furalaxyl	ug/l	0.1	N	<0.1
Haloxyfop etotyl	ug/l	0.1	N	<0.1
Haloxyfop Methyl	ug/l	0.1	N	<0.1
Heptachlor	ug/l	0.1	N	<0.1
Heptachlor epoxide	ug/l	0.1	N	<0.1
Heptachlor exo Epoxide	ug/l	0.1	N	<0.1
Heptenophos	ug/l	0.1	N	<0.1
Hexachlorobenzene	ug/l	0.1	N	(278) <0.1
Hexachlorocyclohexane (alpha)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (beta)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (delta)	ug/l	0.1	N	<0.1
Hexaconazole	ug/l	0.1	N	(278) <0.1
Hexazinone	ug/l	0.1	N	<0.1
Iodofenphos	ug/l	0.1	N	<0.1
Iprodione	ug/l	0.1	N	(278) <0.1
Isazofos	ug/l	0.1	N	<0.1
Isocarbophos	ug/l	0.1	N	<0.1
Isodrin	ug/l	0.1	N	<0.1
Isofenphos	ug/l	0.1	N	<0.1
Isofenphos Methyl	ug/l	0.1	N	<0.1
Isomethiozin	ug/l	0.1	N	<0.1

Report Number : 863842 002
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : BH302
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Isoprothiolane	ug/l	0.1	N	<0.1
Isopyrazam	ug/l	0.1	N	<0.1
Kresoxim Methyl	ug/l	0.1	N	<0.1
Lambda Cyhalothrin	ug/l	0.1	N	<0.1
Lenacil	ug/l	0.1	N	<0.1
Leptophos	ug/l	0.1	N	<0.1
Lindane	ug/l	0.1	N	<0.1
Malathion	ug/l	0.1	N	<0.1
MCPA-thioethyl	ug/l	0.1	N	<0.1
Mecarbam	**ug/l**	**0.1**	**N**	(147) **0.7**
Mepanipyrim	ug/l	0.1	N	(278) <0.1
Mephosfolan	ug/l	0.1	N	<0.1
Mepronil	ug/l	0.1	N	<0.1
Metalaxyl	ug/l	0.1	N	<0.1
Metazachlor	ug/l	0.1	N	<0.1
Methacrifos	ug/l	0.1	N	<0.1
Methidathion	ug/l	0.1	N	<0.1
Methoxychlor	ug/l	0.1	N	<0.1
Methyl Paraoxon	ug/l	0.1	N	(278) <0.1
Metolachlor	ug/l	0.1	N	<0.1
Metolcarb	ug/l	0.1	N	<0.1
Metrafenone	ug/l	0.1	N	<0.1
Metribuzin	ug/l	0.1	N	<0.1
Mevinphos	ug/l	0.1	N	<0.1
Mirex	ug/l	0.1	N	<0.1
Molinate	ug/l	0.1	N	<0.1
Myclobutanil	ug/l	0.1	N	<0.1
Napropamide	ug/l	0.1	N	<0.1
Nitrofen	ug/l	0.1	N	<0.1
Nitrothal isopropyl	ug/l	0.1	N	<0.1
Nuarimol	ug/l	0.1	N	<0.1
o,p'-DDT	ug/l	0.1	N	<0.1
o,p-DDD	ug/l	0.1	N	<0.1
o,p-DDE	ug/l	0.1	N	<0.1
Octylisothiazolon	ug/l	0.1	N	<0.1
Ofurace	ug/l	0.1	N	<0.1
Orysastrobin	ug/l	0.1	N	<0.1
Oxadiazon	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Oxadixyl	ug/l	0.1	N	<0.1
Oxyfluorfen	ug/l	0.1	N	(278) <0.1
p,p-DDD	ug/l	0.1	N	<0.1
p,p-DDE	ug/l	0.1	N	<0.1
p,p-DDT	**ug/l**	**0.1**	**N**	**0.2**
Paclobutrazol	ug/l	0.1	N	<0.1
Paraoxon	ug/l	0.1	N	<0.1
Parathion	ug/l	0.1	N	<0.1
Parathion methyl	ug/l	0.1	N	<0.1
Penconazole	ug/l	0.1	N	<0.1
Pendimethalin	ug/l	0.1	N	<0.1
Pentachloroaniline	ug/l	0.1	N	<0.1
Pentachlorophenol	**ug/l**	**0.1**	**N**	(147) **8.1**
Pentanochlor	ug/l	0.1	N	<0.1
Permethrin	ug/l	0.1	N	<0.1
Pethoxamid	ug/l	0.1	N	<0.1
Phenothrin	ug/l	0.1	N	<0.1
Phenthoate	ug/l	0.1	N	<0.1
Phorate	ug/l	0.1	N	<0.1
Phosalone	ug/l	0.1	N	<0.1
Phosfolan	ug/l	0.1	N	<0.1
Picoxystrobin	ug/l	0.1	N	<0.1
Piperonyl Butoxide	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	(278) <0.1
Pirimiphos Ethyl	ug/l	0.1	N	<0.1
Pirimiphos methyl	ug/l	0.1	N	<0.1
Pretilachlor	ug/l	0.1	N	<0.1
Procymidone	ug/l	0.1	N	<0.1
Profenofos	ug/l	0.1	N	<0.1
Prometon	ug/l	0.1	N	(278) <0.1
Prometryn	ug/l	0.1	N	(278) <0.1
Propachlor	ug/l	0.1	N	<0.1
Propanil	ug/l	0.1	N	<0.1
Propaphos	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	(278) <0.1
Propazine	ug/l	0.1	N	<0.1
Propetamphos	ug/l	0.1	N	<0.1
Propham	**ug/l**	**0.1**	**N**	**190**

Report Number : 863842 002
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : BH302
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Propiconazole	ug/l	0.1	N	<0.1
Propyzamide	ug/l	0.1	N	<0.1
Proquinazid	ug/l	0.1	N	<0.1
Prosulfocarb	ug/l	0.1	N	<0.1
Prothiofos	ug/l	0.1	N	<0.1
Pyraclostrobin	ug/l	0.1	N	(278) <0.1
Pyraflufen ethyl	ug/l	0.1	N	<0.1
Pyrazophos	ug/l	0.1	N	<0.1
Pyridaben	ug/l	0.1	N	<0.1
Pyridaphenthion	ug/l	0.1	N	<0.1
Pyrimethanil	ug/l	0.1	N	(278) <0.1
Pyriproxyfen	ug/l	0.1	N	<0.1
Quinalphos	ug/l	0.1	N	<0.1
Quinoxyfen	ug/l	0.1	N	<0.1
Quintozene	ug/l	0.1	N	<0.1
Quizalofop-ethyl	ug/l	0.1	N	<0.1
Secbumeton	ug/l	0.1	N	(278) <0.1
Silafluofen	ug/l	0.1	N	<0.1
Simazine	ug/l	0.1	N	<0.1
Simeconazole	ug/l	0.1	N	<0.1
Sulfallate	ug/l	0.1	N	<0.1
Sulprofos	ug/l	0.1	N	<0.1
Tebuconazole	ug/l	0.1	N	(278) <0.1
Tebufenpyrad	ug/l	0.1	N	<0.1
Tebupirimiphos	ug/l	0.1	N	<0.1
Tecnazene	ug/l	0.1	N	(278) <0.1
Tefluthrin	ug/l	0.1	N	<0.1
Terbacil	ug/l	0.1	N	<0.1
Terbufos	ug/l	0.1	N	<0.1
Terbumeton	ug/l	0.1	N	(278) <0.1
Terbuthylazine	ug/l	0.1	N	<0.1
Terbutryn	ug/l	0.1	N	(278) <0.1
Tetrachlorvinphos	ug/l	0.1	N	<0.1
Tetraconazole	ug/l	0.1	N	<0.1
Tetradifon	ug/l	0.1	N	<0.1
tetraethyl dithiopyrophosphate	ug/l	0.1	N	<0.1
Tetramethrin	ug/l	0.1	N	<0.1
Tetrasul	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Thiamethoxam	ug/l	0.1	N	<0.1
Thiobencarb	ug/l	0.1	N	<0.1
Tolclofos-methyl	ug/l	0.1	N	<0.1
Triadimefon	ug/l	0.1	N	<0.1
Triadimenol	ug/l	0.1	N	(278) <0.1
Triallate	ug/l	0.1	N	<0.1
Triazamate	ug/l	0.1	N	<0.1
Triazophos	ug/l	0.1	N	<0.1
Trifloxystrobin	ug/l	0.1	N	<0.1
Triflumizole	ug/l	0.1	N	(278) <0.1
Trifluralin	ug/l	0.1	N	<0.1
Vinclozolin	ug/l	0.1	N	<0.1
Vinclozolin metabolite 3,5-Dichloroaniline	ug/l	0.1	N	(278) <0.1

Report Number : 863842 002
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : BH302
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
2-(1-Naphthyl)acetamide	ug/l	0.1	N	<0.1
3-hydroxycarbofuran	ug/l	0.1	N	<0.1
6-Benzyladenine	ug/l	0.1	N	<0.1
Acephate	ug/l	0.1	N	<0.1
Acetamiprid	ug/l	0.1	N	<0.1
Acibenzolar-S-methyl	ug/l	0.1	N	<0.1
Aldicarb	ug/l	0.1	N	<0.1
Aldicarb sulphone	ug/l	0.1	N	<0.1
Aldicarb sulphoxide	ug/l	0.1	N	<0.1
Aminocarb	ug/l	0.1	N	<0.1
Azadirachtin	ug/l	0.1	N	<0.1
Azinphos ethyl	ug/l	0.1	N	<0.1
Azinphos methyl	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Bendiocarb	ug/l	0.1	N	<0.1
Benfuracarb	ug/l	0.1	N	(278) <0.1
Butralin	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbendazim	ug/l	0.1	N	(278) <0.1
Carbetamide	ug/l	0.1	N	<0.1
Carbofuran	ug/l	0.1	N	<0.1
Carbosulfan	ug/l	0.1	N	(278) <0.1
Carpropamid	ug/l	0.1	N	<0.1
Chinomethionat	ug/l	0.1	N	<0.1
Chlorantraniliprole	ug/l	0.1	N	<0.1
Chlorbromuron	ug/l	0.1	N	<0.1
Chlorfluazuron	ug/l	0.1	N	<0.1
Chloridazon	**ug/l**	**0.1**	**N**	**0.2**
Chlorotoluron	ug/l	0.1	N	<0.1
Clofentezine	ug/l	0.1	N	<0.1
Clothianidin	ug/l	0.1	N	<0.1
Cyanazine	ug/l	0.1	N	<0.1
Cyazofamid	ug/l	0.1	N	<0.1
Cycluron	ug/l	0.1	N	<0.1
Cymoxanil	ug/l	0.1	N	<0.1
Cythioate	ug/l	0.1	N	<0.1
Demeton	ug/l	0.1	N	<0.1
Demeton-s-methyl	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Demeton-s-methyl sulphone	ug/l	0.1	N	<0.1
Dichlofluanid	ug/l	0.1	N	<0.1
Dicrotophos	ug/l	0.1	N	<0.1
Diethofencarb	ug/l	0.1	N	<0.1
Diflubenzuron	ug/l	0.1	N	<0.1
Dimefuron	ug/l	0.1	N	<0.1
Dimethoate	ug/l	0.1	N	<0.1
Diniconazole	ug/l	0.1	N	<0.1
Dinotefuran	ug/l	0.1	N	<0.1
Dioxacarb	ug/l	0.1	N	<0.1
Disulfoton sulfoxide	ug/l	0.1	N	<0.1
Disulfoton sulphone	ug/l	0.1	N	<0.1
Diuron	ug/l	0.1	N	<0.1
DMSA	ug/l	0.1	N	<0.1
DMST	ug/l	0.1	N	<0.1
Dodemorph	ug/l	0.1	N	(278) <0.1
Dodine	ug/l	0.1	N	<0.1
Emamectin	ug/l	0.1	N	<0.1
Ethidimuron	ug/l	0.1	N	<0.1
Ethiofencarb	ug/l	0.1	N	<0.1
Ethiofencarb sulfone	ug/l	0.1	N	<0.1
Ethiofencarb sulfoxide	ug/l	0.1	N	<0.1
Ethiprole	ug/l	0.1	N	<0.1
Ethirimol	ug/l	0.1	N	<0.1
Fenamiphos sulfone	ug/l	0.1	N	<0.1
Fenamiphos sulfoxide	ug/l	0.1	N	<0.1
Fenazaquin	ug/l	0.1	N	<0.1
Fenchlorphos oxon	ug/l	0.1	N	<0.1
Fenhexamid	ug/l	0.1	N	<0.1
Fenoxycarb	ug/l	0.1	N	<0.1
Fenpropidin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenpyroximate	ug/l	0.1	N	<0.1
Fenthion Sulphone	ug/l	0.1	N	<0.1
Fenthion Sulphoxide	ug/l	0.1	N	<0.1
Fenuron	**ug/l**	**0.1**	**N**	**0.2**
Flonicamid	ug/l	0.1	N	<0.1
Fluazinam	ug/l	0.1	N	<0.1

Report Number : 863842 002
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : BH302
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Flufenoxuron	ug/l	0.1	N	<0.1
Fluometuron	ug/l	0.1	N	<0.1
Fluopicolide	ug/l	0.1	N	<0.1
Fluorochloridone	ug/l	0.1	N	<0.1
Fluoxastrobin	ug/l	0.1	N	<0.1
Flurtamone	ug/l	0.1	N	<0.1
Flutriafol	ug/l	0.1	N	<0.1
Forchlorfenuron	ug/l	0.1	N	<0.1
Fosthiasate	ug/l	0.1	N	<0.1
Fuberidazole	ug/l	0.1	N	<0.1
Furathiocarb	ug/l	0.1	N	<0.1
Hexaflumuron	ug/l	0.1	N	<0.1
Hexythiazox	ug/l	0.1	N	<0.1
Imazalil	ug/l	0.1	N	(278) <0.1
Imibenconazole	ug/l	0.1	N	<0.1
Imidacloprid	ug/l	0.1	N	<0.1
Indoxacarb	ug/l	0.1	N	<0.1
Iprovalicarb	ug/l	0.1	N	<0.1
Isoprocarb	ug/l	0.1	N	<0.1
Isoproturon	ug/l	0.1	N	<0.1
Isoxaben	ug/l	0.1	N	<0.1
Karbutilate	ug/l	0.1	N	<0.1
Linuron	ug/l	0.1	N	<0.1
Lufenuron	ug/l	0.1	N	<0.1
Malaoxon	ug/l	0.1	N	<0.1
Mandipropamid	ug/l	0.1	N	<0.1
Mefenacet	ug/l	0.1	N	<0.1
Metamitron	ug/l	0.1	N	<0.1
Metconazole	ug/l	0.1	N	<0.1
Methabenzthiazuron	ug/l	0.1	N	<0.1
Methamidophos	ug/l	0.1	N	<0.1
Methiocarb	ug/l	0.1	N	<0.1
Methiocarb Sulfone	ug/l	0.1	N	<0.1
Methiocarb Sulfoxide	ug/l	0.1	N	<0.1
Methomyl	ug/l	0.1	N	<0.1
Methoxyfenozide	ug/l	0.1	N	<0.1
Metobromuron	ug/l	0.1	N	<0.1
Metoxuron	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Monocrotophos	ug/l	0.1	N	<0.1
Monolinuron	ug/l	0.1	N	<0.1
Monuron	ug/l	0.1	N	<0.1
Neburon	ug/l	0.1	N	<0.1
Nicotine	ug/l	1.0	N	(278, 62) <1.0
Nitenpyram	ug/l	0.1	N	<0.1
Novaluron	ug/l	0.1	N	<0.1
Omethoate	ug/l	0.1	N	<0.1
Oxadiargyl	ug/l	0.1	N	<0.1
Oxamyl	ug/l	0.1	N	<0.1
Oxycarboxin	ug/l	0.1	N	<0.1
Oxydemeton-Methyl	ug/l	0.1	N	<0.1
Pencycuron	ug/l	0.1	N	<0.1
Phorate sulfone	ug/l	0.1	N	<0.1
Phorate sulfoxide	ug/l	0.1	N	<0.1
Phosmet	ug/l	0.1	N	<0.1
Phosphamidon	ug/l	0.1	N	<0.1
Phoxim	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	<0.1
Prochloraz	ug/l	0.1	N	<0.1
Promecarb	ug/l	0.1	N	<0.1
Propamocarb	ug/l	0.1	N	<0.1
Propaquizafop	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	<0.1
Propoxur	ug/l	0.1	N	<0.1
Pymetrozine	ug/l	0.1	N	<0.1
Pyrifenox	ug/l	0.1	N	<0.1
Resmethrin	ug/l	0.1	N	<0.1
Rotenone	ug/l	0.1	N	<0.1
Spinosad	ug/l	0.1	N	<0.1
Spirodiclofen	ug/l	0.1	N	<0.1
Spiromesifen	ug/l	0.1	N	<0.1
Spiroxamine	ug/l	0.1	N	<0.1
Tebufenozide	ug/l	0.1	N	<0.1
Teflubenzuron	ug/l	0.1	N	<0.1
Temephos	ug/l	0.1	N	<0.1
Terbufos sulfone	ug/l	0.1	N	<0.1
Terbufos sulfoxide	ug/l	0.1	N	<0.1

Report Number : 863842 002
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : BH302
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Thiabendazole	ug/l	0.1	N	<0.1
Thiacloprid	ug/l	0.1	N	<0.1
Thiazafluron	ug/l	0.1	N	<0.1
Thiodicarb	ug/l	0.1	N	<0.1
Thiofanox	ug/l	0.1	N	<0.1
Thiophanate Methyl	ug/l	0.1	N	<0.1
Tolylfluanid	ug/l	0.1	N	<0.1
Trichlorfon	ug/l	0.1	N	<0.1
Tridemorph	ug/l	0.1	N	<0.1
Trifloxysulfuron	ug/l	0.1	N	<0.1
Triflumuron	ug/l	0.1	N	<0.1
Triflusulfuron-methyl	ug/l	0.1	N	<0.1
Triticonazole	ug/l	0.1	N	<0.1
Vamidothion	ug/l	0.1	N	<0.1
Vernolate	ug/l	0.1	N	<0.1
Zoxamide	ug/l	0.1	N	<0.1

CONCEPT LIFE SCIENCES
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Concept Life Sciences

Certificate of Analysis

Unit 2
The Links
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Tel : 01954 782791
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Report Number : 863842 003
Date of Issue : 04-Jun-2020

Customer : Pam Brown Associates
Contact : Dr Melissa Morales
Address : 2 Needwood House, Lancaster Park, Newborough Road, Needwood Burton on Trent, DE13 9PD

Samples Received : 29-May-2020
Analysis Started : 01-Jun-2020
Concept Job Reference : 863842-1
Analysis Requested : MRPS by GC (CSOPP611), MRPS by LC (CSOPP603)
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : BH303
Location : Wheathampstead
Sample Description : Water

Results Summary

Analyte	Level Found	Units	LOD	EU MRL mg/kg	CODEX MRL mg/kg	Symbol
MRPS by GC (CSOPP611)						
Carboxine	**3.9**	ug/l	0.1			N
Chlorpropham	**4.0**	ug/l	0.1			N
EPTC	**1.0**	ug/l	0.1			N
Fenson	**11**	ug/l	0.1			N
Hexachlorocyclohexane (beta)	**0.2**	ug/l	0.1			N
Propham	**25**	ug/l	0.1			N
MRPS by LC (CSOPP603)						
Chloridazon	**0.1**	ug/l	0.1			N
Fenuron	**0.5**	ug/l	0.1			N

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.
Customers are responsible for information provided where, if incorrect, it could affect the validity of the results.
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 Concept Life Sciences SOPs
All results have been reviewed in accordance with QMSection 15 of the Concept Life Sciences, Analytical Services Quality Manual
All samples prepared in accordance with the CODEX alimentarius

Report checked
and authorised by :
Matt Line
Section Manager - Pesticides

Issued by :
Mr Mark Obrien
Customer Service Manager Mark O'Brien

Index to symbols used in this report

Value	Description
3	LOD Raised Due to Elevated Blank
62	LOD was raised due to the method performance of the analytical procedure used
147	Result has been Recovery corrected.
13	Results have been blank corrected.
278	Data reported is qualitative as recovery is outside the 60 to 140% range
N	Analysis is not UKAS accredited

Report Number : 863842 003
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : BH303
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
2,4,6-Trichlorophenol	ug/l	0.1	N	<0.1
2-Phenylphenol	ug/l	0.2	N	(3) <0.2
Acetochlor	ug/l	0.1	N	<0.1
Aclonifen	ug/l	0.1	N	(278) <0.1
Acrinathrin	ug/l	0.1	N	(278) <0.1
Alachlor	ug/l	0.1	N	<0.1
Aldrin	ug/l	0.1	N	<0.1
Ametryn	ug/l	0.1	N	(278) <0.1
Atraton	ug/l	0.1	N	(278) <0.1
Atrazine	ug/l	0.1	N	<0.1
Azaconazole	ug/l	0.1	N	<0.1
Azobenzene	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Benalaxyl	ug/l	0.1	N	<0.1
Benfluralin	ug/l	0.1	N	<0.1
Bifenox	ug/l	0.1	N	<0.1
Bifenthrin	ug/l	0.1	N	<0.1
Binapacryl	ug/l	0.1	N	(278) <0.1
Biphenyl	ug/l	0.5	N	(3, 278) <0.5
Bitertanol	ug/l	0.1	N	(278) <0.1
Boscalid	ug/l	0.1	N	<0.1
Bromacil	ug/l	0.1	N	<0.1
Bromophos	ug/l	0.1	N	<0.1
Bromophos-Ethyl	ug/l	0.1	N	<0.1
Bromopropylate	ug/l	0.1	N	<0.1
Bupirimate	ug/l	0.1	N	(278) <0.1
Buprofezine	ug/l	0.1	N	<0.1
Butachlor	ug/l	0.1	N	<0.1
Cadusafos	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbophenothion	ug/l	0.1	N	<0.1
Carboxine	**ug/l**	**0.1**	**N**	**3.9**
Carfentrazone Ethyl	ug/l	0.1	N	(278) <0.1
Chlorobenzilate	ug/l	0.1	N	<0.1
Chlordane (sum of cis and trans isomers)	ug/l	0.1	N	(278) <0.1
Chlordimeform	ug/l	0.1	N	(278) <0.1
Chlorethoxyfos	ug/l	0.1	N	<0.1
Chlorfenapyr	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Chlorfenvinphos	ug/l	0.1	N	<0.1
Chlormephos	ug/l	0.1	N	<0.1
Chloropropylate	ug/l	0.1	N	<0.1
Chlorothalonil	ug/l	0.1	N	<0.1
Chlorpropham	**ug/l**	**0.1**	**N**	**4.0**
Chlorpyrifos	ug/l	0.1	N	<0.1
Chlorpyrifos methyl	ug/l	0.1	N	<0.1
Chlorthal Dimethyl	ug/l	0.1	N	<0.1
Chlorthion	ug/l	0.1	N	<0.1
Chlorthiophos	ug/l	0.1	N	<0.1
Chlozolinate	ug/l	0.1	N	(278) <0.1
Clodinafop Propargyl	ug/l	0.1	N	(278) <0.1
Clomazone	ug/l	0.1	N	<0.1
Cloquintocet mexyl	ug/l	0.1	N	<0.1
Coumaphos	ug/l	0.1	N	(278) <0.1
Cyflufenamid	ug/l	0.1	N	<0.1
Cyfluthrin	ug/l	0.1	N	<0.1
Cypermethrin	ug/l	0.1	N	<0.1
Cyphenothrin	ug/l	0.1	N	<0.1
Cyproconazole	ug/l	0.1	N	(278) <0.1
Cyprodinil	ug/l	0.1	N	(278) <0.1
Deltamethrin	ug/l	0.1	N	<0.1
Desmetryn	ug/l	0.1	N	(278) <0.1
Diafenthiuron	ug/l	0.1	N	(278) <0.1
Dialifos	ug/l	0.1	N	<0.1
Diazinon	ug/l	0.1	N	<0.1
Dichlobenil	ug/l	0.1	N	<0.1
Dichlofenthion	ug/l	0.1	N	<0.1
Dichlorvos	ug/l	0.1	N	<0.1
Diclobutrazol	ug/l	0.1	N	<0.1
Dicloran	ug/l	0.1	N	<0.1
Dicofol	ug/l	0.1	N	(278) <0.1
Dieldrin	ug/l	0.1	N	<0.1
Difenoconazole	ug/l	0.1	N	<0.1
Diflufenican	ug/l	0.1	N	<0.1
Dimethenamid	ug/l	0.1	N	<0.1
Dimethomorph	ug/l	0.1	N	<0.1
Dimoxystrobin	ug/l	0.1	N	<0.1

Report Number : 863842 003
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : BH303
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Dioxabenzofos	ug/l	0.1	N	<0.1
Diphenamid	ug/l	0.1	N	<0.1
Diphenylamine	ug/l	0.1	N	<0.1
Disulfoton	ug/l	0.1	N	<0.1
Ditalimfos	ug/l	0.1	N	<0.1
Edifenphos	ug/l	0.1	N	<0.1
Endosulphan alpha	ug/l	0.1	N	<0.1
Endosulphan beta	ug/l	0.1	N	<0.1
Endosulphan sulphate	ug/l	0.1	N	<0.1
Endrin	ug/l	0.1	N	<0.1
EPN	ug/l	0.1	N	(278) <0.1
Epoxiconazole	ug/l	0.1	N	<0.1
EPTC	**ug/l**	**0.1**	**N**	**1.0**
Etaconazole	ug/l	0.1	N	<0.1
Ethion	ug/l	0.1	N	<0.1
Ethofumesate	ug/l	0.1	N	<0.1
Ethoprophos	ug/l	0.1	N	<0.1
Ethoxyquin	ug/l	0.1	N	<0.1
Etofenprox	ug/l	0.1	N	<0.1
Etoxazole	ug/l	0.1	N	<0.1
Etridiazole	ug/l	0.1	N	(278) <0.1
Etrimfos	ug/l	0.1	N	<0.1
Famoxadone	ug/l	0.1	N	<0.1
Famphur	ug/l	0.1	N	<0.1
Fenamidone	ug/l	0.1	N	<0.1
Fenamiphos	ug/l	0.1	N	<0.1
Fenarimol	ug/l	0.1	N	<0.1
Fenbuconazole	ug/l	0.1	N	<0.1
Fenchlorphos	ug/l	0.1	N	<0.1
Fenitrothion	ug/l	0.1	N	<0.1
Fenpiclonil	ug/l	0.1	N	<0.1
Fenpropathrin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenson	**ug/l**	**0.1**	**N**	**11**
Fensulfothion	ug/l	0.1	N	<0.1
Fenthion	ug/l	0.1	N	<0.1
Fenvalerate	ug/l	0.1	N	<0.1
Fipronil	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Fipronil sulphone	ug/l	0.1	N	<0.1
Flamprop isopropyl	ug/l	0.1	N	<0.1
Fluazifop-P-Butyl	ug/l	0.1	N	<0.1
Flucythrinate	ug/l	0.1	N	<0.1
Fludioxonil	ug/l	0.1	N	<0.1
Flufenacet	ug/l	0.1	N	<0.1
Flumetralin	ug/l	0.1	N	<0.1
Flumioxazin	ug/l	0.1	N	(278) <0.1
Flumorph	ug/l	0.1	N	<0.1
Fluopyram	ug/l	0.1	N	<0.1
Fluquinconazole	ug/l	0.1	N	<0.1
Fluroxypyr-1-methylheptyl ester	ug/l	0.1	N	<0.1
Flusilazole	ug/l	0.1	N	<0.1
Flutolanil	ug/l	0.1	N	<0.1
Fluxapyroxad	ug/l	0.1	N	<0.1
Fonophos	ug/l	0.1	N	<0.1
Formothion	ug/l	0.1	N	(278) <0.1
Furalaxyl	ug/l	0.1	N	<0.1
Haloxyfop etotyl	ug/l	0.1	N	<0.1
Haloxyfop Methyl	ug/l	0.1	N	<0.1
Heptachlor	ug/l	0.1	N	<0.1
Heptachlor epoxide	ug/l	0.1	N	<0.1
Heptachlor exo Epoxide	ug/l	0.1	N	<0.1
Heptenophos	ug/l	0.1	N	<0.1
Hexachlorobenzene	ug/l	0.1	N	(278) <0.1
Hexachlorocyclohexane (alpha)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (beta)	**ug/l**	**0.1**	**N**	**0.2**
Hexachlorocyclohexane (delta)	ug/l	0.1	N	<0.1
Hexaconazole	ug/l	0.1	N	(278) <0.1
Hexazinone	ug/l	0.1	N	<0.1
Iodofenphos	ug/l	0.1	N	<0.1
Iprodione	ug/l	0.1	N	(278) <0.1
Isazofos	ug/l	0.1	N	<0.1
Isocarbophos	ug/l	0.1	N	<0.1
Isodrin	ug/l	0.1	N	<0.1
Isofenphos	ug/l	0.1	N	<0.1
Isofenphos Methyl	ug/l	0.1	N	<0.1
Isomethiozin	ug/l	0.1	N	<0.1

Report Number : 863842 003
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : BH303
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Isoprothiolane	ug/l	0.1	N	<0.1
Isopyrazam	ug/l	0.1	N	<0.1
Kresoxim Methyl	ug/l	0.1	N	<0.1
Lambda Cyhalothrin	ug/l	0.1	N	<0.1
Lenacil	ug/l	0.1	N	<0.1
Leptophos	ug/l	0.1	N	<0.1
Lindane	ug/l	0.1	N	<0.1
Malathion	ug/l	0.1	N	<0.1
MCPA-thioethyl	ug/l	0.1	N	<0.1
Mecarbam	ug/l	0.1	N	(278) <0.1
Mepanipyrim	ug/l	0.1	N	(278) <0.1
Mephosfolan	ug/l	0.1	N	<0.1
Mepronil	ug/l	0.1	N	<0.1
Metalaxyl	ug/l	0.1	N	<0.1
Metazachlor	ug/l	0.1	N	<0.1
Methacrifos	ug/l	0.1	N	<0.1
Methidathion	ug/l	0.1	N	<0.1
Methoxychlor	ug/l	0.1	N	<0.1
Methyl Paraoxon	ug/l	0.1	N	(278) <0.1
Metolachlor	ug/l	0.1	N	<0.1
Metolcarb	ug/l	0.1	N	<0.1
Metrafenone	ug/l	0.1	N	<0.1
Metribuzin	ug/l	0.1	N	<0.1
Mevinphos	ug/l	0.1	N	<0.1
Mirex	ug/l	0.1	N	<0.1
Molinate	ug/l	0.1	N	<0.1
Myclobutanil	ug/l	0.1	N	<0.1
Napropamide	ug/l	0.1	N	<0.1
Nitrofen	ug/l	0.1	N	<0.1
Nitrothal isopropyl	ug/l	0.1	N	<0.1
Nuarimol	ug/l	0.1	N	<0.1
o,p'-DDT	ug/l	0.1	N	<0.1
o,p-DDD	ug/l	0.1	N	<0.1
o,p-DDE	ug/l	0.1	N	<0.1
Octylisothiazolon	ug/l	0.1	N	<0.1
Ofurace	ug/l	0.1	N	<0.1
Orysastrobin	ug/l	0.1	N	<0.1
Oxadiazon	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Oxadixyl	ug/l	0.1	N	<0.1
Oxyfluorfen	ug/l	0.1	N	(278) <0.1
p,p-DDD	ug/l	0.1	N	<0.1
p,p-DDE	ug/l	0.1	N	<0.1
p,p-DDT	ug/l	0.1	N	<0.1
Paclobutrazol	ug/l	0.1	N	<0.1
Paraoxon	ug/l	0.1	N	<0.1
Parathion	ug/l	0.1	N	<0.1
Parathion methyl	ug/l	0.1	N	<0.1
Penconazole	ug/l	0.1	N	<0.1
Pendimethalin	ug/l	0.1	N	<0.1
Pentachloroaniline	ug/l	0.1	N	<0.1
Pentachlorophenol	ug/l	0.1	N	(278) <0.1
Pentanochlor	ug/l	0.1	N	<0.1
Permethrin	ug/l	0.1	N	<0.1
Pethoxamid	ug/l	0.1	N	<0.1
Phenothrin	ug/l	0.1	N	<0.1
Phenthoate	ug/l	0.1	N	<0.1
Phorate	ug/l	0.1	N	<0.1
Phosalone	ug/l	0.1	N	<0.1
Phosfolan	ug/l	0.1	N	<0.1
Picoxystrobin	ug/l	0.1	N	<0.1
Piperonyl Butoxide	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	(278) <0.1
Pirimiphos Ethyl	ug/l	0.1	N	<0.1
Pirimiphos methyl	ug/l	0.1	N	<0.1
Pretilachlor	ug/l	0.1	N	<0.1
Procymidone	ug/l	0.1	N	<0.1
Profenofos	ug/l	0.1	N	<0.1
Prometon	ug/l	0.1	N	(278) <0.1
Prometryn	ug/l	0.1	N	(278) <0.1
Propachlor	ug/l	0.1	N	<0.1
Propanil	ug/l	0.1	N	<0.1
Propaphos	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	(278) <0.1
Propazine	ug/l	0.1	N	<0.1
Propetamphos	ug/l	0.1	N	<0.1
Propham	**ug/l**	**0.1**	**N**	**25**

Report Number : 863842 003
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : BH303
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Propiconazole	ug/l	0.1	N	<0.1
Propyzamide	ug/l	0.1	N	<0.1
Proquinazid	ug/l	0.1	N	<0.1
Prosulfocarb	ug/l	0.1	N	<0.1
Prothiofos	ug/l	0.1	N	<0.1
Pyraclostrobin	ug/l	0.1	N	(278) <0.1
Pyraflufen ethyl	ug/l	0.1	N	<0.1
Pyrazophos	ug/l	0.1	N	<0.1
Pyridaben	ug/l	0.1	N	<0.1
Pyridaphenthion	ug/l	0.1	N	<0.1
Pyrimethanil	ug/l	0.1	N	(278) <0.1
Pyriproxyfen	ug/l	0.1	N	<0.1
Quinalphos	ug/l	0.1	N	<0.1
Quinoxyfen	ug/l	0.1	N	<0.1
Quintozene	ug/l	0.1	N	<0.1
Quizalofop-ethyl	ug/l	0.1	N	<0.1
Secbumeton	ug/l	0.1	N	(278) <0.1
Silafluofen	ug/l	0.1	N	<0.1
Simazine	ug/l	0.1	N	<0.1
Simeconazole	ug/l	0.1	N	<0.1
Sulfallate	ug/l	0.1	N	<0.1
Sulprofos	ug/l	0.1	N	<0.1
Tebuconazole	ug/l	0.1	N	(278) <0.1
Tebufenpyrad	ug/l	0.1	N	<0.1
Tebupirimiphos	ug/l	0.1	N	<0.1
Tecnazene	ug/l	0.1	N	(278) <0.1
Tefluthrin	ug/l	0.1	N	<0.1
Terbacil	ug/l	0.1	N	<0.1
Terbufos	ug/l	0.1	N	<0.1
Terbumeton	ug/l	0.1	N	(278) <0.1
Terbuthylazine	ug/l	0.1	N	<0.1
Terbutryn	ug/l	0.1	N	(278) <0.1
Tetrachlorvinphos	ug/l	0.1	N	<0.1
Tetraconazole	ug/l	0.1	N	<0.1
Tetradifon	ug/l	0.1	N	<0.1
tetraethyl dithiopyrophosphate	ug/l	0.1	N	<0.1
Tetramethrin	ug/l	0.1	N	<0.1
Tetrasul	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Thiamethoxam	ug/l	0.1	N	<0.1
Thiobencarb	ug/l	0.1	N	<0.1
Tolclofos-methyl	ug/l	0.1	N	<0.1
Triadimefon	ug/l	0.1	N	<0.1
Triadimenol	ug/l	0.1	N	(278) <0.1
Triallate	ug/l	0.1	N	<0.1
Triazamate	ug/l	0.1	N	<0.1
Triazophos	ug/l	0.1	N	<0.1
Trifloxystrobin	ug/l	0.1	N	<0.1
Triflumizole	ug/l	0.1	N	(278) <0.1
Trifluralin	ug/l	0.1	N	<0.1
Vinclozolin	ug/l	0.1	N	<0.1
Vinclozolin metabolite 3,5-Dichloroaniline	ug/l	0.1	N	(278) <0.1

Report Number : 863842 003
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : BH303
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
2-(1-Naphthyl)acetamide	ug/l	0.1	N	<0.1
3-hydroxycarbofuran	ug/l	0.1	N	<0.1
6-Benzyladenine	ug/l	0.1	N	<0.1
Acephate	ug/l	0.1	N	<0.1
Acetamiprid	ug/l	0.1	N	<0.1
Acibenzolar-S-methyl	ug/l	0.1	N	<0.1
Aldicarb	ug/l	0.1	N	<0.1
Aldicarb sulphone	ug/l	0.1	N	<0.1
Aldicarb sulphoxide	ug/l	0.1	N	<0.1
Aminocarb	ug/l	0.1	N	<0.1
Azadirachtin	ug/l	0.1	N	<0.1
Azinphos ethyl	ug/l	0.1	N	<0.1
Azinphos methyl	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Bendiocarb	ug/l	0.1	N	<0.1
Benfuracarb	ug/l	0.1	N	(278) <0.1
Butralin	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbendazim	ug/l	0.1	N	(278) <0.1
Carbetamide	ug/l	0.1	N	<0.1
Carbofuran	ug/l	0.1	N	<0.1
Carbosulfan	ug/l	0.1	N	(278) <0.1
Carpropamid	ug/l	0.1	N	<0.1
Chinomethionat	ug/l	0.1	N	<0.1
Chlorantraniliprole	ug/l	0.1	N	<0.1
Chlorbromuron	ug/l	0.1	N	<0.1
Chlorfluazuron	ug/l	0.1	N	<0.1
Chloridazon	**ug/l**	**0.1**	**N**	**0.1**
Chlorotoluron	ug/l	0.1	N	<0.1
Clofentezine	ug/l	0.1	N	<0.1
Clothianidin	ug/l	0.1	N	<0.1
Cyanazine	ug/l	0.1	N	<0.1
Cyazofamid	ug/l	0.1	N	<0.1
Cycluron	ug/l	0.1	N	<0.1
Cymoxanil	ug/l	0.1	N	<0.1
Cythioate	ug/l	0.1	N	<0.1
Demeton	ug/l	0.1	N	<0.1
Demeton-s-methyl	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Demeton-s-methyl sulphone	ug/l	0.1	N	<0.1
Dichlofluanid	ug/l	0.1	N	<0.1
Dicrotophos	ug/l	0.1	N	<0.1
Diethofencarb	ug/l	0.1	N	<0.1
Diflubenzuron	ug/l	0.1	N	<0.1
Dimefuron	ug/l	0.1	N	<0.1
Dimethoate	ug/l	0.1	N	<0.1
Diniconazole	ug/l	0.1	N	<0.1
Dinotefuran	ug/l	0.1	N	<0.1
Dioxacarb	ug/l	0.1	N	<0.1
Disulfoton sulfoxide	ug/l	0.1	N	<0.1
Disulfoton sulphone	ug/l	0.1	N	<0.1
Diuron	ug/l	0.1	N	<0.1
DMSA	ug/l	0.1	N	<0.1
DMST	ug/l	0.1	N	<0.1
Dodemorph	ug/l	0.1	N	(278) <0.1
Dodine	ug/l	0.1	N	<0.1
Emamectin	ug/l	0.1	N	<0.1
Ethidimuron	ug/l	0.1	N	<0.1
Ethiofencarb	ug/l	0.1	N	<0.1
Ethiofencarb sulfone	ug/l	0.1	N	<0.1
Ethiofencarb sulfoxide	ug/l	0.1	N	<0.1
Ethiprole	ug/l	0.1	N	<0.1
Ethirimol	ug/l	0.1	N	<0.1
Fenamiphos sulfone	ug/l	0.1	N	<0.1
Fenamiphos sulfoxide	ug/l	0.1	N	<0.1
Fenazaquin	ug/l	0.1	N	<0.1
Fenchlorphos oxon	ug/l	0.1	N	<0.1
Fenhexamid	ug/l	0.1	N	<0.1
Fenoxycarb	ug/l	0.1	N	<0.1
Fenpropidin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenpyroximate	ug/l	0.1	N	<0.1
Fenthion Sulphone	ug/l	0.1	N	<0.1
Fenthion Sulphoxide	ug/l	0.1	N	<0.1
Fenuron	**ug/l**	**0.1**	**N**	**0.5**
Flonicamid	ug/l	0.1	N	<0.1
Fluazinam	ug/l	0.1	N	<0.1

Report Number : 863842 003
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : BH303
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Flufenoxuron	ug/l	0.1	N	<0.1
Fluometuron	ug/l	0.1	N	<0.1
Fluopicolide	ug/l	0.1	N	<0.1
Fluorochloridone	ug/l	0.1	N	<0.1
Fluoxastrobin	ug/l	0.1	N	<0.1
Flurtamone	ug/l	0.1	N	<0.1
Flutriafol	ug/l	0.1	N	<0.1
Forchlorfenuron	ug/l	0.1	N	<0.1
Fosthiasate	ug/l	0.1	N	<0.1
Fuberidazole	ug/l	0.1	N	<0.1
Furathiocarb	ug/l	0.1	N	<0.1
Hexaflumuron	ug/l	0.1	N	<0.1
Hexythiazox	ug/l	0.1	N	<0.1
Imazalil	ug/l	0.1	N	(278) <0.1
Imibenconazole	ug/l	0.1	N	<0.1
Imidacloprid	ug/l	0.1	N	<0.1
Indoxacarb	ug/l	0.1	N	<0.1
Iprovalicarb	ug/l	0.1	N	<0.1
Isoprocarb	ug/l	0.1	N	<0.1
Isoproturon	ug/l	0.1	N	<0.1
Isoxaben	ug/l	0.1	N	<0.1
Karbutilate	ug/l	0.1	N	<0.1
Linuron	ug/l	0.1	N	<0.1
Lufenuron	ug/l	0.1	N	<0.1
Malaoxon	ug/l	0.1	N	<0.1
Mandipropamid	ug/l	0.1	N	<0.1
Mefenacet	ug/l	0.1	N	<0.1
Metamitron	ug/l	0.1	N	<0.1
Metconazole	ug/l	0.1	N	<0.1
Methabenzthiazuron	ug/l	0.1	N	<0.1
Methamidophos	ug/l	0.1	N	<0.1
Methiocarb	ug/l	0.1	N	<0.1
Methiocarb Sulfone	ug/l	0.1	N	<0.1
Methiocarb Sulfoxide	ug/l	0.1	N	<0.1
Methomyl	ug/l	0.1	N	<0.1
Methoxyfenozide	ug/l	0.1	N	<0.1
Metobromuron	ug/l	0.1	N	<0.1
Metoxuron	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Monocrotophos	ug/l	0.1	N	<0.1
Monolinuron	ug/l	0.1	N	<0.1
Monuron	ug/l	0.1	N	<0.1
Neburon	ug/l	0.1	N	<0.1
Nicotine	ug/l	1.0	N	(278, 62) <1.0
Nitenpyram	ug/l	0.1	N	<0.1
Novaluron	ug/l	0.1	N	<0.1
Omethoate	ug/l	0.1	N	<0.1
Oxadiargyl	ug/l	0.1	N	<0.1
Oxamyl	ug/l	0.1	N	<0.1
Oxycarboxin	ug/l	0.1	N	<0.1
Oxydemeton-Methyl	ug/l	0.1	N	<0.1
Pencycuron	ug/l	0.1	N	<0.1
Phorate sulfone	ug/l	0.1	N	<0.1
Phorate sulfoxide	ug/l	0.1	N	<0.1
Phosmet	ug/l	0.1	N	<0.1
Phosphamidon	ug/l	0.1	N	<0.1
Phoxim	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	<0.1
Prochloraz	ug/l	0.1	N	<0.1
Promecarb	ug/l	0.1	N	<0.1
Propamocarb	ug/l	0.1	N	<0.1
Propaquizafop	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	<0.1
Propoxur	ug/l	0.1	N	<0.1
Pymetrozine	ug/l	0.1	N	<0.1
Pyrifenox	ug/l	0.1	N	<0.1
Resmethrin	ug/l	0.1	N	<0.1
Rotenone	ug/l	0.1	N	<0.1
Spinosad	ug/l	0.1	N	<0.1
Spirodiclofen	ug/l	0.1	N	<0.1
Spiromesifen	ug/l	0.1	N	<0.1
Spiroxamine	ug/l	0.1	N	<0.1
Tebufenozide	ug/l	0.1	N	<0.1
Teflubenzuron	ug/l	0.1	N	<0.1
Temephos	ug/l	0.1	N	<0.1
Terbufos sulfone	ug/l	0.1	N	<0.1
Terbufos sulfoxide	ug/l	0.1	N	<0.1

Report Number : 863842 003
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : BH303
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Thiabendazole	ug/l	0.1	N	<0.1
Thiacloprid	ug/l	0.1	N	<0.1
Thiazafluron	ug/l	0.1	N	<0.1
Thiodicarb	ug/l	0.1	N	<0.1
Thiofanox	ug/l	0.1	N	<0.1
Thiophanate Methyl	ug/l	0.1	N	<0.1
Tolylfluanid	ug/l	0.1	N	<0.1
Trichlorfon	ug/l	0.1	N	<0.1
Tridemorph	ug/l	0.1	N	<0.1
Trifloxysulfuron	ug/l	0.1	N	<0.1
Triflumuron	ug/l	0.1	N	<0.1
Triflusulfuron-methyl	ug/l	0.1	N	<0.1
Triticonazole	ug/l	0.1	N	<0.1
Vamidothion	ug/l	0.1	N	<0.1
Vernolate	ug/l	0.1	N	<0.1
Zoxamide	ug/l	0.1	N	<0.1

CONCEPT LIFE SCIENCES
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Concept Life Sciences

Certificate of Analysis

Unit 2
The Links
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Tel : 01954 782791
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Report Number : 863842 004
Date of Issue : 04-Jun-2020

Customer : Pam Brown Associates
Contact : Dr Melissa Morales
Address : 2 Needwood House, Lancaster Park, Newborough Road, Needwood Burton on Trent, DE13 9PD

Samples Received : 29-May-2020
Analysis Started : 01-Jun-2020
Concept Job Reference : 863842-1
Analysis Requested : MRPS by GC (CSOPP611), MRPS by LC (CSOPP603)
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : BH304
Location : Wheathampstead
Sample Description : Water

Results Summary

Analyte	Level Found	Units	LOD	EU MRL mg/kg	CODEX MRL mg/kg	Symbol
MRPS by GC (CSOPP611)						
Carboxine	**3.6**	ug/l	0.1			N
Chlorpropham	**0.5**	ug/l	0.1			N
EPTC	**0.1**	ug/l	0.1			N
Fenson	**3.6**	ug/l	0.1			N
Hexachlorocyclohexane (beta)	**0.2**	ug/l	0.1			N
Propham	**3.8**	ug/l	0.1			N
MRPS by LC (CSOPP603)						
Fenuron	**0.3**	ug/l	0.1			N

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.
Customers are responsible for information provided where, if incorrect, it could affect the validity of the results.
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 Concept Life Sciences SOPs
All results have been reviewed in accordance with QMSection 15 of the Concept Life Sciences, Analytical Services Quality Manual
All samples prepared in accordance with the CODEX alimentarius

Report checked
and authorised by :
Matt Line
Section Manager - Pesticides

Issued by :
Mr Mark Obrien
Customer Service Manager Mark O'Brien

Index to symbols used in this report

Value	Description
3	LOD Raised Due to Elevated Blank
62	LOD was raised due to the method performance of the analytical procedure used
147	Result has been Recovery corrected.
13	Results have been blank corrected.
278	Data reported is qualitative as recovery is outside the 60 to 140% range
N	Analysis is not UKAS accredited

Report Number : 863842 004
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : BH304
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
2,4,6-Trichlorophenol	ug/l	0.1	N	<0.1
2-Phenylphenol	ug/l	0.3	N	(3) <0.3
Acetochlor	ug/l	0.1	N	<0.1
Aclonifen	ug/l	0.1	N	(278) <0.1
Acrinathrin	ug/l	0.1	N	(278) <0.1
Alachlor	ug/l	0.1	N	<0.1
Aldrin	ug/l	0.1	N	<0.1
Ametryn	ug/l	0.1	N	(278) <0.1
Atraton	ug/l	0.1	N	(278) <0.1
Atrazine	ug/l	0.1	N	<0.1
Azaconazole	ug/l	0.1	N	<0.1
Azobenzene	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Benalaxyl	ug/l	0.1	N	<0.1
Benfluralin	ug/l	0.1	N	<0.1
Bifenox	ug/l	0.1	N	<0.1
Bifenthrin	ug/l	0.1	N	<0.1
Binapacryl	ug/l	0.1	N	(278) <0.1
Biphenyl	ug/l	0.5	N	(278, 3) <0.5
Bitertanol	ug/l	0.1	N	(278) <0.1
Boscalid	ug/l	0.1	N	<0.1
Bromacil	ug/l	0.1	N	<0.1
Bromophos	ug/l	0.1	N	<0.1
Bromophos-Ethyl	ug/l	0.1	N	<0.1
Bromopropylate	ug/l	0.1	N	<0.1
Bupirimate	ug/l	0.1	N	(278) <0.1
Buprofezine	ug/l	0.1	N	<0.1
Butachlor	ug/l	0.1	N	<0.1
Cadusafos	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbophenothion	ug/l	0.1	N	<0.1
Carboxine	**ug/l**	**0.1**	**N**	**3.6**
Carfentrazone Ethyl	ug/l	0.1	N	(278) <0.1
Chlorobenzilate	ug/l	0.1	N	<0.1
Chlordane (sum of cis and trans isomers)	ug/l	0.1	N	(278) <0.1
Chlordimeform	ug/l	0.1	N	(278) <0.1
Chlorethoxyfos	ug/l	0.1	N	<0.1
Chlorfenapyr	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Chlorfenvinphos	ug/l	0.1	N	<0.1
Chlormephos	ug/l	0.1	N	<0.1
Chloropropylate	ug/l	0.1	N	<0.1
Chlorothalonil	ug/l	0.1	N	<0.1
Chlorpropham	**ug/l**	**0.1**	**N**	**0.5**
Chlorpyrifos	ug/l	0.1	N	<0.1
Chlorpyrifos methyl	ug/l	0.1	N	<0.1
Chlorthal Dimethyl	ug/l	0.1	N	<0.1
Chlorthion	ug/l	0.1	N	<0.1
Chlorthiophos	ug/l	0.1	N	<0.1
Chlozolinate	ug/l	0.1	N	(278) <0.1
Clodinafop Propargyl	ug/l	0.1	N	(278) <0.1
Clomazone	ug/l	0.1	N	<0.1
Cloquintocet mexyl	ug/l	0.1	N	<0.1
Coumaphos	ug/l	0.1	N	(278) <0.1
Cyflufenamid	ug/l	0.1	N	<0.1
Cyfluthrin	ug/l	0.1	N	<0.1
Cypermethrin	ug/l	0.1	N	<0.1
Cyphenothrin	ug/l	0.1	N	<0.1
Cyproconazole	ug/l	0.1	N	(278) <0.1
Cyprodinil	ug/l	0.1	N	(278) <0.1
Deltamethrin	ug/l	0.1	N	<0.1
Desmetryn	ug/l	0.1	N	(278) <0.1
Diafenthiuron	ug/l	0.1	N	(278) <0.1
Dialifos	ug/l	0.1	N	<0.1
Diazinon	ug/l	0.1	N	<0.1
Dichlobenil	ug/l	0.1	N	<0.1
Dichlofenthion	ug/l	0.1	N	<0.1
Dichlorvos	ug/l	0.1	N	<0.1
Diclobutrazol	ug/l	0.1	N	<0.1
Dicloran	ug/l	0.1	N	<0.1
Dicofol	ug/l	0.1	N	(278) <0.1
Dieldrin	ug/l	0.1	N	<0.1
Difenoconazole	ug/l	0.1	N	<0.1
Diflufenican	ug/l	0.1	N	<0.1
Dimethenamid	ug/l	0.1	N	<0.1
Dimethomorph	ug/l	0.1	N	<0.1
Dimoxystrobin	ug/l	0.1	N	<0.1

Report Number : 863842 004
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : BH304
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Dioxabenzofos	ug/l	0.1	N	<0.1
Diphenamid	ug/l	0.1	N	<0.1
Diphenylamine	ug/l	0.1	N	<0.1
Disulfoton	ug/l	0.1	N	<0.1
Ditalimfos	ug/l	0.1	N	<0.1
Edifenphos	ug/l	0.1	N	<0.1
Endosulphan alpha	ug/l	0.1	N	<0.1
Endosulphan beta	ug/l	0.1	N	<0.1
Endosulphan sulphate	ug/l	0.1	N	<0.1
Endrin	ug/l	0.1	N	<0.1
EPN	ug/l	0.1	N	(278) <0.1
Epoxiconazole	ug/l	0.1	N	<0.1
EPTC	**ug/l**	**0.1**	**N**	**0.1**
Etaconazole	ug/l	0.1	N	<0.1
Ethion	ug/l	0.1	N	<0.1
Ethofumesate	ug/l	0.1	N	<0.1
Ethoprophos	ug/l	0.1	N	<0.1
Ethoxyquin	ug/l	0.1	N	<0.1
Etofenprox	ug/l	0.1	N	<0.1
Etoxazole	ug/l	0.1	N	<0.1
Etridiazole	ug/l	0.1	N	(278) <0.1
Etrimfos	ug/l	0.1	N	<0.1
Famoxadone	ug/l	0.1	N	<0.1
Famphur	ug/l	0.1	N	<0.1
Fenamidone	ug/l	0.1	N	<0.1
Fenamiphos	ug/l	0.1	N	<0.1
Fenarimol	ug/l	0.1	N	<0.1
Fenbuconazole	ug/l	0.1	N	<0.1
Fenchlorphos	ug/l	0.1	N	<0.1
Fenitrothion	ug/l	0.1	N	<0.1
Fenpiclonil	ug/l	0.1	N	<0.1
Fenpropathrin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenson	**ug/l**	**0.1**	**N**	**3.6**
Fensulfothion	ug/l	0.1	N	<0.1
Fenthion	ug/l	0.1	N	<0.1
Fenvalerate	ug/l	0.1	N	<0.1
Fipronil	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Fipronil sulphone	ug/l	0.1	N	<0.1
Flamprop isopropyl	ug/l	0.1	N	<0.1
Fluazifop-P-Butyl	ug/l	0.1	N	<0.1
Flucythrinate	ug/l	0.1	N	<0.1
Fludioxonil	ug/l	0.1	N	<0.1
Flufenacet	ug/l	0.1	N	<0.1
Flumetralin	ug/l	0.1	N	<0.1
Flumioxazin	ug/l	0.1	N	(278) <0.1
Flumorph	ug/l	0.1	N	<0.1
Fluopyram	ug/l	0.1	N	<0.1
Fluquinconazole	ug/l	0.1	N	<0.1
Fluroxypyr-1-methylheptyl ester	ug/l	0.1	N	<0.1
Flusilazole	ug/l	0.1	N	<0.1
Flutolanil	ug/l	0.1	N	<0.1
Fluxapyroxad	ug/l	0.1	N	<0.1
Fonophos	ug/l	0.1	N	<0.1
Formothion	ug/l	0.1	N	(278) <0.1
Furalaxyl	ug/l	0.1	N	<0.1
Haloxyfop etotyl	ug/l	0.1	N	<0.1
Haloxyfop Methyl	ug/l	0.1	N	<0.1
Heptachlor	ug/l	0.1	N	<0.1
Heptachlor epoxide	ug/l	0.1	N	<0.1
Heptachlor exo Epoxide	ug/l	0.1	N	<0.1
Heptenophos	ug/l	0.1	N	<0.1
Hexachlorobenzene	ug/l	0.1	N	(278) <0.1
Hexachlorocyclohexane (alpha)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (beta)	**ug/l**	**0.1**	**N**	**0.2**
Hexachlorocyclohexane (delta)	ug/l	0.1	N	<0.1
Hexaconazole	ug/l	0.1	N	(278) <0.1
Hexazinone	ug/l	0.1	N	<0.1
Iodofenphos	ug/l	0.1	N	<0.1
Iprodione	ug/l	0.1	N	(278) <0.1
Isazofos	ug/l	0.1	N	<0.1
Isocarbophos	ug/l	0.1	N	<0.1
Isodrin	ug/l	0.1	N	<0.1
Isofenphos	ug/l	0.1	N	<0.1
Isofenphos Methyl	ug/l	0.1	N	<0.1
Isomethiozin	ug/l	0.1	N	<0.1

Report Number : 863842 004
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Samples Received : 29-May-2020
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MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Isoprothiolane	ug/l	0.1	N	<0.1
Isopyrazam	ug/l	0.1	N	<0.1
Kresoxim Methyl	ug/l	0.1	N	<0.1
Lambda Cyhalothrin	ug/l	0.1	N	<0.1
Lenacil	ug/l	0.1	N	<0.1
Leptophos	ug/l	0.1	N	<0.1
Lindane	ug/l	0.1	N	<0.1
Malathion	ug/l	0.1	N	<0.1
MCPA-thioethyl	ug/l	0.1	N	<0.1
Mecarbam	ug/l	0.1	N	(278) <0.1
Mepanipyrim	ug/l	0.1	N	(278) <0.1
Mephosfolan	ug/l	0.1	N	<0.1
Mepronil	ug/l	0.1	N	<0.1
Metalaxyl	ug/l	0.1	N	<0.1
Metazachlor	ug/l	0.1	N	<0.1
Methacrifos	ug/l	0.1	N	<0.1
Methidathion	ug/l	0.1	N	<0.1
Methoxychlor	ug/l	0.1	N	<0.1
Methyl Paraoxon	ug/l	0.1	N	(278) <0.1
Metolachlor	ug/l	0.1	N	<0.1
Metolcarb	ug/l	0.1	N	<0.1
Metrafenone	ug/l	0.1	N	<0.1
Metribuzin	ug/l	0.1	N	<0.1
Mevinphos	ug/l	0.1	N	<0.1
Mirex	ug/l	0.1	N	<0.1
Molinate	ug/l	0.1	N	<0.1
Myclobutanil	ug/l	0.1	N	<0.1
Napropamide	ug/l	0.1	N	<0.1
Nitrofen	ug/l	0.1	N	<0.1
Nitrothal isopropyl	ug/l	0.1	N	<0.1
Nuarimol	ug/l	0.1	N	<0.1
o,p'-DDT	ug/l	0.1	N	<0.1
o,p-DDD	ug/l	0.1	N	<0.1
o,p-DDE	ug/l	0.1	N	<0.1
Octylisothiazolon	ug/l	0.1	N	<0.1
Ofurace	ug/l	0.1	N	<0.1
Orysastrobin	ug/l	0.1	N	<0.1
Oxadiazon	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Oxadixyl	ug/l	0.1	N	<0.1
Oxyfluorfen	ug/l	0.1	N	(278) <0.1
p,p-DDD	ug/l	0.1	N	<0.1
p,p-DDE	ug/l	0.1	N	<0.1
p,p-DDT	ug/l	0.1	N	<0.1
Paclobutrazol	ug/l	0.1	N	<0.1
Paraoxon	ug/l	0.1	N	<0.1
Parathion	ug/l	0.1	N	<0.1
Parathion methyl	ug/l	0.1	N	<0.1
Penconazole	ug/l	0.1	N	<0.1
Pendimethalin	ug/l	0.1	N	<0.1
Pentachloroaniline	ug/l	0.1	N	<0.1
Pentachlorophenol	ug/l	0.1	N	(278) <0.1
Pentanochlor	ug/l	0.1	N	<0.1
Permethrin	ug/l	0.1	N	<0.1
Pethoxamid	ug/l	0.1	N	<0.1
Phenothrin	ug/l	0.1	N	<0.1
Phenthoate	ug/l	0.1	N	<0.1
Phorate	ug/l	0.1	N	<0.1
Phosalone	ug/l	0.1	N	<0.1
Phosfolan	ug/l	0.1	N	<0.1
Picoxystrobin	ug/l	0.1	N	<0.1
Piperonyl Butoxide	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	(278) <0.1
Pirimiphos Ethyl	ug/l	0.1	N	<0.1
Pirimiphos methyl	ug/l	0.1	N	<0.1
Pretilachlor	ug/l	0.1	N	<0.1
Procymidone	ug/l	0.1	N	<0.1
Profenofos	ug/l	0.1	N	<0.1
Prometon	ug/l	0.1	N	(278) <0.1
Prometryn	ug/l	0.1	N	(278) <0.1
Propachlor	ug/l	0.1	N	<0.1
Propanil	ug/l	0.1	N	<0.1
Propaphos	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	(278) <0.1
Propazine	ug/l	0.1	N	<0.1
Propetamphos	ug/l	0.1	N	<0.1
Propham	**ug/l**	**0.1**	**N**	**3.8**

Report Number : 863842 004
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : BH304
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Propiconazole	ug/l	0.1	N	<0.1
Propyzamide	ug/l	0.1	N	<0.1
Proquinazid	ug/l	0.1	N	<0.1
Prosulfocarb	ug/l	0.1	N	<0.1
Prothiofos	ug/l	0.1	N	<0.1
Pyraclostrobin	ug/l	0.1	N	(278) <0.1
Pyraflufen ethyl	ug/l	0.1	N	<0.1
Pyrazophos	ug/l	0.1	N	<0.1
Pyridaben	ug/l	0.1	N	<0.1
Pyridaphenthion	ug/l	0.1	N	<0.1
Pyrimethanil	ug/l	0.1	N	(278) <0.1
Pyriproxyfen	ug/l	0.1	N	<0.1
Quinalphos	ug/l	0.1	N	<0.1
Quinoxyfen	ug/l	0.1	N	<0.1
Quintozene	ug/l	0.1	N	<0.1
Quizalofop-ethyl	ug/l	0.1	N	<0.1
Secbumeton	ug/l	0.1	N	(278) <0.1
Silafluofen	ug/l	0.1	N	<0.1
Simazine	ug/l	0.1	N	<0.1
Simeconazole	ug/l	0.1	N	<0.1
Sulfallate	ug/l	0.1	N	<0.1
Sulprofos	ug/l	0.1	N	<0.1
Tebuconazole	ug/l	0.1	N	(278) <0.1
Tebufenpyrad	ug/l	0.1	N	<0.1
Tebupirimiphos	ug/l	0.1	N	<0.1
Tecnazene	ug/l	0.1	N	(278) <0.1
Tefluthrin	ug/l	0.1	N	<0.1
Terbacil	ug/l	0.1	N	<0.1
Terbufos	ug/l	0.1	N	<0.1
Terbumeton	ug/l	0.1	N	(278) <0.1
Terbuthylazine	ug/l	0.1	N	<0.1
Terbutryn	ug/l	0.1	N	(278) <0.1
Tetrachlorvinphos	ug/l	0.1	N	<0.1
Tetraconazole	ug/l	0.1	N	<0.1
Tetradifon	ug/l	0.1	N	<0.1
tetraethyl dithiopyrophosphate	ug/l	0.1	N	<0.1
Tetramethrin	ug/l	0.1	N	<0.1
Tetrasul	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Thiamethoxam	ug/l	0.1	N	<0.1
Thiobencarb	ug/l	0.1	N	<0.1
Tolclofos-methyl	ug/l	0.1	N	<0.1
Triadimefon	ug/l	0.1	N	<0.1
Triadimenol	ug/l	0.1	N	(278) <0.1
Triallate	ug/l	0.1	N	<0.1
Triazamate	ug/l	0.1	N	<0.1
Triazophos	ug/l	0.1	N	<0.1
Trifloxystrobin	ug/l	0.1	N	<0.1
Triflumizole	ug/l	0.1	N	(278) <0.1
Trifluralin	ug/l	0.1	N	<0.1
Vinclozolin	ug/l	0.1	N	<0.1
Vinclozolin metabolite 3,5-Dichloroaniline	ug/l	0.1	N	(278) <0.1

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Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
2-(1-Naphthyl)acetamide	ug/l	0.1	N	<0.1
3-hydroxycarbofuran	ug/l	0.1	N	<0.1
6-Benzyladenine	ug/l	0.1	N	<0.1
Acephate	ug/l	0.1	N	<0.1
Acetamiprid	ug/l	0.1	N	<0.1
Acibenzolar-S-methyl	ug/l	0.1	N	<0.1
Aldicarb	ug/l	0.1	N	<0.1
Aldicarb sulphone	ug/l	0.1	N	<0.1
Aldicarb sulphoxide	ug/l	0.1	N	<0.1
Aminocarb	ug/l	0.1	N	<0.1
Azadirachtin	ug/l	0.1	N	<0.1
Azinphos ethyl	ug/l	0.1	N	<0.1
Azinphos methyl	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Bendiocarb	ug/l	0.1	N	<0.1
Benfuracarb	ug/l	0.1	N	(278) <0.1
Butralin	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbendazim	ug/l	0.1	N	(278) <0.1
Carbetamide	ug/l	0.1	N	<0.1
Carbofuran	ug/l	0.1	N	<0.1
Carbosulfan	ug/l	0.1	N	(278) <0.1
Carpropamid	ug/l	0.1	N	<0.1
Chinomethionat	ug/l	0.1	N	<0.1
Chlorantraniliprole	ug/l	0.1	N	<0.1
Chlorbromuron	ug/l	0.1	N	<0.1
Chlorfluazuron	ug/l	0.1	N	<0.1
Chloridazon	ug/l	0.1	N	<0.1
Chlorotoluron	ug/l	0.1	N	<0.1
Clofentezine	ug/l	0.1	N	<0.1
Clothianidin	ug/l	0.1	N	<0.1
Cyanazine	ug/l	0.1	N	<0.1
Cyazofamid	ug/l	0.1	N	<0.1
Cycluron	ug/l	0.1	N	<0.1
Cymoxanil	ug/l	0.1	N	<0.1
Cythioate	ug/l	0.1	N	<0.1
Demeton	ug/l	0.1	N	<0.1
Demeton-s-methyl	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Demeton-s-methyl sulphone	ug/l	0.1	N	<0.1
Dichlofluanid	ug/l	0.1	N	<0.1
Dicrotophos	ug/l	0.1	N	<0.1
Diethofencarb	ug/l	0.1	N	<0.1
Diflubenzuron	ug/l	0.1	N	<0.1
Dimefuron	ug/l	0.1	N	<0.1
Dimethoate	ug/l	0.1	N	<0.1
Diniconazole	ug/l	0.1	N	<0.1
Dinotefuran	ug/l	0.1	N	<0.1
Dioxacarb	ug/l	0.1	N	<0.1
Disulfoton sulfoxide	ug/l	0.1	N	<0.1
Disulfoton sulphone	ug/l	0.1	N	<0.1
Diuron	ug/l	0.1	N	<0.1
DMSA	ug/l	0.1	N	<0.1
DMST	ug/l	0.1	N	<0.1
Dodemorph	ug/l	0.1	N	(278) <0.1
Dodine	ug/l	0.1	N	<0.1
Emamectin	ug/l	0.1	N	<0.1
Ethidimuron	ug/l	0.1	N	<0.1
Ethiofencarb	ug/l	0.1	N	<0.1
Ethiofencarb sulfone	ug/l	0.1	N	<0.1
Ethiofencarb sulfoxide	ug/l	0.1	N	<0.1
Ethiprole	ug/l	0.1	N	<0.1
Ethirimol	ug/l	0.1	N	<0.1
Fenamiphos sulfone	ug/l	0.1	N	<0.1
Fenamiphos sulfoxide	ug/l	0.1	N	<0.1
Fenazaquin	ug/l	0.1	N	<0.1
Fenchlorphos oxon	ug/l	0.1	N	<0.1
Fenhexamid	ug/l	0.1	N	<0.1
Fenoxycarb	ug/l	0.1	N	<0.1
Fenpropidin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenpyroximate	ug/l	0.1	N	<0.1
Fenthion Sulphone	ug/l	0.1	N	<0.1
Fenthion Sulphoxide	ug/l	0.1	N	<0.1
Fenuron	**ug/l**	**0.1**	**N**	**0.3**
Flonicamid	ug/l	0.1	N	<0.1
Fluazinam	ug/l	0.1	N	<0.1

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Location : Wheathampstead
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MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Flufenoxuron	ug/l	0.1	N	<0.1
Fluometuron	ug/l	0.1	N	<0.1
Fluopicolide	ug/l	0.1	N	<0.1
Fluorochloridone	ug/l	0.1	N	<0.1
Fluoxastrobin	ug/l	0.1	N	<0.1
Flurtamone	ug/l	0.1	N	<0.1
Flutriafol	ug/l	0.1	N	<0.1
Forchlorfenuron	ug/l	0.1	N	<0.1
Fosthiasate	ug/l	0.1	N	<0.1
Fuberidazole	ug/l	0.1	N	<0.1
Furathiocarb	ug/l	0.1	N	<0.1
Hexaflumuron	ug/l	0.1	N	<0.1
Hexythiazox	ug/l	0.1	N	<0.1
Imazalil	ug/l	0.1	N	(278) <0.1
Imibenconazole	ug/l	0.1	N	<0.1
Imidacloprid	ug/l	0.1	N	<0.1
Indoxacarb	ug/l	0.1	N	<0.1
Iprovalicarb	ug/l	0.1	N	<0.1
Isoprocarb	ug/l	0.1	N	<0.1
Isoproturon	ug/l	0.1	N	<0.1
Isoxaben	ug/l	0.1	N	<0.1
Karbutilate	ug/l	0.1	N	<0.1
Linuron	ug/l	0.1	N	<0.1
Lufenuron	ug/l	0.1	N	<0.1
Malaoxon	ug/l	0.1	N	<0.1
Mandipropamid	ug/l	0.1	N	<0.1
Mefenacet	ug/l	0.1	N	<0.1
Metamitron	ug/l	0.1	N	<0.1
Metconazole	ug/l	0.1	N	<0.1
Methabenzthiazuron	ug/l	0.1	N	<0.1
Methamidophos	ug/l	0.1	N	<0.1
Methiocarb	ug/l	0.1	N	<0.1
Methiocarb Sulfone	ug/l	0.1	N	<0.1
Methiocarb Sulfoxide	ug/l	0.1	N	<0.1
Methomyl	ug/l	0.1	N	<0.1
Methoxyfenozide	ug/l	0.1	N	<0.1
Metobromuron	ug/l	0.1	N	<0.1
Metoxuron	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Monocrotophos	ug/l	0.1	N	<0.1
Monolinuron	ug/l	0.1	N	<0.1
Monuron	ug/l	0.1	N	<0.1
Neburon	ug/l	0.1	N	<0.1
Nicotine	ug/l	1.0	N	(278, 62) <1.0
Nitenpyram	ug/l	0.1	N	<0.1
Novaluron	ug/l	0.1	N	<0.1
Omethoate	ug/l	0.1	N	<0.1
Oxadiargyl	ug/l	0.1	N	<0.1
Oxamyl	ug/l	0.1	N	<0.1
Oxycarboxin	ug/l	0.1	N	<0.1
Oxydemeton-Methyl	ug/l	0.1	N	<0.1
Pencycuron	ug/l	0.1	N	<0.1
Phorate sulfone	ug/l	0.1	N	<0.1
Phorate sulfoxide	ug/l	0.1	N	<0.1
Phosmet	ug/l	0.1	N	<0.1
Phosphamidon	ug/l	0.1	N	<0.1
Phoxim	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	<0.1
Prochloraz	ug/l	0.1	N	<0.1
Promecarb	ug/l	0.1	N	<0.1
Propamocarb	ug/l	0.1	N	<0.1
Propaquizafop	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	<0.1
Propoxur	ug/l	0.1	N	<0.1
Pymetrozine	ug/l	0.1	N	<0.1
Pyrifenox	ug/l	0.1	N	<0.1
Resmethrin	ug/l	0.1	N	<0.1
Rotenone	ug/l	0.1	N	<0.1
Spinosad	ug/l	0.1	N	<0.1
Spirodiclofen	ug/l	0.1	N	<0.1
Spiromesifen	ug/l	0.1	N	<0.1
Spiroxamine	ug/l	0.1	N	<0.1
Tebufenozide	ug/l	0.1	N	<0.1
Teflubenzuron	ug/l	0.1	N	<0.1
Temephos	ug/l	0.1	N	<0.1
Terbufos sulfone	ug/l	0.1	N	<0.1
Terbufos sulfoxide	ug/l	0.1	N	<0.1

Report Number : 863842 004
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : BH304
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Thiabendazole	ug/l	0.1	N	<0.1
Thiacloprid	ug/l	0.1	N	<0.1
Thiazafluron	ug/l	0.1	N	<0.1
Thiodicarb	ug/l	0.1	N	<0.1
Thiofanox	ug/l	0.1	N	<0.1
Thiophanate Methyl	ug/l	0.1	N	<0.1
Tolylfluanid	ug/l	0.1	N	<0.1
Trichlorfon	ug/l	0.1	N	<0.1
Tridemorph	ug/l	0.1	N	<0.1
Trifloxysulfuron	ug/l	0.1	N	<0.1
Triflumuron	ug/l	0.1	N	<0.1
Triflusulfuron-methyl	ug/l	0.1	N	<0.1
Triticonazole	ug/l	0.1	N	<0.1
Vamidothion	ug/l	0.1	N	<0.1
Vernolate	ug/l	0.1	N	<0.1
Zoxamide	ug/l	0.1	N	<0.1

CONCEPT LIFE SCIENCES
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Concept Life Sciences

Certificate of Analysis

Unit 2
The Links
Bar Hill
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CB23 8UD
Tel : 01954 782791
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Report Number : 863842 005
Date of Issue : 04-Jun-2020

Customer : Pam Brown Associates
Contact : Dr Melissa Morales
Address : 2 Needwood House, Lancaster Park, Newborough Road, Needwood Burton on Trent, DE13 9PD

Samples Received : 29-May-2020
Analysis Started : 01-Jun-2020
Concept Job Reference : 863842-1
Analysis Requested : MRPS by GC (CSOPP611), MRPS by LC (CSOPP603)
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : BH305
Location : Wheathampstead
Sample Description : Water

Results Summary

Analyte	Level Found	Units	LOD	EU MRL mg/kg	CODEX MRL mg/kg	Symbol
MRPS by GC (CSOPP611)						
Fenson	**0.2**	ug/l	0.1			N
MRPS by LC (CSOPP603)	**No residue detected above the limit of detection.**					

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.
Customers are responsible for information provided where, if incorrect, it could affect the validity of the results.
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 Concept Life Sciences SOPs
All results have been reviewed in accordance with QMSection 15 of the Concept Life Sciences, Analytical Services Quality Manual
All samples prepared in accordance with the CODEX alimentarius

Report checked
and authorised by :
Matt Line
Section Manager - Pesticides

Issued by :
Mr Mark Obrien
Customer Service Manager Mark O'Brien

Index to symbols used in this report

Value	Description
3	LOD Raised Due to Elevated Blank
62	LOD was raised due to the method performance of the analytical procedure used
147	Result has been Recovery corrected.
13	Results have been blank corrected.
278	Data reported is qualitative as recovery is outside the 60 to 140% range
N	Analysis is not UKAS accredited

Report Number : 863842 005
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : BH305
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
2,4,6-Trichlorophenol	ug/l	0.1	N	<0.1
2-Phenylphenol	ug/l	0.1	N	<0.1
Acetochlor	ug/l	0.1	N	<0.1
Aclonifen	ug/l	0.1	N	(278) <0.1
Acrinathrin	ug/l	0.1	N	(278) <0.1
Alachlor	ug/l	0.1	N	<0.1
Aldrin	ug/l	0.1	N	<0.1
Ametryn	ug/l	0.1	N	(278) <0.1
Atraton	ug/l	0.1	N	(278) <0.1
Atrazine	ug/l	0.1	N	<0.1
Azaconazole	ug/l	0.1	N	<0.1
Azobenzene	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Benalaxyl	ug/l	0.1	N	<0.1
Benfluralin	ug/l	0.1	N	<0.1
Bifenox	ug/l	0.1	N	<0.1
Bifenthrin	ug/l	0.1	N	<0.1
Binapacryl	ug/l	0.1	N	(278) <0.1
Biphenyl	ug/l	0.5	N	(3, 278) <0.5
Bitertanol	ug/l	0.1	N	(278) <0.1
Boscalid	ug/l	0.1	N	<0.1
Bromacil	ug/l	0.1	N	<0.1
Bromophos	ug/l	0.1	N	<0.1
Bromophos-Ethyl	ug/l	0.1	N	<0.1
Bromopropylate	ug/l	0.1	N	<0.1
Bupirimate	ug/l	0.1	N	(278) <0.1
Buprofezine	ug/l	0.1	N	<0.1
Butachlor	ug/l	0.1	N	<0.1
Cadusafos	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbophenothion	ug/l	0.1	N	<0.1
Carboxine	ug/l	0.1	N	(278) <0.1
Carfentrazone Ethyl	ug/l	0.1	N	(278) <0.1
Chlorobenzilate	ug/l	0.1	N	<0.1
Chlordane (sum of cis and trans isomers)	ug/l	0.1	N	(278) <0.1
Chlordimeform	ug/l	0.1	N	(278) <0.1
Chlorethoxyfos	ug/l	0.1	N	<0.1
Chlorfenapyr	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Chlorfenvinphos	ug/l	0.1	N	<0.1
Chlormephos	ug/l	0.1	N	<0.1
Chloropropylate	ug/l	0.1	N	<0.1
Chlorothalonil	ug/l	0.1	N	<0.1
Chlorpropham	ug/l	0.1	N	<0.1
Chlorpyrifos	ug/l	0.1	N	<0.1
Chlorpyrifos methyl	ug/l	0.1	N	<0.1
Chlorthal Dimethyl	ug/l	0.1	N	<0.1
Chlorthion	ug/l	0.1	N	<0.1
Chlorthiophos	ug/l	0.1	N	<0.1
Chlozolinate	ug/l	0.1	N	(278) <0.1
Clodinafop Propargyl	ug/l	0.1	N	(278) <0.1
Clomazone	ug/l	0.1	N	<0.1
Cloquintocet mexyl	ug/l	0.1	N	<0.1
Coumaphos	ug/l	0.1	N	(278) <0.1
Cyflufenamid	ug/l	0.1	N	<0.1
Cyfluthrin	ug/l	0.1	N	<0.1
Cypermethrin	ug/l	0.1	N	<0.1
Cyphenothrin	ug/l	0.1	N	<0.1
Cyproconazole	ug/l	0.1	N	(278) <0.1
Cyprodinil	ug/l	0.1	N	(278) <0.1
Deltamethrin	ug/l	0.1	N	<0.1
Desmetryn	ug/l	0.1	N	(278) <0.1
Diafenthiuron	ug/l	0.1	N	(278) <0.1
Dialifos	ug/l	0.1	N	<0.1
Diazinon	ug/l	0.1	N	<0.1
Dichlobenil	ug/l	0.1	N	<0.1
Dichlofenthion	ug/l	0.1	N	<0.1
Dichlorvos	ug/l	0.1	N	<0.1
Diclobutrazol	ug/l	0.1	N	<0.1
Dicloran	ug/l	0.1	N	<0.1
Dicofol	ug/l	0.1	N	(278) <0.1
Dieldrin	ug/l	0.1	N	<0.1
Difenoconazole	ug/l	0.1	N	<0.1
Diflufenican	ug/l	0.1	N	<0.1
Dimethenamid	ug/l	0.1	N	<0.1
Dimethomorph	ug/l	0.1	N	<0.1
Dimoxystrobin	ug/l	0.1	N	<0.1

Report Number : 863842 005
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : BH305
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Dioxabenzofos	ug/l	0.1	N	<0.1
Diphenamid	ug/l	0.1	N	<0.1
Diphenylamine	ug/l	0.1	N	<0.1
Disulfoton	ug/l	0.1	N	<0.1
Ditalimfos	ug/l	0.1	N	<0.1
Edifenphos	ug/l	0.1	N	<0.1
Endosulphan alpha	ug/l	0.1	N	<0.1
Endosulphan beta	ug/l	0.1	N	<0.1
Endosulphan sulphate	ug/l	0.1	N	<0.1
Endrin	ug/l	0.1	N	<0.1
EPN	ug/l	0.1	N	(278) <0.1
Epoxiconazole	ug/l	0.1	N	<0.1
EPTC	ug/l	0.1	N	<0.1
Etaconazole	ug/l	0.1	N	<0.1
Ethion	ug/l	0.1	N	<0.1
Ethofumesate	ug/l	0.1	N	<0.1
Ethoprophos	ug/l	0.1	N	<0.1
Ethoxyquin	ug/l	0.1	N	<0.1
Etofenprox	ug/l	0.1	N	<0.1
Etoxazole	ug/l	0.1	N	<0.1
Etridiazole	ug/l	0.1	N	(278) <0.1
Etrimfos	ug/l	0.1	N	<0.1
Famoxadone	ug/l	0.1	N	<0.1
Famphur	ug/l	0.1	N	<0.1
Fenamidone	ug/l	0.1	N	<0.1
Fenamiphos	ug/l	0.1	N	<0.1
Fenarimol	ug/l	0.1	N	<0.1
Fenbuconazole	ug/l	0.1	N	<0.1
Fenchlorphos	ug/l	0.1	N	<0.1
Fenitrothion	ug/l	0.1	N	<0.1
Fenpiclonil	ug/l	0.1	N	<0.1
Fenpropathrin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenson	**ug/l**	**0.1**	**N**	**0.2**
Fensulfothion	ug/l	0.1	N	<0.1
Fenthion	ug/l	0.1	N	<0.1
Fenvalerate	ug/l	0.1	N	<0.1
Fipronil	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Fipronil sulphone	ug/l	0.1	N	<0.1
Flamprop isopropyl	ug/l	0.1	N	<0.1
Fluazifop-P-Butyl	ug/l	0.1	N	<0.1
Flucythrinate	ug/l	0.1	N	<0.1
Fludioxonil	ug/l	0.1	N	<0.1
Flufenacet	ug/l	0.1	N	<0.1
Flumetralin	ug/l	0.1	N	<0.1
Flumioxazin	ug/l	0.1	N	(278) <0.1
Flumorph	ug/l	0.1	N	<0.1
Fluopyram	ug/l	0.1	N	<0.1
Fluquinconazole	ug/l	0.1	N	<0.1
Fluroxypyr-1-methylheptyl ester	ug/l	0.1	N	<0.1
Flusilazole	ug/l	0.1	N	<0.1
Flutolanil	ug/l	0.1	N	<0.1
Fluxapyroxad	ug/l	0.1	N	<0.1
Fonophos	ug/l	0.1	N	<0.1
Formothion	ug/l	0.1	N	(278) <0.1
Furalaxyl	ug/l	0.1	N	<0.1
Haloxyfop etotyl	ug/l	0.1	N	<0.1
Haloxyfop Methyl	ug/l	0.1	N	<0.1
Heptachlor	ug/l	0.1	N	<0.1
Heptachlor epoxide	ug/l	0.1	N	<0.1
Heptachlor exo Epoxide	ug/l	0.1	N	<0.1
Heptenophos	ug/l	0.1	N	<0.1
Hexachlorobenzene	ug/l	0.1	N	(278) <0.1
Hexachlorocyclohexane (alpha)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (beta)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (delta)	ug/l	0.1	N	<0.1
Hexaconazole	ug/l	0.1	N	(278) <0.1
Hexazinone	ug/l	0.1	N	<0.1
Iodofenphos	ug/l	0.1	N	<0.1
Iprodione	ug/l	0.1	N	(278) <0.1
Isazofos	ug/l	0.1	N	<0.1
Isocarbophos	ug/l	0.1	N	<0.1
Isodrin	ug/l	0.1	N	<0.1
Isofenphos	ug/l	0.1	N	<0.1
Isofenphos Methyl	ug/l	0.1	N	<0.1
Isomethiozin	ug/l	0.1	N	<0.1

Report Number : 863842 005
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : BH305
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Isoprothiolane	ug/l	0.1	N	<0.1
Isopyrazam	ug/l	0.1	N	<0.1
Kresoxim Methyl	ug/l	0.1	N	<0.1
Lambda Cyhalothrin	ug/l	0.1	N	<0.1
Lenacil	ug/l	0.1	N	<0.1
Leptophos	ug/l	0.1	N	<0.1
Lindane	ug/l	0.1	N	<0.1
Malathion	ug/l	0.1	N	<0.1
MCPA-thioethyl	ug/l	0.1	N	<0.1
Mecarbam	ug/l	0.1	N	(278) <0.1
Mepanipyrim	ug/l	0.1	N	(278) <0.1
Mephosfolan	ug/l	0.1	N	<0.1
Mepronil	ug/l	0.1	N	<0.1
Metalaxyl	ug/l	0.1	N	<0.1
Metazachlor	ug/l	0.1	N	<0.1
Methacrifos	ug/l	0.1	N	<0.1
Methidathion	ug/l	0.1	N	<0.1
Methoxychlor	ug/l	0.1	N	<0.1
Methyl Paraoxon	ug/l	0.1	N	(278) <0.1
Metolachlor	ug/l	0.1	N	<0.1
Metolcarb	ug/l	0.1	N	<0.1
Metrafenone	ug/l	0.1	N	<0.1
Metribuzin	ug/l	0.1	N	<0.1
Mevinphos	ug/l	0.1	N	<0.1
Mirex	ug/l	0.1	N	<0.1
Molinate	ug/l	0.1	N	<0.1
Myclobutanil	ug/l	0.1	N	<0.1
Napropamide	ug/l	0.1	N	<0.1
Nitrofen	ug/l	0.1	N	<0.1
Nitrothal isopropyl	ug/l	0.1	N	<0.1
Nuarimol	ug/l	0.1	N	<0.1
o,p'-DDT	ug/l	0.1	N	<0.1
o,p-DDD	ug/l	0.1	N	<0.1
o,p-DDE	ug/l	0.1	N	<0.1
Octylisothiazolon	ug/l	0.1	N	<0.1
Ofurace	ug/l	0.1	N	<0.1
Orysastrobin	ug/l	0.1	N	<0.1
Oxadiazon	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Oxadixyl	ug/l	0.1	N	<0.1
Oxyfluorfen	ug/l	0.1	N	(278) <0.1
p,p-DDD	ug/l	0.1	N	<0.1
p,p-DDE	ug/l	0.1	N	<0.1
p,p-DDT	ug/l	0.1	N	<0.1
Paclobutrazol	ug/l	0.1	N	<0.1
Paraoxon	ug/l	0.1	N	<0.1
Parathion	ug/l	0.1	N	<0.1
Parathion methyl	ug/l	0.1	N	<0.1
Penconazole	ug/l	0.1	N	<0.1
Pendimethalin	ug/l	0.1	N	<0.1
Pentachloroaniline	ug/l	0.1	N	<0.1
Pentachlorophenol	ug/l	0.1	N	(278) <0.1
Pentanochlor	ug/l	0.1	N	<0.1
Permethrin	ug/l	0.1	N	<0.1
Pethoxamid	ug/l	0.1	N	<0.1
Phenothrin	ug/l	0.1	N	<0.1
Phenthoate	ug/l	0.1	N	<0.1
Phorate	ug/l	0.1	N	<0.1
Phosalone	ug/l	0.1	N	<0.1
Phosfolan	ug/l	0.1	N	<0.1
Picoxystrobin	ug/l	0.1	N	<0.1
Piperonyl Butoxide	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	(278) <0.1
Pirimiphos Ethyl	ug/l	0.1	N	<0.1
Pirimiphos methyl	ug/l	0.1	N	<0.1
Pretilachlor	ug/l	0.1	N	<0.1
Procymidone	ug/l	0.1	N	<0.1
Profenofos	ug/l	0.1	N	<0.1
Prometon	ug/l	0.1	N	(278) <0.1
Prometryn	ug/l	0.1	N	(278) <0.1
Propachlor	ug/l	0.1	N	<0.1
Propanil	ug/l	0.1	N	<0.1
Propaphos	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	(278) <0.1
Propazine	ug/l	0.1	N	<0.1
Propetamphos	ug/l	0.1	N	<0.1
Propham	ug/l	0.1	N	<0.1

Report Number : 863842 005
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : BH305
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Propiconazole	ug/l	0.1	N	<0.1
Propyzamide	ug/l	0.1	N	<0.1
Proquinazid	ug/l	0.1	N	<0.1
Prosulfocarb	ug/l	0.1	N	<0.1
Prothiofos	ug/l	0.1	N	<0.1
Pyraclostrobin	ug/l	0.1	N	(278) <0.1
Pyraflufen ethyl	ug/l	0.1	N	<0.1
Pyrazophos	ug/l	0.1	N	<0.1
Pyridaben	ug/l	0.1	N	<0.1
Pyridaphenthion	ug/l	0.1	N	<0.1
Pyrimethanil	ug/l	0.1	N	(278) <0.1
Pyriproxyfen	ug/l	0.1	N	<0.1
Quinalphos	ug/l	0.1	N	<0.1
Quinoxyfen	ug/l	0.1	N	<0.1
Quintozene	ug/l	0.1	N	<0.1
Quizalofop-ethyl	ug/l	0.1	N	<0.1
Secbumeton	ug/l	0.1	N	(278) <0.1
Silafluofen	ug/l	0.1	N	<0.1
Simazine	ug/l	0.1	N	<0.1
Simeconazole	ug/l	0.1	N	<0.1
Sulfallate	ug/l	0.1	N	<0.1
Sulprofos	ug/l	0.1	N	<0.1
Tebuconazole	ug/l	0.1	N	(278) <0.1
Tebufenpyrad	ug/l	0.1	N	<0.1
Tebupirimiphos	ug/l	0.1	N	<0.1
Tecnazene	ug/l	0.1	N	(278) <0.1
Tefluthrin	ug/l	0.1	N	<0.1
Terbacil	ug/l	0.1	N	<0.1
Terbufos	ug/l	0.1	N	<0.1
Terbumeton	ug/l	0.1	N	(278) <0.1
Terbuthylazine	ug/l	0.1	N	<0.1
Terbutryn	ug/l	0.1	N	(278) <0.1
Tetrachlorvinphos	ug/l	0.1	N	<0.1
Tetraconazole	ug/l	0.1	N	<0.1
Tetradifon	ug/l	0.1	N	<0.1
tetraethyl dithiopyrophosphate	ug/l	0.1	N	<0.1
Tetramethrin	ug/l	0.1	N	<0.1
Tetrasul	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Thiamethoxam	ug/l	0.1	N	<0.1
Thiobencarb	ug/l	0.1	N	<0.1
Tolclofos-methyl	ug/l	0.1	N	<0.1
Triadimefon	ug/l	0.1	N	<0.1
Triadimenol	ug/l	0.1	N	(278) <0.1
Triallate	ug/l	0.1	N	<0.1
Triazamate	ug/l	0.1	N	<0.1
Triazophos	ug/l	0.1	N	<0.1
Trifloxystrobin	ug/l	0.1	N	<0.1
Triflumizole	ug/l	0.1	N	(278) <0.1
Trifluralin	ug/l	0.1	N	<0.1
Vinclozolin	ug/l	0.1	N	<0.1
Vinclozolin metabolite 3,5-Dichloroaniline	ug/l	0.1	N	(278) <0.1

Report Number : 863842 005
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : BH305
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
2-(1-Naphthyl)acetamide	ug/l	0.1	N	<0.1
3-hydroxycarbofuran	ug/l	0.1	N	<0.1
6-Benzyladenine	ug/l	0.1	N	<0.1
Acephate	ug/l	0.1	N	<0.1
Acetamiprid	ug/l	0.1	N	<0.1
Acibenzolar-S-methyl	ug/l	0.1	N	<0.1
Aldicarb	ug/l	0.1	N	<0.1
Aldicarb sulphone	ug/l	0.1	N	<0.1
Aldicarb sulphoxide	ug/l	0.1	N	<0.1
Aminocarb	ug/l	0.1	N	<0.1
Azadirachtin	ug/l	0.1	N	<0.1
Azinphos ethyl	ug/l	0.1	N	<0.1
Azinphos methyl	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Bendiocarb	ug/l	0.1	N	<0.1
Benfuracarb	ug/l	0.1	N	(278) <0.1
Butralin	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbendazim	ug/l	0.1	N	(278) <0.1
Carbetamide	ug/l	0.1	N	<0.1
Carbofuran	ug/l	0.1	N	<0.1
Carbosulfan	ug/l	0.1	N	(278) <0.1
Carpropamid	ug/l	0.1	N	<0.1
Chinomethionat	ug/l	0.1	N	<0.1
Chlorantraniliprole	ug/l	0.1	N	<0.1
Chlorbromuron	ug/l	0.1	N	<0.1
Chlorfluazuron	ug/l	0.1	N	<0.1
Chloridazon	ug/l	0.1	N	<0.1
Chlorotoluron	ug/l	0.1	N	<0.1
Clofentezine	ug/l	0.1	N	<0.1
Clothianidin	ug/l	0.1	N	<0.1
Cyanazine	ug/l	0.1	N	<0.1
Cyazofamid	ug/l	0.1	N	<0.1
Cycluron	ug/l	0.1	N	<0.1
Cymoxanil	ug/l	0.1	N	<0.1
Cythioate	ug/l	0.1	N	<0.1
Demeton	ug/l	0.1	N	<0.1
Demeton-s-methyl	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Demeton-s-methyl sulphone	ug/l	0.1	N	<0.1
Dichlofluanid	ug/l	0.1	N	<0.1
Dicrotophos	ug/l	0.1	N	<0.1
Diethofencarb	ug/l	0.1	N	<0.1
Diflubenzuron	ug/l	0.1	N	<0.1
Dimefuron	ug/l	0.1	N	<0.1
Dimethoate	ug/l	0.1	N	<0.1
Diniconazole	ug/l	0.1	N	<0.1
Dinotefuran	ug/l	0.1	N	<0.1
Dioxacarb	ug/l	0.1	N	<0.1
Disulfoton sulfoxide	ug/l	0.1	N	<0.1
Disulfoton sulphone	ug/l	0.1	N	<0.1
Diuron	ug/l	0.1	N	<0.1
DMSA	ug/l	0.1	N	<0.1
DMST	ug/l	0.1	N	<0.1
Dodemorph	ug/l	0.1	N	(278) <0.1
Dodine	ug/l	0.1	N	<0.1
Emamectin	ug/l	0.1	N	<0.1
Ethidimuron	ug/l	0.1	N	<0.1
Ethiofencarb	ug/l	0.1	N	<0.1
Ethiofencarb sulfone	ug/l	0.1	N	<0.1
Ethiofencarb sulfoxide	ug/l	0.1	N	<0.1
Ethiprole	ug/l	0.1	N	<0.1
Ethirimol	ug/l	0.1	N	<0.1
Fenamiphos sulfone	ug/l	0.1	N	<0.1
Fenamiphos sulfoxide	ug/l	0.1	N	<0.1
Fenazaquin	ug/l	0.1	N	<0.1
Fenchlorphos oxon	ug/l	0.1	N	<0.1
Fenhexamid	ug/l	0.1	N	<0.1
Fenoxycarb	ug/l	0.1	N	<0.1
Fenpropidin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenpyroximate	ug/l	0.1	N	<0.1
Fenthion Sulphone	ug/l	0.1	N	<0.1
Fenthion Sulphoxide	ug/l	0.1	N	<0.1
Fenuron	ug/l	0.1	N	<0.1
Flonicamid	ug/l	0.1	N	<0.1
Fluazinam	ug/l	0.1	N	<0.1

Report Number : 863842 005
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : BH305
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Flufenoxuron	ug/l	0.1	N	<0.1
Fluometuron	ug/l	0.1	N	<0.1
Fluopicolide	ug/l	0.1	N	<0.1
Fluorochloridone	ug/l	0.1	N	<0.1
Fluoxastrobin	ug/l	0.1	N	<0.1
Flurtamone	ug/l	0.1	N	<0.1
Flutriafol	ug/l	0.1	N	<0.1
Forchlorfenuron	ug/l	0.1	N	<0.1
Fosthiasate	ug/l	0.1	N	<0.1
Fuberidazole	ug/l	0.1	N	<0.1
Furathiocarb	ug/l	0.1	N	<0.1
Hexaflumuron	ug/l	0.1	N	<0.1
Hexythiazox	ug/l	0.1	N	<0.1
Imazalil	ug/l	0.1	N	(278) <0.1
Imibenconazole	ug/l	0.1	N	<0.1
Imidacloprid	ug/l	0.1	N	<0.1
Indoxacarb	ug/l	0.1	N	<0.1
Iprovalicarb	ug/l	0.1	N	<0.1
Isoprocarb	ug/l	0.1	N	<0.1
Isoproturon	ug/l	0.1	N	<0.1
Isoxaben	ug/l	0.1	N	<0.1
Karbutilate	ug/l	0.1	N	<0.1
Linuron	ug/l	0.1	N	<0.1
Lufenuron	ug/l	0.1	N	<0.1
Malaoxon	ug/l	0.1	N	<0.1
Mandipropamid	ug/l	0.1	N	<0.1
Mefenacet	ug/l	0.1	N	<0.1
Metamitron	ug/l	0.1	N	<0.1
Metconazole	ug/l	0.1	N	<0.1
Methabenzthiazuron	ug/l	0.1	N	<0.1
Methamidophos	ug/l	0.1	N	<0.1
Methiocarb	ug/l	0.1	N	<0.1
Methiocarb Sulfone	ug/l	0.1	N	<0.1
Methiocarb Sulfoxide	ug/l	0.1	N	<0.1
Methomyl	ug/l	0.1	N	<0.1
Methoxyfenozide	ug/l	0.1	N	<0.1
Metobromuron	ug/l	0.1	N	<0.1
Metoxuron	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Monocrotophos	ug/l	0.1	N	<0.1
Monolinuron	ug/l	0.1	N	<0.1
Monuron	ug/l	0.1	N	<0.1
Neburon	ug/l	0.1	N	<0.1
Nicotine	ug/l	1.0	N	(62, 278) <1.0
Nitenpyram	ug/l	0.1	N	<0.1
Novaluron	ug/l	0.1	N	<0.1
Omethoate	ug/l	0.1	N	<0.1
Oxadiargyl	ug/l	0.1	N	<0.1
Oxamyl	ug/l	0.1	N	<0.1
Oxycarboxin	ug/l	0.1	N	<0.1
Oxydemeton-Methyl	ug/l	0.1	N	<0.1
Pencycuron	ug/l	0.1	N	<0.1
Phorate sulfone	ug/l	0.1	N	<0.1
Phorate sulfoxide	ug/l	0.1	N	<0.1
Phosmet	ug/l	0.1	N	<0.1
Phosphamidon	ug/l	0.1	N	<0.1
Phoxim	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	<0.1
Prochloraz	ug/l	0.1	N	<0.1
Promecarb	ug/l	0.1	N	<0.1
Propamocarb	ug/l	0.1	N	<0.1
Propaquizafop	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	<0.1
Propoxur	ug/l	0.1	N	<0.1
Pymetrozine	ug/l	0.1	N	<0.1
Pyrifenox	ug/l	0.1	N	<0.1
Resmethrin	ug/l	0.1	N	<0.1
Rotenone	ug/l	0.1	N	<0.1
Spinosad	ug/l	0.1	N	<0.1
Spirodiclofen	ug/l	0.1	N	<0.1
Spiromesifen	ug/l	0.1	N	<0.1
Spiroxamine	ug/l	0.1	N	<0.1
Tebufenozide	ug/l	0.1	N	<0.1
Teflubenzuron	ug/l	0.1	N	<0.1
Temephos	ug/l	0.1	N	<0.1
Terbufos sulfone	ug/l	0.1	N	<0.1
Terbufos sulfoxide	ug/l	0.1	N	<0.1

Report Number : 863842 005
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : BH305
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Thiabendazole	ug/l	0.1	N	<0.1
Thiacloprid	ug/l	0.1	N	<0.1
Thiazafluron	ug/l	0.1	N	<0.1
Thiodicarb	ug/l	0.1	N	<0.1
Thiofanox	ug/l	0.1	N	<0.1
Thiophanate Methyl	ug/l	0.1	N	<0.1
Tolylfluanid	ug/l	0.1	N	<0.1
Trichlorfon	ug/l	0.1	N	<0.1
Tridemorph	ug/l	0.1	N	<0.1
Trifloxysulfuron	ug/l	0.1	N	<0.1
Triflumuron	ug/l	0.1	N	<0.1
Triflusulfuron-methyl	ug/l	0.1	N	<0.1
Triticonazole	ug/l	0.1	N	<0.1
Vamidothion	ug/l	0.1	N	<0.1
Vernolate	ug/l	0.1	N	<0.1
Zoxamide	ug/l	0.1	N	<0.1

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Certificate of Analysis

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Tel : 01954 782791
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Report Number : 863842 006
Date of Issue : 04-Jun-2020

Customer : Pam Brown Associates
Contact : Dr Melissa Morales
Address : 2 Needwood House, Lancaster Park, Newborough Road, Needwood Burton on Trent, DE13 9PD

Samples Received : 29-May-2020
Analysis Started : 01-Jun-2020
Concept Job Reference : 863842-1
Analysis Requested : MRPS by GC (CSOPP611), MRPS by LC (CSOPP603)
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : BH306
Location : Wheathampstead
Sample Description : Water

Results Summary

Analyte	Level Found	Units	LOD	EU MRL mg/kg	CODEX MRL mg/kg	Symbol
MRPS by GC (CSOPP611)						
Fenson	**0.2**	ug/l	0.1			N
MRPS by LC (CSOPP603)	**No residue detected above the limit of detection.**					

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.
Customers are responsible for information provided where, if incorrect, it could affect the validity of the results.
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 Concept Life Sciences SOPs
All results have been reviewed in accordance with QMSection 15 of the Concept Life Sciences, Analytical Services Quality Manual
All samples prepared in accordance with the CODEX alimentarius

Report checked
and authorised by :
Matt Line
Section Manager - Pesticides

Issued by :
Mr Mark Obrien
Customer Service Manager Mark O'Brien

Index to symbols used in this report

Value	Description
3	LOD Raised Due to Elevated Blank
62	LOD was raised due to the method performance of the analytical procedure used
147	Result has been Recovery corrected.
13	Results have been blank corrected.
278	Data reported is qualitative as recovery is outside the 60 to 140% range
N	Analysis is not UKAS accredited

Report Number : 863842 006
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : BH306
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
2,4,6-Trichlorophenol	ug/l	0.1	N	<0.1
2-Phenylphenol	ug/l	0.1	N	<0.1
Acetochlor	ug/l	0.1	N	<0.1
Aclonifen	ug/l	0.1	N	(278) <0.1
Acrinathrin	ug/l	0.1	N	(278) <0.1
Alachlor	ug/l	0.1	N	<0.1
Aldrin	ug/l	0.1	N	<0.1
Ametryn	ug/l	0.1	N	(278) <0.1
Atraton	ug/l	0.1	N	(278) <0.1
Atrazine	ug/l	0.1	N	<0.1
Azaconazole	ug/l	0.1	N	<0.1
Azobenzene	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Benalaxyl	ug/l	0.1	N	<0.1
Benfluralin	ug/l	0.1	N	<0.1
Bifenox	ug/l	0.1	N	<0.1
Bifenthrin	ug/l	0.1	N	<0.1
Binapacryl	ug/l	0.1	N	(278) <0.1
Biphenyl	ug/l	0.5	N	(278, 3) <0.5
Bitertanol	ug/l	0.1	N	(278) <0.1
Boscalid	ug/l	0.1	N	<0.1
Bromacil	ug/l	0.1	N	<0.1
Bromophos	ug/l	0.1	N	<0.1
Bromophos-Ethyl	ug/l	0.1	N	<0.1
Bromopropylate	ug/l	0.1	N	<0.1
Bupirimate	ug/l	0.1	N	(278) <0.1
Buprofezine	ug/l	0.1	N	<0.1
Butachlor	ug/l	0.1	N	<0.1
Cadusafos	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbophenothion	ug/l	0.1	N	<0.1
Carboxine	ug/l	0.1	N	(278) <0.1
Carfentrazone Ethyl	ug/l	0.1	N	(278) <0.1
Chlorobenzilate	ug/l	0.1	N	<0.1
Chlordane (sum of cis and trans isomers)	ug/l	0.1	N	(278) <0.1
Chlordimeform	ug/l	0.1	N	(278) <0.1
Chlorethoxyfos	ug/l	0.1	N	<0.1
Chlorfenapyr	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Chlorfenvinphos	ug/l	0.1	N	<0.1
Chlormephos	ug/l	0.1	N	<0.1
Chloropropylate	ug/l	0.1	N	<0.1
Chlorothalonil	ug/l	0.1	N	<0.1
Chlorpropham	ug/l	0.1	N	<0.1
Chlorpyrifos	ug/l	0.1	N	<0.1
Chlorpyrifos methyl	ug/l	0.1	N	<0.1
Chlorthal Dimethyl	ug/l	0.1	N	<0.1
Chlorthion	ug/l	0.1	N	<0.1
Chlorthiophos	ug/l	0.1	N	<0.1
Chlozolinate	ug/l	0.1	N	(278) <0.1
Clodinafop Propargyl	ug/l	0.1	N	(278) <0.1
Clomazone	ug/l	0.1	N	<0.1
Cloquintocet mexyl	ug/l	0.1	N	<0.1
Coumaphos	ug/l	0.1	N	(278) <0.1
Cyflufenamid	ug/l	0.1	N	<0.1
Cyfluthrin	ug/l	0.1	N	<0.1
Cypermethrin	ug/l	0.1	N	<0.1
Cyphenothrin	ug/l	0.1	N	<0.1
Cyproconazole	ug/l	0.1	N	(278) <0.1
Cyprodinil	ug/l	0.1	N	(278) <0.1
Deltamethrin	ug/l	0.1	N	<0.1
Desmetryn	ug/l	0.1	N	(278) <0.1
Diafenthiuron	ug/l	0.1	N	(278) <0.1
Dialifos	ug/l	0.1	N	<0.1
Diazinon	ug/l	0.1	N	<0.1
Dichlobenil	ug/l	0.1	N	<0.1
Dichlofenthion	ug/l	0.1	N	<0.1
Dichlorvos	ug/l	0.1	N	<0.1
Diclobutrazol	ug/l	0.1	N	<0.1
Dicloran	ug/l	0.1	N	<0.1
Dicofol	ug/l	0.1	N	(278) <0.1
Dieldrin	ug/l	0.1	N	<0.1
Difenoconazole	ug/l	0.1	N	<0.1
Diflufenican	ug/l	0.1	N	<0.1
Dimethenamid	ug/l	0.1	N	<0.1
Dimethomorph	ug/l	0.1	N	<0.1
Dimoxystrobin	ug/l	0.1	N	<0.1

Report Number : 863842 006
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : BH306
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Dioxabenzofos	ug/l	0.1	N	<0.1
Diphenamid	ug/l	0.1	N	<0.1
Diphenylamine	ug/l	0.1	N	<0.1
Disulfoton	ug/l	0.1	N	<0.1
Ditalimfos	ug/l	0.1	N	<0.1
Edifenphos	ug/l	0.1	N	<0.1
Endosulphan alpha	ug/l	0.1	N	<0.1
Endosulphan beta	ug/l	0.1	N	<0.1
Endosulphan sulphate	ug/l	0.1	N	<0.1
Endrin	ug/l	0.1	N	<0.1
EPN	ug/l	0.1	N	(278) <0.1
Epoxiconazole	ug/l	0.1	N	<0.1
EPTC	ug/l	0.1	N	<0.1
Etaconazole	ug/l	0.1	N	<0.1
Ethion	ug/l	0.1	N	<0.1
Ethofumesate	ug/l	0.1	N	<0.1
Ethoprophos	ug/l	0.1	N	<0.1
Ethoxyquin	ug/l	0.1	N	<0.1
Etofenprox	ug/l	0.1	N	<0.1
Etoxazole	ug/l	0.1	N	<0.1
Etridiazole	ug/l	0.1	N	(278) <0.1
Etrimfos	ug/l	0.1	N	<0.1
Famoxadone	ug/l	0.1	N	<0.1
Famphur	ug/l	0.1	N	<0.1
Fenamidone	ug/l	0.1	N	<0.1
Fenamiphos	ug/l	0.1	N	<0.1
Fenarimol	ug/l	0.1	N	<0.1
Fenbuconazole	ug/l	0.1	N	<0.1
Fenchlorphos	ug/l	0.1	N	<0.1
Fenitrothion	ug/l	0.1	N	<0.1
Fenpiclonil	ug/l	0.1	N	<0.1
Fenpropathrin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenson	**ug/l**	**0.1**	**N**	**0.2**
Fensulfothion	ug/l	0.1	N	<0.1
Fenthion	ug/l	0.1	N	<0.1
Fenvalerate	ug/l	0.1	N	<0.1
Fipronil	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Fipronil sulphone	ug/l	0.1	N	<0.1
Flamprop isopropyl	ug/l	0.1	N	<0.1
Fluazifop-P-Butyl	ug/l	0.1	N	<0.1
Flucythrinate	ug/l	0.1	N	<0.1
Fludioxonil	ug/l	0.1	N	<0.1
Flufenacet	ug/l	0.1	N	<0.1
Flumetralin	ug/l	0.1	N	<0.1
Flumioxazin	ug/l	0.1	N	(278) <0.1
Flumorph	ug/l	0.1	N	<0.1
Fluopyram	ug/l	0.1	N	<0.1
Fluquinconazole	ug/l	0.1	N	<0.1
Fluroxypyr-1-methylheptyl ester	ug/l	0.1	N	<0.1
Flusilazole	ug/l	0.1	N	<0.1
Flutolanil	ug/l	0.1	N	<0.1
Fluxapyroxad	ug/l	0.1	N	<0.1
Fonophos	ug/l	0.1	N	<0.1
Formothion	ug/l	0.1	N	(278) <0.1
Furalaxyl	ug/l	0.1	N	<0.1
Haloxyfop etotyl	ug/l	0.1	N	<0.1
Haloxyfop Methyl	ug/l	0.1	N	<0.1
Heptachlor	ug/l	0.1	N	<0.1
Heptachlor epoxide	ug/l	0.1	N	<0.1
Heptachlor exo Epoxide	ug/l	0.1	N	<0.1
Heptenophos	ug/l	0.1	N	<0.1
Hexachlorobenzene	ug/l	0.1	N	(278) <0.1
Hexachlorocyclohexane (alpha)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (beta)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (delta)	ug/l	0.1	N	<0.1
Hexaconazole	ug/l	0.1	N	(278) <0.1
Hexazinone	ug/l	0.1	N	<0.1
Iodofenphos	ug/l	0.1	N	<0.1
Iprodione	ug/l	0.1	N	(278) <0.1
Isazofos	ug/l	0.1	N	<0.1
Isocarbophos	ug/l	0.1	N	<0.1
Isodrin	ug/l	0.1	N	<0.1
Isofenphos	ug/l	0.1	N	<0.1
Isofenphos Methyl	ug/l	0.1	N	<0.1
Isomethiozin	ug/l	0.1	N	<0.1

Report Number : 863842 006
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : BH306
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Isoprothiolane	ug/l	0.1	N	<0.1
Isopyrazam	ug/l	0.1	N	<0.1
Kresoxim Methyl	ug/l	0.1	N	<0.1
Lambda Cyhalothrin	ug/l	0.1	N	<0.1
Lenacil	ug/l	0.1	N	<0.1
Leptophos	ug/l	0.1	N	<0.1
Lindane	ug/l	0.1	N	<0.1
Malathion	ug/l	0.1	N	<0.1
MCPA-thioethyl	ug/l	0.1	N	<0.1
Mecarbam	ug/l	0.1	N	(278) <0.1
Mepanipyrim	ug/l	0.1	N	(278) <0.1
Mephosfolan	ug/l	0.1	N	<0.1
Mepronil	ug/l	0.1	N	<0.1
Metalaxyl	ug/l	0.1	N	<0.1
Metazachlor	ug/l	0.1	N	<0.1
Methacrifos	ug/l	0.1	N	<0.1
Methidathion	ug/l	0.1	N	<0.1
Methoxychlor	ug/l	0.1	N	<0.1
Methyl Paraoxon	ug/l	0.1	N	(278) <0.1
Metolachlor	ug/l	0.1	N	<0.1
Metolcarb	ug/l	0.1	N	<0.1
Metrafenone	ug/l	0.1	N	<0.1
Metribuzin	ug/l	0.1	N	<0.1
Mevinphos	ug/l	0.1	N	<0.1
Mirex	ug/l	0.1	N	<0.1
Molinate	ug/l	0.1	N	<0.1
Myclobutanil	ug/l	0.1	N	<0.1
Napropamide	ug/l	0.1	N	<0.1
Nitrofen	ug/l	0.1	N	<0.1
Nitrothal isopropyl	ug/l	0.1	N	<0.1
Nuarimol	ug/l	0.1	N	<0.1
o,p'-DDT	ug/l	0.1	N	<0.1
o,p-DDD	ug/l	0.1	N	<0.1
o,p-DDE	ug/l	0.1	N	<0.1
Octylisothiazolon	ug/l	0.1	N	<0.1
Ofurace	ug/l	0.1	N	<0.1
Orysastrobin	ug/l	0.1	N	<0.1
Oxadiazon	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Oxadixyl	ug/l	0.1	N	<0.1
Oxyfluorfen	ug/l	0.1	N	(278) <0.1
p,p-DDD	ug/l	0.1	N	<0.1
p,p-DDE	ug/l	0.1	N	<0.1
p,p-DDT	ug/l	0.1	N	<0.1
Paclobutrazol	ug/l	0.1	N	<0.1
Paraoxon	ug/l	0.1	N	<0.1
Parathion	ug/l	0.1	N	<0.1
Parathion methyl	ug/l	0.1	N	<0.1
Penconazole	ug/l	0.1	N	<0.1
Pendimethalin	ug/l	0.1	N	<0.1
Pentachloroaniline	ug/l	0.1	N	<0.1
Pentachlorophenol	ug/l	0.1	N	(278) <0.1
Pentanochlor	ug/l	0.1	N	<0.1
Permethrin	ug/l	0.1	N	<0.1
Pethoxamid	ug/l	0.1	N	<0.1
Phenothrin	ug/l	0.1	N	<0.1
Phenthoate	ug/l	0.1	N	<0.1
Phorate	ug/l	0.1	N	<0.1
Phosalone	ug/l	0.1	N	<0.1
Phosfolan	ug/l	0.1	N	<0.1
Picoxystrobin	ug/l	0.1	N	<0.1
Piperonyl Butoxide	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	(278) <0.1
Pirimiphos Ethyl	ug/l	0.1	N	<0.1
Pirimiphos methyl	ug/l	0.1	N	<0.1
Pretilachlor	ug/l	0.1	N	<0.1
Procymidone	ug/l	0.1	N	<0.1
Profenofos	ug/l	0.1	N	<0.1
Prometon	ug/l	0.1	N	(278) <0.1
Prometryn	ug/l	0.1	N	(278) <0.1
Propachlor	ug/l	0.1	N	<0.1
Propanil	ug/l	0.1	N	<0.1
Propaphos	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	(278) <0.1
Propazine	ug/l	0.1	N	<0.1
Propetamphos	ug/l	0.1	N	<0.1
Propham	ug/l	0.1	N	<0.1

Report Number : 863842 006
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : BH306
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Propiconazole	ug/l	0.1	N	<0.1
Propyzamide	ug/l	0.1	N	<0.1
Proquinazid	ug/l	0.1	N	<0.1
Prosulfocarb	ug/l	0.1	N	<0.1
Prothiofos	ug/l	0.1	N	<0.1
Pyraclostrobin	ug/l	0.1	N	(278) <0.1
Pyraflufen ethyl	ug/l	0.1	N	<0.1
Pyrazophos	ug/l	0.1	N	<0.1
Pyridaben	ug/l	0.1	N	<0.1
Pyridaphenthion	ug/l	0.1	N	<0.1
Pyrimethanil	ug/l	0.1	N	(278) <0.1
Pyriproxyfen	ug/l	0.1	N	<0.1
Quinalphos	ug/l	0.1	N	<0.1
Quinoxyfen	ug/l	0.1	N	<0.1
Quintozene	ug/l	0.1	N	<0.1
Quizalofop-ethyl	ug/l	0.1	N	<0.1
Secbumeton	ug/l	0.1	N	(278) <0.1
Silafluofen	ug/l	0.1	N	<0.1
Simazine	ug/l	0.1	N	<0.1
Simeconazole	ug/l	0.1	N	<0.1
Sulfallate	ug/l	0.1	N	<0.1
Sulprofos	ug/l	0.1	N	<0.1
Tebuconazole	ug/l	0.1	N	(278) <0.1
Tebufenpyrad	ug/l	0.1	N	<0.1
Tebupirimiphos	ug/l	0.1	N	<0.1
Tecnazene	ug/l	0.1	N	(278) <0.1
Tefluthrin	ug/l	0.1	N	<0.1
Terbacil	ug/l	0.1	N	<0.1
Terbufos	ug/l	0.1	N	<0.1
Terbumeton	ug/l	0.1	N	(278) <0.1
Terbuthylazine	ug/l	0.1	N	<0.1
Terbutryn	ug/l	0.1	N	(278) <0.1
Tetrachlorvinphos	ug/l	0.1	N	<0.1
Tetraconazole	ug/l	0.1	N	<0.1
Tetradifon	ug/l	0.1	N	<0.1
tetraethyl dithiopyrophosphate	ug/l	0.1	N	<0.1
Tetramethrin	ug/l	0.1	N	<0.1
Tetrasul	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Thiamethoxam	ug/l	0.1	N	<0.1
Thiobencarb	ug/l	0.1	N	<0.1
Tolclofos-methyl	ug/l	0.1	N	<0.1
Triadimefon	ug/l	0.1	N	<0.1
Triadimenol	ug/l	0.1	N	(278) <0.1
Triallate	ug/l	0.1	N	<0.1
Triazamate	ug/l	0.1	N	<0.1
Triazophos	ug/l	0.1	N	<0.1
Trifloxystrobin	ug/l	0.1	N	<0.1
Triflumizole	ug/l	0.1	N	(278) <0.1
Trifluralin	ug/l	0.1	N	<0.1
Vinclozolin	ug/l	0.1	N	<0.1
Vinclozolin metabolite 3,5-Dichloroaniline	ug/l	0.1	N	(278) <0.1

Report Number : 863842 006
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : BH306
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
2-(1-Naphthyl)acetamide	ug/l	0.1	N	<0.1
3-hydroxycarbofuran	ug/l	0.1	N	<0.1
6-Benzyladenine	ug/l	0.1	N	<0.1
Acephate	ug/l	0.1	N	<0.1
Acetamiprid	ug/l	0.1	N	<0.1
Acibenzolar-S-methyl	ug/l	0.1	N	<0.1
Aldicarb	ug/l	0.1	N	<0.1
Aldicarb sulphone	ug/l	0.1	N	<0.1
Aldicarb sulphoxide	ug/l	0.1	N	<0.1
Aminocarb	ug/l	0.1	N	<0.1
Azadirachtin	ug/l	0.1	N	<0.1
Azinphos ethyl	ug/l	0.1	N	<0.1
Azinphos methyl	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Bendiocarb	ug/l	0.1	N	<0.1
Benfuracarb	ug/l	0.1	N	(278) <0.1
Butralin	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbendazim	ug/l	0.1	N	(278) <0.1
Carbetamide	ug/l	0.1	N	<0.1
Carbofuran	ug/l	0.1	N	<0.1
Carbosulfan	ug/l	0.1	N	(278) <0.1
Carpropamid	ug/l	0.1	N	<0.1
Chinomethionat	ug/l	0.1	N	<0.1
Chlorantraniliprole	ug/l	0.1	N	<0.1
Chlorbromuron	ug/l	0.1	N	<0.1
Chlorfluazuron	ug/l	0.1	N	<0.1
Chloridazon	ug/l	0.1	N	<0.1
Chlorotoluron	ug/l	0.1	N	<0.1
Clofentezine	ug/l	0.1	N	<0.1
Clothianidin	ug/l	0.1	N	<0.1
Cyanazine	ug/l	0.1	N	<0.1
Cyazofamid	ug/l	0.1	N	<0.1
Cycluron	ug/l	0.1	N	<0.1
Cymoxanil	ug/l	0.1	N	<0.1
Cythioate	ug/l	0.1	N	<0.1
Demeton	ug/l	0.1	N	<0.1
Demeton-s-methyl	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Demeton-s-methyl sulphone	ug/l	0.1	N	<0.1
Dichlofluanid	ug/l	0.1	N	<0.1
Dicrotophos	ug/l	0.1	N	<0.1
Diethofencarb	ug/l	0.1	N	<0.1
Diflubenzuron	ug/l	0.1	N	<0.1
Dimefuron	ug/l	0.1	N	<0.1
Dimethoate	ug/l	0.1	N	<0.1
Diniconazole	ug/l	0.1	N	<0.1
Dinotefuran	ug/l	0.1	N	<0.1
Dioxacarb	ug/l	0.1	N	<0.1
Disulfoton sulfoxide	ug/l	0.1	N	<0.1
Disulfoton sulphone	ug/l	0.1	N	<0.1
Diuron	ug/l	0.1	N	<0.1
DMSA	ug/l	0.1	N	<0.1
DMST	ug/l	0.1	N	<0.1
Dodemorph	ug/l	0.1	N	(278) <0.1
Dodine	ug/l	0.1	N	<0.1
Emamectin	ug/l	0.1	N	<0.1
Ethidimuron	ug/l	0.1	N	<0.1
Ethiofencarb	ug/l	0.1	N	<0.1
Ethiofencarb sulfone	ug/l	0.1	N	<0.1
Ethiofencarb sulfoxide	ug/l	0.1	N	<0.1
Ethiprole	ug/l	0.1	N	<0.1
Ethirimol	ug/l	0.1	N	<0.1
Fenamiphos sulfone	ug/l	0.1	N	<0.1
Fenamiphos sulfoxide	ug/l	0.1	N	<0.1
Fenazaquin	ug/l	0.1	N	<0.1
Fenchlorphos oxon	ug/l	0.1	N	<0.1
Fenhexamid	ug/l	0.1	N	<0.1
Fenoxycarb	ug/l	0.1	N	<0.1
Fenpropidin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenpyroximate	ug/l	0.1	N	<0.1
Fenthion Sulphone	ug/l	0.1	N	<0.1
Fenthion Sulphoxide	ug/l	0.1	N	<0.1
Fenuron	ug/l	0.1	N	<0.1
Flonicamid	ug/l	0.1	N	<0.1
Fluazinam	ug/l	0.1	N	<0.1

Report Number : 863842 006
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : BH306
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Flufenoxuron	ug/l	0.1	N	<0.1
Fluometuron	ug/l	0.1	N	<0.1
Fluopicolide	ug/l	0.1	N	<0.1
Fluorochloridone	ug/l	0.1	N	<0.1
Fluoxastrobin	ug/l	0.1	N	<0.1
Flurtamone	ug/l	0.1	N	<0.1
Flutriafol	ug/l	0.1	N	<0.1
Forchlorfenuron	ug/l	0.1	N	<0.1
Fosthiasate	ug/l	0.1	N	<0.1
Fuberidazole	ug/l	0.1	N	<0.1
Furathiocarb	ug/l	0.1	N	<0.1
Hexaflumuron	ug/l	0.1	N	<0.1
Hexythiazox	ug/l	0.1	N	<0.1
Imazalil	ug/l	0.1	N	(278) <0.1
Imibenconazole	ug/l	0.1	N	<0.1
Imidacloprid	ug/l	0.1	N	<0.1
Indoxacarb	ug/l	0.1	N	<0.1
Iprovalicarb	ug/l	0.1	N	<0.1
Isoprocarb	ug/l	0.1	N	<0.1
Isoproturon	ug/l	0.1	N	<0.1
Isoxaben	ug/l	0.1	N	<0.1
Karbutilate	ug/l	0.1	N	<0.1
Linuron	ug/l	0.1	N	<0.1
Lufenuron	ug/l	0.1	N	<0.1
Malaoxon	ug/l	0.1	N	<0.1
Mandipropamid	ug/l	0.1	N	<0.1
Mefenacet	ug/l	0.1	N	<0.1
Metamitron	ug/l	0.1	N	<0.1
Metconazole	ug/l	0.1	N	<0.1
Methabenzthiazuron	ug/l	0.1	N	<0.1
Methamidophos	ug/l	0.1	N	<0.1
Methiocarb	ug/l	0.1	N	<0.1
Methiocarb Sulfone	ug/l	0.1	N	<0.1
Methiocarb Sulfoxide	ug/l	0.1	N	<0.1
Methomyl	ug/l	0.1	N	<0.1
Methoxyfenozide	ug/l	0.1	N	<0.1
Metobromuron	ug/l	0.1	N	<0.1
Metoxuron	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Monocrotophos	ug/l	0.1	N	<0.1
Monolinuron	ug/l	0.1	N	<0.1
Monuron	ug/l	0.1	N	<0.1
Neburon	ug/l	0.1	N	<0.1
Nicotine	ug/l	1.0	N	(62, 278) <1.0
Nitenpyram	ug/l	0.1	N	<0.1
Novaluron	ug/l	0.1	N	<0.1
Omethoate	ug/l	0.1	N	<0.1
Oxadiargyl	ug/l	0.1	N	<0.1
Oxamyl	ug/l	0.1	N	<0.1
Oxycarboxin	ug/l	0.1	N	<0.1
Oxydemeton-Methyl	ug/l	0.1	N	<0.1
Pencycuron	ug/l	0.1	N	<0.1
Phorate sulfone	ug/l	0.1	N	<0.1
Phorate sulfoxide	ug/l	0.1	N	<0.1
Phosmet	ug/l	0.1	N	<0.1
Phosphamidon	ug/l	0.1	N	<0.1
Phoxim	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	<0.1
Prochloraz	ug/l	0.1	N	<0.1
Promecarb	ug/l	0.1	N	<0.1
Propamocarb	ug/l	0.1	N	<0.1
Propaquizafop	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	<0.1
Propoxur	ug/l	0.1	N	<0.1
Pymetrozine	ug/l	0.1	N	<0.1
Pyrifenox	ug/l	0.1	N	<0.1
Resmethrin	ug/l	0.1	N	<0.1
Rotenone	ug/l	0.1	N	<0.1
Spinosad	ug/l	0.1	N	<0.1
Spirodiclofen	ug/l	0.1	N	<0.1
Spiromesifen	ug/l	0.1	N	<0.1
Spiroxamine	ug/l	0.1	N	<0.1
Tebufenozide	ug/l	0.1	N	<0.1
Teflubenzuron	ug/l	0.1	N	<0.1
Temephos	ug/l	0.1	N	<0.1
Terbufos sulfone	ug/l	0.1	N	<0.1
Terbufos sulfoxide	ug/l	0.1	N	<0.1

Report Number : 863842 006
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : BH306
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Thiabendazole	ug/l	0.1	N	<0.1
Thiacloprid	ug/l	0.1	N	<0.1
Thiazafluron	ug/l	0.1	N	<0.1
Thiodicarb	ug/l	0.1	N	<0.1
Thiofanox	ug/l	0.1	N	<0.1
Thiophanate Methyl	ug/l	0.1	N	<0.1
Tolylfluanid	ug/l	0.1	N	<0.1
Trichlorfon	ug/l	0.1	N	<0.1
Tridemorph	ug/l	0.1	N	<0.1
Trifloxysulfuron	ug/l	0.1	N	<0.1
Triflumuron	ug/l	0.1	N	<0.1
Triflusulfuron-methyl	ug/l	0.1	N	<0.1
Triticonazole	ug/l	0.1	N	<0.1
Vamidothion	ug/l	0.1	N	<0.1
Vernolate	ug/l	0.1	N	<0.1
Zoxamide	ug/l	0.1	N	<0.1

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Certificate of Analysis

Unit 2
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Report Number : 863842 007
Date of Issue : 04-Jun-2020

Customer : Pam Brown Associates
Contact : Dr Melissa Morales
Address : 2 Needwood House, Lancaster Park, Newborough Road, Needwood Burton on Trent, DE13 9PD

Samples Received : 29-May-2020
Analysis Started : 01-Jun-2020
Concept Job Reference : 863842-1
Analysis Requested : MRPS by GC (CSOPP611), MRPS by LC (CSOPP603)
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : ASB1
Location : Wheathampstead
Sample Description : Water

Results Summary

Analyte	Level Found	Units	LOD	EU MRL mg/kg	CODEX MRL mg/kg	Symbol
MRPS by GC (CSOPP611)						
EPTC	**0.8**	ug/l	0.1			N
MRPS by LC (CSOPP603)	**No residue detected above the limit of detection.**					

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.
Customers are responsible for information provided where, if incorrect, it could affect the validity of the results.
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 Concept Life Sciences SOPs
All results have been reviewed in accordance with QMSection 15 of the Concept Life Sciences, Analytical Services Quality Manual
All samples prepared in accordance with the CODEX alimentarius

Report checked
and authorised by :
Matt Line
Section Manager - Pesticides

Issued by :
Mr Mark Obrien
Customer Service Manager Mark O'Brien

Index to symbols used in this report

Value	Description
3	LOD Raised Due to Elevated Blank
62	LOD was raised due to the method performance of the analytical procedure used
147	Result has been Recovery corrected.
13	Results have been blank corrected.
278	Data reported is qualitative as recovery is outside the 60 to 140% range
N	Analysis is not UKAS accredited

Report Number : 863842 007
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : ASB1
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
2,4,6-Trichlorophenol	ug/l	0.1	N	<0.1
2-Phenylphenol	ug/l	0.1	N	<0.1
Acetochlor	ug/l	0.1	N	<0.1
Aclonifen	ug/l	0.1	N	(278) <0.1
Acrinathrin	ug/l	0.1	N	(278) <0.1
Alachlor	ug/l	0.1	N	<0.1
Aldrin	ug/l	0.1	N	<0.1
Ametryn	ug/l	0.1	N	(278) <0.1
Atraton	ug/l	0.1	N	(278) <0.1
Atrazine	ug/l	0.1	N	<0.1
Azaconazole	ug/l	0.1	N	<0.1
Azobenzene	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Benalaxyl	ug/l	0.1	N	<0.1
Benfluralin	ug/l	0.1	N	<0.1
Bifenox	ug/l	0.1	N	<0.1
Bifenthrin	ug/l	0.1	N	<0.1
Binapacryl	ug/l	0.1	N	(278) <0.1
Biphenyl	ug/l	0.5	N	(3, 278) <0.5
Bitertanol	ug/l	0.1	N	(278) <0.1
Boscalid	ug/l	0.1	N	<0.1
Bromacil	ug/l	0.1	N	<0.1
Bromophos	ug/l	0.1	N	<0.1
Bromophos-Ethyl	ug/l	0.1	N	<0.1
Bromopropylate	ug/l	0.1	N	<0.1
Bupirimate	ug/l	0.1	N	(278) <0.1
Buprofezine	ug/l	0.1	N	<0.1
Butachlor	ug/l	0.1	N	<0.1
Cadusafos	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbophenothion	ug/l	0.1	N	<0.1
Carboxine	ug/l	0.1	N	(278) <0.1
Carfentrazone Ethyl	ug/l	0.1	N	(278) <0.1
Chlorobenzilate	ug/l	0.1	N	<0.1
Chlordane (sum of cis and trans isomers)	ug/l	0.1	N	(278) <0.1
Chlordimeform	ug/l	0.1	N	(278) <0.1
Chlorethoxyfos	ug/l	0.1	N	<0.1
Chlorfenapyr	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Chlorfenvinphos	ug/l	0.1	N	<0.1
Chlormephos	ug/l	0.1	N	<0.1
Chloropropylate	ug/l	0.1	N	<0.1
Chlorothalonil	ug/l	0.1	N	<0.1
Chlorpropham	ug/l	0.1	N	<0.1
Chlorpyrifos	ug/l	0.1	N	<0.1
Chlorpyrifos methyl	ug/l	0.1	N	<0.1
Chlorthal Dimethyl	ug/l	0.1	N	<0.1
Chlorthion	ug/l	0.1	N	<0.1
Chlorthiophos	ug/l	0.1	N	<0.1
Chlozolinate	ug/l	0.1	N	(278) <0.1
Clodinafop Propargyl	ug/l	0.1	N	(278) <0.1
Clomazone	ug/l	0.1	N	<0.1
Cloquintocet mexyl	ug/l	0.1	N	<0.1
Coumaphos	ug/l	0.1	N	(278) <0.1
Cyflufenamid	ug/l	0.1	N	<0.1
Cyfluthrin	ug/l	0.1	N	<0.1
Cypermethrin	ug/l	0.1	N	<0.1
Cyphenothrin	ug/l	0.1	N	<0.1
Cyproconazole	ug/l	0.1	N	(278) <0.1
Cyprodinil	ug/l	0.1	N	(278) <0.1
Deltamethrin	ug/l	0.1	N	<0.1
Desmetryn	ug/l	0.1	N	(278) <0.1
Diafenthiuron	ug/l	0.1	N	(278) <0.1
Dialifos	ug/l	0.1	N	<0.1
Diazinon	ug/l	0.1	N	<0.1
Dichlobenil	ug/l	0.1	N	<0.1
Dichlofenthion	ug/l	0.1	N	<0.1
Dichlorvos	ug/l	0.1	N	<0.1
Diclobutrazol	ug/l	0.1	N	<0.1
Dicloran	ug/l	0.1	N	<0.1
Dicofol	ug/l	0.1	N	(278) <0.1
Dieldrin	ug/l	0.1	N	<0.1
Difenoconazole	ug/l	0.1	N	<0.1
Diflufenican	ug/l	0.1	N	<0.1
Dimethenamid	ug/l	0.1	N	<0.1
Dimethomorph	ug/l	0.1	N	<0.1
Dimoxystrobin	ug/l	0.1	N	<0.1

Report Number : 863842 007
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : ASB1
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Dioxabenzofos	ug/l	0.1	N	<0.1
Diphenamid	ug/l	0.1	N	<0.1
Diphenylamine	ug/l	0.1	N	<0.1
Disulfoton	ug/l	0.1	N	<0.1
Ditalimfos	ug/l	0.1	N	<0.1
Edifenphos	ug/l	0.1	N	<0.1
Endosulphan alpha	ug/l	0.1	N	<0.1
Endosulphan beta	ug/l	0.1	N	<0.1
Endosulphan sulphate	ug/l	0.1	N	<0.1
Endrin	ug/l	0.1	N	<0.1
EPN	ug/l	0.1	N	(278) <0.1
Epoxiconazole	ug/l	0.1	N	<0.1
EPTC	**ug/l**	**0.1**	**N**	**0.8**
Etaconazole	ug/l	0.1	N	<0.1
Ethion	ug/l	0.1	N	<0.1
Ethofumesate	ug/l	0.1	N	<0.1
Ethoprophos	ug/l	0.1	N	<0.1
Ethoxyquin	ug/l	0.1	N	<0.1
Etofenprox	ug/l	0.1	N	<0.1
Etoxazole	ug/l	0.1	N	<0.1
Etridiazole	ug/l	0.1	N	(278) <0.1
Etrimfos	ug/l	0.1	N	<0.1
Famoxadone	ug/l	0.1	N	<0.1
Famphur	ug/l	0.1	N	<0.1
Fenamidone	ug/l	0.1	N	<0.1
Fenamiphos	ug/l	0.1	N	<0.1
Fenarimol	ug/l	0.1	N	<0.1
Fenbuconazole	ug/l	0.1	N	<0.1
Fenchlorphos	ug/l	0.1	N	<0.1
Fenitrothion	ug/l	0.1	N	<0.1
Fenpiclonil	ug/l	0.1	N	<0.1
Fenpropathrin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenson	ug/l	0.1	N	<0.1
Fensulfothion	ug/l	0.1	N	<0.1
Fenthion	ug/l	0.1	N	<0.1
Fenvalerate	ug/l	0.1	N	<0.1
Fipronil	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Fipronil sulphone	ug/l	0.1	N	<0.1
Flamprop isopropyl	ug/l	0.1	N	<0.1
Fluazifop-P-Butyl	ug/l	0.1	N	<0.1
Flucythrinate	ug/l	0.1	N	<0.1
Fludioxonil	ug/l	0.1	N	<0.1
Flufenacet	ug/l	0.1	N	<0.1
Flumetralin	ug/l	0.1	N	<0.1
Flumioxazin	ug/l	0.1	N	(278) <0.1
Flumorph	ug/l	0.1	N	<0.1
Fluopyram	ug/l	0.1	N	<0.1
Fluquinconazole	ug/l	0.1	N	<0.1
Fluroxypyr-1-methylheptyl ester	ug/l	0.1	N	<0.1
Flusilazole	ug/l	0.1	N	<0.1
Flutolanil	ug/l	0.1	N	<0.1
Fluxapyroxad	ug/l	0.1	N	<0.1
Fonophos	ug/l	0.1	N	<0.1
Formothion	ug/l	0.1	N	(278) <0.1
Furalaxyl	ug/l	0.1	N	<0.1
Haloxyfop etotyl	ug/l	0.1	N	<0.1
Haloxyfop Methyl	ug/l	0.1	N	<0.1
Heptachlor	ug/l	0.1	N	<0.1
Heptachlor epoxide	ug/l	0.1	N	<0.1
Heptachlor exo Epoxide	ug/l	0.1	N	<0.1
Heptenophos	ug/l	0.1	N	<0.1
Hexachlorobenzene	ug/l	0.1	N	(278) <0.1
Hexachlorocyclohexane (alpha)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (beta)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (delta)	ug/l	0.1	N	<0.1
Hexaconazole	ug/l	0.1	N	(278) <0.1
Hexazinone	ug/l	0.1	N	<0.1
Iodofenphos	ug/l	0.1	N	<0.1
Iprodione	ug/l	0.1	N	(278) <0.1
Isazofos	ug/l	0.1	N	<0.1
Isocarbophos	ug/l	0.1	N	<0.1
Isodrin	ug/l	0.1	N	<0.1
Isofenphos	ug/l	0.1	N	<0.1
Isofenphos Methyl	ug/l	0.1	N	<0.1
Isomethiozin	ug/l	0.1	N	<0.1

Report Number : 863842 007
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : ASB1
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Isoprothiolane	ug/l	0.1	N	<0.1
Isopyrazam	ug/l	0.1	N	<0.1
Kresoxim Methyl	ug/l	0.1	N	<0.1
Lambda Cyhalothrin	ug/l	0.1	N	<0.1
Lenacil	ug/l	0.1	N	<0.1
Leptophos	ug/l	0.1	N	<0.1
Lindane	ug/l	0.1	N	<0.1
Malathion	ug/l	0.1	N	<0.1
MCPA-thioethyl	ug/l	0.1	N	<0.1
Mecarbam	ug/l	0.1	N	(278) <0.1
Mepanipyrim	ug/l	0.1	N	(278) <0.1
Mephosfolan	ug/l	0.1	N	<0.1
Mepronil	ug/l	0.1	N	<0.1
Metalaxyl	ug/l	0.1	N	<0.1
Metazachlor	ug/l	0.1	N	<0.1
Methacrifos	ug/l	0.1	N	<0.1
Methidathion	ug/l	0.1	N	<0.1
Methoxychlor	ug/l	0.1	N	<0.1
Methyl Paraoxon	ug/l	0.1	N	(278) <0.1
Metolachlor	ug/l	0.1	N	<0.1
Metolcarb	ug/l	0.1	N	<0.1
Metrafenone	ug/l	0.1	N	<0.1
Metribuzin	ug/l	0.1	N	<0.1
Mevinphos	ug/l	0.1	N	<0.1
Mirex	ug/l	0.1	N	<0.1
Molinate	ug/l	0.1	N	<0.1
Myclobutanil	ug/l	0.1	N	<0.1
Napropamide	ug/l	0.1	N	<0.1
Nitrofen	ug/l	0.1	N	<0.1
Nitrothal isopropyl	ug/l	0.1	N	<0.1
Nuarimol	ug/l	0.1	N	<0.1
o,p'-DDT	ug/l	0.1	N	<0.1
o,p-DDD	ug/l	0.1	N	<0.1
o,p-DDE	ug/l	0.1	N	<0.1
Octylisothiazolon	ug/l	0.1	N	<0.1
Ofurace	ug/l	0.1	N	<0.1
Orysastrobin	ug/l	0.1	N	<0.1
Oxadiazon	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Oxadixyl	ug/l	0.1	N	<0.1
Oxyfluorfen	ug/l	0.1	N	(278) <0.1
p,p-DDD	ug/l	0.1	N	<0.1
p,p-DDE	ug/l	0.1	N	<0.1
p,p-DDT	ug/l	0.1	N	<0.1
Paclobutrazol	ug/l	0.1	N	<0.1
Paraoxon	ug/l	0.1	N	<0.1
Parathion	ug/l	0.1	N	<0.1
Parathion methyl	ug/l	0.1	N	<0.1
Penconazole	ug/l	0.1	N	<0.1
Pendimethalin	ug/l	0.1	N	<0.1
Pentachloroaniline	ug/l	0.1	N	<0.1
Pentachlorophenol	ug/l	0.1	N	(278) <0.1
Pentanochlor	ug/l	0.1	N	<0.1
Permethrin	ug/l	0.1	N	<0.1
Pethoxamid	ug/l	0.1	N	<0.1
Phenothrin	ug/l	0.1	N	<0.1
Phenthoate	ug/l	0.1	N	<0.1
Phorate	ug/l	0.1	N	<0.1
Phosalone	ug/l	0.1	N	<0.1
Phosfolan	ug/l	0.1	N	<0.1
Picoxystrobin	ug/l	0.1	N	<0.1
Piperonyl Butoxide	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	(278) <0.1
Pirimiphos Ethyl	ug/l	0.1	N	<0.1
Pirimiphos methyl	ug/l	0.1	N	<0.1
Pretilachlor	ug/l	0.1	N	<0.1
Procymidone	ug/l	0.1	N	<0.1
Profenofos	ug/l	0.1	N	<0.1
Prometon	ug/l	0.1	N	(278) <0.1
Prometryn	ug/l	0.1	N	(278) <0.1
Propachlor	ug/l	0.1	N	<0.1
Propanil	ug/l	0.1	N	<0.1
Propaphos	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	(278) <0.1
Propazine	ug/l	0.1	N	<0.1
Propetamphos	ug/l	0.1	N	<0.1
Propham	ug/l	0.1	N	<0.1

Report Number : 863842 007
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : ASB1
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Propiconazole	ug/l	0.1	N	<0.1
Propyzamide	ug/l	0.1	N	<0.1
Proquinazid	ug/l	0.1	N	<0.1
Prosulfocarb	ug/l	0.1	N	<0.1
Prothiofos	ug/l	0.1	N	<0.1
Pyraclostrobin	ug/l	0.1	N	(278) <0.1
Pyraflufen ethyl	ug/l	0.1	N	<0.1
Pyrazophos	ug/l	0.1	N	<0.1
Pyridaben	ug/l	0.1	N	<0.1
Pyridaphenthion	ug/l	0.1	N	<0.1
Pyrimethanil	ug/l	0.1	N	(278) <0.1
Pyriproxyfen	ug/l	0.1	N	<0.1
Quinalphos	ug/l	0.1	N	<0.1
Quinoxyfen	ug/l	0.1	N	<0.1
Quintozene	ug/l	0.1	N	<0.1
Quizalofop-ethyl	ug/l	0.1	N	<0.1
Secbumeton	ug/l	0.1	N	(278) <0.1
Silafluofen	ug/l	0.1	N	<0.1
Simazine	ug/l	0.1	N	<0.1
Simeconazole	ug/l	0.1	N	<0.1
Sulfallate	ug/l	0.1	N	<0.1
Sulprofos	ug/l	0.1	N	<0.1
Tebuconazole	ug/l	0.1	N	(278) <0.1
Tebufenpyrad	ug/l	0.1	N	<0.1
Tebupirimiphos	ug/l	0.1	N	<0.1
Tecnazene	ug/l	0.1	N	(278) <0.1
Tefluthrin	ug/l	0.1	N	<0.1
Terbacil	ug/l	0.1	N	<0.1
Terbufos	ug/l	0.1	N	<0.1
Terbumeton	ug/l	0.1	N	(278) <0.1
Terbuthylazine	ug/l	0.1	N	<0.1
Terbutryn	ug/l	0.1	N	(278) <0.1
Tetrachlorvinphos	ug/l	0.1	N	<0.1
Tetraconazole	ug/l	0.1	N	<0.1
Tetradifon	ug/l	0.1	N	<0.1
tetraethyl dithiopyrophosphate	ug/l	0.1	N	<0.1
Tetramethrin	ug/l	0.1	N	<0.1
Tetrasul	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Thiamethoxam	ug/l	0.1	N	<0.1
Thiobencarb	ug/l	0.1	N	<0.1
Tolclofos-methyl	ug/l	0.1	N	<0.1
Triadimefon	ug/l	0.1	N	<0.1
Triadimenol	ug/l	0.1	N	(278) <0.1
Triallate	ug/l	0.1	N	<0.1
Triazamate	ug/l	0.1	N	<0.1
Triazophos	ug/l	0.1	N	<0.1
Trifloxystrobin	ug/l	0.1	N	<0.1
Triflumizole	ug/l	0.1	N	(278) <0.1
Trifluralin	ug/l	0.1	N	<0.1
Vinclozolin	ug/l	0.1	N	<0.1
Vinclozolin metabolite 3,5-Dichloroaniline	ug/l	0.1	N	(278) <0.1

Report Number : 863842 007
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : ASB1
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
2-(1-Naphthyl)acetamide	ug/l	0.1	N	<0.1
3-hydroxycarbofuran	ug/l	0.1	N	<0.1
6-Benzyladenine	ug/l	0.1	N	<0.1
Acephate	ug/l	0.1	N	<0.1
Acetamiprid	ug/l	0.1	N	<0.1
Acibenzolar-S-methyl	ug/l	0.1	N	<0.1
Aldicarb	ug/l	0.1	N	<0.1
Aldicarb sulphone	ug/l	0.1	N	<0.1
Aldicarb sulphoxide	ug/l	0.1	N	<0.1
Aminocarb	ug/l	0.1	N	<0.1
Azadirachtin	ug/l	0.1	N	<0.1
Azinphos ethyl	ug/l	0.1	N	<0.1
Azinphos methyl	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Bendiocarb	ug/l	0.1	N	<0.1
Benfuracarb	ug/l	0.1	N	(278) <0.1
Butralin	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbendazim	ug/l	0.1	N	(278) <0.1
Carbetamide	ug/l	0.1	N	<0.1
Carbofuran	ug/l	0.1	N	<0.1
Carbosulfan	ug/l	0.1	N	(278) <0.1
Carpropamid	ug/l	0.1	N	<0.1
Chinomethionat	ug/l	0.1	N	<0.1
Chlorantraniliprole	ug/l	0.1	N	<0.1
Chlorbromuron	ug/l	0.1	N	<0.1
Chlorfluazuron	ug/l	0.1	N	<0.1
Chloridazon	ug/l	0.1	N	<0.1
Chlorotoluron	ug/l	0.1	N	<0.1
Clofentezine	ug/l	0.1	N	<0.1
Clothianidin	ug/l	0.1	N	<0.1
Cyanazine	ug/l	0.1	N	<0.1
Cyazofamid	ug/l	0.1	N	<0.1
Cycluron	ug/l	0.1	N	<0.1
Cymoxanil	ug/l	0.1	N	<0.1
Cythioate	ug/l	0.1	N	<0.1
Demeton	ug/l	0.1	N	<0.1
Demeton-s-methyl	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Demeton-s-methyl sulphone	ug/l	0.1	N	<0.1
Dichlofluanid	ug/l	0.1	N	<0.1
Dicrotophos	ug/l	0.1	N	<0.1
Diethofencarb	ug/l	0.1	N	<0.1
Diflubenzuron	ug/l	0.1	N	<0.1
Dimefuron	ug/l	0.1	N	<0.1
Dimethoate	ug/l	0.1	N	<0.1
Diniconazole	ug/l	0.1	N	<0.1
Dinotefuran	ug/l	0.1	N	<0.1
Dioxacarb	ug/l	0.1	N	<0.1
Disulfoton sulfoxide	ug/l	0.1	N	<0.1
Disulfoton sulphone	ug/l	0.1	N	<0.1
Diuron	ug/l	0.1	N	<0.1
DMSA	ug/l	0.1	N	<0.1
DMST	ug/l	0.1	N	<0.1
Dodemorph	ug/l	0.1	N	(278) <0.1
Dodine	ug/l	0.1	N	<0.1
Emamectin	ug/l	0.1	N	<0.1
Ethidimuron	ug/l	0.1	N	<0.1
Ethiofencarb	ug/l	0.1	N	<0.1
Ethiofencarb sulfone	ug/l	0.1	N	<0.1
Ethiofencarb sulfoxide	ug/l	0.1	N	<0.1
Ethiprole	ug/l	0.1	N	<0.1
Ethirimol	ug/l	0.1	N	<0.1
Fenamiphos sulfone	ug/l	0.1	N	<0.1
Fenamiphos sulfoxide	ug/l	0.1	N	<0.1
Fenazaquin	ug/l	0.1	N	<0.1
Fenchlorphos oxon	ug/l	0.1	N	<0.1
Fenhexamid	ug/l	0.1	N	<0.1
Fenoxycarb	ug/l	0.1	N	<0.1
Fenpropidin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenpyroximate	ug/l	0.1	N	<0.1
Fenthion Sulphone	ug/l	0.1	N	<0.1
Fenthion Sulphoxide	ug/l	0.1	N	<0.1
Fenuron	ug/l	0.1	N	<0.1
Flonicamid	ug/l	0.1	N	<0.1
Fluazinam	ug/l	0.1	N	<0.1

Report Number : 863842 007
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : ASB1
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Flufenoxuron	ug/l	0.1	N	<0.1
Fluometuron	ug/l	0.1	N	<0.1
Fluopicolide	ug/l	0.1	N	<0.1
Fluorochloridone	ug/l	0.1	N	<0.1
Fluoxastrobin	ug/l	0.1	N	<0.1
Flurtamone	ug/l	0.1	N	<0.1
Flutriafol	ug/l	0.1	N	<0.1
Forchlorfenuron	ug/l	0.1	N	<0.1
Fosthiasate	ug/l	0.1	N	<0.1
Fuberidazole	ug/l	0.1	N	<0.1
Furathiocarb	ug/l	0.1	N	<0.1
Hexaflumuron	ug/l	0.1	N	<0.1
Hexythiazox	ug/l	0.1	N	<0.1
Imazalil	ug/l	0.1	N	(278) <0.1
Imibenconazole	ug/l	0.1	N	<0.1
Imidacloprid	ug/l	0.1	N	<0.1
Indoxacarb	ug/l	0.1	N	<0.1
Iprovalicarb	ug/l	0.1	N	<0.1
Isoprocarb	ug/l	0.1	N	<0.1
Isoproturon	ug/l	0.1	N	<0.1
Isoxaben	ug/l	0.1	N	<0.1
Karbutilate	ug/l	0.1	N	<0.1
Linuron	ug/l	0.1	N	<0.1
Lufenuron	ug/l	0.1	N	<0.1
Malaoxon	ug/l	0.1	N	<0.1
Mandipropamid	ug/l	0.1	N	<0.1
Mefenacet	ug/l	0.1	N	<0.1
Metamitron	ug/l	0.1	N	<0.1
Metconazole	ug/l	0.1	N	<0.1
Methabenzthiazuron	ug/l	0.1	N	<0.1
Methamidophos	ug/l	0.1	N	<0.1
Methiocarb	ug/l	0.1	N	<0.1
Methiocarb Sulfone	ug/l	0.1	N	<0.1
Methiocarb Sulfoxide	ug/l	0.1	N	<0.1
Methomyl	ug/l	0.1	N	<0.1
Methoxyfenozide	ug/l	0.1	N	<0.1
Metobromuron	ug/l	0.1	N	<0.1
Metoxuron	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Monocrotophos	ug/l	0.1	N	<0.1
Monolinuron	ug/l	0.1	N	<0.1
Monuron	ug/l	0.1	N	<0.1
Neburon	ug/l	0.1	N	<0.1
Nicotine	ug/l	1.0	N	(278, 62) <1.0
Nitenpyram	ug/l	0.1	N	<0.1
Novaluron	ug/l	0.1	N	<0.1
Omethoate	ug/l	0.1	N	<0.1
Oxadiargyl	ug/l	0.1	N	<0.1
Oxamyl	ug/l	0.1	N	<0.1
Oxycarboxin	ug/l	0.1	N	<0.1
Oxydemeton-Methyl	ug/l	0.1	N	<0.1
Pencycuron	ug/l	0.1	N	<0.1
Phorate sulfone	ug/l	0.1	N	<0.1
Phorate sulfoxide	ug/l	0.1	N	<0.1
Phosmet	ug/l	0.1	N	<0.1
Phosphamidon	ug/l	0.1	N	<0.1
Phoxim	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	<0.1
Prochloraz	ug/l	0.1	N	<0.1
Promecarb	ug/l	0.1	N	<0.1
Propamocarb	ug/l	0.1	N	<0.1
Propaquizafop	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	<0.1
Propoxur	ug/l	0.1	N	<0.1
Pymetrozine	ug/l	0.1	N	<0.1
Pyrifenox	ug/l	0.1	N	<0.1
Resmethrin	ug/l	0.1	N	<0.1
Rotenone	ug/l	0.1	N	<0.1
Spinosad	ug/l	0.1	N	<0.1
Spirodiclofen	ug/l	0.1	N	<0.1
Spiromesifen	ug/l	0.1	N	<0.1
Spiroxamine	ug/l	0.1	N	<0.1
Tebufenozide	ug/l	0.1	N	<0.1
Teflubenzuron	ug/l	0.1	N	<0.1
Temephos	ug/l	0.1	N	<0.1
Terbufos sulfone	ug/l	0.1	N	<0.1
Terbufos sulfoxide	ug/l	0.1	N	<0.1

Report Number : 863842 007
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : ASB1
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Thiabendazole	ug/l	0.1	N	<0.1
Thiacloprid	ug/l	0.1	N	<0.1
Thiazafluron	ug/l	0.1	N	<0.1
Thiodicarb	ug/l	0.1	N	<0.1
Thiofanox	ug/l	0.1	N	<0.1
Thiophanate Methyl	ug/l	0.1	N	<0.1
Tolylfluanid	ug/l	0.1	N	<0.1
Trichlorfon	ug/l	0.1	N	<0.1
Tridemorph	ug/l	0.1	N	<0.1
Trifloxysulfuron	ug/l	0.1	N	<0.1
Triflumuron	ug/l	0.1	N	<0.1
Triflusulfuron-methyl	ug/l	0.1	N	<0.1
Triticonazole	ug/l	0.1	N	<0.1
Vamidothion	ug/l	0.1	N	<0.1
Vernolate	ug/l	0.1	N	<0.1
Zoxamide	ug/l	0.1	N	<0.1

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Concept Life Sciences

Certificate of Analysis

Unit 2
The Links
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Tel : 01954 782791
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Report Number : 863842 008
Date of Issue : 04-Jun-2020

Customer : Pam Brown Associates
Contact : Dr Melissa Morales
Address : 2 Needwood House, Lancaster Park, Newborough Road, Needwood Burton on Trent, DE13 9PD

Samples Received : 29-May-2020
Analysis Started : 01-Jun-2020
Concept Job Reference : 863842-1
Analysis Requested : MRPS by GC (CSOPP611), MRPS by LC (CSOPP603)
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : WS102
Location : Wheathampstead
Sample Description : Water

Results Summary

Analyte	Level Found	Units	LOD	EU MRL mg/kg	CODEX MRL mg/kg	Symbol
MRPS by GC (CSOPP611)	**No residue detected above the limit of detection.**					
MRPS by LC (CSOPP603)	**No residue detected above the limit of detection.**					

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.
Customers are responsible for information provided where, if incorrect, it could affect the validity of the results.
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 Concept Life Sciences SOPs
All results have been reviewed in accordance with QMSection 15 of the Concept Life Sciences, Analytical Services Quality Manual
All samples prepared in accordance with the CODEX alimentarius

Report checked
and authorised by :
Matt Line
Section Manager - Pesticides

Issued by :
Mr Mark Obrien
Customer Service Manager Mark O'Brien

Index to symbols used in this report

Value	Description
3	LOD Raised Due to Elevated Blank
62	LOD was raised due to the method performance of the analytical procedure used
147	Result has been Recovery corrected.
13	Results have been blank corrected.
278	Data reported is qualitative as recovery is outside the 60 to 140% range
N	Analysis is not UKAS accredited

Report Number : 863842 008
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : WS102
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
2,4,6-Trichlorophenol	ug/l	0.1	N	<0.1
2-Phenylphenol	ug/l	0.1	N	<0.1
Acetochlor	ug/l	0.1	N	<0.1
Aclonifen	ug/l	0.1	N	(278) <0.1
Acrinathrin	ug/l	0.1	N	(278) <0.1
Alachlor	ug/l	0.1	N	<0.1
Aldrin	ug/l	0.1	N	<0.1
Ametryn	ug/l	0.1	N	(278) <0.1
Atraton	ug/l	0.1	N	(278) <0.1
Atrazine	ug/l	0.1	N	<0.1
Azaconazole	ug/l	0.1	N	<0.1
Azobenzene	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Benalaxyl	ug/l	0.1	N	<0.1
Benfluralin	ug/l	0.1	N	<0.1
Bifenox	ug/l	0.1	N	<0.1
Bifenthrin	ug/l	0.1	N	<0.1
Binapacryl	ug/l	0.1	N	(278) <0.1
Biphenyl	ug/l	0.5	N	(278, 3) <0.5
Bitertanol	ug/l	0.1	N	(278) <0.1
Boscalid	ug/l	0.1	N	<0.1
Bromacil	ug/l	0.1	N	<0.1
Bromophos	ug/l	0.1	N	<0.1
Bromophos-Ethyl	ug/l	0.1	N	<0.1
Bromopropylate	ug/l	0.1	N	<0.1
Bupirimate	ug/l	0.1	N	(278) <0.1
Buprofezine	ug/l	0.1	N	<0.1
Butachlor	ug/l	0.1	N	<0.1
Cadusafos	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbophenothion	ug/l	0.1	N	<0.1
Carboxine	ug/l	0.1	N	(278) <0.1
Carfentrazone Ethyl	ug/l	0.1	N	(278) <0.1
Chlorobenzilate	ug/l	0.1	N	<0.1
Chlordane (sum of cis and trans isomers)	ug/l	0.1	N	(278) <0.1
Chlordimeform	ug/l	0.1	N	(278) <0.1
Chlorethoxyfos	ug/l	0.1	N	<0.1
Chlorfenapyr	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Chlorfenvinphos	ug/l	0.1	N	<0.1
Chlormephos	ug/l	0.1	N	<0.1
Chloropropylate	ug/l	0.1	N	<0.1
Chlorothalonil	ug/l	0.1	N	<0.1
Chlorpropham	ug/l	0.1	N	<0.1
Chlorpyrifos	ug/l	0.1	N	<0.1
Chlorpyrifos methyl	ug/l	0.1	N	<0.1
Chlorthal Dimethyl	ug/l	0.1	N	<0.1
Chlorthion	ug/l	0.1	N	<0.1
Chlorthiophos	ug/l	0.1	N	<0.1
Chlozolinate	ug/l	0.1	N	(278) <0.1
Clodinafop Propargyl	ug/l	0.1	N	(278) <0.1
Clomazone	ug/l	0.1	N	<0.1
Cloquintocet mexyl	ug/l	0.1	N	<0.1
Coumaphos	ug/l	0.1	N	(278) <0.1
Cyflufenamid	ug/l	0.1	N	<0.1
Cyfluthrin	ug/l	0.1	N	<0.1
Cypermethrin	ug/l	0.1	N	<0.1
Cyphenothrin	ug/l	0.1	N	<0.1
Cyproconazole	ug/l	0.1	N	(278) <0.1
Cyprodinil	ug/l	0.1	N	(278) <0.1
Deltamethrin	ug/l	0.1	N	<0.1
Desmetryn	ug/l	0.1	N	(278) <0.1
Diafenthiuron	ug/l	0.1	N	(278) <0.1
Dialifos	ug/l	0.1	N	<0.1
Diazinon	ug/l	0.1	N	<0.1
Dichlobenil	ug/l	0.1	N	<0.1
Dichlofenthion	ug/l	0.1	N	<0.1
Dichlorvos	ug/l	0.1	N	<0.1
Diclobutrazol	ug/l	0.1	N	<0.1
Dicloran	ug/l	0.1	N	<0.1
Dicofol	ug/l	0.1	N	(278) <0.1
Dieldrin	ug/l	0.1	N	<0.1
Difenoconazole	ug/l	0.1	N	<0.1
Diflufenican	ug/l	0.1	N	<0.1
Dimethenamid	ug/l	0.1	N	<0.1
Dimethomorph	ug/l	0.1	N	<0.1
Dimoxystrobin	ug/l	0.1	N	<0.1

Report Number : 863842 008
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : WS102
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Dioxabenzofos	ug/l	0.1	N	<0.1
Diphenamid	ug/l	0.1	N	<0.1
Diphenylamine	ug/l	0.1	N	<0.1
Disulfoton	ug/l	0.1	N	<0.1
Ditalimfos	ug/l	0.1	N	<0.1
Edifenphos	ug/l	0.1	N	<0.1
Endosulphan alpha	ug/l	0.1	N	<0.1
Endosulphan beta	ug/l	0.1	N	<0.1
Endosulphan sulphate	ug/l	0.1	N	<0.1
Endrin	ug/l	0.1	N	<0.1
EPN	ug/l	0.1	N	(278) <0.1
Epoxiconazole	ug/l	0.1	N	<0.1
EPTC	ug/l	0.1	N	<0.1
Etaconazole	ug/l	0.1	N	<0.1
Ethion	ug/l	0.1	N	<0.1
Ethofumesate	ug/l	0.1	N	<0.1
Ethoprophos	ug/l	0.1	N	<0.1
Ethoxyquin	ug/l	0.1	N	<0.1
Etofenprox	ug/l	0.1	N	<0.1
Etoxazole	ug/l	0.1	N	<0.1
Etridiazole	ug/l	0.1	N	(278) <0.1
Etrimfos	ug/l	0.1	N	<0.1
Famoxadone	ug/l	0.1	N	<0.1
Famphur	ug/l	0.1	N	<0.1
Fenamidone	ug/l	0.1	N	<0.1
Fenamiphos	ug/l	0.1	N	<0.1
Fenarimol	ug/l	0.1	N	<0.1
Fenbuconazole	ug/l	0.1	N	<0.1
Fenchlorphos	ug/l	0.1	N	<0.1
Fenitrothion	ug/l	0.1	N	<0.1
Fenpiclonil	ug/l	0.1	N	<0.1
Fenpropathrin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenson	ug/l	0.1	N	<0.1
Fensulfothion	ug/l	0.1	N	<0.1
Fenthion	ug/l	0.1	N	<0.1
Fenvalerate	ug/l	0.1	N	<0.1
Fipronil	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Fipronil sulphone	ug/l	0.1	N	<0.1
Flamprop isopropyl	ug/l	0.1	N	<0.1
Fluazifop-P-Butyl	ug/l	0.1	N	<0.1
Flucythrinate	ug/l	0.1	N	<0.1
Fludioxonil	ug/l	0.1	N	<0.1
Flufenacet	ug/l	0.1	N	<0.1
Flumetralin	ug/l	0.1	N	<0.1
Flumioxazin	ug/l	0.1	N	(278) <0.1
Flumorph	ug/l	0.1	N	<0.1
Fluopyram	ug/l	0.1	N	<0.1
Fluquinconazole	ug/l	0.1	N	<0.1
Fluroxypyr-1-methylheptyl ester	ug/l	0.1	N	<0.1
Flusilazole	ug/l	0.1	N	<0.1
Flutolanil	ug/l	0.1	N	<0.1
Fluxapyroxad	ug/l	0.1	N	<0.1
Fonophos	ug/l	0.1	N	<0.1
Formothion	ug/l	0.1	N	(278) <0.1
Furalaxyl	ug/l	0.1	N	<0.1
Haloxyfop etotyl	ug/l	0.1	N	<0.1
Haloxyfop Methyl	ug/l	0.1	N	<0.1
Heptachlor	ug/l	0.1	N	<0.1
Heptachlor epoxide	ug/l	0.1	N	<0.1
Heptachlor exo Epoxide	ug/l	0.1	N	<0.1
Heptenophos	ug/l	0.1	N	<0.1
Hexachlorobenzene	ug/l	0.1	N	(278) <0.1
Hexachlorocyclohexane (alpha)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (beta)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (delta)	ug/l	0.1	N	<0.1
Hexaconazole	ug/l	0.1	N	(278) <0.1
Hexazinone	ug/l	0.1	N	<0.1
Iodofenphos	ug/l	0.1	N	<0.1
Iprodione	ug/l	0.1	N	(278) <0.1
Isazofos	ug/l	0.1	N	<0.1
Isocarbophos	ug/l	0.1	N	<0.1
Isodrin	ug/l	0.1	N	<0.1
Isofenphos	ug/l	0.1	N	<0.1
Isofenphos Methyl	ug/l	0.1	N	<0.1
Isomethiozin	ug/l	0.1	N	<0.1

Report Number : 863842 008
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : WS102
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Isoprothiolane	ug/l	0.1	N	<0.1
Isopyrazam	ug/l	0.1	N	<0.1
Kresoxim Methyl	ug/l	0.1	N	<0.1
Lambda Cyhalothrin	ug/l	0.1	N	<0.1
Lenacil	ug/l	0.1	N	<0.1
Leptophos	ug/l	0.1	N	<0.1
Lindane	ug/l	0.1	N	<0.1
Malathion	ug/l	0.1	N	<0.1
MCPA-thioethyl	ug/l	0.1	N	<0.1
Mecarbam	ug/l	0.1	N	(278) <0.1
Mepanipyrim	ug/l	0.1	N	(278) <0.1
Mephosfolan	ug/l	0.1	N	<0.1
Mepronil	ug/l	0.1	N	<0.1
Metalaxyl	ug/l	0.1	N	<0.1
Metazachlor	ug/l	0.1	N	<0.1
Methacrifos	ug/l	0.1	N	<0.1
Methidathion	ug/l	0.1	N	<0.1
Methoxychlor	ug/l	0.1	N	<0.1
Methyl Paraoxon	ug/l	0.1	N	(278) <0.1
Metolachlor	ug/l	0.1	N	<0.1
Metolcarb	ug/l	0.1	N	<0.1
Metrafenone	ug/l	0.1	N	<0.1
Metribuzin	ug/l	0.1	N	<0.1
Mevinphos	ug/l	0.1	N	<0.1
Mirex	ug/l	0.1	N	<0.1
Molinate	ug/l	0.1	N	<0.1
Myclobutanil	ug/l	0.1	N	<0.1
Napropamide	ug/l	0.1	N	<0.1
Nitrofen	ug/l	0.1	N	<0.1
Nitrothal isopropyl	ug/l	0.1	N	<0.1
Nuarimol	ug/l	0.1	N	<0.1
o,p'-DDT	ug/l	0.1	N	<0.1
o,p-DDD	ug/l	0.1	N	<0.1
o,p-DDE	ug/l	0.1	N	<0.1
Octylisothiazolon	ug/l	0.1	N	<0.1
Ofurace	ug/l	0.1	N	<0.1
Orysastrobin	ug/l	0.1	N	<0.1
Oxadiazon	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Oxadixyl	ug/l	0.1	N	<0.1
Oxyfluorfen	ug/l	0.1	N	(278) <0.1
p,p-DDD	ug/l	0.1	N	<0.1
p,p-DDE	ug/l	0.1	N	<0.1
p,p-DDT	ug/l	0.1	N	<0.1
Paclobutrazol	ug/l	0.1	N	<0.1
Paraoxon	ug/l	0.1	N	<0.1
Parathion	ug/l	0.1	N	<0.1
Parathion methyl	ug/l	0.1	N	<0.1
Penconazole	ug/l	0.1	N	<0.1
Pendimethalin	ug/l	0.1	N	<0.1
Pentachloroaniline	ug/l	0.1	N	<0.1
Pentachlorophenol	ug/l	0.1	N	(278) <0.1
Pentanochlor	ug/l	0.1	N	<0.1
Permethrin	ug/l	0.1	N	<0.1
Pethoxamid	ug/l	0.1	N	<0.1
Phenothrin	ug/l	0.1	N	<0.1
Phenthoate	ug/l	0.1	N	<0.1
Phorate	ug/l	0.1	N	<0.1
Phosalone	ug/l	0.1	N	<0.1
Phosfolan	ug/l	0.1	N	<0.1
Picoxystrobin	ug/l	0.1	N	<0.1
Piperonyl Butoxide	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	(278) <0.1
Pirimiphos Ethyl	ug/l	0.1	N	<0.1
Pirimiphos methyl	ug/l	0.1	N	<0.1
Pretilachlor	ug/l	0.1	N	<0.1
Procymidone	ug/l	0.1	N	<0.1
Profenofos	ug/l	0.1	N	<0.1
Prometon	ug/l	0.1	N	(278) <0.1
Prometryn	ug/l	0.1	N	(278) <0.1
Propachlor	ug/l	0.1	N	<0.1
Propanil	ug/l	0.1	N	<0.1
Propaphos	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	(278) <0.1
Propazine	ug/l	0.1	N	<0.1
Propetamphos	ug/l	0.1	N	<0.1
Propham	ug/l	0.1	N	<0.1

Report Number : 863842 008
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : WS102
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Propiconazole	ug/l	0.1	N	<0.1
Propyzamide	ug/l	0.1	N	<0.1
Proquinazid	ug/l	0.1	N	<0.1
Prosulfocarb	ug/l	0.1	N	<0.1
Prothiofos	ug/l	0.1	N	<0.1
Pyraclostrobin	ug/l	0.1	N	(278) <0.1
Pyraflufen ethyl	ug/l	0.1	N	<0.1
Pyrazophos	ug/l	0.1	N	<0.1
Pyridaben	ug/l	0.1	N	<0.1
Pyridaphenthion	ug/l	0.1	N	<0.1
Pyrimethanil	ug/l	0.1	N	(278) <0.1
Pyriproxyfen	ug/l	0.1	N	<0.1
Quinalphos	ug/l	0.1	N	<0.1
Quinoxyfen	ug/l	0.1	N	<0.1
Quintozene	ug/l	0.1	N	<0.1
Quizalofop-ethyl	ug/l	0.1	N	<0.1
Secbumeton	ug/l	0.1	N	(278) <0.1
Silafluofen	ug/l	0.1	N	<0.1
Simazine	ug/l	0.1	N	<0.1
Simeconazole	ug/l	0.1	N	<0.1
Sulfallate	ug/l	0.1	N	<0.1
Sulprofos	ug/l	0.1	N	<0.1
Tebuconazole	ug/l	0.1	N	(278) <0.1
Tebufenpyrad	ug/l	0.1	N	<0.1
Tebupirimiphos	ug/l	0.1	N	<0.1
Tecnazene	ug/l	0.1	N	(278) <0.1
Tefluthrin	ug/l	0.1	N	<0.1
Terbacil	ug/l	0.1	N	<0.1
Terbufos	ug/l	0.1	N	<0.1
Terbumeton	ug/l	0.1	N	(278) <0.1
Terbuthylazine	ug/l	0.1	N	<0.1
Terbutryn	ug/l	0.1	N	(278) <0.1
Tetrachlorvinphos	ug/l	0.1	N	<0.1
Tetraconazole	ug/l	0.1	N	<0.1
Tetradifon	ug/l	0.1	N	<0.1
tetraethyl dithiopyrophosphate	ug/l	0.1	N	<0.1
Tetramethrin	ug/l	0.1	N	<0.1
Tetrasul	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Thiamethoxam	ug/l	0.1	N	<0.1
Thiobencarb	ug/l	0.1	N	<0.1
Tolclofos-methyl	ug/l	0.1	N	<0.1
Triadimefon	ug/l	0.1	N	<0.1
Triadimenol	ug/l	0.1	N	(278) <0.1
Triallate	ug/l	0.1	N	<0.1
Triazamate	ug/l	0.1	N	<0.1
Triazophos	ug/l	0.1	N	<0.1
Trifloxystrobin	ug/l	0.1	N	<0.1
Triflumizole	ug/l	0.1	N	(278) <0.1
Trifluralin	ug/l	0.1	N	<0.1
Vinclozolin	ug/l	0.1	N	<0.1
Vinclozolin metabolite 3,5-Dichloroaniline	ug/l	0.1	N	(278) <0.1

Report Number : 863842 008
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : WS102
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
2-(1-Naphthyl)acetamide	ug/l	0.1	N	<0.1
3-hydroxycarbofuran	ug/l	0.1	N	<0.1
6-Benzyladenine	ug/l	0.1	N	<0.1
Acephate	ug/l	0.1	N	<0.1
Acetamiprid	ug/l	0.1	N	<0.1
Acibenzolar-S-methyl	ug/l	0.1	N	<0.1
Aldicarb	ug/l	0.1	N	<0.1
Aldicarb sulphone	ug/l	0.1	N	<0.1
Aldicarb sulphoxide	ug/l	0.1	N	<0.1
Aminocarb	ug/l	0.1	N	<0.1
Azadirachtin	ug/l	0.1	N	<0.1
Azinphos ethyl	ug/l	0.1	N	<0.1
Azinphos methyl	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Bendiocarb	ug/l	0.1	N	<0.1
Benfuracarb	ug/l	0.1	N	(278) <0.1
Butralin	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbendazim	ug/l	0.1	N	(278) <0.1
Carbetamide	ug/l	0.1	N	<0.1
Carbofuran	ug/l	0.1	N	<0.1
Carbosulfan	ug/l	0.1	N	(278) <0.1
Carpropamid	ug/l	0.1	N	<0.1
Chinomethionat	ug/l	0.1	N	<0.1
Chlorantraniliprole	ug/l	0.1	N	<0.1
Chlorbromuron	ug/l	0.1	N	<0.1
Chlorfluazuron	ug/l	0.1	N	<0.1
Chloridazon	ug/l	0.1	N	<0.1
Chlorotoluron	ug/l	0.1	N	<0.1
Clofentezine	ug/l	0.1	N	<0.1
Clothianidin	ug/l	0.1	N	<0.1
Cyanazine	ug/l	0.1	N	<0.1
Cyazofamid	ug/l	0.1	N	<0.1
Cycluron	ug/l	0.1	N	<0.1
Cymoxanil	ug/l	0.1	N	<0.1
Cythioate	ug/l	0.1	N	<0.1
Demeton	ug/l	0.1	N	<0.1
Demeton-s-methyl	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Demeton-s-methyl sulphone	ug/l	0.1	N	<0.1
Dichlofluanid	ug/l	0.1	N	<0.1
Dicrotophos	ug/l	0.1	N	<0.1
Diethofencarb	ug/l	0.1	N	<0.1
Diflubenzuron	ug/l	0.1	N	<0.1
Dimefuron	ug/l	0.1	N	<0.1
Dimethoate	ug/l	0.1	N	<0.1
Diniconazole	ug/l	0.1	N	<0.1
Dinotefuran	ug/l	0.1	N	<0.1
Dioxacarb	ug/l	0.1	N	<0.1
Disulfoton sulfoxide	ug/l	0.1	N	<0.1
Disulfoton sulphone	ug/l	0.1	N	<0.1
Diuron	ug/l	0.1	N	<0.1
DMSA	ug/l	0.1	N	<0.1
DMST	ug/l	0.1	N	<0.1
Dodemorph	ug/l	0.1	N	(278) <0.1
Dodine	ug/l	0.1	N	<0.1
Emamectin	ug/l	0.1	N	<0.1
Ethidimuron	ug/l	0.1	N	<0.1
Ethiofencarb	ug/l	0.1	N	<0.1
Ethiofencarb sulfone	ug/l	0.1	N	<0.1
Ethiofencarb sulfoxide	ug/l	0.1	N	<0.1
Ethiprole	ug/l	0.1	N	<0.1
Ethirimol	ug/l	0.1	N	<0.1
Fenamiphos sulfone	ug/l	0.1	N	<0.1
Fenamiphos sulfoxide	ug/l	0.1	N	<0.1
Fenazaquin	ug/l	0.1	N	<0.1
Fenchlorphos oxon	ug/l	0.1	N	<0.1
Fenhexamid	ug/l	0.1	N	<0.1
Fenoxycarb	ug/l	0.1	N	<0.1
Fenpropidin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenpyroximate	ug/l	0.1	N	<0.1
Fenthion Sulphone	ug/l	0.1	N	<0.1
Fenthion Sulphoxide	ug/l	0.1	N	<0.1
Fenuron	ug/l	0.1	N	<0.1
Flonicamid	ug/l	0.1	N	<0.1
Fluazinam	ug/l	0.1	N	<0.1

Report Number : 863842 008
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : WS102
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Flufenoxuron	ug/l	0.1	N	<0.1
Fluometuron	ug/l	0.1	N	<0.1
Fluopicolide	ug/l	0.1	N	<0.1
Fluorochloridone	ug/l	0.1	N	<0.1
Fluoxastrobin	ug/l	0.1	N	<0.1
Flurtamone	ug/l	0.1	N	<0.1
Flutriafol	ug/l	0.1	N	<0.1
Forchlorfenuron	ug/l	0.1	N	<0.1
Fosthiasate	ug/l	0.1	N	<0.1
Fuberidazole	ug/l	0.1	N	<0.1
Furathiocarb	ug/l	0.1	N	<0.1
Hexaflumuron	ug/l	0.1	N	<0.1
Hexythiazox	ug/l	0.1	N	<0.1
Imazalil	ug/l	0.1	N	(278) <0.1
Imibenconazole	ug/l	0.1	N	<0.1
Imidacloprid	ug/l	0.1	N	<0.1
Indoxacarb	ug/l	0.1	N	<0.1
Iprovalicarb	ug/l	0.1	N	<0.1
Isoprocarb	ug/l	0.1	N	<0.1
Isoproturon	ug/l	0.1	N	<0.1
Isoxaben	ug/l	0.1	N	<0.1
Karbutilate	ug/l	0.1	N	<0.1
Linuron	ug/l	0.1	N	<0.1
Lufenuron	ug/l	0.1	N	<0.1
Malaoxon	ug/l	0.1	N	<0.1
Mandipropamid	ug/l	0.1	N	<0.1
Mefenacet	ug/l	0.1	N	<0.1
Metamitron	ug/l	0.1	N	<0.1
Metconazole	ug/l	0.1	N	<0.1
Methabenzthiazuron	ug/l	0.1	N	<0.1
Methamidophos	ug/l	0.1	N	<0.1
Methiocarb	ug/l	0.1	N	<0.1
Methiocarb Sulfone	ug/l	0.1	N	<0.1
Methiocarb Sulfoxide	ug/l	0.1	N	<0.1
Methomyl	ug/l	0.1	N	<0.1
Methoxyfenozide	ug/l	0.1	N	<0.1
Metobromuron	ug/l	0.1	N	<0.1
Metoxuron	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Monocrotophos	ug/l	0.1	N	<0.1
Monolinuron	ug/l	0.1	N	<0.1
Monuron	ug/l	0.1	N	<0.1
Neburon	ug/l	0.1	N	<0.1
Nicotine	ug/l	1.0	N	(278, 62) <1.0
Nitenpyram	ug/l	0.1	N	<0.1
Novaluron	ug/l	0.1	N	<0.1
Omethoate	ug/l	0.1	N	<0.1
Oxadiargyl	ug/l	0.1	N	<0.1
Oxamyl	ug/l	0.1	N	<0.1
Oxycarboxin	ug/l	0.1	N	<0.1
Oxydemeton-Methyl	ug/l	0.1	N	<0.1
Pencycuron	ug/l	0.1	N	<0.1
Phorate sulfone	ug/l	0.1	N	<0.1
Phorate sulfoxide	ug/l	0.1	N	<0.1
Phosmet	ug/l	0.1	N	<0.1
Phosphamidon	ug/l	0.1	N	<0.1
Phoxim	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	<0.1
Prochloraz	ug/l	0.1	N	<0.1
Promecarb	ug/l	0.1	N	<0.1
Propamocarb	ug/l	0.1	N	<0.1
Propaquizafop	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	<0.1
Propoxur	ug/l	0.1	N	<0.1
Pymetrozine	ug/l	0.1	N	<0.1
Pyrifenox	ug/l	0.1	N	<0.1
Resmethrin	ug/l	0.1	N	<0.1
Rotenone	ug/l	0.1	N	<0.1
Spinosad	ug/l	0.1	N	<0.1
Spirodiclofen	ug/l	0.1	N	<0.1
Spiromesifen	ug/l	0.1	N	<0.1
Spiroxamine	ug/l	0.1	N	<0.1
Tebufenozide	ug/l	0.1	N	<0.1
Teflubenzuron	ug/l	0.1	N	<0.1
Temephos	ug/l	0.1	N	<0.1
Terbufos sulfone	ug/l	0.1	N	<0.1
Terbufos sulfoxide	ug/l	0.1	N	<0.1

Report Number : 863842 008
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : WS102
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Thiabendazole	ug/l	0.1	N	<0.1
Thiacloprid	ug/l	0.1	N	<0.1
Thiazafluron	ug/l	0.1	N	<0.1
Thiodicarb	ug/l	0.1	N	<0.1
Thiofanox	ug/l	0.1	N	<0.1
Thiophanate Methyl	ug/l	0.1	N	<0.1
Tolylfluanid	ug/l	0.1	N	<0.1
Trichlorfon	ug/l	0.1	N	<0.1
Tridemorph	ug/l	0.1	N	<0.1
Trifloxysulfuron	ug/l	0.1	N	<0.1
Triflumuron	ug/l	0.1	N	<0.1
Triflusulfuron-methyl	ug/l	0.1	N	<0.1
Triticonazole	ug/l	0.1	N	<0.1
Vamidothion	ug/l	0.1	N	<0.1
Vernolate	ug/l	0.1	N	<0.1
Zoxamide	ug/l	0.1	N	<0.1

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Certificate of Analysis

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Report Number : 863842 009
Date of Issue : 04-Jun-2020

Customer : Pam Brown Associates
Contact : Dr Melissa Morales
Address : 2 Needwood House, Lancaster Park, Newborough Road, Needwood Burton on Trent, DE13 9PD

Samples Received : 29-May-2020
Analysis Started : 01-Jun-2020
Concept Job Reference : 863842-1
Analysis Requested : MRPS by GC (CSOPP611), MRPS by LC (CSOPP603)
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : WS103
Location : Wheathampstead
Sample Description : Water

Results Summary

Analyte	Level Found	Units	LOD	EU MRL mg/kg	CODEX MRL mg/kg	Symbol
MRPS by GC (CSOPP611)	**No residue detected above the limit of detection.**					
MRPS by LC (CSOPP603)	**No residue detected above the limit of detection.**					

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.
Customers are responsible for information provided where, if incorrect, it could affect the validity of the results.
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 Concept Life Sciences SOPs
All results have been reviewed in accordance with QMSection 15 of the Concept Life Sciences, Analytical Services Quality Manual
All samples prepared in accordance with the CODEX alimentarius

Report checked
and authorised by :
Matt Line
Section Manager - Pesticides

Issued by :
Mr Mark Obrien
Customer Service Manager Mark O'Brien

Index to symbols used in this report

Value	Description
3	LOD Raised Due to Elevated Blank
62	LOD was raised due to the method performance of the analytical procedure used
147	Result has been Recovery corrected.
13	Results have been blank corrected.
278	Data reported is qualitative as recovery is outside the 60 to 140% range
N	Analysis is not UKAS accredited

Report Number : 863842 009
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : WS103
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
2,4,6-Trichlorophenol	ug/l	0.1	N	<0.1
2-Phenylphenol	ug/l	0.1	N	<0.1
Acetochlor	ug/l	0.1	N	<0.1
Aclonifen	ug/l	0.1	N	(278) <0.1
Acrinathrin	ug/l	0.1	N	(278) <0.1
Alachlor	ug/l	0.1	N	<0.1
Aldrin	ug/l	0.1	N	<0.1
Ametryn	ug/l	0.1	N	(278) <0.1
Atraton	ug/l	0.1	N	(278) <0.1
Atrazine	ug/l	0.1	N	<0.1
Azaconazole	ug/l	0.1	N	<0.1
Azobenzene	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Benalaxyl	ug/l	0.1	N	<0.1
Benfluralin	ug/l	0.1	N	<0.1
Bifenox	ug/l	0.1	N	<0.1
Bifenthrin	ug/l	0.1	N	<0.1
Binapacryl	ug/l	0.1	N	(278) <0.1
Biphenyl	ug/l	0.5	N	(278, 3) <0.5
Bitertanol	ug/l	0.1	N	(278) <0.1
Boscalid	ug/l	0.1	N	<0.1
Bromacil	ug/l	0.1	N	<0.1
Bromophos	ug/l	0.1	N	<0.1
Bromophos-Ethyl	ug/l	0.1	N	<0.1
Bromopropylate	ug/l	0.1	N	<0.1
Bupirimate	ug/l	0.1	N	(278) <0.1
Buprofezine	ug/l	0.1	N	<0.1
Butachlor	ug/l	0.1	N	<0.1
Cadusafos	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbophenothion	ug/l	0.1	N	<0.1
Carboxine	ug/l	0.1	N	(278) <0.1
Carfentrazone Ethyl	ug/l	0.1	N	(278) <0.1
Chlorobenzilate	ug/l	0.1	N	<0.1
Chlordane (sum of cis and trans isomers)	ug/l	0.1	N	(278) <0.1
Chlordimeform	ug/l	0.1	N	(278) <0.1
Chlorethoxyfos	ug/l	0.1	N	<0.1
Chlorfenapyr	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Chlorfenvinphos	ug/l	0.1	N	<0.1
Chlormephos	ug/l	0.1	N	<0.1
Chloropropylate	ug/l	0.1	N	<0.1
Chlorothalonil	ug/l	0.1	N	<0.1
Chlorpropham	ug/l	0.1	N	<0.1
Chlorpyrifos	ug/l	0.1	N	<0.1
Chlorpyrifos methyl	ug/l	0.1	N	<0.1
Chlorthal Dimethyl	ug/l	0.1	N	<0.1
Chlorthion	ug/l	0.1	N	<0.1
Chlorthiophos	ug/l	0.1	N	<0.1
Chlozolinate	ug/l	0.1	N	(278) <0.1
Clodinafop Propargyl	ug/l	0.1	N	(278) <0.1
Clomazone	ug/l	0.1	N	<0.1
Cloquintocet mexyl	ug/l	0.1	N	<0.1
Coumaphos	ug/l	0.1	N	(278) <0.1
Cyflufenamid	ug/l	0.1	N	<0.1
Cyfluthrin	ug/l	0.1	N	<0.1
Cypermethrin	ug/l	0.1	N	<0.1
Cyphenothrin	ug/l	0.1	N	<0.1
Cyproconazole	ug/l	0.1	N	(278) <0.1
Cyprodinil	ug/l	0.1	N	(278) <0.1
Deltamethrin	ug/l	0.1	N	<0.1
Desmetryn	ug/l	0.1	N	(278) <0.1
Diafenthiuron	ug/l	0.1	N	(278) <0.1
Dialifos	ug/l	0.1	N	<0.1
Diazinon	ug/l	0.1	N	<0.1
Dichlobenil	ug/l	0.1	N	<0.1
Dichlofenthion	ug/l	0.1	N	<0.1
Dichlorvos	ug/l	0.1	N	<0.1
Diclobutrazol	ug/l	0.1	N	<0.1
Dicloran	ug/l	0.1	N	<0.1
Dicofol	ug/l	0.1	N	(278) <0.1
Dieldrin	ug/l	0.1	N	<0.1
Difenoconazole	ug/l	0.1	N	<0.1
Diflufenican	ug/l	0.1	N	<0.1
Dimethenamid	ug/l	0.1	N	<0.1
Dimethomorph	ug/l	0.1	N	<0.1
Dimoxystrobin	ug/l	0.1	N	<0.1

Report Number : 863842 009
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : WS103
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Dioxabenzofos	ug/l	0.1	N	<0.1
Diphenamid	ug/l	0.1	N	<0.1
Diphenylamine	ug/l	0.1	N	<0.1
Disulfoton	ug/l	0.1	N	<0.1
Ditalimfos	ug/l	0.1	N	<0.1
Edifenphos	ug/l	0.1	N	<0.1
Endosulphan alpha	ug/l	0.1	N	<0.1
Endosulphan beta	ug/l	0.1	N	<0.1
Endosulphan sulphate	ug/l	0.1	N	<0.1
Endrin	ug/l	0.1	N	<0.1
EPN	ug/l	0.1	N	(278) <0.1
Epoxiconazole	ug/l	0.1	N	<0.1
EPTC	ug/l	0.1	N	<0.1
Etaconazole	ug/l	0.1	N	<0.1
Ethion	ug/l	0.1	N	<0.1
Ethofumesate	ug/l	0.1	N	<0.1
Ethoprophos	ug/l	0.1	N	<0.1
Ethoxyquin	ug/l	0.1	N	<0.1
Etofenprox	ug/l	0.1	N	<0.1
Etoxazole	ug/l	0.1	N	<0.1
Etridiazole	ug/l	0.1	N	(278) <0.1
Etrimfos	ug/l	0.1	N	<0.1
Famoxadone	ug/l	0.1	N	<0.1
Famphur	ug/l	0.1	N	<0.1
Fenamidone	ug/l	0.1	N	<0.1
Fenamiphos	ug/l	0.1	N	<0.1
Fenarimol	ug/l	0.1	N	<0.1
Fenbuconazole	ug/l	0.1	N	<0.1
Fenchlorphos	ug/l	0.1	N	<0.1
Fenitrothion	ug/l	0.1	N	<0.1
Fenpiclonil	ug/l	0.1	N	<0.1
Fenpropathrin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenson	ug/l	0.1	N	<0.1
Fensulfothion	ug/l	0.1	N	<0.1
Fenthion	ug/l	0.1	N	<0.1
Fenvalerate	ug/l	0.1	N	<0.1
Fipronil	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Fipronil sulphone	ug/l	0.1	N	<0.1
Flamprop isopropyl	ug/l	0.1	N	<0.1
Fluazifop-P-Butyl	ug/l	0.1	N	<0.1
Flucythrinate	ug/l	0.1	N	<0.1
Fludioxonil	ug/l	0.1	N	<0.1
Flufenacet	ug/l	0.1	N	<0.1
Flumetralin	ug/l	0.1	N	<0.1
Flumioxazin	ug/l	0.1	N	(278) <0.1
Flumorph	ug/l	0.1	N	<0.1
Fluopyram	ug/l	0.1	N	<0.1
Fluquinconazole	ug/l	0.1	N	<0.1
Fluroxypyr-1-methylheptyl ester	ug/l	0.1	N	<0.1
Flusilazole	ug/l	0.1	N	<0.1
Flutolanil	ug/l	0.1	N	<0.1
Fluxapyroxad	ug/l	0.1	N	<0.1
Fonophos	ug/l	0.1	N	<0.1
Formothion	ug/l	0.1	N	(278) <0.1
Furalaxyl	ug/l	0.1	N	<0.1
Haloxyfop etotyl	ug/l	0.1	N	<0.1
Haloxyfop Methyl	ug/l	0.1	N	<0.1
Heptachlor	ug/l	0.1	N	<0.1
Heptachlor epoxide	ug/l	0.1	N	<0.1
Heptachlor exo Epoxide	ug/l	0.1	N	<0.1
Heptenophos	ug/l	0.1	N	<0.1
Hexachlorobenzene	ug/l	0.1	N	(278) <0.1
Hexachlorocyclohexane (alpha)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (beta)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (delta)	ug/l	0.1	N	<0.1
Hexaconazole	ug/l	0.1	N	(278) <0.1
Hexazinone	ug/l	0.1	N	<0.1
Iodofenphos	ug/l	0.1	N	<0.1
Iprodione	ug/l	0.1	N	(278) <0.1
Isazofos	ug/l	0.1	N	<0.1
Isocarbophos	ug/l	0.1	N	<0.1
Isodrin	ug/l	0.1	N	<0.1
Isofenphos	ug/l	0.1	N	<0.1
Isofenphos Methyl	ug/l	0.1	N	<0.1
Isomethiozin	ug/l	0.1	N	<0.1

Report Number : 863842 009
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : WS103
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Isoprothiolane	ug/l	0.1	N	<0.1
Isopyrazam	ug/l	0.1	N	<0.1
Kresoxim Methyl	ug/l	0.1	N	<0.1
Lambda Cyhalothrin	ug/l	0.1	N	<0.1
Lenacil	ug/l	0.1	N	<0.1
Leptophos	ug/l	0.1	N	<0.1
Lindane	ug/l	0.1	N	<0.1
Malathion	ug/l	0.1	N	<0.1
MCPA-thioethyl	ug/l	0.1	N	<0.1
Mecarbam	ug/l	0.1	N	(278) <0.1
Mepanipyrim	ug/l	0.1	N	(278) <0.1
Mephosfolan	ug/l	0.1	N	<0.1
Mepronil	ug/l	0.1	N	<0.1
Metalaxyl	ug/l	0.1	N	<0.1
Metazachlor	ug/l	0.1	N	<0.1
Methacrifos	ug/l	0.1	N	<0.1
Methidathion	ug/l	0.1	N	<0.1
Methoxychlor	ug/l	0.1	N	<0.1
Methyl Paraoxon	ug/l	0.1	N	(278) <0.1
Metolachlor	ug/l	0.1	N	<0.1
Metolcarb	ug/l	0.1	N	<0.1
Metrafenone	ug/l	0.1	N	<0.1
Metribuzin	ug/l	0.1	N	<0.1
Mevinphos	ug/l	0.1	N	<0.1
Mirex	ug/l	0.1	N	<0.1
Molinate	ug/l	0.1	N	<0.1
Myclobutanil	ug/l	0.1	N	<0.1
Napropamide	ug/l	0.1	N	<0.1
Nitrofen	ug/l	0.1	N	<0.1
Nitrothal isopropyl	ug/l	0.1	N	<0.1
Nuarimol	ug/l	0.1	N	<0.1
o,p'-DDT	ug/l	0.1	N	<0.1
o,p-DDD	ug/l	0.1	N	<0.1
o,p-DDE	ug/l	0.1	N	<0.1
Octylisothiazolon	ug/l	0.1	N	<0.1
Ofurace	ug/l	0.1	N	<0.1
Orysastrobin	ug/l	0.1	N	<0.1
Oxadiazon	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Oxadixyl	ug/l	0.1	N	<0.1
Oxyfluorfen	ug/l	0.1	N	(278) <0.1
p,p-DDD	ug/l	0.1	N	<0.1
p,p-DDE	ug/l	0.1	N	<0.1
p,p-DDT	ug/l	0.1	N	<0.1
Paclobutrazol	ug/l	0.1	N	<0.1
Paraoxon	ug/l	0.1	N	<0.1
Parathion	ug/l	0.1	N	<0.1
Parathion methyl	ug/l	0.1	N	<0.1
Penconazole	ug/l	0.1	N	<0.1
Pendimethalin	ug/l	0.1	N	<0.1
Pentachloroaniline	ug/l	0.1	N	<0.1
Pentachlorophenol	ug/l	0.1	N	(278) <0.1
Pentanochlor	ug/l	0.1	N	<0.1
Permethrin	ug/l	0.1	N	<0.1
Pethoxamid	ug/l	0.1	N	<0.1
Phenothrin	ug/l	0.1	N	<0.1
Phenthoate	ug/l	0.1	N	<0.1
Phorate	ug/l	0.1	N	<0.1
Phosalone	ug/l	0.1	N	<0.1
Phosfolan	ug/l	0.1	N	<0.1
Picoxystrobin	ug/l	0.1	N	<0.1
Piperonyl Butoxide	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	(278) <0.1
Pirimiphos Ethyl	ug/l	0.1	N	<0.1
Pirimiphos methyl	ug/l	0.1	N	<0.1
Pretilachlor	ug/l	0.1	N	<0.1
Procymidone	ug/l	0.1	N	<0.1
Profenofos	ug/l	0.1	N	<0.1
Prometon	ug/l	0.1	N	(278) <0.1
Prometryn	ug/l	0.1	N	(278) <0.1
Propachlor	ug/l	0.1	N	<0.1
Propanil	ug/l	0.1	N	<0.1
Propaphos	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	(278) <0.1
Propazine	ug/l	0.1	N	<0.1
Propetamphos	ug/l	0.1	N	<0.1
Propham	ug/l	0.1	N	<0.1

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Location : Wheathampstead
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MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Propiconazole	ug/l	0.1	N	<0.1
Propyzamide	ug/l	0.1	N	<0.1
Proquinazid	ug/l	0.1	N	<0.1
Prosulfocarb	ug/l	0.1	N	<0.1
Prothiofos	ug/l	0.1	N	<0.1
Pyraclostrobin	ug/l	0.1	N	(278) <0.1
Pyraflufen ethyl	ug/l	0.1	N	<0.1
Pyrazophos	ug/l	0.1	N	<0.1
Pyridaben	ug/l	0.1	N	<0.1
Pyridaphenthion	ug/l	0.1	N	<0.1
Pyrimethanil	ug/l	0.1	N	(278) <0.1
Pyriproxyfen	ug/l	0.1	N	<0.1
Quinalphos	ug/l	0.1	N	<0.1
Quinoxyfen	ug/l	0.1	N	<0.1
Quintozene	ug/l	0.1	N	<0.1
Quizalofop-ethyl	ug/l	0.1	N	<0.1
Secbumeton	ug/l	0.1	N	(278) <0.1
Silafluofen	ug/l	0.1	N	<0.1
Simazine	ug/l	0.1	N	<0.1
Simeconazole	ug/l	0.1	N	<0.1
Sulfallate	ug/l	0.1	N	<0.1
Sulprofos	ug/l	0.1	N	<0.1
Tebuconazole	ug/l	0.1	N	(278) <0.1
Tebufenpyrad	ug/l	0.1	N	<0.1
Tebupirimiphos	ug/l	0.1	N	<0.1
Tecnazene	ug/l	0.1	N	(278) <0.1
Tefluthrin	ug/l	0.1	N	<0.1
Terbacil	ug/l	0.1	N	<0.1
Terbufos	ug/l	0.1	N	<0.1
Terbumeton	ug/l	0.1	N	(278) <0.1
Terbuthylazine	ug/l	0.1	N	<0.1
Terbutryn	ug/l	0.1	N	(278) <0.1
Tetrachlorvinphos	ug/l	0.1	N	<0.1
Tetraconazole	ug/l	0.1	N	<0.1
Tetradifon	ug/l	0.1	N	<0.1
tetraethyl dithiopyrophosphate	ug/l	0.1	N	<0.1
Tetramethrin	ug/l	0.1	N	<0.1
Tetrasul	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Thiamethoxam	ug/l	0.1	N	<0.1
Thiobencarb	ug/l	0.1	N	<0.1
Tolclofos-methyl	ug/l	0.1	N	<0.1
Triadimefon	ug/l	0.1	N	<0.1
Triadimenol	ug/l	0.1	N	(278) <0.1
Triallate	ug/l	0.1	N	<0.1
Triazamate	ug/l	0.1	N	<0.1
Triazophos	ug/l	0.1	N	<0.1
Trifloxystrobin	ug/l	0.1	N	<0.1
Triflumizole	ug/l	0.1	N	(278) <0.1
Trifluralin	ug/l	0.1	N	<0.1
Vinclozolin	ug/l	0.1	N	<0.1
Vinclozolin metabolite 3,5-Dichloroaniline	ug/l	0.1	N	(278) <0.1

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Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : WS103
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
2-(1-Naphthyl)acetamide	ug/l	0.1	N	<0.1
3-hydroxycarbofuran	ug/l	0.1	N	<0.1
6-Benzyladenine	ug/l	0.1	N	<0.1
Acephate	ug/l	0.1	N	<0.1
Acetamiprid	ug/l	0.1	N	<0.1
Acibenzolar-S-methyl	ug/l	0.1	N	<0.1
Aldicarb	ug/l	0.1	N	<0.1
Aldicarb sulphone	ug/l	0.1	N	<0.1
Aldicarb sulphoxide	ug/l	0.1	N	<0.1
Aminocarb	ug/l	0.1	N	<0.1
Azadirachtin	ug/l	0.1	N	<0.1
Azinphos ethyl	ug/l	0.1	N	<0.1
Azinphos methyl	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Bendiocarb	ug/l	0.1	N	<0.1
Benfuracarb	ug/l	0.1	N	(278) <0.1
Butralin	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbendazim	ug/l	0.1	N	(278) <0.1
Carbetamide	ug/l	0.1	N	<0.1
Carbofuran	ug/l	0.1	N	<0.1
Carbosulfan	ug/l	0.1	N	(278) <0.1
Carpropamid	ug/l	0.1	N	<0.1
Chinomethionat	ug/l	0.1	N	<0.1
Chlorantraniliprole	ug/l	0.1	N	<0.1
Chlorbromuron	ug/l	0.1	N	<0.1
Chlorfluazuron	ug/l	0.1	N	<0.1
Chloridazon	ug/l	0.1	N	<0.1
Chlorotoluron	ug/l	0.1	N	<0.1
Clofentezine	ug/l	0.1	N	<0.1
Clothianidin	ug/l	0.1	N	<0.1
Cyanazine	ug/l	0.1	N	<0.1
Cyazofamid	ug/l	0.1	N	<0.1
Cycluron	ug/l	0.1	N	<0.1
Cymoxanil	ug/l	0.1	N	<0.1
Cythioate	ug/l	0.1	N	<0.1
Demeton	ug/l	0.1	N	<0.1
Demeton-s-methyl	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Demeton-s-methyl sulphone	ug/l	0.1	N	<0.1
Dichlofluanid	ug/l	0.1	N	<0.1
Dicrotophos	ug/l	0.1	N	<0.1
Diethofencarb	ug/l	0.1	N	<0.1
Diflubenzuron	ug/l	0.1	N	<0.1
Dimefuron	ug/l	0.1	N	<0.1
Dimethoate	ug/l	0.1	N	<0.1
Diniconazole	ug/l	0.1	N	<0.1
Dinotefuran	ug/l	0.1	N	<0.1
Dioxacarb	ug/l	0.1	N	<0.1
Disulfoton sulfoxide	ug/l	0.1	N	<0.1
Disulfoton sulphone	ug/l	0.1	N	<0.1
Diuron	ug/l	0.1	N	<0.1
DMSA	ug/l	0.1	N	<0.1
DMST	ug/l	0.1	N	<0.1
Dodemorph	ug/l	0.1	N	(278) <0.1
Dodine	ug/l	0.1	N	<0.1
Emamectin	ug/l	0.1	N	<0.1
Ethidimuron	ug/l	0.1	N	<0.1
Ethiofencarb	ug/l	0.1	N	<0.1
Ethiofencarb sulfone	ug/l	0.1	N	<0.1
Ethiofencarb sulfoxide	ug/l	0.1	N	<0.1
Ethiprole	ug/l	0.1	N	<0.1
Ethirimol	ug/l	0.1	N	<0.1
Fenamiphos sulfone	ug/l	0.1	N	<0.1
Fenamiphos sulfoxide	ug/l	0.1	N	<0.1
Fenazaquin	ug/l	0.1	N	<0.1
Fenchlorphos oxon	ug/l	0.1	N	<0.1
Fenhexamid	ug/l	0.1	N	<0.1
Fenoxycarb	ug/l	0.1	N	<0.1
Fenpropidin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenpyroximate	ug/l	0.1	N	<0.1
Fenthion Sulphone	ug/l	0.1	N	<0.1
Fenthion Sulphoxide	ug/l	0.1	N	<0.1
Fenuron	ug/l	0.1	N	<0.1
Flonicamid	ug/l	0.1	N	<0.1
Fluazinam	ug/l	0.1	N	<0.1

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MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Flufenoxuron	ug/l	0.1	N	<0.1
Fluometuron	ug/l	0.1	N	<0.1
Fluopicolide	ug/l	0.1	N	<0.1
Fluorochloridone	ug/l	0.1	N	<0.1
Fluoxastrobin	ug/l	0.1	N	<0.1
Flurtamone	ug/l	0.1	N	<0.1
Flutriafol	ug/l	0.1	N	<0.1
Forchlorfenuron	ug/l	0.1	N	<0.1
Fosthiasate	ug/l	0.1	N	<0.1
Fuberidazole	ug/l	0.1	N	<0.1
Furathiocarb	ug/l	0.1	N	<0.1
Hexaflumuron	ug/l	0.1	N	<0.1
Hexythiazox	ug/l	0.1	N	<0.1
Imazalil	ug/l	0.1	N	(278) <0.1
Imibenconazole	ug/l	0.1	N	<0.1
Imidacloprid	ug/l	0.1	N	<0.1
Indoxacarb	ug/l	0.1	N	<0.1
Iprovalicarb	ug/l	0.1	N	<0.1
Isoprocarb	ug/l	0.1	N	<0.1
Isoproturon	ug/l	0.1	N	<0.1
Isoxaben	ug/l	0.1	N	<0.1
Karbutilate	ug/l	0.1	N	<0.1
Linuron	ug/l	0.1	N	<0.1
Lufenuron	ug/l	0.1	N	<0.1
Malaoxon	ug/l	0.1	N	<0.1
Mandipropamid	ug/l	0.1	N	<0.1
Mefenacet	ug/l	0.1	N	<0.1
Metamitron	ug/l	0.1	N	<0.1
Metconazole	ug/l	0.1	N	<0.1
Methabenzthiazuron	ug/l	0.1	N	<0.1
Methamidophos	ug/l	0.1	N	<0.1
Methiocarb	ug/l	0.1	N	<0.1
Methiocarb Sulfone	ug/l	0.1	N	<0.1
Methiocarb Sulfoxide	ug/l	0.1	N	<0.1
Methomyl	ug/l	0.1	N	<0.1
Methoxyfenozide	ug/l	0.1	N	<0.1
Metobromuron	ug/l	0.1	N	<0.1
Metoxuron	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Monocrotophos	ug/l	0.1	N	<0.1
Monolinuron	ug/l	0.1	N	<0.1
Monuron	ug/l	0.1	N	<0.1
Neburon	ug/l	0.1	N	<0.1
Nicotine	ug/l	1.0	N	(62, 278) <1.0
Nitenpyram	ug/l	0.1	N	<0.1
Novaluron	ug/l	0.1	N	<0.1
Omethoate	ug/l	0.1	N	<0.1
Oxadiargyl	ug/l	0.1	N	<0.1
Oxamyl	ug/l	0.1	N	<0.1
Oxycarboxin	ug/l	0.1	N	<0.1
Oxydemeton-Methyl	ug/l	0.1	N	<0.1
Pencycuron	ug/l	0.1	N	<0.1
Phorate sulfone	ug/l	0.1	N	<0.1
Phorate sulfoxide	ug/l	0.1	N	<0.1
Phosmet	ug/l	0.1	N	<0.1
Phosphamidon	ug/l	0.1	N	<0.1
Phoxim	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	<0.1
Prochloraz	ug/l	0.1	N	<0.1
Promecarb	ug/l	0.1	N	<0.1
Propamocarb	ug/l	0.1	N	<0.1
Propaquizafop	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	<0.1
Propoxur	ug/l	0.1	N	<0.1
Pymetrozine	ug/l	0.1	N	<0.1
Pyrifenox	ug/l	0.1	N	<0.1
Resmethrin	ug/l	0.1	N	<0.1
Rotenone	ug/l	0.1	N	<0.1
Spinosad	ug/l	0.1	N	<0.1
Spirodiclofen	ug/l	0.1	N	<0.1
Spiromesifen	ug/l	0.1	N	<0.1
Spiroxamine	ug/l	0.1	N	<0.1
Tebufenozide	ug/l	0.1	N	<0.1
Teflubenzuron	ug/l	0.1	N	<0.1
Temephos	ug/l	0.1	N	<0.1
Terbufos sulfone	ug/l	0.1	N	<0.1
Terbufos sulfoxide	ug/l	0.1	N	<0.1

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Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Thiabendazole	ug/l	0.1	N	<0.1
Thiacloprid	ug/l	0.1	N	<0.1
Thiazafluron	ug/l	0.1	N	<0.1
Thiodicarb	ug/l	0.1	N	<0.1
Thiofanox	ug/l	0.1	N	<0.1
Thiophanate Methyl	ug/l	0.1	N	<0.1
Tolylfluanid	ug/l	0.1	N	<0.1
Trichlorfon	ug/l	0.1	N	<0.1
Tridemorph	ug/l	0.1	N	<0.1
Trifloxysulfuron	ug/l	0.1	N	<0.1
Triflumuron	ug/l	0.1	N	<0.1
Triflusulfuron-methyl	ug/l	0.1	N	<0.1
Triticonazole	ug/l	0.1	N	<0.1
Vamidothion	ug/l	0.1	N	<0.1
Vernolate	ug/l	0.1	N	<0.1
Zoxamide	ug/l	0.1	N	<0.1

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Concept Life Sciences

Certificate of Analysis

Unit 2
The Links
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Report Number : 863842 010
Date of Issue : 04-Jun-2020

Customer : Pam Brown Associates
Contact : Dr Melissa Morales
Address : 2 Needwood House, Lancaster Park, Newborough Road, Needwood Burton on Trent, DE13 9PD

Samples Received : 29-May-2020
Analysis Started : 01-Jun-2020
Concept Job Reference : 863842-1
Analysis Requested : MRPS by GC (CSOPP611), MRPS by LC (CSOPP603)
Variety : Surface Water
Date Sampled : 28-MAY-2020
Customer Reference : S1
Location : Wheathampstead
Sample Description : Water

Results Summary

Analyte	Level Found	Units	LOD	EU MRL mg/kg	CODEX MRL mg/kg	Symbol
MRPS by GC (CSOPP611)	**No residue detected above the limit of detection.**					
MRPS by LC (CSOPP603)	**No residue detected above the limit of detection.**					

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.
Customers are responsible for information provided where, if incorrect, it could affect the validity of the results.
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 Concept Life Sciences SOPs
All results have been reviewed in accordance with QMSection 15 of the Concept Life Sciences, Analytical Services Quality Manual
All samples prepared in accordance with the CODEX alimentarius

Report checked
and authorised by :
Matt Line
Section Manager - Pesticides

Issued by :
Mr Mark Obrien
Customer Service Manager Mark O'Brien

Index to symbols used in this report

Value	Description
3	LOD Raised Due to Elevated Blank
62	LOD was raised due to the method performance of the analytical procedure used
147	Result has been Recovery corrected.
13	Results have been blank corrected.
278	Data reported is qualitative as recovery is outside the 60 to 140% range
N	Analysis is not UKAS accredited

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MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
2,4,6-Trichlorophenol	ug/l	0.1	N	<0.1
2-Phenylphenol	ug/l	0.1	N	<0.1
Acetochlor	ug/l	0.1	N	<0.1
Aclonifen	ug/l	0.1	N	(278) <0.1
Acrinathrin	ug/l	0.1	N	(278) <0.1
Alachlor	ug/l	0.1	N	<0.1
Aldrin	ug/l	0.1	N	<0.1
Ametryn	ug/l	0.1	N	(278) <0.1
Atraton	ug/l	0.1	N	(278) <0.1
Atrazine	ug/l	0.1	N	<0.1
Azaconazole	ug/l	0.1	N	<0.1
Azobenzene	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Benalaxyl	ug/l	0.1	N	<0.1
Benfluralin	ug/l	0.1	N	<0.1
Bifenox	ug/l	0.1	N	<0.1
Bifenthrin	ug/l	0.1	N	<0.1
Binapacryl	ug/l	0.1	N	(278) <0.1
Biphenyl	ug/l	0.5	N	(278, 3) <0.5
Bitertanol	ug/l	0.1	N	(278) <0.1
Boscalid	ug/l	0.1	N	<0.1
Bromacil	ug/l	0.1	N	<0.1
Bromophos	ug/l	0.1	N	<0.1
Bromophos-Ethyl	ug/l	0.1	N	<0.1
Bromopropylate	ug/l	0.1	N	<0.1
Bupirimate	ug/l	0.1	N	(278) <0.1
Buprofezine	ug/l	0.1	N	<0.1
Butachlor	ug/l	0.1	N	<0.1
Cadusafos	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbophenothion	ug/l	0.1	N	<0.1
Carboxine	ug/l	0.1	N	(278) <0.1
Carfentrazone Ethyl	ug/l	0.1	N	(278) <0.1
Chlorobenzilate	ug/l	0.1	N	<0.1
Chlordane (sum of cis and trans isomers)	ug/l	0.1	N	(278) <0.1
Chlordimeform	ug/l	0.1	N	(278) <0.1
Chlorethoxyfos	ug/l	0.1	N	<0.1
Chlorfenapyr	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Chlorfenvinphos	ug/l	0.1	N	<0.1
Chlormephos	ug/l	0.1	N	<0.1
Chloropropylate	ug/l	0.1	N	<0.1
Chlorothalonil	ug/l	0.1	N	<0.1
Chlorpropham	ug/l	0.1	N	<0.1
Chlorpyrifos	ug/l	0.1	N	<0.1
Chlorpyrifos methyl	ug/l	0.1	N	<0.1
Chlorthal Dimethyl	ug/l	0.1	N	<0.1
Chlorthion	ug/l	0.1	N	<0.1
Chlorthiophos	ug/l	0.1	N	<0.1
Chlozolinate	ug/l	0.1	N	(278) <0.1
Clodinafop Propargyl	ug/l	0.1	N	(278) <0.1
Clomazone	ug/l	0.1	N	<0.1
Cloquintocet mexyl	ug/l	0.1	N	<0.1
Coumaphos	ug/l	0.1	N	(278) <0.1
Cyflufenamid	ug/l	0.1	N	<0.1
Cyfluthrin	ug/l	0.1	N	<0.1
Cypermethrin	ug/l	0.1	N	<0.1
Cyphenothrin	ug/l	0.1	N	<0.1
Cyproconazole	ug/l	0.1	N	(278) <0.1
Cyprodinil	ug/l	0.1	N	(278) <0.1
Deltamethrin	ug/l	0.1	N	<0.1
Desmetryn	ug/l	0.1	N	(278) <0.1
Diafenthiuron	ug/l	0.1	N	(278) <0.1
Dialifos	ug/l	0.1	N	<0.1
Diazinon	ug/l	0.1	N	<0.1
Dichlobenil	ug/l	0.1	N	<0.1
Dichlofenthion	ug/l	0.1	N	<0.1
Dichlorvos	ug/l	0.1	N	<0.1
Diclobutrazol	ug/l	0.1	N	<0.1
Dicloran	ug/l	0.1	N	<0.1
Dicofol	ug/l	0.1	N	(278) <0.1
Dieldrin	ug/l	0.1	N	<0.1
Difenoconazole	ug/l	0.1	N	<0.1
Diflufenican	ug/l	0.1	N	<0.1
Dimethenamid	ug/l	0.1	N	<0.1
Dimethomorph	ug/l	0.1	N	<0.1
Dimoxystrobin	ug/l	0.1	N	<0.1

Report Number : 863842 010
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Surface Water
Date Sampled : 28-MAY-2020
Customer Reference : S1
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Dioxabenzofos	ug/l	0.1	N	<0.1
Diphenamid	ug/l	0.1	N	<0.1
Diphenylamine	ug/l	0.1	N	<0.1
Disulfoton	ug/l	0.1	N	<0.1
Ditalimfos	ug/l	0.1	N	<0.1
Edifenphos	ug/l	0.1	N	<0.1
Endosulphan alpha	ug/l	0.1	N	<0.1
Endosulphan beta	ug/l	0.1	N	<0.1
Endosulphan sulphate	ug/l	0.1	N	<0.1
Endrin	ug/l	0.1	N	<0.1
EPN	ug/l	0.1	N	(278) <0.1
Epoxiconazole	ug/l	0.1	N	<0.1
EPTC	ug/l	0.1	N	<0.1
Etaconazole	ug/l	0.1	N	<0.1
Ethion	ug/l	0.1	N	<0.1
Ethofumesate	ug/l	0.1	N	<0.1
Ethoprophos	ug/l	0.1	N	<0.1
Ethoxyquin	ug/l	0.1	N	<0.1
Etofenprox	ug/l	0.1	N	<0.1
Etoxazole	ug/l	0.1	N	<0.1
Etridiazole	ug/l	0.1	N	(278) <0.1
Etrimfos	ug/l	0.1	N	<0.1
Famoxadone	ug/l	0.1	N	<0.1
Famphur	ug/l	0.1	N	<0.1
Fenamidone	ug/l	0.1	N	<0.1
Fenamiphos	ug/l	0.1	N	<0.1
Fenarimol	ug/l	0.1	N	<0.1
Fenbuconazole	ug/l	0.1	N	<0.1
Fenchlorphos	ug/l	0.1	N	<0.1
Fenitrothion	ug/l	0.1	N	<0.1
Fenpiclonil	ug/l	0.1	N	<0.1
Fenpropathrin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenson	ug/l	0.1	N	<0.1
Fensulfothion	ug/l	0.1	N	<0.1
Fenthion	ug/l	0.1	N	<0.1
Fenvalerate	ug/l	0.1	N	<0.1
Fipronil	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Fipronil sulphone	ug/l	0.1	N	<0.1
Flamprop isopropyl	ug/l	0.1	N	<0.1
Fluazifop-P-Butyl	ug/l	0.1	N	<0.1
Flucythrinate	ug/l	0.1	N	<0.1
Fludioxonil	ug/l	0.1	N	<0.1
Flufenacet	ug/l	0.1	N	<0.1
Flumetralin	ug/l	0.1	N	<0.1
Flumioxazin	ug/l	0.1	N	(278) <0.1
Flumorph	ug/l	0.1	N	<0.1
Fluopyram	ug/l	0.1	N	<0.1
Fluquinconazole	ug/l	0.1	N	<0.1
Fluroxypyr-1-methylheptyl ester	ug/l	0.1	N	<0.1
Flusilazole	ug/l	0.1	N	<0.1
Flutolanil	ug/l	0.1	N	<0.1
Fluxapyroxad	ug/l	0.1	N	<0.1
Fonophos	ug/l	0.1	N	<0.1
Formothion	ug/l	0.1	N	(278) <0.1
Furalaxyl	ug/l	0.1	N	<0.1
Haloxyfop etotyl	ug/l	0.1	N	<0.1
Haloxyfop Methyl	ug/l	0.1	N	<0.1
Heptachlor	ug/l	0.1	N	<0.1
Heptachlor epoxide	ug/l	0.1	N	<0.1
Heptachlor exo Epoxide	ug/l	0.1	N	<0.1
Heptenophos	ug/l	0.1	N	<0.1
Hexachlorobenzene	ug/l	0.1	N	(278) <0.1
Hexachlorocyclohexane (alpha)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (beta)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (delta)	ug/l	0.1	N	<0.1
Hexaconazole	ug/l	0.1	N	(278) <0.1
Hexazinone	ug/l	0.1	N	<0.1
Iodofenphos	ug/l	0.1	N	<0.1
Iprodione	ug/l	0.1	N	(278) <0.1
Isazofos	ug/l	0.1	N	<0.1
Isocarbophos	ug/l	0.1	N	<0.1
Isodrin	ug/l	0.1	N	<0.1
Isofenphos	ug/l	0.1	N	<0.1
Isofenphos Methyl	ug/l	0.1	N	<0.1
Isomethiozin	ug/l	0.1	N	<0.1

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Samples Received : 29-May-2020
Variety : Surface Water
Date Sampled : 28-MAY-2020
Customer Reference : S1
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Isoprothiolane	ug/l	0.1	N	<0.1
Isopyrazam	ug/l	0.1	N	<0.1
Kresoxim Methyl	ug/l	0.1	N	<0.1
Lambda Cyhalothrin	ug/l	0.1	N	<0.1
Lenacil	ug/l	0.1	N	<0.1
Leptophos	ug/l	0.1	N	<0.1
Lindane	ug/l	0.1	N	<0.1
Malathion	ug/l	0.1	N	<0.1
MCPA-thioethyl	ug/l	0.1	N	<0.1
Mecarbam	ug/l	0.1	N	(278) <0.1
Mepanipyrim	ug/l	0.1	N	(278) <0.1
Mephosfolan	ug/l	0.1	N	<0.1
Mepronil	ug/l	0.1	N	<0.1
Metalaxyl	ug/l	0.1	N	<0.1
Metazachlor	ug/l	0.1	N	<0.1
Methacrifos	ug/l	0.1	N	<0.1
Methidathion	ug/l	0.1	N	<0.1
Methoxychlor	ug/l	0.1	N	<0.1
Methyl Paraoxon	ug/l	0.1	N	(278) <0.1
Metolachlor	ug/l	0.1	N	<0.1
Metolcarb	ug/l	0.1	N	<0.1
Metrafenone	ug/l	0.1	N	<0.1
Metribuzin	ug/l	0.1	N	<0.1
Mevinphos	ug/l	0.1	N	<0.1
Mirex	ug/l	0.1	N	<0.1
Molinate	ug/l	0.1	N	<0.1
Myclobutanil	ug/l	0.1	N	<0.1
Napropamide	ug/l	0.1	N	<0.1
Nitrofen	ug/l	0.1	N	<0.1
Nitrothal isopropyl	ug/l	0.1	N	<0.1
Nuarimol	ug/l	0.1	N	<0.1
o,p'-DDT	ug/l	0.1	N	<0.1
o,p-DDD	ug/l	0.1	N	<0.1
o,p-DDE	ug/l	0.1	N	<0.1
Octylisothiazolon	ug/l	0.1	N	<0.1
Ofurace	ug/l	0.1	N	<0.1
Orysastrobin	ug/l	0.1	N	<0.1
Oxadiazon	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Oxadixyl	ug/l	0.1	N	<0.1
Oxyfluorfen	ug/l	0.1	N	(278) <0.1
p,p-DDD	ug/l	0.1	N	<0.1
p,p-DDE	ug/l	0.1	N	<0.1
p,p-DDT	ug/l	0.1	N	<0.1
Paclobutrazol	ug/l	0.1	N	<0.1
Paraoxon	ug/l	0.1	N	<0.1
Parathion	ug/l	0.1	N	<0.1
Parathion methyl	ug/l	0.1	N	<0.1
Penconazole	ug/l	0.1	N	<0.1
Pendimethalin	ug/l	0.1	N	<0.1
Pentachloroaniline	ug/l	0.1	N	<0.1
Pentachlorophenol	ug/l	0.1	N	(278) <0.1
Pentanochlor	ug/l	0.1	N	<0.1
Permethrin	ug/l	0.1	N	<0.1
Pethoxamid	ug/l	0.1	N	<0.1
Phenothrin	ug/l	0.1	N	<0.1
Phenthoate	ug/l	0.1	N	<0.1
Phorate	ug/l	0.1	N	<0.1
Phosalone	ug/l	0.1	N	<0.1
Phosfolan	ug/l	0.1	N	<0.1
Picoxystrobin	ug/l	0.1	N	<0.1
Piperonyl Butoxide	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	(278) <0.1
Pirimiphos Ethyl	ug/l	0.1	N	<0.1
Pirimiphos methyl	ug/l	0.1	N	<0.1
Pretilachlor	ug/l	0.1	N	<0.1
Procymidone	ug/l	0.1	N	<0.1
Profenofos	ug/l	0.1	N	<0.1
Prometon	ug/l	0.1	N	(278) <0.1
Prometryn	ug/l	0.1	N	(278) <0.1
Propachlor	ug/l	0.1	N	<0.1
Propanil	ug/l	0.1	N	<0.1
Propaphos	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	(278) <0.1
Propazine	ug/l	0.1	N	<0.1
Propetamphos	ug/l	0.1	N	<0.1
Propham	ug/l	0.1	N	<0.1

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MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Propiconazole	ug/l	0.1	N	<0.1
Propyzamide	ug/l	0.1	N	<0.1
Proquinazid	ug/l	0.1	N	<0.1
Prosulfocarb	ug/l	0.1	N	<0.1
Prothiofos	ug/l	0.1	N	<0.1
Pyraclostrobin	ug/l	0.1	N	(278) <0.1
Pyraflufen ethyl	ug/l	0.1	N	<0.1
Pyrazophos	ug/l	0.1	N	<0.1
Pyridaben	ug/l	0.1	N	<0.1
Pyridaphenthion	ug/l	0.1	N	<0.1
Pyrimethanil	ug/l	0.1	N	(278) <0.1
Pyriproxyfen	ug/l	0.1	N	<0.1
Quinalphos	ug/l	0.1	N	<0.1
Quinoxyfen	ug/l	0.1	N	<0.1
Quintozene	ug/l	0.1	N	<0.1
Quizalofop-ethyl	ug/l	0.1	N	<0.1
Secbumeton	ug/l	0.1	N	(278) <0.1
Silafluofen	ug/l	0.1	N	<0.1
Simazine	ug/l	0.1	N	<0.1
Simeconazole	ug/l	0.1	N	<0.1
Sulfallate	ug/l	0.1	N	<0.1
Sulprofos	ug/l	0.1	N	<0.1
Tebuconazole	ug/l	0.1	N	(278) <0.1
Tebufenpyrad	ug/l	0.1	N	<0.1
Tebupirimiphos	ug/l	0.1	N	<0.1
Tecnazene	ug/l	0.1	N	(278) <0.1
Tefluthrin	ug/l	0.1	N	<0.1
Terbacil	ug/l	0.1	N	<0.1
Terbufos	ug/l	0.1	N	<0.1
Terbumeton	ug/l	0.1	N	(278) <0.1
Terbuthylazine	ug/l	0.1	N	<0.1
Terbutryn	ug/l	0.1	N	(278) <0.1
Tetrachlorvinphos	ug/l	0.1	N	<0.1
Tetraconazole	ug/l	0.1	N	<0.1
Tetradifon	ug/l	0.1	N	<0.1
tetraethyl dithiopyrophosphate	ug/l	0.1	N	<0.1
Tetramethrin	ug/l	0.1	N	<0.1
Tetrasul	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Thiamethoxam	ug/l	0.1	N	<0.1
Thiobencarb	ug/l	0.1	N	<0.1
Tolclofos-methyl	ug/l	0.1	N	<0.1
Triadimefon	ug/l	0.1	N	<0.1
Triadimenol	ug/l	0.1	N	(278) <0.1
Triallate	ug/l	0.1	N	<0.1
Triazamate	ug/l	0.1	N	<0.1
Triazophos	ug/l	0.1	N	<0.1
Trifloxystrobin	ug/l	0.1	N	<0.1
Triflumizole	ug/l	0.1	N	(278) <0.1
Trifluralin	ug/l	0.1	N	<0.1
Vinclozolin	ug/l	0.1	N	<0.1
Vinclozolin metabolite 3,5-Dichloroaniline	ug/l	0.1	N	(278) <0.1

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MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
2-(1-Naphthyl)acetamide	ug/l	0.1	N	<0.1
3-hydroxycarbofuran	ug/l	0.1	N	<0.1
6-Benzyladenine	ug/l	0.1	N	<0.1
Acephate	ug/l	0.1	N	<0.1
Acetamiprid	ug/l	0.1	N	<0.1
Acibenzolar-S-methyl	ug/l	0.1	N	<0.1
Aldicarb	ug/l	0.1	N	<0.1
Aldicarb sulphone	ug/l	0.1	N	<0.1
Aldicarb sulphoxide	ug/l	0.1	N	<0.1
Aminocarb	ug/l	0.1	N	<0.1
Azadirachtin	ug/l	0.1	N	<0.1
Azinphos ethyl	ug/l	0.1	N	<0.1
Azinphos methyl	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Bendiocarb	ug/l	0.1	N	<0.1
Benfuracarb	ug/l	0.1	N	(278) <0.1
Butralin	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbendazim	ug/l	0.1	N	(278) <0.1
Carbetamide	ug/l	0.1	N	<0.1
Carbofuran	ug/l	0.1	N	<0.1
Carbosulfan	ug/l	0.1	N	(278) <0.1
Carpropamid	ug/l	0.1	N	<0.1
Chinomethionat	ug/l	0.1	N	<0.1
Chlorantraniliprole	ug/l	0.1	N	<0.1
Chlorbromuron	ug/l	0.1	N	<0.1
Chlorfluazuron	ug/l	0.1	N	<0.1
Chloridazon	ug/l	0.1	N	<0.1
Chlorotoluron	ug/l	0.1	N	<0.1
Clofentezine	ug/l	0.1	N	<0.1
Clothianidin	ug/l	0.1	N	<0.1
Cyanazine	ug/l	0.1	N	<0.1
Cyazofamid	ug/l	0.1	N	<0.1
Cycluron	ug/l	0.1	N	<0.1
Cymoxanil	ug/l	0.1	N	<0.1
Cythioate	ug/l	0.1	N	<0.1
Demeton	ug/l	0.1	N	<0.1
Demeton-s-methyl	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Demeton-s-methyl sulphone	ug/l	0.1	N	<0.1
Dichlofluanid	ug/l	0.1	N	<0.1
Dicrotophos	ug/l	0.1	N	<0.1
Diethofencarb	ug/l	0.1	N	<0.1
Diflubenzuron	ug/l	0.1	N	<0.1
Dimefuron	ug/l	0.1	N	<0.1
Dimethoate	ug/l	0.1	N	<0.1
Diniconazole	ug/l	0.1	N	<0.1
Dinotefuran	ug/l	0.1	N	<0.1
Dioxacarb	ug/l	0.1	N	<0.1
Disulfoton sulfoxide	ug/l	0.1	N	<0.1
Disulfoton sulphone	ug/l	0.1	N	<0.1
Diuron	ug/l	0.1	N	<0.1
DMSA	ug/l	0.1	N	<0.1
DMST	ug/l	0.1	N	<0.1
Dodemorph	ug/l	0.1	N	(278) <0.1
Dodine	ug/l	0.1	N	<0.1
Emamectin	ug/l	0.1	N	<0.1
Ethidimuron	ug/l	0.1	N	<0.1
Ethiofencarb	ug/l	0.1	N	<0.1
Ethiofencarb sulfone	ug/l	0.1	N	<0.1
Ethiofencarb sulfoxide	ug/l	0.1	N	<0.1
Ethiprole	ug/l	0.1	N	<0.1
Ethirimol	ug/l	0.1	N	<0.1
Fenamiphos sulfone	ug/l	0.1	N	<0.1
Fenamiphos sulfoxide	ug/l	0.1	N	<0.1
Fenazaquin	ug/l	0.1	N	<0.1
Fenchlorphos oxon	ug/l	0.1	N	<0.1
Fenhexamid	ug/l	0.1	N	<0.1
Fenoxycarb	ug/l	0.1	N	<0.1
Fenpropidin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenpyroximate	ug/l	0.1	N	<0.1
Fenthion Sulphone	ug/l	0.1	N	<0.1
Fenthion Sulphoxide	ug/l	0.1	N	<0.1
Fenuron	ug/l	0.1	N	<0.1
Flonicamid	ug/l	0.1	N	<0.1
Fluazinam	ug/l	0.1	N	<0.1

Report Number : 863842 010
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Surface Water
Date Sampled : 28-MAY-2020
Customer Reference : S1
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Flufenoxuron	ug/l	0.1	N	<0.1
Fluometuron	ug/l	0.1	N	<0.1
Fluopicolide	ug/l	0.1	N	<0.1
Fluorochloridone	ug/l	0.1	N	<0.1
Fluoxastrobin	ug/l	0.1	N	<0.1
Flurtamone	ug/l	0.1	N	<0.1
Flutriafol	ug/l	0.1	N	<0.1
Forchlorfenuron	ug/l	0.1	N	<0.1
Fosthiasate	ug/l	0.1	N	<0.1
Fuberidazole	ug/l	0.1	N	<0.1
Furathiocarb	ug/l	0.1	N	<0.1
Hexaflumuron	ug/l	0.1	N	<0.1
Hexythiazox	ug/l	0.1	N	<0.1
Imazalil	ug/l	0.1	N	(278) <0.1
Imibenconazole	ug/l	0.1	N	<0.1
Imidacloprid	ug/l	0.1	N	<0.1
Indoxacarb	ug/l	0.1	N	<0.1
Iprovalicarb	ug/l	0.1	N	<0.1
Isoprocarb	ug/l	0.1	N	<0.1
Isoproturon	ug/l	0.1	N	<0.1
Isoxaben	ug/l	0.1	N	<0.1
Karbutilate	ug/l	0.1	N	<0.1
Linuron	ug/l	0.1	N	<0.1
Lufenuron	ug/l	0.1	N	<0.1
Malaoxon	ug/l	0.1	N	<0.1
Mandipropamid	ug/l	0.1	N	<0.1
Mefenacet	ug/l	0.1	N	<0.1
Metamitron	ug/l	0.1	N	<0.1
Metconazole	ug/l	0.1	N	<0.1
Methabenzthiazuron	ug/l	0.1	N	<0.1
Methamidophos	ug/l	0.1	N	<0.1
Methiocarb	ug/l	0.1	N	<0.1
Methiocarb Sulfone	ug/l	0.1	N	<0.1
Methiocarb Sulfoxide	ug/l	0.1	N	<0.1
Methomyl	ug/l	0.1	N	<0.1
Methoxyfenozide	ug/l	0.1	N	<0.1
Metobromuron	ug/l	0.1	N	<0.1
Metoxuron	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Monocrotophos	ug/l	0.1	N	<0.1
Monolinuron	ug/l	0.1	N	<0.1
Monuron	ug/l	0.1	N	<0.1
Neburon	ug/l	0.1	N	<0.1
Nicotine	ug/l	1.0	N	(278, 62) <1.0
Nitenpyram	ug/l	0.1	N	<0.1
Novaluron	ug/l	0.1	N	<0.1
Omethoate	ug/l	0.1	N	<0.1
Oxadiargyl	ug/l	0.1	N	<0.1
Oxamyl	ug/l	0.1	N	<0.1
Oxycarboxin	ug/l	0.1	N	<0.1
Oxydemeton-Methyl	ug/l	0.1	N	<0.1
Pencycuron	ug/l	0.1	N	<0.1
Phorate sulfone	ug/l	0.1	N	<0.1
Phorate sulfoxide	ug/l	0.1	N	<0.1
Phosmet	ug/l	0.1	N	<0.1
Phosphamidon	ug/l	0.1	N	<0.1
Phoxim	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	<0.1
Prochloraz	ug/l	0.1	N	<0.1
Promecarb	ug/l	0.1	N	<0.1
Propamocarb	ug/l	0.1	N	<0.1
Propaquizafop	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	<0.1
Propoxur	ug/l	0.1	N	<0.1
Pymetrozine	ug/l	0.1	N	<0.1
Pyrifenox	ug/l	0.1	N	<0.1
Resmethrin	ug/l	0.1	N	<0.1
Rotenone	ug/l	0.1	N	<0.1
Spinosad	ug/l	0.1	N	<0.1
Spirodiclofen	ug/l	0.1	N	<0.1
Spiromesifen	ug/l	0.1	N	<0.1
Spiroxamine	ug/l	0.1	N	<0.1
Tebufenozide	ug/l	0.1	N	<0.1
Teflubenzuron	ug/l	0.1	N	<0.1
Temephos	ug/l	0.1	N	<0.1
Terbufos sulfone	ug/l	0.1	N	<0.1
Terbufos sulfoxide	ug/l	0.1	N	<0.1

Report Number : 863842 010
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Surface Water
Date Sampled : 28-MAY-2020
Customer Reference : S1
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Thiabendazole	ug/l	0.1	N	<0.1
Thiacloprid	ug/l	0.1	N	<0.1
Thiazafluron	ug/l	0.1	N	<0.1
Thiodicarb	ug/l	0.1	N	<0.1
Thiofanox	ug/l	0.1	N	<0.1
Thiophanate Methyl	ug/l	0.1	N	<0.1
Tolylfluanid	ug/l	0.1	N	<0.1
Trichlorfon	ug/l	0.1	N	<0.1
Tridemorph	ug/l	0.1	N	<0.1
Trifloxysulfuron	ug/l	0.1	N	<0.1
Triflumuron	ug/l	0.1	N	<0.1
Triflusulfuron-methyl	ug/l	0.1	N	<0.1
Triticonazole	ug/l	0.1	N	<0.1
Vamidothion	ug/l	0.1	N	<0.1
Vernolate	ug/l	0.1	N	<0.1
Zoxamide	ug/l	0.1	N	<0.1

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Certificate of Analysis

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CB23 8UD
Tel : 01954 782791
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Report Number : 863842 011
Date of Issue : 04-Jun-2020

Customer : Pam Brown Associates
Contact : Dr Melissa Morales
Address : 2 Needwood House, Lancaster Park, Newborough Road, Needwood Burton on Trent, DE13 9PD

Samples Received : 29-May-2020
Analysis Started : 01-Jun-2020
Concept Job Reference : 863842-1
Analysis Requested : MRPS by GC (CSOPP611), MRPS by LC (CSOPP603)
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : BH22
Location : Wheathampstead
Sample Description : Water

Results Summary

Analyte	Level Found	Units	LOD	EU MRL mg/kg	CODEX MRL mg/kg	Symbol
MRPS by GC (CSOPP611)						
Fenson	**0.1**	ug/l	0.1			N
MRPS by LC (CSOPP603)	**No residue detected above the limit of detection.**					

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.
Customers are responsible for information provided where, if incorrect, it could affect the validity of the results.
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 Concept Life Sciences SOPs
All results have been reviewed in accordance with QMSection 15 of the Concept Life Sciences, Analytical Services Quality Manual
All samples prepared in accordance with the CODEX alimentarius

Report checked
and authorised by :
Matt Line
Section Manager - Pesticides

Issued by :
Mr Mark Obrien
Customer Service Manager Mark O'Brien

Index to symbols used in this report

Value	Description
3	LOD Raised Due to Elevated Blank
62	LOD was raised due to the method performance of the analytical procedure used
147	Result has been Recovery corrected.
13	Results have been blank corrected.
278	Data reported is qualitative as recovery is outside the 60 to 140% range
N	Analysis is not UKAS accredited

Report Number : 863842 011
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : BH22
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
2,4,6-Trichlorophenol	ug/l	0.1	N	<0.1
2-Phenylphenol	ug/l	0.1	N	<0.1
Acetochlor	ug/l	0.1	N	<0.1
Aclonifen	ug/l	0.1	N	(278) <0.1
Acrinathrin	ug/l	0.1	N	(278) <0.1
Alachlor	ug/l	0.1	N	<0.1
Aldrin	ug/l	0.1	N	<0.1
Ametryn	ug/l	0.1	N	(278) <0.1
Atraton	ug/l	0.1	N	(278) <0.1
Atrazine	ug/l	0.1	N	<0.1
Azaconazole	ug/l	0.1	N	<0.1
Azobenzene	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Benalaxyl	ug/l	0.1	N	<0.1
Benfluralin	ug/l	0.1	N	<0.1
Bifenox	ug/l	0.1	N	<0.1
Bifenthrin	ug/l	0.1	N	<0.1
Binapacryl	ug/l	0.1	N	(278) <0.1
Biphenyl	ug/l	0.5	N	(278, 3) <0.5
Bitertanol	ug/l	0.1	N	(278) <0.1
Boscalid	ug/l	0.1	N	<0.1
Bromacil	ug/l	0.1	N	<0.1
Bromophos	ug/l	0.1	N	<0.1
Bromophos-Ethyl	ug/l	0.1	N	<0.1
Bromopropylate	ug/l	0.1	N	<0.1
Bupirimate	ug/l	0.1	N	(278) <0.1
Buprofezine	ug/l	0.1	N	<0.1
Butachlor	ug/l	0.1	N	<0.1
Cadusafos	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbophenothion	ug/l	0.1	N	<0.1
Carboxine	ug/l	0.1	N	(278) <0.1
Carfentrazone Ethyl	ug/l	0.1	N	(278) <0.1
Chlorobenzilate	ug/l	0.1	N	<0.1
Chlordane (sum of cis and trans isomers)	ug/l	0.1	N	(278) <0.1
Chlordimeform	ug/l	0.1	N	(278) <0.1
Chlorethoxyfos	ug/l	0.1	N	<0.1
Chlorfenapyr	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Chlorfenvinphos	ug/l	0.1	N	<0.1
Chlormephos	ug/l	0.1	N	<0.1
Chloropropylate	ug/l	0.1	N	<0.1
Chlorothalonil	ug/l	0.1	N	<0.1
Chlorpropham	ug/l	0.1	N	<0.1
Chlorpyrifos	ug/l	0.1	N	<0.1
Chlorpyrifos methyl	ug/l	0.1	N	<0.1
Chlorthal Dimethyl	ug/l	0.1	N	<0.1
Chlorthion	ug/l	0.1	N	<0.1
Chlorthiophos	ug/l	0.1	N	<0.1
Chlozolinate	ug/l	0.1	N	(278) <0.1
Clodinafop Propargyl	ug/l	0.1	N	(278) <0.1
Clomazone	ug/l	0.1	N	<0.1
Cloquintocet mexyl	ug/l	0.1	N	<0.1
Coumaphos	ug/l	0.1	N	(278) <0.1
Cyflufenamid	ug/l	0.1	N	<0.1
Cyfluthrin	ug/l	0.1	N	<0.1
Cypermethrin	ug/l	0.1	N	<0.1
Cyphenothrin	ug/l	0.1	N	<0.1
Cyproconazole	ug/l	0.1	N	(278) <0.1
Cyprodinil	ug/l	0.1	N	(278) <0.1
Deltamethrin	ug/l	0.1	N	<0.1
Desmetryn	ug/l	0.1	N	(278) <0.1
Diafenthiuron	ug/l	0.1	N	(278) <0.1
Dialifos	ug/l	0.1	N	<0.1
Diazinon	ug/l	0.1	N	<0.1
Dichlobenil	ug/l	0.1	N	<0.1
Dichlofenthion	ug/l	0.1	N	<0.1
Dichlorvos	ug/l	0.1	N	<0.1
Diclobutrazol	ug/l	0.1	N	<0.1
Dicloran	ug/l	0.1	N	<0.1
Dicofol	ug/l	0.1	N	(278) <0.1
Dieldrin	ug/l	0.1	N	<0.1
Difenoconazole	ug/l	0.1	N	<0.1
Diflufenican	ug/l	0.1	N	<0.1
Dimethenamid	ug/l	0.1	N	<0.1
Dimethomorph	ug/l	0.1	N	<0.1
Dimoxystrobin	ug/l	0.1	N	<0.1

Report Number : 863842 011
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : BH22
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Dioxabenzofos	ug/l	0.1	N	<0.1
Diphenamid	ug/l	0.1	N	<0.1
Diphenylamine	ug/l	0.1	N	<0.1
Disulfoton	ug/l	0.1	N	<0.1
Ditalimfos	ug/l	0.1	N	<0.1
Edifenphos	ug/l	0.1	N	<0.1
Endosulphan alpha	ug/l	0.1	N	<0.1
Endosulphan beta	ug/l	0.1	N	<0.1
Endosulphan sulphate	ug/l	0.1	N	<0.1
Endrin	ug/l	0.1	N	<0.1
EPN	ug/l	0.1	N	(278) <0.1
Epoxiconazole	ug/l	0.1	N	<0.1
EPTC	ug/l	0.1	N	<0.1
Etaconazole	ug/l	0.1	N	<0.1
Ethion	ug/l	0.1	N	<0.1
Ethofumesate	ug/l	0.1	N	<0.1
Ethoprophos	ug/l	0.1	N	<0.1
Ethoxyquin	ug/l	0.1	N	<0.1
Etofenprox	ug/l	0.1	N	<0.1
Etoxazole	ug/l	0.1	N	<0.1
Etridiazole	ug/l	0.1	N	(278) <0.1
Etrimfos	ug/l	0.1	N	<0.1
Famoxadone	ug/l	0.1	N	<0.1
Famphur	ug/l	0.1	N	<0.1
Fenamidone	ug/l	0.1	N	<0.1
Fenamiphos	ug/l	0.1	N	<0.1
Fenarimol	ug/l	0.1	N	<0.1
Fenbuconazole	ug/l	0.1	N	<0.1
Fenchlorphos	ug/l	0.1	N	<0.1
Fenitrothion	ug/l	0.1	N	<0.1
Fenpiclonil	ug/l	0.1	N	<0.1
Fenpropathrin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenson	**ug/l**	**0.1**	**N**	**0.1**
Fensulfothion	ug/l	0.1	N	<0.1
Fenthion	ug/l	0.1	N	<0.1
Fenvalerate	ug/l	0.1	N	<0.1
Fipronil	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Fipronil sulphone	ug/l	0.1	N	<0.1
Flamprop isopropyl	ug/l	0.1	N	<0.1
Fluazifop-P-Butyl	ug/l	0.1	N	<0.1
Flucythrinate	ug/l	0.1	N	<0.1
Fludioxonil	ug/l	0.1	N	<0.1
Flufenacet	ug/l	0.1	N	<0.1
Flumetralin	ug/l	0.1	N	<0.1
Flumioxazin	ug/l	0.1	N	(278) <0.1
Flumorph	ug/l	0.1	N	<0.1
Fluopyram	ug/l	0.1	N	<0.1
Fluquinconazole	ug/l	0.1	N	<0.1
Fluroxypyr-1-methylheptyl ester	ug/l	0.1	N	<0.1
Flusilazole	ug/l	0.1	N	<0.1
Flutolanil	ug/l	0.1	N	<0.1
Fluxapyroxad	ug/l	0.1	N	<0.1
Fonophos	ug/l	0.1	N	<0.1
Formothion	ug/l	0.1	N	(278) <0.1
Furalaxyl	ug/l	0.1	N	<0.1
Haloxyfop etotyl	ug/l	0.1	N	<0.1
Haloxyfop Methyl	ug/l	0.1	N	<0.1
Heptachlor	ug/l	0.1	N	<0.1
Heptachlor epoxide	ug/l	0.1	N	<0.1
Heptachlor exo Epoxide	ug/l	0.1	N	<0.1
Heptenophos	ug/l	0.1	N	<0.1
Hexachlorobenzene	ug/l	0.1	N	(278) <0.1
Hexachlorocyclohexane (alpha)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (beta)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (delta)	ug/l	0.1	N	<0.1
Hexaconazole	ug/l	0.1	N	(278) <0.1
Hexazinone	ug/l	0.1	N	<0.1
Iodofenphos	ug/l	0.1	N	<0.1
Iprodione	ug/l	0.1	N	(278) <0.1
Isazofos	ug/l	0.1	N	<0.1
Isocarbophos	ug/l	0.1	N	<0.1
Isodrin	ug/l	0.1	N	<0.1
Isofenphos	ug/l	0.1	N	<0.1
Isofenphos Methyl	ug/l	0.1	N	<0.1
Isomethiozin	ug/l	0.1	N	<0.1

Report Number : 863842 011
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : BH22
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Isoprothiolane	ug/l	0.1	N	<0.1
Isopyrazam	ug/l	0.1	N	<0.1
Kresoxim Methyl	ug/l	0.1	N	<0.1
Lambda Cyhalothrin	ug/l	0.1	N	<0.1
Lenacil	ug/l	0.1	N	<0.1
Leptophos	ug/l	0.1	N	<0.1
Lindane	ug/l	0.1	N	<0.1
Malathion	ug/l	0.1	N	<0.1
MCPA-thioethyl	ug/l	0.1	N	<0.1
Mecarbam	ug/l	0.1	N	(278) <0.1
Mepanipyrim	ug/l	0.1	N	(278) <0.1
Mephosfolan	ug/l	0.1	N	<0.1
Mepronil	ug/l	0.1	N	<0.1
Metalaxyl	ug/l	0.1	N	<0.1
Metazachlor	ug/l	0.1	N	<0.1
Methacrifos	ug/l	0.1	N	<0.1
Methidathion	ug/l	0.1	N	<0.1
Methoxychlor	ug/l	0.1	N	<0.1
Methyl Paraoxon	ug/l	0.1	N	(278) <0.1
Metolachlor	ug/l	0.1	N	<0.1
Metolcarb	ug/l	0.1	N	<0.1
Metrafenone	ug/l	0.1	N	<0.1
Metribuzin	ug/l	0.1	N	<0.1
Mevinphos	ug/l	0.1	N	<0.1
Mirex	ug/l	0.1	N	<0.1
Molinate	ug/l	0.1	N	<0.1
Myclobutanil	ug/l	0.1	N	<0.1
Napropamide	ug/l	0.1	N	<0.1
Nitrofen	ug/l	0.1	N	<0.1
Nitrothal isopropyl	ug/l	0.1	N	<0.1
Nuarimol	ug/l	0.1	N	<0.1
o,p'-DDT	ug/l	0.1	N	<0.1
o,p-DDD	ug/l	0.1	N	<0.1
o,p-DDE	ug/l	0.1	N	<0.1
Octylisothiazolon	ug/l	0.1	N	<0.1
Ofurace	ug/l	0.1	N	<0.1
Orysastrobin	ug/l	0.1	N	<0.1
Oxadiazon	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Oxadixyl	ug/l	0.1	N	<0.1
Oxyfluorfen	ug/l	0.1	N	(278) <0.1
p,p-DDD	ug/l	0.1	N	<0.1
p,p-DDE	ug/l	0.1	N	<0.1
p,p-DDT	ug/l	0.1	N	<0.1
Paclobutrazol	ug/l	0.1	N	<0.1
Paraoxon	ug/l	0.1	N	<0.1
Parathion	ug/l	0.1	N	<0.1
Parathion methyl	ug/l	0.1	N	<0.1
Penconazole	ug/l	0.1	N	<0.1
Pendimethalin	ug/l	0.1	N	<0.1
Pentachloroaniline	ug/l	0.1	N	<0.1
Pentachlorophenol	ug/l	0.1	N	(278) <0.1
Pentanochlor	ug/l	0.1	N	<0.1
Permethrin	ug/l	0.1	N	<0.1
Pethoxamid	ug/l	0.1	N	<0.1
Phenothrin	ug/l	0.1	N	<0.1
Phenthoate	ug/l	0.1	N	<0.1
Phorate	ug/l	0.1	N	<0.1
Phosalone	ug/l	0.1	N	<0.1
Phosfolan	ug/l	0.1	N	<0.1
Picoxystrobin	ug/l	0.1	N	<0.1
Piperonyl Butoxide	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	(278) <0.1
Pirimiphos Ethyl	ug/l	0.1	N	<0.1
Pirimiphos methyl	ug/l	0.1	N	<0.1
Pretilachlor	ug/l	0.1	N	<0.1
Procymidone	ug/l	0.1	N	<0.1
Profenofos	ug/l	0.1	N	<0.1
Prometon	ug/l	0.1	N	(278) <0.1
Prometryn	ug/l	0.1	N	(278) <0.1
Propachlor	ug/l	0.1	N	<0.1
Propanil	ug/l	0.1	N	<0.1
Propaphos	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	(278) <0.1
Propazine	ug/l	0.1	N	<0.1
Propetamphos	ug/l	0.1	N	<0.1
Propham	ug/l	0.1	N	<0.1

Report Number : 863842 011
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : BH22
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Propiconazole	ug/l	0.1	N	<0.1
Propyzamide	ug/l	0.1	N	<0.1
Proquinazid	ug/l	0.1	N	<0.1
Prosulfocarb	ug/l	0.1	N	<0.1
Prothiofos	ug/l	0.1	N	<0.1
Pyraclostrobin	ug/l	0.1	N	(278) <0.1
Pyraflufen ethyl	ug/l	0.1	N	<0.1
Pyrazophos	ug/l	0.1	N	<0.1
Pyridaben	ug/l	0.1	N	<0.1
Pyridaphenthion	ug/l	0.1	N	<0.1
Pyrimethanil	ug/l	0.1	N	(278) <0.1
Pyriproxyfen	ug/l	0.1	N	<0.1
Quinalphos	ug/l	0.1	N	<0.1
Quinoxyfen	ug/l	0.1	N	<0.1
Quintozene	ug/l	0.1	N	<0.1
Quizalofop-ethyl	ug/l	0.1	N	<0.1
Secbumeton	ug/l	0.1	N	(278) <0.1
Silafluofen	ug/l	0.1	N	<0.1
Simazine	ug/l	0.1	N	<0.1
Simeconazole	ug/l	0.1	N	<0.1
Sulfallate	ug/l	0.1	N	<0.1
Sulprofos	ug/l	0.1	N	<0.1
Tebuconazole	ug/l	0.1	N	(278) <0.1
Tebufenpyrad	ug/l	0.1	N	<0.1
Tebupirimiphos	ug/l	0.1	N	<0.1
Tecnazene	ug/l	0.1	N	(278) <0.1
Tefluthrin	ug/l	0.1	N	<0.1
Terbacil	ug/l	0.1	N	<0.1
Terbufos	ug/l	0.1	N	<0.1
Terbumeton	ug/l	0.1	N	(278) <0.1
Terbuthylazine	ug/l	0.1	N	<0.1
Terbutryn	ug/l	0.1	N	(278) <0.1
Tetrachlorvinphos	ug/l	0.1	N	<0.1
Tetraconazole	ug/l	0.1	N	<0.1
Tetradifon	ug/l	0.1	N	<0.1
tetraethyl dithiopyrophosphate	ug/l	0.1	N	<0.1
Tetramethrin	ug/l	0.1	N	<0.1
Tetrasul	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Thiamethoxam	ug/l	0.1	N	<0.1
Thiobencarb	ug/l	0.1	N	<0.1
Tolclofos-methyl	ug/l	0.1	N	<0.1
Triadimefon	ug/l	0.1	N	<0.1
Triadimenol	ug/l	0.1	N	(278) <0.1
Triallate	ug/l	0.1	N	<0.1
Triazamate	ug/l	0.1	N	<0.1
Triazophos	ug/l	0.1	N	<0.1
Trifloxystrobin	ug/l	0.1	N	<0.1
Triflumizole	ug/l	0.1	N	(278) <0.1
Trifluralin	ug/l	0.1	N	<0.1
Vinclozolin	ug/l	0.1	N	<0.1
Vinclozolin metabolite 3,5-Dichloroaniline	ug/l	0.1	N	(278) <0.1

Report Number : 863842 011
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : BH22
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
2-(1-Naphthyl)acetamide	ug/l	0.1	N	<0.1
3-hydroxycarbofuran	ug/l	0.1	N	<0.1
6-Benzyladenine	ug/l	0.1	N	<0.1
Acephate	ug/l	0.1	N	<0.1
Acetamiprid	ug/l	0.1	N	<0.1
Acibenzolar-S-methyl	ug/l	0.1	N	<0.1
Aldicarb	ug/l	0.1	N	<0.1
Aldicarb sulphone	ug/l	0.1	N	<0.1
Aldicarb sulphoxide	ug/l	0.1	N	<0.1
Aminocarb	ug/l	0.1	N	<0.1
Azadirachtin	ug/l	0.1	N	<0.1
Azinphos ethyl	ug/l	0.1	N	<0.1
Azinphos methyl	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Bendiocarb	ug/l	0.1	N	<0.1
Benfuracarb	ug/l	0.1	N	(278) <0.1
Butralin	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbendazim	ug/l	0.1	N	(278) <0.1
Carbetamide	ug/l	0.1	N	<0.1
Carbofuran	ug/l	0.1	N	<0.1
Carbosulfan	ug/l	0.1	N	(278) <0.1
Carpropamid	ug/l	0.1	N	<0.1
Chinomethionat	ug/l	0.1	N	<0.1
Chlorantraniliprole	ug/l	0.1	N	<0.1
Chlorbromuron	ug/l	0.1	N	<0.1
Chlorfluazuron	ug/l	0.1	N	<0.1
Chloridazon	ug/l	0.1	N	<0.1
Chlorotoluron	ug/l	0.1	N	<0.1
Clofentezine	ug/l	0.1	N	<0.1
Clothianidin	ug/l	0.1	N	<0.1
Cyanazine	ug/l	0.1	N	<0.1
Cyazofamid	ug/l	0.1	N	<0.1
Cycluron	ug/l	0.1	N	<0.1
Cymoxanil	ug/l	0.1	N	<0.1
Cythioate	ug/l	0.1	N	<0.1
Demeton	ug/l	0.1	N	<0.1
Demeton-s-methyl	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Demeton-s-methyl sulphone	ug/l	0.1	N	<0.1
Dichlofluanid	ug/l	0.1	N	<0.1
Dicrotophos	ug/l	0.1	N	<0.1
Diethofencarb	ug/l	0.1	N	<0.1
Diflubenzuron	ug/l	0.1	N	<0.1
Dimefuron	ug/l	0.1	N	<0.1
Dimethoate	ug/l	0.1	N	<0.1
Diniconazole	ug/l	0.1	N	<0.1
Dinotefuran	ug/l	0.1	N	<0.1
Dioxacarb	ug/l	0.1	N	<0.1
Disulfoton sulfoxide	ug/l	0.1	N	<0.1
Disulfoton sulphone	ug/l	0.1	N	<0.1
Diuron	ug/l	0.1	N	<0.1
DMSA	ug/l	0.1	N	<0.1
DMST	ug/l	0.1	N	<0.1
Dodemorph	ug/l	0.1	N	(278) <0.1
Dodine	ug/l	0.1	N	<0.1
Emamectin	ug/l	0.1	N	<0.1
Ethidimuron	ug/l	0.1	N	<0.1
Ethiofencarb	ug/l	0.1	N	<0.1
Ethiofencarb sulfone	ug/l	0.1	N	<0.1
Ethiofencarb sulfoxide	ug/l	0.1	N	<0.1
Ethiprole	ug/l	0.1	N	<0.1
Ethirimol	ug/l	0.1	N	<0.1
Fenamiphos sulfone	ug/l	0.1	N	<0.1
Fenamiphos sulfoxide	ug/l	0.1	N	<0.1
Fenazaquin	ug/l	0.1	N	<0.1
Fenchlorphos oxon	ug/l	0.1	N	<0.1
Fenhexamid	ug/l	0.1	N	<0.1
Fenoxycarb	ug/l	0.1	N	<0.1
Fenpropidin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenpyroximate	ug/l	0.1	N	<0.1
Fenthion Sulphone	ug/l	0.1	N	<0.1
Fenthion Sulphoxide	ug/l	0.1	N	<0.1
Fenuron	ug/l	0.1	N	<0.1
Flonicamid	ug/l	0.1	N	<0.1
Fluazinam	ug/l	0.1	N	<0.1

Report Number : 863842 011
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : BH22
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Flufenoxuron	ug/l	0.1	N	<0.1
Fluometuron	ug/l	0.1	N	<0.1
Fluopicolide	ug/l	0.1	N	<0.1
Fluorochloridone	ug/l	0.1	N	<0.1
Fluoxastrobin	ug/l	0.1	N	<0.1
Flurtamone	ug/l	0.1	N	<0.1
Flutriafol	ug/l	0.1	N	<0.1
Forchlorfenuron	ug/l	0.1	N	<0.1
Fosthiasate	ug/l	0.1	N	<0.1
Fuberidazole	ug/l	0.1	N	<0.1
Furathiocarb	ug/l	0.1	N	<0.1
Hexaflumuron	ug/l	0.1	N	<0.1
Hexythiazox	ug/l	0.1	N	<0.1
Imazalil	ug/l	0.1	N	(278) <0.1
Imibenconazole	ug/l	0.1	N	<0.1
Imidacloprid	ug/l	0.1	N	<0.1
Indoxacarb	ug/l	0.1	N	<0.1
Iprovalicarb	ug/l	0.1	N	<0.1
Isoprocarb	ug/l	0.1	N	<0.1
Isoproturon	ug/l	0.1	N	<0.1
Isoxaben	ug/l	0.1	N	<0.1
Karbutilate	ug/l	0.1	N	<0.1
Linuron	ug/l	0.1	N	<0.1
Lufenuron	ug/l	0.1	N	<0.1
Malaoxon	ug/l	0.1	N	<0.1
Mandipropamid	ug/l	0.1	N	<0.1
Mefenacet	ug/l	0.1	N	<0.1
Metamitron	ug/l	0.1	N	<0.1
Metconazole	ug/l	0.1	N	<0.1
Methabenzthiazuron	ug/l	0.1	N	<0.1
Methamidophos	ug/l	0.1	N	<0.1
Methiocarb	ug/l	0.1	N	<0.1
Methiocarb Sulfone	ug/l	0.1	N	<0.1
Methiocarb Sulfoxide	ug/l	0.1	N	<0.1
Methomyl	ug/l	0.1	N	<0.1
Methoxyfenozide	ug/l	0.1	N	<0.1
Metobromuron	ug/l	0.1	N	<0.1
Metoxuron	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Monocrotophos	ug/l	0.1	N	<0.1
Monolinuron	ug/l	0.1	N	<0.1
Monuron	ug/l	0.1	N	<0.1
Neburon	ug/l	0.1	N	<0.1
Nicotine	ug/l	1.0	N	(278, 62) <1.0
Nitenpyram	ug/l	0.1	N	<0.1
Novaluron	ug/l	0.1	N	<0.1
Omethoate	ug/l	0.1	N	<0.1
Oxadiargyl	ug/l	0.1	N	<0.1
Oxamyl	ug/l	0.1	N	<0.1
Oxycarboxin	ug/l	0.1	N	<0.1
Oxydemeton-Methyl	ug/l	0.1	N	<0.1
Pencycuron	ug/l	0.1	N	<0.1
Phorate sulfone	ug/l	0.1	N	<0.1
Phorate sulfoxide	ug/l	0.1	N	<0.1
Phosmet	ug/l	0.1	N	<0.1
Phosphamidon	ug/l	0.1	N	<0.1
Phoxim	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	<0.1
Prochloraz	ug/l	0.1	N	<0.1
Promecarb	ug/l	0.1	N	<0.1
Propamocarb	ug/l	0.1	N	<0.1
Propaquizafop	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	<0.1
Propoxur	ug/l	0.1	N	<0.1
Pymetrozine	ug/l	0.1	N	<0.1
Pyrifenox	ug/l	0.1	N	<0.1
Resmethrin	ug/l	0.1	N	<0.1
Rotenone	ug/l	0.1	N	<0.1
Spinosad	ug/l	0.1	N	<0.1
Spirodiclofen	ug/l	0.1	N	<0.1
Spiromesifen	ug/l	0.1	N	<0.1
Spiroxamine	ug/l	0.1	N	<0.1
Tebufenozide	ug/l	0.1	N	<0.1
Teflubenzuron	ug/l	0.1	N	<0.1
Temephos	ug/l	0.1	N	<0.1
Terbufos sulfone	ug/l	0.1	N	<0.1
Terbufos sulfoxide	ug/l	0.1	N	<0.1

Report Number : 863842 011
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : BH22
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Thiabendazole	ug/l	0.1	N	<0.1
Thiacloprid	ug/l	0.1	N	<0.1
Thiazafluron	ug/l	0.1	N	<0.1
Thiodicarb	ug/l	0.1	N	<0.1
Thiofanox	ug/l	0.1	N	<0.1
Thiophanate Methyl	ug/l	0.1	N	<0.1
Tolylfluanid	ug/l	0.1	N	<0.1
Trichlorfon	ug/l	0.1	N	<0.1
Tridemorph	ug/l	0.1	N	<0.1
Trifloxysulfuron	ug/l	0.1	N	<0.1
Triflumuron	ug/l	0.1	N	<0.1
Triflusulfuron-methyl	ug/l	0.1	N	<0.1
Triticonazole	ug/l	0.1	N	<0.1
Vamidothion	ug/l	0.1	N	<0.1
Vernolate	ug/l	0.1	N	<0.1
Zoxamide	ug/l	0.1	N	<0.1

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Certificate of Analysis

Unit 2
The Links
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CB23 8UD
Tel : 01954 782791
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Report Number : 863842 012
Date of Issue : 04-Jun-2020

Customer : Pam Brown Associates
Contact : Dr Melissa Morales
Address : 2 Needwood House, Lancaster Park, Newborough Road, Needwood Burton on Trent, DE13 9PD

Samples Received : 29-May-2020
Analysis Started : 01-Jun-2020
Concept Job Reference : 863842-1
Analysis Requested : MRPS by GC (CSOPP611), MRPS by LC (CSOPP603)
Variety : Surface Water
Date Sampled : 28-MAY-2020
Customer Reference : S2
Location : Wheathampstead
Sample Description : Water

Results Summary

Analyte	Level Found	Units	LOD	EU MRL mg/kg	CODEX MRL mg/kg	Symbol
MRPS by GC (CSOPP611)	**No residue detected above the limit of detection.**					
MRPS by LC (CSOPP603)	**No residue detected above the limit of detection.**					

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.
Customers are responsible for information provided where, if incorrect, it could affect the validity of the results.
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Tests covered by this certificate were conducted in accordance with Concept Life Sciences SOPs
All results have been reviewed in accordance with QMSection 15 of the Concept Life Sciences, Analytical Services Quality Manual
All samples prepared in accordance with the CODEX alimentarius

Report checked
and authorised by :
Matt Line
Section Manager - Pesticides

Issued by :
Mr Mark Obrien
Customer Service Manager Mark O'Brien

Index to symbols used in this report

Value	Description
3	LOD Raised Due to Elevated Blank
62	LOD was raised due to the method performance of the analytical procedure used
147	Result has been Recovery corrected.
13	Results have been blank corrected.
278	Data reported is qualitative as recovery is outside the 60 to 140% range
N	Analysis is not UKAS accredited

Report Number : 863842 012
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Surface Water
Date Sampled : 28-MAY-2020
Customer Reference : S2
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
2,4,6-Trichlorophenol	ug/l	0.1	N	<0.1
2-Phenylphenol	ug/l	0.1	N	(13) <0.1
Acetochlor	ug/l	0.1	N	<0.1
Aclonifen	ug/l	0.1	N	(278) <0.1
Acrinathrin	ug/l	0.1	N	(278) <0.1
Alachlor	ug/l	0.1	N	<0.1
Aldrin	ug/l	0.1	N	<0.1
Ametryn	ug/l	0.1	N	(278) <0.1
Atraton	ug/l	0.1	N	(278) <0.1
Atrazine	ug/l	0.1	N	<0.1
Azaconazole	ug/l	0.1	N	<0.1
Azobenzene	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Benalaxyl	ug/l	0.1	N	<0.1
Benfluralin	ug/l	0.1	N	<0.1
Bifenox	ug/l	0.1	N	<0.1
Bifenthrin	ug/l	0.1	N	<0.1
Binapacryl	ug/l	0.1	N	(278) <0.1
Biphenyl	ug/l	0.5	N	(278, 3) <0.5
Bitertanol	ug/l	0.1	N	(278) <0.1
Boscalid	ug/l	0.1	N	<0.1
Bromacil	ug/l	0.1	N	<0.1
Bromophos	ug/l	0.1	N	<0.1
Bromophos-Ethyl	ug/l	0.1	N	<0.1
Bromopropylate	ug/l	0.1	N	<0.1
Bupirimate	ug/l	0.1	N	(278) <0.1
Buprofezine	ug/l	0.1	N	<0.1
Butachlor	ug/l	0.1	N	<0.1
Cadusafos	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbophenothion	ug/l	0.1	N	<0.1
Carboxine	ug/l	0.1	N	(278) <0.1
Carfentrazone Ethyl	ug/l	0.1	N	(278) <0.1
Chlorobenzilate	ug/l	0.1	N	<0.1
Chlordane (sum of cis and trans isomers)	ug/l	0.1	N	(278) <0.1
Chlordimeform	ug/l	0.1	N	(278) <0.1
Chlorethoxyfos	ug/l	0.1	N	<0.1
Chlorfenapyr	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Chlorfenvinphos	ug/l	0.1	N	<0.1
Chlormephos	ug/l	0.1	N	<0.1
Chloropropylate	ug/l	0.1	N	<0.1
Chlorothalonil	ug/l	0.1	N	<0.1
Chlorpropham	ug/l	0.1	N	<0.1
Chlorpyrifos	ug/l	0.1	N	<0.1
Chlorpyrifos methyl	ug/l	0.1	N	<0.1
Chlorthal Dimethyl	ug/l	0.1	N	<0.1
Chlorthion	ug/l	0.1	N	<0.1
Chlorthiophos	ug/l	0.1	N	<0.1
Chlozolinate	ug/l	0.1	N	(278) <0.1
Clodinafop Propargyl	ug/l	0.1	N	(278) <0.1
Clomazone	ug/l	0.1	N	<0.1
Cloquintocet mexyl	ug/l	0.1	N	<0.1
Coumaphos	ug/l	0.1	N	(278) <0.1
Cyflufenamid	ug/l	0.1	N	<0.1
Cyfluthrin	ug/l	0.1	N	<0.1
Cypermethrin	ug/l	0.1	N	<0.1
Cyphenothrin	ug/l	0.1	N	<0.1
Cyproconazole	ug/l	0.1	N	(278) <0.1
Cyprodinil	ug/l	0.1	N	(278) <0.1
Deltamethrin	ug/l	0.1	N	<0.1
Desmetryn	ug/l	0.1	N	(278) <0.1
Diafenthiuron	ug/l	0.1	N	(278) <0.1
Dialifos	ug/l	0.1	N	<0.1
Diazinon	ug/l	0.1	N	<0.1
Dichlobenil	ug/l	0.1	N	<0.1
Dichlofenthion	ug/l	0.1	N	<0.1
Dichlorvos	ug/l	0.1	N	<0.1
Diclobutrazol	ug/l	0.1	N	<0.1
Dicloran	ug/l	0.1	N	<0.1
Dicofol	ug/l	0.1	N	(278) <0.1
Dieldrin	ug/l	0.1	N	<0.1
Difenoconazole	ug/l	0.1	N	<0.1
Diflufenican	ug/l	0.1	N	<0.1
Dimethenamid	ug/l	0.1	N	<0.1
Dimethomorph	ug/l	0.1	N	<0.1
Dimoxystrobin	ug/l	0.1	N	<0.1

Report Number : 863842 012
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Surface Water
Date Sampled : 28-MAY-2020
Customer Reference : S2
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Dioxabenzofos	ug/l	0.1	N	<0.1
Diphenamid	ug/l	0.1	N	<0.1
Diphenylamine	ug/l	0.1	N	<0.1
Disulfoton	ug/l	0.1	N	<0.1
Ditalimfos	ug/l	0.1	N	<0.1
Edifenphos	ug/l	0.1	N	<0.1
Endosulphan alpha	ug/l	0.1	N	<0.1
Endosulphan beta	ug/l	0.1	N	<0.1
Endosulphan sulphate	ug/l	0.1	N	<0.1
Endrin	ug/l	0.1	N	<0.1
EPN	ug/l	0.1	N	(278) <0.1
Epoxiconazole	ug/l	0.1	N	<0.1
EPTC	ug/l	0.1	N	<0.1
Etaconazole	ug/l	0.1	N	<0.1
Ethion	ug/l	0.1	N	<0.1
Ethofumesate	ug/l	0.1	N	<0.1
Ethoprophos	ug/l	0.1	N	<0.1
Ethoxyquin	ug/l	0.1	N	<0.1
Etofenprox	ug/l	0.1	N	<0.1
Etoxazole	ug/l	0.1	N	<0.1
Etridiazole	ug/l	0.1	N	(278) <0.1
Etrimfos	ug/l	0.1	N	<0.1
Famoxadone	ug/l	0.1	N	<0.1
Famphur	ug/l	0.1	N	<0.1
Fenamidone	ug/l	0.1	N	<0.1
Fenamiphos	ug/l	0.1	N	<0.1
Fenarimol	ug/l	0.1	N	<0.1
Fenbuconazole	ug/l	0.1	N	<0.1
Fenchlorphos	ug/l	0.1	N	<0.1
Fenitrothion	ug/l	0.1	N	<0.1
Fenpiclonil	ug/l	0.1	N	<0.1
Fenpropathrin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenson	ug/l	0.1	N	<0.1
Fensulfothion	ug/l	0.1	N	<0.1
Fenthion	ug/l	0.1	N	<0.1
Fenvalerate	ug/l	0.1	N	<0.1
Fipronil	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Fipronil sulphone	ug/l	0.1	N	<0.1
Flamprop isopropyl	ug/l	0.1	N	<0.1
Fluazifop-P-Butyl	ug/l	0.1	N	<0.1
Flucythrinate	ug/l	0.1	N	<0.1
Fludioxonil	ug/l	0.1	N	<0.1
Flufenacet	ug/l	0.1	N	<0.1
Flumetralin	ug/l	0.1	N	<0.1
Flumioxazin	ug/l	0.1	N	(278) <0.1
Flumorph	ug/l	0.1	N	<0.1
Fluopyram	ug/l	0.1	N	<0.1
Fluquinconazole	ug/l	0.1	N	<0.1
Fluroxypyr-1-methylheptyl ester	ug/l	0.1	N	<0.1
Flusilazole	ug/l	0.1	N	<0.1
Flutolanil	ug/l	0.1	N	<0.1
Fluxapyroxad	ug/l	0.1	N	<0.1
Fonophos	ug/l	0.1	N	<0.1
Formothion	ug/l	0.1	N	(278) <0.1
Furalaxyl	ug/l	0.1	N	<0.1
Haloxyfop etotyl	ug/l	0.1	N	<0.1
Haloxyfop Methyl	ug/l	0.1	N	<0.1
Heptachlor	ug/l	0.1	N	<0.1
Heptachlor epoxide	ug/l	0.1	N	<0.1
Heptachlor exo Epoxide	ug/l	0.1	N	<0.1
Heptenophos	ug/l	0.1	N	<0.1
Hexachlorobenzene	ug/l	0.1	N	(278) <0.1
Hexachlorocyclohexane (alpha)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (beta)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (delta)	ug/l	0.1	N	<0.1
Hexaconazole	ug/l	0.1	N	(278) <0.1
Hexazinone	ug/l	0.1	N	<0.1
Iodofenphos	ug/l	0.1	N	<0.1
Iprodione	ug/l	0.1	N	(278) <0.1
Isazofos	ug/l	0.1	N	<0.1
Isocarbophos	ug/l	0.1	N	<0.1
Isodrin	ug/l	0.1	N	<0.1
Isofenphos	ug/l	0.1	N	<0.1
Isofenphos Methyl	ug/l	0.1	N	<0.1
Isomethiozin	ug/l	0.1	N	<0.1

Report Number : 863842 012
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Surface Water
Date Sampled : 28-MAY-2020
Customer Reference : S2
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Isoprothiolane	ug/l	0.1	N	<0.1
Isopyrazam	ug/l	0.1	N	<0.1
Kresoxim Methyl	ug/l	0.1	N	<0.1
Lambda Cyhalothrin	ug/l	0.1	N	<0.1
Lenacil	ug/l	0.1	N	<0.1
Leptophos	ug/l	0.1	N	<0.1
Lindane	ug/l	0.1	N	<0.1
Malathion	ug/l	0.1	N	<0.1
MCPA-thioethyl	ug/l	0.1	N	<0.1
Mecarbam	ug/l	0.1	N	(278) <0.1
Mepanipyrim	ug/l	0.1	N	(278) <0.1
Mephosfolan	ug/l	0.1	N	<0.1
Mepronil	ug/l	0.1	N	<0.1
Metalaxyl	ug/l	0.1	N	<0.1
Metazachlor	ug/l	0.1	N	<0.1
Methacrifos	ug/l	0.1	N	<0.1
Methidathion	ug/l	0.1	N	<0.1
Methoxychlor	ug/l	0.1	N	<0.1
Methyl Paraoxon	ug/l	0.1	N	(278) <0.1
Metolachlor	ug/l	0.1	N	<0.1
Metolcarb	ug/l	0.1	N	<0.1
Metrafenone	ug/l	0.1	N	<0.1
Metribuzin	ug/l	0.1	N	<0.1
Mevinphos	ug/l	0.1	N	<0.1
Mirex	ug/l	0.1	N	<0.1
Molinate	ug/l	0.1	N	<0.1
Myclobutanil	ug/l	0.1	N	<0.1
Napropamide	ug/l	0.1	N	<0.1
Nitrofen	ug/l	0.1	N	<0.1
Nitrothal isopropyl	ug/l	0.1	N	<0.1
Nuarimol	ug/l	0.1	N	<0.1
o,p'-DDT	ug/l	0.1	N	<0.1
o,p-DDD	ug/l	0.1	N	<0.1
o,p-DDE	ug/l	0.1	N	<0.1
Octylisothiazolon	ug/l	0.1	N	<0.1
Ofurace	ug/l	0.1	N	<0.1
Orysastrobin	ug/l	0.1	N	<0.1
Oxadiazon	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Oxadixyl	ug/l	0.1	N	<0.1
Oxyfluorfen	ug/l	0.1	N	(278) <0.1
p,p-DDD	ug/l	0.1	N	<0.1
p,p-DDE	ug/l	0.1	N	<0.1
p,p-DDT	ug/l	0.1	N	<0.1
Paclobutrazol	ug/l	0.1	N	<0.1
Paraoxon	ug/l	0.1	N	<0.1
Parathion	ug/l	0.1	N	<0.1
Parathion methyl	ug/l	0.1	N	<0.1
Penconazole	ug/l	0.1	N	<0.1
Pendimethalin	ug/l	0.1	N	<0.1
Pentachloroaniline	ug/l	0.1	N	<0.1
Pentachlorophenol	ug/l	0.1	N	(278) <0.1
Pentanochlor	ug/l	0.1	N	<0.1
Permethrin	ug/l	0.1	N	<0.1
Pethoxamid	ug/l	0.1	N	<0.1
Phenothrin	ug/l	0.1	N	<0.1
Phenthoate	ug/l	0.1	N	<0.1
Phorate	ug/l	0.1	N	<0.1
Phosalone	ug/l	0.1	N	<0.1
Phosfolan	ug/l	0.1	N	<0.1
Picoxystrobin	ug/l	0.1	N	<0.1
Piperonyl Butoxide	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	(278) <0.1
Pirimiphos Ethyl	ug/l	0.1	N	<0.1
Pirimiphos methyl	ug/l	0.1	N	<0.1
Pretilachlor	ug/l	0.1	N	<0.1
Procymidone	ug/l	0.1	N	<0.1
Profenofos	ug/l	0.1	N	<0.1
Prometon	ug/l	0.1	N	(278) <0.1
Prometryn	ug/l	0.1	N	(278) <0.1
Propachlor	ug/l	0.1	N	<0.1
Propanil	ug/l	0.1	N	<0.1
Propaphos	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	(278) <0.1
Propazine	ug/l	0.1	N	<0.1
Propetamphos	ug/l	0.1	N	<0.1
Propham	ug/l	0.1	N	<0.1

Report Number : 863842 012
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Surface Water
Date Sampled : 28-MAY-2020
Customer Reference : S2
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Propiconazole	ug/l	0.1	N	<0.1
Propyzamide	ug/l	0.1	N	<0.1
Proquinazid	ug/l	0.1	N	<0.1
Prosulfocarb	ug/l	0.1	N	<0.1
Prothiofos	ug/l	0.1	N	<0.1
Pyraclostrobin	ug/l	0.1	N	(278) <0.1
Pyraflufen ethyl	ug/l	0.1	N	<0.1
Pyrazophos	ug/l	0.1	N	<0.1
Pyridaben	ug/l	0.1	N	<0.1
Pyridaphenthion	ug/l	0.1	N	<0.1
Pyrimethanil	ug/l	0.1	N	(278) <0.1
Pyriproxyfen	ug/l	0.1	N	<0.1
Quinalphos	ug/l	0.1	N	<0.1
Quinoxyfen	ug/l	0.1	N	<0.1
Quintozene	ug/l	0.1	N	<0.1
Quizalofop-ethyl	ug/l	0.1	N	<0.1
Secbumeton	ug/l	0.1	N	(278) <0.1
Silafluofen	ug/l	0.1	N	<0.1
Simazine	ug/l	0.1	N	<0.1
Simeconazole	ug/l	0.1	N	<0.1
Sulfallate	ug/l	0.1	N	<0.1
Sulprofos	ug/l	0.1	N	<0.1
Tebuconazole	ug/l	0.1	N	(278) <0.1
Tebufenpyrad	ug/l	0.1	N	<0.1
Tebupirimiphos	ug/l	0.1	N	<0.1
Tecnazene	ug/l	0.1	N	(278) <0.1
Tefluthrin	ug/l	0.1	N	<0.1
Terbacil	ug/l	0.1	N	<0.1
Terbufos	ug/l	0.1	N	<0.1
Terbumeton	ug/l	0.1	N	(278) <0.1
Terbuthylazine	ug/l	0.1	N	<0.1
Terbutryn	ug/l	0.1	N	(278) <0.1
Tetrachlorvinphos	ug/l	0.1	N	<0.1
Tetraconazole	ug/l	0.1	N	<0.1
Tetradifon	ug/l	0.1	N	<0.1
tetraethyl dithiopyrophosphate	ug/l	0.1	N	<0.1
Tetramethrin	ug/l	0.1	N	<0.1
Tetrasul	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Thiamethoxam	ug/l	0.1	N	<0.1
Thiobencarb	ug/l	0.1	N	<0.1
Tolclofos-methyl	ug/l	0.1	N	<0.1
Triadimefon	ug/l	0.1	N	<0.1
Triadimenol	ug/l	0.1	N	(278) <0.1
Triallate	ug/l	0.1	N	<0.1
Triazamate	ug/l	0.1	N	<0.1
Triazophos	ug/l	0.1	N	<0.1
Trifloxystrobin	ug/l	0.1	N	<0.1
Triflumizole	ug/l	0.1	N	(278) <0.1
Trifluralin	ug/l	0.1	N	<0.1
Vinclozolin	ug/l	0.1	N	<0.1
Vinclozolin metabolite 3,5-Dichloroaniline	ug/l	0.1	N	(278) <0.1

Report Number : 863842 012
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Surface Water
Date Sampled : 28-MAY-2020
Customer Reference : S2
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
2-(1-Naphthyl)acetamide	ug/l	0.1	N	<0.1
3-hydroxycarbofuran	ug/l	0.1	N	<0.1
6-Benzyladenine	ug/l	0.1	N	<0.1
Acephate	ug/l	0.1	N	<0.1
Acetamiprid	ug/l	0.1	N	<0.1
Acibenzolar-S-methyl	ug/l	0.1	N	<0.1
Aldicarb	ug/l	0.1	N	<0.1
Aldicarb sulphone	ug/l	0.1	N	<0.1
Aldicarb sulphoxide	ug/l	0.1	N	<0.1
Aminocarb	ug/l	0.1	N	<0.1
Azadirachtin	ug/l	0.1	N	<0.1
Azinphos ethyl	ug/l	0.1	N	<0.1
Azinphos methyl	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Bendiocarb	ug/l	0.1	N	<0.1
Benfuracarb	ug/l	0.1	N	(278) <0.1
Butralin	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbendazim	ug/l	0.1	N	(278) <0.1
Carbetamide	ug/l	0.1	N	<0.1
Carbofuran	ug/l	0.1	N	<0.1
Carbosulfan	ug/l	0.1	N	(278) <0.1
Carpropamid	ug/l	0.1	N	<0.1
Chinomethionat	ug/l	0.1	N	<0.1
Chlorantraniliprole	ug/l	0.1	N	<0.1
Chlorbromuron	ug/l	0.1	N	<0.1
Chlorfluazuron	ug/l	0.1	N	<0.1
Chloridazon	ug/l	0.1	N	<0.1
Chlorotoluron	ug/l	0.1	N	<0.1
Clofentezine	ug/l	0.1	N	<0.1
Clothianidin	ug/l	0.1	N	<0.1
Cyanazine	ug/l	0.1	N	<0.1
Cyazofamid	ug/l	0.1	N	<0.1
Cycluron	ug/l	0.1	N	<0.1
Cymoxanil	ug/l	0.1	N	<0.1
Cythioate	ug/l	0.1	N	<0.1
Demeton	ug/l	0.1	N	<0.1
Demeton-s-methyl	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Demeton-s-methyl sulphone	ug/l	0.1	N	<0.1
Dichlofluanid	ug/l	0.1	N	<0.1
Dicrotophos	ug/l	0.1	N	<0.1
Diethofencarb	ug/l	0.1	N	<0.1
Diflubenzuron	ug/l	0.1	N	<0.1
Dimefuron	ug/l	0.1	N	<0.1
Dimethoate	ug/l	0.1	N	<0.1
Diniconazole	ug/l	0.1	N	<0.1
Dinotefuran	ug/l	0.1	N	<0.1
Dioxacarb	ug/l	0.1	N	<0.1
Disulfoton sulfoxide	ug/l	0.1	N	<0.1
Disulfoton sulphone	ug/l	0.1	N	<0.1
Diuron	ug/l	0.1	N	<0.1
DMSA	ug/l	0.1	N	<0.1
DMST	ug/l	0.1	N	<0.1
Dodemorph	ug/l	0.1	N	(278) <0.1
Dodine	ug/l	0.1	N	<0.1
Emamectin	ug/l	0.1	N	<0.1
Ethidimuron	ug/l	0.1	N	<0.1
Ethiofencarb	ug/l	0.1	N	<0.1
Ethiofencarb sulfone	ug/l	0.1	N	<0.1
Ethiofencarb sulfoxide	ug/l	0.1	N	<0.1
Ethiprole	ug/l	0.1	N	<0.1
Ethirimol	ug/l	0.1	N	<0.1
Fenamiphos sulfone	ug/l	0.1	N	<0.1
Fenamiphos sulfoxide	ug/l	0.1	N	<0.1
Fenazaquin	ug/l	0.1	N	<0.1
Fenchlorphos oxon	ug/l	0.1	N	<0.1
Fenhexamid	ug/l	0.1	N	<0.1
Fenoxycarb	ug/l	0.1	N	<0.1
Fenpropidin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenpyroximate	ug/l	0.1	N	<0.1
Fenthion Sulphone	ug/l	0.1	N	<0.1
Fenthion Sulphoxide	ug/l	0.1	N	<0.1
Fenuron	ug/l	0.1	N	<0.1
Flonicamid	ug/l	0.1	N	<0.1
Fluazinam	ug/l	0.1	N	<0.1

Report Number : 863842 012
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Surface Water
Date Sampled : 28-MAY-2020
Customer Reference : S2
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Flufenoxuron	ug/l	0.1	N	<0.1
Fluometuron	ug/l	0.1	N	<0.1
Fluopicolide	ug/l	0.1	N	<0.1
Fluorochloridone	ug/l	0.1	N	<0.1
Fluoxastrobin	ug/l	0.1	N	<0.1
Flurtamone	ug/l	0.1	N	<0.1
Flutriafol	ug/l	0.1	N	<0.1
Forchlorfenuron	ug/l	0.1	N	<0.1
Fosthiasate	ug/l	0.1	N	<0.1
Fuberidazole	ug/l	0.1	N	<0.1
Furathiocarb	ug/l	0.1	N	<0.1
Hexaflumuron	ug/l	0.1	N	<0.1
Hexythiazox	ug/l	0.1	N	<0.1
Imazalil	ug/l	0.1	N	(278) <0.1
Imibenconazole	ug/l	0.1	N	<0.1
Imidacloprid	ug/l	0.1	N	<0.1
Indoxacarb	ug/l	0.1	N	<0.1
Iprovalicarb	ug/l	0.1	N	<0.1
Isoprocarb	ug/l	0.1	N	<0.1
Isoproturon	ug/l	0.1	N	<0.1
Isoxaben	ug/l	0.1	N	<0.1
Karbutilate	ug/l	0.1	N	<0.1
Linuron	ug/l	0.1	N	<0.1
Lufenuron	ug/l	0.1	N	<0.1
Malaoxon	ug/l	0.1	N	<0.1
Mandipropamid	ug/l	0.1	N	<0.1
Mefenacet	ug/l	0.1	N	<0.1
Metamitron	ug/l	0.1	N	<0.1
Metconazole	ug/l	0.1	N	<0.1
Methabenzthiazuron	ug/l	0.1	N	<0.1
Methamidophos	ug/l	0.1	N	<0.1
Methiocarb	ug/l	0.1	N	<0.1
Methiocarb Sulfone	ug/l	0.1	N	<0.1
Methiocarb Sulfoxide	ug/l	0.1	N	<0.1
Methomyl	ug/l	0.1	N	<0.1
Methoxyfenozide	ug/l	0.1	N	<0.1
Metobromuron	ug/l	0.1	N	<0.1
Metoxuron	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Monocrotophos	ug/l	0.1	N	<0.1
Monolinuron	ug/l	0.1	N	<0.1
Monuron	ug/l	0.1	N	<0.1
Neburon	ug/l	0.1	N	<0.1
Nicotine	ug/l	1.0	N	(278, 62) <1.0
Nitenpyram	ug/l	0.1	N	<0.1
Novaluron	ug/l	0.1	N	<0.1
Omethoate	ug/l	0.1	N	<0.1
Oxadiargyl	ug/l	0.1	N	<0.1
Oxamyl	ug/l	0.1	N	<0.1
Oxycarboxin	ug/l	0.1	N	<0.1
Oxydemeton-Methyl	ug/l	0.1	N	<0.1
Pencycuron	ug/l	0.1	N	<0.1
Phorate sulfone	ug/l	0.1	N	<0.1
Phorate sulfoxide	ug/l	0.1	N	<0.1
Phosmet	ug/l	0.1	N	<0.1
Phosphamidon	ug/l	0.1	N	<0.1
Phoxim	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	<0.1
Prochloraz	ug/l	0.1	N	<0.1
Promecarb	ug/l	0.1	N	<0.1
Propamocarb	ug/l	0.1	N	<0.1
Propaquizafop	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	<0.1
Propoxur	ug/l	0.1	N	<0.1
Pymetrozine	ug/l	0.1	N	<0.1
Pyrifenox	ug/l	0.1	N	<0.1
Resmethrin	ug/l	0.1	N	<0.1
Rotenone	ug/l	0.1	N	<0.1
Spinosad	ug/l	0.1	N	<0.1
Spirodiclofen	ug/l	0.1	N	<0.1
Spiromesifen	ug/l	0.1	N	<0.1
Spiroxamine	ug/l	0.1	N	<0.1
Tebufenozide	ug/l	0.1	N	<0.1
Teflubenzuron	ug/l	0.1	N	<0.1
Temephos	ug/l	0.1	N	<0.1
Terbufos sulfone	ug/l	0.1	N	<0.1
Terbufos sulfoxide	ug/l	0.1	N	<0.1

Report Number : 863842 012
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Surface Water
Date Sampled : 28-MAY-2020
Customer Reference : S2
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Thiabendazole	ug/l	0.1	N	<0.1
Thiacloprid	ug/l	0.1	N	<0.1
Thiazafluron	ug/l	0.1	N	<0.1
Thiodicarb	ug/l	0.1	N	<0.1
Thiofanox	ug/l	0.1	N	<0.1
Thiophanate Methyl	ug/l	0.1	N	<0.1
Tolylfluanid	ug/l	0.1	N	<0.1
Trichlorfon	ug/l	0.1	N	<0.1
Tridemorph	ug/l	0.1	N	<0.1
Trifloxysulfuron	ug/l	0.1	N	<0.1
Triflumuron	ug/l	0.1	N	<0.1
Triflusulfuron-methyl	ug/l	0.1	N	<0.1
Triticonazole	ug/l	0.1	N	<0.1
Vamidothion	ug/l	0.1	N	<0.1
Vernolate	ug/l	0.1	N	<0.1
Zoxamide	ug/l	0.1	N	<0.1

CONCEPT LIFE SCIENCES
DELIVERING SCIENCE

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Concept Life Sciences

Certificate of Analysis

Unit 2
The Links
Bar Hill
Cambridgeshire
CB23 8UD
Tel : 01954 782791
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Report Number : 863842 013
Date of Issue : 04-Jun-2020

Customer : Pam Brown Associates
Contact : Dr Melissa Morales
Address : 2 Needwood House, Lancaster Park, Newborough Road, Needwood Burton on Trent, DE13 9PD

Samples Received : 29-May-2020
Analysis Started : 01-Jun-2020
Concept Job Reference : 863842-1
Analysis Requested : MRPS by GC (CSOPP611), MRPS by LC (CSOPP603)
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : SWS03
Location : Wheathampstead
Sample Description : Water

Results Summary

Analyte	Level Found	Units	LOD	EU MRL mg/kg	CODEX MRL mg/kg	Symbol
MRPS by GC (CSOPP611)						
2-Phenylphenol	**0.4**	ug/l	0.1			N
Fenson	**0.9**	ug/l	0.1			N
MRPS by LC (CSOPP603)	**No residue detected above the limit of detection.**					

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.
Customers are responsible for information provided where, if incorrect, it could affect the validity of the results.
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 Concept Life Sciences SOPs
All results have been reviewed in accordance with QMSection 15 of the Concept Life Sciences, Analytical Services Quality Manual
All samples prepared in accordance with the CODEX alimentarius

Report checked
and authorised by :
Matt Line
Section Manager - Pesticides

Issued by :
Mr Mark Obrien
Customer Service Manager Mark O'Brien

Index to symbols used in this report

Value	Description
3	LOD Raised Due to Elevated Blank
62	LOD was raised due to the method performance of the analytical procedure used
147	Result has been Recovery corrected.
13	Results have been blank corrected.
278	Data reported is qualitative as recovery is outside the 60 to 140% range
N	Analysis is not UKAS accredited

Report Number : 863842 013
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : SWS03
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
2,4,6-Trichlorophenol	ug/l	0.1	N	<0.1
2-Phenylphenol	**ug/l**	**0.1**	**N**	**0.4**
Acetochlor	ug/l	0.1	N	<0.1
Aclonifen	ug/l	0.1	N	(278) <0.1
Acrinathrin	ug/l	0.1	N	(278) <0.1
Alachlor	ug/l	0.1	N	<0.1
Aldrin	ug/l	0.1	N	<0.1
Ametryn	ug/l	0.1	N	(278) <0.1
Atraton	ug/l	0.1	N	(278) <0.1
Atrazine	ug/l	0.1	N	<0.1
Azaconazole	ug/l	0.1	N	<0.1
Azobenzene	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Benalaxyl	ug/l	0.1	N	<0.1
Benfluralin	ug/l	0.1	N	<0.1
Bifenox	ug/l	0.1	N	<0.1
Bifenthrin	ug/l	0.1	N	<0.1
Binapacryl	ug/l	0.1	N	(278) <0.1
Biphenyl	ug/l	0.5	N	(3, 278) <0.5
Bitertanol	ug/l	0.1	N	(278) <0.1
Boscalid	ug/l	0.1	N	<0.1
Bromacil	ug/l	0.1	N	<0.1
Bromophos	ug/l	0.1	N	<0.1
Bromophos-Ethyl	ug/l	0.1	N	<0.1
Bromopropylate	ug/l	0.1	N	<0.1
Bupirimate	ug/l	0.1	N	(278) <0.1
Buprofezine	ug/l	0.1	N	<0.1
Butachlor	ug/l	0.1	N	<0.1
Cadusafos	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbophenothion	ug/l	0.1	N	<0.1
Carboxine	ug/l	0.1	N	(278) <0.1
Carfentrazone Ethyl	ug/l	0.1	N	(278) <0.1
Chlorobenzilate	ug/l	0.1	N	<0.1
Chlordane (sum of cis and trans isomers)	ug/l	0.1	N	(278) <0.1
Chlordimeform	ug/l	0.1	N	(278) <0.1
Chlorethoxyfos	ug/l	0.1	N	<0.1
Chlorfenapyr	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Chlorfenvinphos	ug/l	0.1	N	<0.1
Chlormephos	ug/l	0.1	N	<0.1
Chloropropylate	ug/l	0.1	N	<0.1
Chlorothalonil	ug/l	0.1	N	<0.1
Chlorpropham	ug/l	0.1	N	<0.1
Chlorpyrifos	ug/l	0.1	N	<0.1
Chlorpyrifos methyl	ug/l	0.1	N	<0.1
Chlorthal Dimethyl	ug/l	0.1	N	<0.1
Chlorthion	ug/l	0.1	N	<0.1
Chlorthiophos	ug/l	0.1	N	<0.1
Chlozolinate	ug/l	0.1	N	(278) <0.1
Clodinafop Propargyl	ug/l	0.1	N	(278) <0.1
Clomazone	ug/l	0.1	N	<0.1
Cloquintocet mexyl	ug/l	0.1	N	<0.1
Coumaphos	ug/l	0.1	N	(278) <0.1
Cyflufenamid	ug/l	0.1	N	<0.1
Cyfluthrin	ug/l	0.1	N	<0.1
Cypermethrin	ug/l	0.1	N	<0.1
Cyphenothrin	ug/l	0.1	N	<0.1
Cyproconazole	ug/l	0.1	N	(278) <0.1
Cyprodinil	ug/l	0.1	N	(278) <0.1
Deltamethrin	ug/l	0.1	N	<0.1
Desmetryn	ug/l	0.1	N	(278) <0.1
Diafenthiuron	ug/l	0.1	N	(278) <0.1
Dialifos	ug/l	0.1	N	<0.1
Diazinon	ug/l	0.1	N	<0.1
Dichlobenil	ug/l	0.1	N	<0.1
Dichlofenthion	ug/l	0.1	N	<0.1
Dichlorvos	ug/l	0.1	N	<0.1
Diclobutrazol	ug/l	0.1	N	<0.1
Dicloran	ug/l	0.1	N	<0.1
Dicofol	ug/l	0.1	N	(278) <0.1
Dieldrin	ug/l	0.1	N	<0.1
Difenoconazole	ug/l	0.1	N	<0.1
Diflufenican	ug/l	0.1	N	<0.1
Dimethenamid	ug/l	0.1	N	<0.1
Dimethomorph	ug/l	0.1	N	<0.1
Dimoxystrobin	ug/l	0.1	N	<0.1

Report Number : 863842 013
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : SWS03
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Dioxabenzofos	ug/l	0.1	N	<0.1
Diphenamid	ug/l	0.1	N	<0.1
Diphenylamine	ug/l	0.1	N	<0.1
Disulfoton	ug/l	0.1	N	<0.1
Ditalimfos	ug/l	0.1	N	<0.1
Edifenphos	ug/l	0.1	N	<0.1
Endosulphan alpha	ug/l	0.1	N	<0.1
Endosulphan beta	ug/l	0.1	N	<0.1
Endosulphan sulphate	ug/l	0.1	N	<0.1
Endrin	ug/l	0.1	N	<0.1
EPN	ug/l	0.1	N	(278) <0.1
Epoxiconazole	ug/l	0.1	N	<0.1
EPTC	ug/l	0.1	N	<0.1
Etaconazole	ug/l	0.1	N	<0.1
Ethion	ug/l	0.1	N	<0.1
Ethofumesate	ug/l	0.1	N	<0.1
Ethoprophos	ug/l	0.1	N	<0.1
Ethoxyquin	ug/l	0.1	N	<0.1
Etofenprox	ug/l	0.1	N	<0.1
Etoxazole	ug/l	0.1	N	<0.1
Etridiazole	ug/l	0.1	N	(278) <0.1
Etrimfos	ug/l	0.1	N	<0.1
Famoxadone	ug/l	0.1	N	<0.1
Famphur	ug/l	0.1	N	<0.1
Fenamidone	ug/l	0.1	N	<0.1
Fenamiphos	ug/l	0.1	N	<0.1
Fenarimol	ug/l	0.1	N	<0.1
Fenbuconazole	ug/l	0.1	N	<0.1
Fenchlorphos	ug/l	0.1	N	<0.1
Fenitrothion	ug/l	0.1	N	<0.1
Fenpiclonil	ug/l	0.1	N	<0.1
Fenpropathrin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenson	**ug/l**	**0.1**	**N**	**0.9**
Fensulfothion	ug/l	0.1	N	<0.1
Fenthion	ug/l	0.1	N	<0.1
Fenvalerate	ug/l	0.1	N	<0.1
Fipronil	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Fipronil sulphone	ug/l	0.1	N	<0.1
Flamprop isopropyl	ug/l	0.1	N	<0.1
Fluazifop-P-Butyl	ug/l	0.1	N	<0.1
Flucythrinate	ug/l	0.1	N	<0.1
Fludioxonil	ug/l	0.1	N	<0.1
Flufenacet	ug/l	0.1	N	<0.1
Flumetralin	ug/l	0.1	N	<0.1
Flumioxazin	ug/l	0.1	N	(278) <0.1
Flumorph	ug/l	0.1	N	<0.1
Fluopyram	ug/l	0.1	N	<0.1
Fluquinconazole	ug/l	0.1	N	<0.1
Fluroxypyr-1-methylheptyl ester	ug/l	0.1	N	<0.1
Flusilazole	ug/l	0.1	N	<0.1
Flutolanil	ug/l	0.1	N	<0.1
Fluxapyroxad	ug/l	0.1	N	<0.1
Fonophos	ug/l	0.1	N	<0.1
Formothion	ug/l	0.1	N	(278) <0.1
Furalaxyl	ug/l	0.1	N	<0.1
Haloxyfop etotyl	ug/l	0.1	N	<0.1
Haloxyfop Methyl	ug/l	0.1	N	<0.1
Heptachlor	ug/l	0.1	N	<0.1
Heptachlor epoxide	ug/l	0.1	N	<0.1
Heptachlor exo Epoxide	ug/l	0.1	N	<0.1
Heptenophos	ug/l	0.1	N	<0.1
Hexachlorobenzene	ug/l	0.1	N	(278) <0.1
Hexachlorocyclohexane (alpha)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (beta)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (delta)	ug/l	0.1	N	<0.1
Hexaconazole	ug/l	0.1	N	(278) <0.1
Hexazinone	ug/l	0.1	N	<0.1
Iodofenphos	ug/l	0.1	N	<0.1
Iprodione	ug/l	0.1	N	(278) <0.1
Isazofos	ug/l	0.1	N	<0.1
Isocarbophos	ug/l	0.1	N	<0.1
Isodrin	ug/l	0.1	N	<0.1
Isofenphos	ug/l	0.1	N	<0.1
Isofenphos Methyl	ug/l	0.1	N	<0.1
Isomethiozin	ug/l	0.1	N	<0.1

Report Number : 863842 013
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : SWS03
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Isoprothiolane	ug/l	0.1	N	<0.1
Isopyrazam	ug/l	0.1	N	<0.1
Kresoxim Methyl	ug/l	0.1	N	<0.1
Lambda Cyhalothrin	ug/l	0.1	N	<0.1
Lenacil	ug/l	0.1	N	<0.1
Leptophos	ug/l	0.1	N	<0.1
Lindane	ug/l	0.1	N	<0.1
Malathion	ug/l	0.1	N	<0.1
MCPA-thioethyl	ug/l	0.1	N	<0.1
Mecarbam	ug/l	0.1	N	(278) <0.1
Mepanipyrim	ug/l	0.1	N	(278) <0.1
Mephosfolan	ug/l	0.1	N	<0.1
Mepronil	ug/l	0.1	N	<0.1
Metalaxyl	ug/l	0.1	N	<0.1
Metazachlor	ug/l	0.1	N	<0.1
Methacrifos	ug/l	0.1	N	<0.1
Methidathion	ug/l	0.1	N	<0.1
Methoxychlor	ug/l	0.1	N	<0.1
Methyl Paraoxon	ug/l	0.1	N	(278) <0.1
Metolachlor	ug/l	0.1	N	<0.1
Metolcarb	ug/l	0.1	N	<0.1
Metrafenone	ug/l	0.1	N	<0.1
Metribuzin	ug/l	0.1	N	<0.1
Mevinphos	ug/l	0.1	N	<0.1
Mirex	ug/l	0.1	N	<0.1
Molinate	ug/l	0.1	N	<0.1
Myclobutanil	ug/l	0.1	N	<0.1
Napropamide	ug/l	0.1	N	<0.1
Nitrofen	ug/l	0.1	N	<0.1
Nitrothal isopropyl	ug/l	0.1	N	<0.1
Nuarimol	ug/l	0.1	N	<0.1
o,p'-DDT	ug/l	0.1	N	<0.1
o,p-DDD	ug/l	0.1	N	<0.1
o,p-DDE	ug/l	0.1	N	<0.1
Octylisothiazolon	ug/l	0.1	N	<0.1
Ofurace	ug/l	0.1	N	<0.1
Orysastrobin	ug/l	0.1	N	<0.1
Oxadiazon	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Oxadixyl	ug/l	0.1	N	<0.1
Oxyfluorfen	ug/l	0.1	N	(278) <0.1
p,p-DDD	ug/l	0.1	N	<0.1
p,p-DDE	ug/l	0.1	N	<0.1
p,p-DDT	ug/l	0.1	N	<0.1
Paclobutrazol	ug/l	0.1	N	<0.1
Paraoxon	ug/l	0.1	N	<0.1
Parathion	ug/l	0.1	N	<0.1
Parathion methyl	ug/l	0.1	N	<0.1
Penconazole	ug/l	0.1	N	<0.1
Pendimethalin	ug/l	0.1	N	<0.1
Pentachloroaniline	ug/l	0.1	N	<0.1
Pentachlorophenol	ug/l	0.1	N	(278) <0.1
Pentanochlor	ug/l	0.1	N	<0.1
Permethrin	ug/l	0.1	N	<0.1
Pethoxamid	ug/l	0.1	N	<0.1
Phenothrin	ug/l	0.1	N	<0.1
Phenthoate	ug/l	0.1	N	<0.1
Phorate	ug/l	0.1	N	<0.1
Phosalone	ug/l	0.1	N	<0.1
Phosfolan	ug/l	0.1	N	<0.1
Picoxystrobin	ug/l	0.1	N	<0.1
Piperonyl Butoxide	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	(278) <0.1
Pirimiphos Ethyl	ug/l	0.1	N	<0.1
Pirimiphos methyl	ug/l	0.1	N	<0.1
Pretilachlor	ug/l	0.1	N	<0.1
Procymidone	ug/l	0.1	N	<0.1
Profenofos	ug/l	0.1	N	<0.1
Prometon	ug/l	0.1	N	(278) <0.1
Prometryn	ug/l	0.1	N	(278) <0.1
Propachlor	ug/l	0.1	N	<0.1
Propanil	ug/l	0.1	N	<0.1
Propaphos	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	(278) <0.1
Propazine	ug/l	0.1	N	<0.1
Propetamphos	ug/l	0.1	N	<0.1
Propham	ug/l	0.1	N	<0.1

Report Number : 863842 013
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : SWS03
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Propiconazole	ug/l	0.1	N	<0.1
Propyzamide	ug/l	0.1	N	<0.1
Proquinazid	ug/l	0.1	N	<0.1
Prosulfocarb	ug/l	0.1	N	<0.1
Prothiofos	ug/l	0.1	N	<0.1
Pyraclostrobin	ug/l	0.1	N	(278) <0.1
Pyraflufen ethyl	ug/l	0.1	N	<0.1
Pyrazophos	ug/l	0.1	N	<0.1
Pyridaben	ug/l	0.1	N	<0.1
Pyridaphenthion	ug/l	0.1	N	<0.1
Pyrimethanil	ug/l	0.1	N	(278) <0.1
Pyriproxyfen	ug/l	0.1	N	<0.1
Quinalphos	ug/l	0.1	N	<0.1
Quinoxyfen	ug/l	0.1	N	<0.1
Quintozene	ug/l	0.1	N	<0.1
Quizalofop-ethyl	ug/l	0.1	N	<0.1
Secbumeton	ug/l	0.1	N	(278) <0.1
Silafluofen	ug/l	0.1	N	<0.1
Simazine	ug/l	0.1	N	<0.1
Simeconazole	ug/l	0.1	N	<0.1
Sulfallate	ug/l	0.1	N	<0.1
Sulprofos	ug/l	0.1	N	<0.1
Tebuconazole	ug/l	0.1	N	(278) <0.1
Tebufenpyrad	ug/l	0.1	N	<0.1
Tebupirimiphos	ug/l	0.1	N	<0.1
Tecnazene	ug/l	0.1	N	(278) <0.1
Tefluthrin	ug/l	0.1	N	<0.1
Terbacil	ug/l	0.1	N	<0.1
Terbufos	ug/l	0.1	N	<0.1
Terbumeton	ug/l	0.1	N	(278) <0.1
Terbuthylazine	ug/l	0.1	N	<0.1
Terbutryn	ug/l	0.1	N	(278) <0.1
Tetrachlorvinphos	ug/l	0.1	N	<0.1
Tetraconazole	ug/l	0.1	N	<0.1
Tetradifon	ug/l	0.1	N	<0.1
tetraethyl dithiopyrophosphate	ug/l	0.1	N	<0.1
Tetramethrin	ug/l	0.1	N	<0.1
Tetrasul	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Thiamethoxam	ug/l	0.1	N	<0.1
Thiobencarb	ug/l	0.1	N	<0.1
Tolclofos-methyl	ug/l	0.1	N	<0.1
Triadimefon	ug/l	0.1	N	<0.1
Triadimenol	ug/l	0.1	N	(278) <0.1
Triallate	ug/l	0.1	N	<0.1
Triazamate	ug/l	0.1	N	<0.1
Triazophos	ug/l	0.1	N	<0.1
Trifloxystrobin	ug/l	0.1	N	<0.1
Triflumizole	ug/l	0.1	N	(278) <0.1
Trifluralin	ug/l	0.1	N	<0.1
Vinclozolin	ug/l	0.1	N	<0.1
Vinclozolin metabolite 3,5-Dichloroaniline	ug/l	0.1	N	(278) <0.1

Report Number : 863842 013
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : SWS03
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
2-(1-Naphthyl)acetamide	ug/l	0.1	N	<0.1
3-hydroxycarbofuran	ug/l	0.1	N	<0.1
6-Benzyladenine	ug/l	0.1	N	<0.1
Acephate	ug/l	0.1	N	<0.1
Acetamiprid	ug/l	0.1	N	<0.1
Acibenzolar-S-methyl	ug/l	0.1	N	<0.1
Aldicarb	ug/l	0.1	N	<0.1
Aldicarb sulphone	ug/l	0.1	N	<0.1
Aldicarb sulphoxide	ug/l	0.1	N	<0.1
Aminocarb	ug/l	0.1	N	<0.1
Azadirachtin	ug/l	0.1	N	<0.1
Azinphos ethyl	ug/l	0.1	N	<0.1
Azinphos methyl	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Bendiocarb	ug/l	0.1	N	<0.1
Benfuracarb	ug/l	0.1	N	(278) <0.1
Butralin	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbendazim	ug/l	0.1	N	(278) <0.1
Carbetamide	ug/l	0.1	N	<0.1
Carbofuran	ug/l	0.1	N	<0.1
Carbosulfan	ug/l	0.1	N	(278) <0.1
Carpropamid	ug/l	0.1	N	<0.1
Chinomethionat	ug/l	0.1	N	<0.1
Chlorantraniliprole	ug/l	0.1	N	<0.1
Chlorbromuron	ug/l	0.1	N	<0.1
Chlorfluazuron	ug/l	0.1	N	<0.1
Chloridazon	ug/l	0.1	N	<0.1
Chlorotoluron	ug/l	0.1	N	<0.1
Clofentezine	ug/l	0.1	N	<0.1
Clothianidin	ug/l	0.1	N	<0.1
Cyanazine	ug/l	0.1	N	<0.1
Cyazofamid	ug/l	0.1	N	<0.1
Cycluron	ug/l	0.1	N	<0.1
Cymoxanil	ug/l	0.1	N	<0.1
Cythioate	ug/l	0.1	N	<0.1
Demeton	ug/l	0.1	N	<0.1
Demeton-s-methyl	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Demeton-s-methyl sulphone	ug/l	0.1	N	<0.1
Dichlofluanid	ug/l	0.1	N	<0.1
Dicrotophos	ug/l	0.1	N	<0.1
Diethofencarb	ug/l	0.1	N	<0.1
Diflubenzuron	ug/l	0.1	N	<0.1
Dimefuron	ug/l	0.1	N	<0.1
Dimethoate	ug/l	0.1	N	<0.1
Diniconazole	ug/l	0.1	N	<0.1
Dinotefuran	ug/l	0.1	N	<0.1
Dioxacarb	ug/l	0.1	N	<0.1
Disulfoton sulfoxide	ug/l	0.1	N	<0.1
Disulfoton sulphone	ug/l	0.1	N	<0.1
Diuron	ug/l	0.1	N	<0.1
DMSA	ug/l	0.1	N	<0.1
DMST	ug/l	0.1	N	<0.1
Dodemorph	ug/l	0.1	N	(278) <0.1
Dodine	ug/l	0.1	N	<0.1
Emamectin	ug/l	0.1	N	<0.1
Ethidimuron	ug/l	0.1	N	<0.1
Ethiofencarb	ug/l	0.1	N	<0.1
Ethiofencarb sulfone	ug/l	0.1	N	<0.1
Ethiofencarb sulfoxide	ug/l	0.1	N	<0.1
Ethiprole	ug/l	0.1	N	<0.1
Ethirimol	ug/l	0.1	N	<0.1
Fenamiphos sulfone	ug/l	0.1	N	<0.1
Fenamiphos sulfoxide	ug/l	0.1	N	<0.1
Fenazaquin	ug/l	0.1	N	<0.1
Fenchlorphos oxon	ug/l	0.1	N	<0.1
Fenhexamid	ug/l	0.1	N	<0.1
Fenoxycarb	ug/l	0.1	N	<0.1
Fenpropidin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenpyroximate	ug/l	0.1	N	<0.1
Fenthion Sulphone	ug/l	0.1	N	<0.1
Fenthion Sulphoxide	ug/l	0.1	N	<0.1
Fenuron	ug/l	0.1	N	<0.1
Flonicamid	ug/l	0.1	N	<0.1
Fluazinam	ug/l	0.1	N	<0.1

Report Number : 863842 013
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : SWS03
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Flufenoxuron	ug/l	0.1	N	<0.1
Fluometuron	ug/l	0.1	N	<0.1
Fluopicolide	ug/l	0.1	N	<0.1
Fluorochloridone	ug/l	0.1	N	<0.1
Fluoxastrobin	ug/l	0.1	N	<0.1
Flurtamone	ug/l	0.1	N	<0.1
Flutriafol	ug/l	0.1	N	<0.1
Forchlorfenuron	ug/l	0.1	N	<0.1
Fosthiasate	ug/l	0.1	N	<0.1
Fuberidazole	ug/l	0.1	N	<0.1
Furathiocarb	ug/l	0.1	N	<0.1
Hexaflumuron	ug/l	0.1	N	<0.1
Hexythiazox	ug/l	0.1	N	<0.1
Imazalil	ug/l	0.1	N	(278) <0.1
Imibenconazole	ug/l	0.1	N	<0.1
Imidacloprid	ug/l	0.1	N	<0.1
Indoxacarb	ug/l	0.1	N	<0.1
Iprovalicarb	ug/l	0.1	N	<0.1
Isoprocarb	ug/l	0.1	N	<0.1
Isoproturon	ug/l	0.1	N	<0.1
Isoxaben	ug/l	0.1	N	<0.1
Karbutilate	ug/l	0.1	N	<0.1
Linuron	ug/l	0.1	N	<0.1
Lufenuron	ug/l	0.1	N	<0.1
Malaoxon	ug/l	0.1	N	<0.1
Mandipropamid	ug/l	0.1	N	<0.1
Mefenacet	ug/l	0.1	N	<0.1
Metamitron	ug/l	0.1	N	<0.1
Metconazole	ug/l	0.1	N	<0.1
Methabenzthiazuron	ug/l	0.1	N	<0.1
Methamidophos	ug/l	0.1	N	<0.1
Methiocarb	ug/l	0.1	N	<0.1
Methiocarb Sulfone	ug/l	0.1	N	<0.1
Methiocarb Sulfoxide	ug/l	0.1	N	<0.1
Methomyl	ug/l	0.1	N	<0.1
Methoxyfenozide	ug/l	0.1	N	<0.1
Metobromuron	ug/l	0.1	N	<0.1
Metoxuron	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Monocrotophos	ug/l	0.1	N	<0.1
Monolinuron	ug/l	0.1	N	<0.1
Monuron	ug/l	0.1	N	<0.1
Neburon	ug/l	0.1	N	<0.1
Nicotine	ug/l	1.0	N	(278, 62) <1.0
Nitenpyram	ug/l	0.1	N	<0.1
Novaluron	ug/l	0.1	N	<0.1
Omethoate	ug/l	0.1	N	<0.1
Oxadiargyl	ug/l	0.1	N	<0.1
Oxamyl	ug/l	0.1	N	<0.1
Oxycarboxin	ug/l	0.1	N	<0.1
Oxydemeton-Methyl	ug/l	0.1	N	<0.1
Pencycuron	ug/l	0.1	N	<0.1
Phorate sulfone	ug/l	0.1	N	<0.1
Phorate sulfoxide	ug/l	0.1	N	<0.1
Phosmet	ug/l	0.1	N	<0.1
Phosphamidon	ug/l	0.1	N	<0.1
Phoxim	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	<0.1
Prochloraz	ug/l	0.1	N	<0.1
Promecarb	ug/l	0.1	N	<0.1
Propamocarb	ug/l	0.1	N	<0.1
Propaquizafop	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	<0.1
Propoxur	ug/l	0.1	N	<0.1
Pymetrozine	ug/l	0.1	N	<0.1
Pyrifenox	ug/l	0.1	N	<0.1
Resmethrin	ug/l	0.1	N	<0.1
Rotenone	ug/l	0.1	N	<0.1
Spinosad	ug/l	0.1	N	<0.1
Spirodiclofen	ug/l	0.1	N	<0.1
Spiromesifen	ug/l	0.1	N	<0.1
Spiroxamine	ug/l	0.1	N	<0.1
Tebufenozide	ug/l	0.1	N	<0.1
Teflubenzuron	ug/l	0.1	N	<0.1
Temephos	ug/l	0.1	N	<0.1
Terbufos sulfone	ug/l	0.1	N	<0.1
Terbufos sulfoxide	ug/l	0.1	N	<0.1

Report Number : 863842 013
Client : Pam Brown Associates
Samples Received : 29-May-2020
Variety : Groundwater
Date Sampled : 27-MAY-2020
Customer Reference : SWS03
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Thiabendazole	ug/l	0.1	N	<0.1
Thiacloprid	ug/l	0.1	N	<0.1
Thiazafluron	ug/l	0.1	N	<0.1
Thiodicarb	ug/l	0.1	N	<0.1
Thiofanox	ug/l	0.1	N	<0.1
Thiophanate Methyl	ug/l	0.1	N	<0.1
Tolylfluanid	ug/l	0.1	N	<0.1
Trichlorfon	ug/l	0.1	N	<0.1
Tridemorph	ug/l	0.1	N	<0.1
Trifloxysulfuron	ug/l	0.1	N	<0.1
Triflumuron	ug/l	0.1	N	<0.1
Triflusulfuron-methyl	ug/l	0.1	N	<0.1
Triticonazole	ug/l	0.1	N	<0.1
Vamidothion	ug/l	0.1	N	<0.1
Vernolate	ug/l	0.1	N	<0.1
Zoxamide	ug/l	0.1	N	<0.1

Chemtest
The right chemistry to deliver results
Chemtest Ltd.
Depot Road
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UKAS TESTING 2183

Final Report

Report No.:	20-15524-1		
Initial Date of Issue:	26-Jun-2020		
Client	Pam Brown Associates		
Client Address:	Needwood House, Lancaster Park Newborough Road Needwood Staffordshire DE13 9PD		
Contact(s):	Enquiries Rudo Mafikeni		
Project	1302-13 Wheathampstead		
Quotation No.:	Q19-17781	**Date Received:**	19-Jun-2020
Order No.:		**Date Instructed:**	19-Jun-2020
No. of Samples:	13		
Turnaround (Wkdays):	5	**Results Due:**	25-Jun-2020
Date Approved:	26-Jun-2020		

Approved By:

Details: Glynn Harvey, Technical Manager

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Results - Water

Project: 1302-13 Wheathampstead

Client: Pam Brown Associates				**Chemtest Job No.:**	20-15524	20-15524	20-15524	20-15524	20-15524	20-15524	20-15524	20-15524	20-15524
Quotation No.: Q19-17781				**Chemtest Sample ID.:**	1019437	1019438	1019439	1019440	1019441	1019442	1019443	1019444	1019445
				Sample Location:	S1	S2	ASB1	BH22	WS102	WS103	BH301	BH302	BH303
				Sample Type:	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
				Date Sampled:	17-Jun-2020	17-Jun-2020	17-Jun-2020	17-Jun-2020	17-Jun-2020	17-Jun-2020	17-Jun-2020	17-Jun-2020	17-Jun-2020
Determinand	**Accred.**	**SOP**	**Units**	**LOD**									
pH	U	1010		N/A	9.0	8.9	8.8	8.8	8.9	8.9	8.8	8.5	8.4
Dissolved Oxygen	N	1150	mg O2/l	0.50	7.7	8.0	8.0	7.8	7.8	8.0	7.9	8.0	8.0
Redox Potential	N	1170	mV	N/A	80	82	92	83	20	28	42	49	15
Chloride	U	1220	mg/l	1.0	150	160	83	110	140	140	110	49	52
Nitrate	U	1220	mg/l	0.50	82	75	2.1	< 0.50	99	87	18	< 0.50	< 0.50
Sulphate	U	1220	mg/l	1.0	100	110	98	74	110	110	89	180	640
Manganese (Dissolved)	U	1450	µg/l	1.0	< 1.0	3.6	220	150	48	2.5	42	3000	1800
Iron [II]	N	1450	µg/l	20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	1400
Iron [III]	N	1450	µg/l	20	350	190	340	270	320	270	340	450	< 20
Dissolved Methane	N	1630	mg/l	0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.090
Aliphatic TPH >C5-C6	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C6-C8	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C8-C10	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C10-C12	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	13	< 0.10
Aliphatic TPH >C12-C16	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	12	< 0.10
Aliphatic TPH >C16-C21	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C21-C35	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C35-C44	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Aliphatic Hydrocarbons	N	1675	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	25	< 5.0
Aromatic TPH >C5-C7	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C7-C8	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	130	< 0.10
Aromatic TPH >C8-C10	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	380	< 0.10
Aromatic TPH >C10-C12	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	240	48
Aromatic TPH >C12-C16	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1400	230
Aromatic TPH >C16-C21	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	970	120
Aromatic TPH >C21-C35	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	16	< 0.10
Aromatic TPH >C35-C44	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Aromatic Hydrocarbons	N	1675	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	3100	400
Total Petroleum Hydrocarbons	N	1675	µg/l	10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	3200	400
Naphthalene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	N	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Water

Project: 1302-13 Wheathampstead

Client: Pam Brown Associates			**Chemtest Job No.:**		20-15524	20-15524	20-15524	20-15524	20-15524	20-15524	20-15524	20-15524	20-15524
Quotation No.: Q19-17781			**Chemtest Sample ID.:**		1019437	1019438	1019439	1019440	1019441	1019442	1019443	1019444	1019445
			Sample Location:		S1	S2	ASB1	BH22	WS102	WS103	BH301	BH302	BH303
			Sample Type:		WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
			Date Sampled:		17-Jun-2020	17-Jun-2020	17-Jun-2020	17-Jun-2020	17-Jun-2020	17-Jun-2020	17-Jun-2020	17-Jun-2020	17-Jun-2020
Determinand	**Accred.**	**SOP**	**Units**	**LOD**									
Benzo[a]pyrene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	N	1700	µg/l	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
2-Chlorophenol	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

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Results - Water

Project: 1302-13 Wheathampstead

Client: Pam Brown Associates				**Chemtest Job No.:**	20-15524	20-15524	20-15524	20-15524
Quotation No.: Q19-17781				**Chemtest Sample ID.:**	1019446	1019447	1019448	1019449
				Sample Location:	BH304	BH305	BH06	SWS03
				Sample Type:	WATER	WATER	WATER	WATER
				Date Sampled:	17-Jun-2020	17-Jun-2020	17-Jun-2020	17-Jun-2020
Determinand	**Accred.**	**SOP**	**Units**	**LOD**				
pH	U	1010		N/A	8.5	8.6	8.5	8.5
Dissolved Oxygen	N	1150	mg O2/l	0.50	8.0	7.9	7.8	7.9
Redox Potential	N	1170	mV	N/A	21	22	15	37
Chloride	U	1220	mg/l	1.0	51	140	99	140
Nitrate	U	1220	mg/l	0.50	< 0.50	19	< 0.50	< 0.50
Sulphate	U	1220	mg/l	1.0	350	120	110	130
Manganese (Dissolved)	U	1450	µg/l	1.0	4100	47	86	1700
Iron [II]	N	1450	µg/l	20	< 20	< 20	< 20	< 20
Iron [III]	N	1450	µg/l	20	590	360	280	420
Dissolved Methane	N	1630	mg/l	0.050	0.42	0.11	< 0.050	< 0.050
Aliphatic TPH >C5-C6	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C6-C8	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C8-C10	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C10-C12	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C12-C16	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	18
Aliphatic TPH >C16-C21	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C21-C35	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C35-C44	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Aliphatic Hydrocarbons	N	1675	µg/l	5.0	< 5.0	< 5.0	< 5.0	18
Aromatic TPH >C5-C7	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C7-C8	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C8-C10	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C10-C12	N	1675	µg/l	0.10	50	< 0.10	< 0.10	< 0.10
Aromatic TPH >C12-C16	N	1675	µg/l	0.10	28	< 0.10	< 0.10	37
Aromatic TPH >C16-C21	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	17
Aromatic TPH >C21-C35	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C35-C44	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Aromatic Hydrocarbons	N	1675	µg/l	5.0	78	< 5.0	< 5.0	53
Total Petroleum Hydrocarbons	N	1675	µg/l	10	78	< 10	< 10	72
Naphthalene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	N	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Water

Project: 1302-13 Wheathampstead

Client: Pam Brown Associates				**Chemtest Job No.:**	20-15524	20-15524	20-15524	20-15524
Quotation No.: Q19-17781				**Chemtest Sample ID.:**	1019446	1019447	1019448	1019449
				Sample Location:	BH304	BH305	BH06	SWS03
				Sample Type:	WATER	WATER	WATER	WATER
				Date Sampled:	17-Jun-2020	17-Jun-2020	17-Jun-2020	17-Jun-2020
Determinand	**Accred.**	**SOP**	**Units**	**LOD**				
Benzo[a]pyrene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	N	1700	µg/l	2.0	< 2.0	< 2.0	< 2.0	< 2.0
2-Chlorophenol	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1150	Dissolved Oxygen	Dissolved Oxygen (DO)	Electrometric determination (on site preferred), using oxygen sensitive membrane electrode.
1170	Redox Potential	Redox Potential	Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1450	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1675	TPH Aliphatic/Aromatic split in Waters by GC-FID(cf. Texas Method 1006 / TPH CWG)	Aliphatics: >C5–C6, >C6–C8, >C8– C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Pentane extraction / GCxGC FID detection
1700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)
1790	Semi-Volatile Organic Compounds (SVOCs) in Waters by GC-MS	Semi-volatile organic compounds	Solvent extraction / GCMS detection

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"

Comments or interpretations are beyond the scope of UKAS accreditation
The results relate only to the items tested
Uncertainty of measurement for the determinands tested are available upon request
None of the results in this report have been recovery corrected
All results are expressed on a dry weight basis
The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols
For all other tests the samples were dried at < 37°C prior to analysis
All Asbestos testing is performed at the indicated laboratory
Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

A - Date of sampling not supplied
B - Sample age exceeds stability time (sampling to extraction)
C - Sample not received in appropriate containers
D - Broken Container
E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 45 days from the date of receipt
All water samples will be retained for 14 days from the date of receipt
Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

CONCEPT LIFE SCIENCES
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Concept Life Sciences

Certificate of Analysis

Unit 2
The Links
Bar Hill
Cambridgeshire
CB23 8UD
Tel : 01954 782791
Fax : 01954 782183

Report Number : 865458 001
Date of Issue : 24-Jun-2020

Customer : Pam Brown Associates
Contact : Dr Melissa Morales
Address : 2 Needwood House, Lancaster Park, Newborough Road, Needwood Burton on Trent, DE13 9PD

Samples Received : 18-Jun-2020
Analysis Started : 19-Jun-2020
Concept Job Reference : 865458-1
Analysis Requested : MRPS by GC (CSOPP611), MRPS by LC (CSOPP603)
Variety : Groundwater
Date Sampled : 17-JUN-2020
Customer Reference : BH301
Location : Wheathampstead
Sample Description : Water

Results Summary

Analyte	Level Found	Units	LOD	EU MRL mg/kg	CODEX MRL mg/kg	Symbol
MRPS by GC (CSOPP611)						
EPTC	**0.4**	ug/l	0.1			N
Fenson	**0.7**	ug/l	0.1			N
MRPS by LC (CSOPP603)	**No residue detected above the limit of detection.**					

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.
Customers are responsible for information provided where, if incorrect, it could affect the validity of the results.
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 Concept Life Sciences SOPs
All results have been reviewed in accordance with QMSection 15 of the Concept Life Sciences, Analytical Services Quality Manual
All samples prepared in accordance with the CODEX alimentarius

Report checked
and authorised by :
Matt Line
Section Manager - Pesticides

Issued by :
Naomi Woodward
Customer Service Advisor

Index to symbols used in this report

Value	Description
278	Data reported is qualitative as recovery is outside the 60 to 140% range
5	Results are Semiquantitative
N	Analysis is not UKAS accredited

Report Number : 865458 001
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Groundwater
Date Sampled : 17-JUN-2020
Customer Reference : BH301
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
2,4,6-Trichlorophenol	ug/l	0.1	N	<0.1
2-Phenylphenol	ug/l	0.1	N	<0.1
Acetochlor	ug/l	0.1	N	<0.1
Aclonifen	ug/l	0.1	N	<0.1
Acrinathrin	ug/l	0.1	N	(278) <0.1
Alachlor	ug/l	0.1	N	<0.1
Aldrin	ug/l	0.1	N	<0.1
Ametryn	ug/l	0.1	N	<0.1
Atraton	ug/l	0.1	N	<0.1
Atrazine	ug/l	0.1	N	<0.1
Azaconazole	ug/l	0.1	N	(278) <0.1
Azobenzene	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Benalaxyl	ug/l	0.1	N	<0.1
Benfluralin	ug/l	0.1	N	<0.1
Bifenox	ug/l	0.1	N	(278) <0.1
Bifenthrin	ug/l	0.1	N	<0.1
Binapacryl	ug/l	0.1	N	(278) <0.1
Biphenyl	ug/l	0.1	N	(278) <0.1
Bitertanol	ug/l	0.1	N	<0.1
Boscalid	ug/l	0.1	N	<0.1
Bromacil	ug/l	0.1	N	<0.1
Bromophos	ug/l	0.1	N	<0.1
Bromophos-Ethyl	ug/l	0.1	N	<0.1
Bromopropylate	ug/l	0.1	N	<0.1
Bupirimate	ug/l	0.1	N	<0.1
Buprofezine	ug/l	0.1	N	<0.1
Butachlor	ug/l	0.1	N	<0.1
Cadusafos	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbophenothion	ug/l	0.1	N	<0.1
Carboxine	ug/l	0.1	N	<0.1
Carfentrazone Ethyl	ug/l	0.1	N	<0.1
Chlorobenzilate	ug/l	0.1	N	(278) <0.1
Chlordane (sum of cis and trans isomers)	ug/l	0.1	N	<0.1
Chlordimeform	ug/l	0.1	N	(278) <0.1
Chlorethoxyfos	ug/l	0.1	N	<0.1
Chlorfenapyr	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Chlorfenvinphos	ug/l	0.1	N	<0.1
Chlormephos	ug/l	0.1	N	<0.1
Chloropropylate	ug/l	0.1	N	<0.1
Chlorothalonil	ug/l	0.1	N	<0.1
Chlorpropham	ug/l	0.1	N	<0.1
Chlorpyrifos	ug/l	0.1	N	<0.1
Chlorpyrifos methyl	ug/l	0.1	N	<0.1
Chlorthal Dimethyl	ug/l	0.1	N	<0.1
Chlorthion	ug/l	0.1	N	<0.1
Chlorthiophos	ug/l	0.1	N	<0.1
Chlozolinate	ug/l	0.1	N	<0.1
Clodinafop Propargyl	ug/l	0.1	N	<0.1
Clomazone	ug/l	0.1	N	<0.1
Cloquintocet mexyl	ug/l	0.1	N	<0.1
Coumaphos	ug/l	0.1	N	<0.1
Cyflufenamid	ug/l	0.1	N	<0.1
Cyfluthrin	ug/l	0.1	N	<0.1
Cypermethrin	ug/l	0.1	N	<0.1
Cyphenothrin	ug/l	0.1	N	<0.1
Cyproconazole	ug/l	0.1	N	<0.1
Cyprodinil	ug/l	0.1	N	<0.1
Deltamethrin	ug/l	0.1	N	<0.1
Desmetryn	ug/l	0.1	N	<0.1
Diafenthiuron	ug/l	0.1	N	<0.1
Dialifos	ug/l	0.1	N	<0.1
Diazinon	ug/l	0.1	N	<0.1
Dichlobenil	ug/l	0.1	N	<0.1
Dichlofenthion	ug/l	0.1	N	<0.1
Dichlorvos	ug/l	0.1	N	<0.1
Diclobutrazol	ug/l	0.1	N	<0.1
Dicloran	ug/l	0.1	N	<0.1
Dicofol	ug/l	0.1	N	(278) <0.1
Dieldrin	ug/l	0.1	N	<0.1
Difenoconazole	ug/l	0.1	N	<0.1
Diflufenican	ug/l	0.1	N	<0.1
Dimethenamid	ug/l	0.1	N	<0.1
Dimethomorph	ug/l	0.1	N	<0.1
Dimoxystrobin	ug/l	0.1	N	<0.1

Report Number : 865458 001
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Groundwater
Date Sampled : 17-JUN-2020
Customer Reference : BH301
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Dioxabenzofos	ug/l	0.1	N	(278) <0.1
Diphenamid	ug/l	0.1	N	<0.1
Diphenylamine	ug/l	0.1	N	<0.1
Disulfoton	ug/l	0.1	N	<0.1
Ditalimfos	ug/l	0.1	N	<0.1
Edifenphos	ug/l	0.1	N	<0.1
Endosulphan alpha	ug/l	0.1	N	<0.1
Endosulphan beta	ug/l	0.1	N	<0.1
Endosulphan sulphate	ug/l	0.1	N	<0.1
Endrin	ug/l	0.1	N	<0.1
EPN	ug/l	0.1	N	(278) <0.1
Epoxiconazole	ug/l	0.1	N	<0.1
EPTC	**ug/l**	**0.1**	**N**	**0.4**
Etaconazole	ug/l	0.1	N	<0.1
Ethion	ug/l	0.1	N	<0.1
Ethofumesate	ug/l	0.1	N	<0.1
Ethoprophos	ug/l	0.1	N	<0.1
Ethoxyquin	ug/l	0.1	N	(278) <0.1
Etofenprox	ug/l	0.1	N	<0.1
Etoxazole	ug/l	0.1	N	<0.1
Etridiazole	ug/l	0.1	N	<0.1
Etrimfos	ug/l	0.1	N	<0.1
Famoxadone	ug/l	0.1	N	<0.1
Famphur	ug/l	0.1	N	<0.1
Fenamidone	ug/l	0.1	N	<0.1
Fenamiphos	ug/l	0.1	N	<0.1
Fenarimol	ug/l	0.1	N	<0.1
Fenbuconazole	ug/l	0.1	N	<0.1
Fenchlorphos	ug/l	0.1	N	<0.1
Fenitrothion	ug/l	0.1	N	<0.1
Fenpiclonil	ug/l	0.1	N	<0.1
Fenpropathrin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenson	**ug/l**	**0.1**	**N**	**0.7**
Fensulfothion	ug/l	0.1	N	<0.1
Fenthion	ug/l	0.1	N	<0.1
Fenvalerate	ug/l	0.1	N	<0.1
Fipronil	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Fipronil sulphone	ug/l	0.1	N	<0.1
Flamprop isopropyl	ug/l	0.1	N	<0.1
Fluazifop-P-Butyl	ug/l	0.1	N	<0.1
Flucythrinate	ug/l	0.1	N	<0.1
Fludioxonil	ug/l	0.1	N	<0.1
Flufenacet	ug/l	0.1	N	<0.1
Flumetralin	ug/l	0.1	N	<0.1
Flumioxazin	ug/l	0.1	N	<0.1
Flumorph	ug/l	0.1	N	<0.1
Fluopyram	ug/l	0.1	N	<0.1
Fluquinconazole	ug/l	0.1	N	<0.1
Fluroxypyr-1-methylheptyl ester	ug/l	0.1	N	<0.1
Flusilazole	ug/l	0.1	N	<0.1
Flutolanil	ug/l	0.1	N	<0.1
Fluxapyroxad	ug/l	0.1	N	<0.1
Fonophos	ug/l	0.1	N	<0.1
Formothion	ug/l	0.1	N	<0.1
Furalaxyl	ug/l	0.1	N	<0.1
Haloxyfop etotyl	ug/l	0.1	N	<0.1
Haloxyfop Methyl	ug/l	0.1	N	<0.1
Heptachlor	ug/l	0.1	N	<0.1
Heptachlor epoxide	ug/l	0.1	N	<0.1
Heptachlor exo Epoxide	ug/l	0.1	N	<0.1
Heptenophos	ug/l	0.1	N	<0.1
Hexachlorobenzene	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (alpha)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (beta)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (delta)	ug/l	0.1	N	<0.1
Hexaconazole	ug/l	0.1	N	<0.1
Hexazinone	ug/l	0.1	N	<0.1
Iodofenphos	ug/l	0.1	N	<0.1
Iprodione	ug/l	0.1	N	<0.1
Isazofos	ug/l	0.1	N	<0.1
Isocarbophos	ug/l	0.1	N	<0.1
Isodrin	ug/l	0.1	N	<0.1
Isofenphos	ug/l	0.1	N	<0.1
Isofenphos Methyl	ug/l	0.1	N	<0.1
Isomethiozin	ug/l	0.1	N	<0.1

Report Number : 865458 001
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Groundwater
Date Sampled : 17-JUN-2020
Customer Reference : BH301
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Isoprothiolane	ug/l	0.1	N	<0.1
Isopyrazam	ug/l	0.1	N	<0.1
Kresoxim Methyl	ug/l	0.1	N	<0.1
Lambda Cyhalothrin	ug/l	0.1	N	<0.1
Lenacil	ug/l	0.1	N	<0.1
Leptophos	ug/l	0.1	N	<0.1
Lindane	ug/l	0.1	N	<0.1
Malathion	ug/l	0.1	N	<0.1
MCPA-thioethyl	ug/l	0.1	N	<0.1
Mecarbam	ug/l	0.1	N	<0.1
Mepanipyrim	ug/l	0.1	N	<0.1
Mephosfolan	ug/l	0.1	N	<0.1
Mepronil	ug/l	0.1	N	<0.1
Metalaxyl	ug/l	0.1	N	<0.1
Metazachlor	ug/l	0.1	N	<0.1
Methacrifos	ug/l	0.1	N	<0.1
Methidathion	ug/l	0.1	N	<0.1
Methoxychlor	ug/l	0.1	N	<0.1
Methyl Paraoxon	ug/l	0.1	N	(278) <0.1
Metolachlor	ug/l	0.1	N	<0.1
Metolcarb	ug/l	0.1	N	<0.1
Metrafenone	ug/l	0.1	N	<0.1
Metribuzin	ug/l	0.1	N	<0.1
Mevinphos	ug/l	0.1	N	<0.1
Mirex	ug/l	0.1	N	<0.1
Molinate	ug/l	0.1	N	<0.1
Myclobutanil	ug/l	0.1	N	<0.1
Napropamide	ug/l	0.1	N	<0.1
Nitrofen	ug/l	0.1	N	<0.1
Nitrothal isopropyl	ug/l	0.1	N	<0.1
Nuarimol	ug/l	0.1	N	<0.1
o,p'-DDT	ug/l	0.1	N	<0.1
o,p-DDD	ug/l	0.1	N	<0.1
o,p-DDE	ug/l	0.1	N	<0.1
Octylisothiazolon	ug/l	0.1	N	<0.1
Ofurace	ug/l	0.1	N	<0.1
Orysastrobin	ug/l	0.1	N	<0.1
Oxadiazon	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Oxadixyl	ug/l	0.1	N	<0.1
Oxyfluorfen	ug/l	0.1	N	<0.1
p,p-DDD	ug/l	0.1	N	<0.1
p,p-DDE	ug/l	0.1	N	<0.1
p,p-DDT	ug/l	0.1	N	<0.1
Paclobutrazol	ug/l	0.1	N	<0.1
Paraoxon	ug/l	0.1	N	<0.1
Parathion	ug/l	0.1	N	<0.1
Parathion methyl	ug/l	0.1	N	<0.1
Penconazole	ug/l	0.1	N	<0.1
Pendimethalin	ug/l	0.1	N	<0.1
Pentachloroaniline	ug/l	0.1	N	<0.1
Pentachlorophenol	ug/l	0.1	N	(278) <0.1
Pentanochlor	ug/l	0.1	N	<0.1
Permethrin	ug/l	0.1	N	<0.1
Pethoxamid	ug/l	0.1	N	<0.1
Phenothrin	ug/l	0.1	N	<0.1
Phenthoate	ug/l	0.1	N	<0.1
Phorate	ug/l	0.1	N	<0.1
Phosalone	ug/l	0.1	N	<0.1
Phosfolan	ug/l	0.1	N	<0.1
Picoxystrobin	ug/l	0.1	N	<0.1
Piperonyl Butoxide	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	<0.1
Pirimiphos Ethyl	ug/l	0.1	N	<0.1
Pirimiphos methyl	ug/l	0.1	N	<0.1
Pretilachlor	ug/l	0.1	N	<0.1
Procymidone	ug/l	0.1	N	<0.1
Profenofos	ug/l	0.1	N	<0.1
Prometon	ug/l	0.1	N	<0.1
Prometryn	ug/l	0.1	N	<0.1
Propachlor	ug/l	0.1	N	<0.1
Propanil	ug/l	0.1	N	<0.1
Propaphos	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	<0.1
Propazine	ug/l	0.1	N	<0.1
Propetamphos	ug/l	0.1	N	<0.1
Propham	ug/l	0.1	N	<0.1

Report Number : 865458 001
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Groundwater
Date Sampled : 17-JUN-2020
Customer Reference : BH301
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Propiconazole	ug/l	0.1	N	<0.1
Propyzamide	ug/l	0.1	N	<0.1
Proquinazid	ug/l	0.1	N	<0.1
Prosulfocarb	ug/l	0.1	N	<0.1
Prothiofos	ug/l	0.1	N	<0.1
Pyraclostrobin	ug/l	0.1	N	<0.1
Pyraflufen ethyl	ug/l	0.1	N	<0.1
Pyrazophos	ug/l	0.1	N	<0.1
Pyridaben	ug/l	0.1	N	<0.1
Pyridaphenthion	ug/l	0.1	N	<0.1
Pyrimethanil	ug/l	0.1	N	<0.1
Pyriproxyfen	ug/l	0.1	N	<0.1
Quinalphos	ug/l	0.1	N	<0.1
Quinoxyfen	ug/l	0.1	N	<0.1
Quintozene	ug/l	0.1	N	<0.1
Quizalofop-ethyl	ug/l	0.1	N	<0.1
Secbumeton	ug/l	0.1	N	<0.1
Silafluofen	ug/l	0.1	N	<0.1
Simazine	ug/l	0.1	N	<0.1
Simeconazole	ug/l	0.1	N	<0.1
Sulfallate	ug/l	0.1	N	<0.1
Sulprofos	ug/l	0.1	N	<0.1
Tebuconazole	ug/l	0.1	N	<0.1
Tebufenpyrad	ug/l	0.1	N	<0.1
Tebupirimiphos	ug/l	0.1	N	<0.1
Tecnazene	ug/l	0.1	N	<0.1
Tefluthrin	ug/l	0.1	N	<0.1
Terbacil	ug/l	0.1	N	<0.1
Terbufos	ug/l	0.1	N	<0.1
Terbumeton	ug/l	0.1	N	<0.1
Terbuthylazine	ug/l	0.1	N	<0.1
Terbutryn	ug/l	0.1	N	<0.1
Tetrachlorvinphos	ug/l	0.1	N	<0.1
Tetraconazole	ug/l	0.1	N	<0.1
Tetradifon	ug/l	0.1	N	<0.1
tetraethyl dithiopyrophosphate	ug/l	0.1	N	<0.1
Tetramethrin	ug/l	0.1	N	<0.1
Tetrasul	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Thiamethoxam	ug/l	0.1	N	(278) <0.1
Thiobencarb	ug/l	0.1	N	<0.1
Tolclofos-methyl	ug/l	0.1	N	<0.1
Triadimefon	ug/l	0.1	N	<0.1
Triadimenol	ug/l	0.1	N	<0.1
Triallate	ug/l	0.1	N	<0.1
Triazamate	ug/l	0.1	N	<0.1
Triazophos	ug/l	0.1	N	<0.1
Trifloxystrobin	ug/l	0.1	N	<0.1
Triflumizole	ug/l	0.1	N	(278) <0.1
Trifluralin	ug/l	0.1	N	<0.1
Vinclozolin	ug/l	0.1	N	<0.1
Vinclozolin metabolite 3,5-Dichloroaniline	ug/l	0.1	N	(278) <0.1

Report Number : 865458 001
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Groundwater
Date Sampled : 17-JUN-2020
Customer Reference : BH301
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
2-(1-Naphthyl)acetamide	ug/l	0.1	N	<0.1
3-hydroxycarbofuran	ug/l	0.1	N	<0.1
6-Benzyladenine	ug/l	0.1	N	<0.1
Acephate	ug/l	0.1	N	<0.1
Acetamiprid	ug/l	0.1	N	<0.1
Acibenzolar-S-methyl	ug/l	0.1	N	<0.1
Aldicarb	ug/l	0.1	N	<0.1
Aldicarb sulphone	ug/l	0.1	N	<0.1
Aldicarb sulphoxide	ug/l	0.1	N	<0.1
Aminocarb	ug/l	0.1	N	<0.1
Azadirachtin	ug/l	0.1	N	<0.1
Azinphos ethyl	ug/l	0.1	N	<0.1
Azinphos methyl	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Bendiocarb	ug/l	0.1	N	<0.1
Benfuracarb	ug/l	0.1	N	(278) <0.1
Butralin	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbendazim	ug/l	0.1	N	<0.1
Carbetamide	ug/l	0.1	N	<0.1
Carbofuran	ug/l	0.1	N	<0.1
Carbosulfan	ug/l	0.1	N	(278) <0.1
Carpropamid	ug/l	0.1	N	<0.1
Chinomethionat	ug/l	0.1	N	<0.1
Chlorantraniliprole	ug/l	0.1	N	<0.1
Chlorbromuron	ug/l	0.1	N	<0.1
Chlorfluazuron	ug/l	0.1	N	<0.1
Chloridazon	ug/l	0.1	N	<0.1
Chlorotoluron	ug/l	0.1	N	<0.1
Chlorpropham	ug/l	0.1	N	<0.1
Clofentezine	ug/l	0.1	N	<0.1
Clothianidin	ug/l	0.1	N	<0.1
Cyanazine	ug/l	0.1	N	<0.1
Cyazofamid	ug/l	0.1	N	<0.1
Cycluron	ug/l	0.1	N	<0.1
Cymoxanil	ug/l	0.1	N	<0.1
Cythioate	ug/l	0.1	N	<0.1
Demeton	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Demeton-s-methyl	ug/l	0.1	N	<0.1
Demeton-s-methyl sulphone	ug/l	0.1	N	<0.1
Dichlofluanid	ug/l	0.1	N	<0.1
Dicrotophos	ug/l	0.1	N	<0.1
Diethofencarb	ug/l	0.1	N	<0.1
Diflubenzuron	ug/l	0.1	N	<0.1
Dimefuron	ug/l	0.1	N	<0.1
Dimethoate	ug/l	0.1	N	<0.1
Diniconazole	ug/l	0.1	N	<0.1
Dinotefuran	ug/l	0.1	N	<0.1
Dioxacarb	ug/l	0.1	N	(278) <0.1
Disulfoton sulfoxide	ug/l	0.1	N	<0.1
Disulfoton sulphone	ug/l	0.1	N	<0.1
Diuron	ug/l	0.1	N	<0.1
DMSA	ug/l	0.1	N	<0.1
DMST	ug/l	0.1	N	<0.1
Dodemorph	ug/l	0.1	N	<0.1
Dodine	ug/l	0.1	N	(278) <0.1
Emamectin	ug/l	0.1	N	<0.1
Ethidimuron	ug/l	0.1	N	<0.1
Ethiofencarb	ug/l	0.1	N	<0.1
Ethiofencarb sulfone	ug/l	0.1	N	<0.1
Ethiofencarb sulfoxide	ug/l	0.1	N	<0.1
Ethiprole	ug/l	0.1	N	<0.1
Ethirimol	ug/l	0.1	N	<0.1
Fenamiphos sulfone	ug/l	0.1	N	<0.1
Fenamiphos sulfoxide	ug/l	0.1	N	<0.1
Fenazaquin	ug/l	0.1	N	<0.1
Fenchlorphos oxon	ug/l	0.1	N	<0.1
Fenhexamid	ug/l	0.1	N	<0.1
Fenoxycarb	ug/l	0.1	N	<0.1
Fenpropidin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenpyroximate	ug/l	0.1	N	<0.1
Fenthion Sulphone	ug/l	0.1	N	<0.1
Fenthion Sulphoxide	ug/l	0.1	N	<0.1
Fenuron	ug/l	0.1	N	<0.1
Flonicamid	ug/l	0.1	N	<0.1

Report Number : 865458 001
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Groundwater
Date Sampled : 17-JUN-2020
Customer Reference : BH301
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Fluazinam	ug/l	0.1	N	<0.1
Flufenoxuron	ug/l	0.1	N	<0.1
Fluometuron	ug/l	0.1	N	<0.1
Fluopicolide	ug/l	0.1	N	<0.1
Fluorochloridone	ug/l	0.1	N	<0.1
Fluoxastrobin	ug/l	0.1	N	<0.1
Flurtamone	ug/l	0.1	N	<0.1
Flutriafol	ug/l	0.1	N	<0.1
Forchlorfenuron	ug/l	0.1	N	<0.1
Fosthiasate	ug/l	0.1	N	<0.1
Fuberidazole	ug/l	0.1	N	<0.1
Furathiocarb	ug/l	0.1	N	<0.1
Hexaflumuron	ug/l	0.1	N	<0.1
Hexythiazox	ug/l	0.1	N	<0.1
Imazalil	ug/l	0.1	N	(278) <0.1
Imibenconazole	ug/l	0.1	N	(278) <0.1
Imidacloprid	ug/l	0.1	N	<0.1
Indoxacarb	ug/l	0.1	N	<0.1
Iprovalicarb	ug/l	0.1	N	<0.1
Isoprocarb	ug/l	0.1	N	<0.1
Isoproturon	ug/l	0.1	N	<0.1
Isoxaben	ug/l	0.1	N	<0.1
Karbutilate	ug/l	0.1	N	<0.1
Linuron	ug/l	0.1	N	<0.1
Lufenuron	ug/l	0.1	N	<0.1
Malaoxon	ug/l	0.1	N	<0.1
Mandipropamid	ug/l	0.1	N	<0.1
Mefenacet	ug/l	0.1	N	<0.1
Metamitron	ug/l	0.1	N	<0.1
Metconazole	ug/l	0.1	N	<0.1
Methabenzthiazuron	ug/l	0.1	N	<0.1
Methamidophos	ug/l	0.1	N	<0.1
Methiocarb	ug/l	0.1	N	<0.1
Methiocarb Sulfone	ug/l	0.1	N	<0.1
Methiocarb Sulfoxide	ug/l	0.1	N	<0.1
Methomyl	ug/l	0.1	N	<0.1
Methoxyfenozide	ug/l	0.1	N	(278) <0.1
Metobromuron	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Metoxuron	ug/l	0.1	N	<0.1
Monocrotophos	ug/l	0.1	N	<0.1
Monolinuron	ug/l	0.1	N	<0.1
Monuron	ug/l	0.1	N	<0.1
Neburon	ug/l	0.1	N	<0.1
Nicotine	ug/l	0.1	N	<0.1
Nitenpyram	ug/l	0.1	N	<0.1
Novaluron	ug/l	0.1	N	<0.1
Omethoate	ug/l	0.1	N	<0.1
Oxadiargyl	ug/l	0.1	N	<0.1
Oxamyl	ug/l	0.1	N	<0.1
Oxycarboxin	ug/l	0.1	N	<0.1
Oxydemeton-Methyl	ug/l	0.1	N	<0.1
Pencycuron	ug/l	0.1	N	<0.1
Phorate sulfone	ug/l	0.1	N	<0.1
Phorate sulfoxide	ug/l	0.1	N	<0.1
Phosmet	ug/l	0.1	N	<0.1
Phosphamidon	ug/l	0.1	N	<0.1
Phoxim	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	<0.1
Prochloraz	ug/l	0.1	N	<0.1
Promecarb	ug/l	0.1	N	<0.1
Propamocarb	ug/l	0.1	N	(278) <0.1
Propaquizafop	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	<0.1
Propoxur	ug/l	0.1	N	<0.1
Pymetrozine	ug/l	0.1	N	<0.1
Pyrifenox	ug/l	0.1	N	<0.1
Resmethrin	ug/l	0.1	N	<0.1
Rotenone	ug/l	0.1	N	<0.1
Spinosad	ug/l	0.1	N	<0.1
Spirodiclofen	ug/l	0.1	N	<0.1
Spiromesifen	ug/l	0.1	N	<0.1
Spiroxamine	ug/l	0.1	N	<0.1
Tebufenozide	ug/l	0.1	N	<0.1
Teflubenzuron	ug/l	0.1	N	<0.1
Temephos	ug/l	0.1	N	<0.1
Terbufos sulfone	ug/l	0.1	N	<0.1

Report Number : 865458 001
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Groundwater
Date Sampled : 17-JUN-2020
Customer Reference : BH301
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Terbufos sulfoxide	ug/l	0.1	N	<0.1
Thiabendazole	ug/l	0.1	N	<0.1
Thiacloprid	ug/l	0.1	N	<0.1
Thiazafluron	ug/l	0.1	N	<0.1
Thiodicarb	ug/l	0.1	N	<0.1
Thiofanox	ug/l	0.1	N	<0.1
Thiophanate Methyl	ug/l	0.1	N	<0.1
Tolylfluanid	ug/l	0.1	N	<0.1
Trichlorfon	ug/l	0.1	N	<0.1
Tridemorph	ug/l	0.1	N	<0.1
Trifloxysulfuron	ug/l	0.1	N	<0.1
Triflumuron	ug/l	0.1	N	<0.1
Triflusulfuron-methyl	ug/l	0.1	N	<0.1
Triticonazole	ug/l	0.1	N	<0.1
Vamidothion	ug/l	0.1	N	<0.1
Vernolate	ug/l	0.1	N	<0.1
Zoxamide	ug/l	0.1	N	<0.1

CONCEPT LIFE SCIENCES
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Concept Life Sciences

Certificate of Analysis

Unit 2
The Links
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Cambridgeshire
CB23 8UD
Tel : 01954 782791
Fax : 01954 782183

Report Number : 865458 002
Date of Issue : 24-Jun-2020

Customer : Pam Brown Associates
Contact : Dr Melissa Morales
Address : 2 Needwood House, Lancaster Park, Newborough Road, Needwood Burton on Trent, DE13 9PD

Samples Received : 18-Jun-2020
Analysis Started : 19-Jun-2020
Concept Job Reference : 865458-1
Analysis Requested : MRPS by GC (CSOPP611), MRPS by LC (CSOPP603)
Variety : Groundwater
Date Sampled : 17-JUN-2020
Customer Reference : BH302
Location : Wheathampstead
Sample Description : Water

Results Summary

Analyte	Level Found	Units	LOD	EU MRL mg/kg	CODEX MRL mg/kg	Symbol
MRPS by GC (CSOPP611)						
2,4,6-Trichlorophenol	**0.5**	ug/l	0.1			N
2-Phenylphenol	**41**	ug/l	0.1			N
Carboxine	**0.8**	ug/l	0.1			N
Chlorpropham	**0.1**	ug/l	0.1			N
EPTC	**1.1**	ug/l	0.1			N
Fenson	**22**	ug/l	0.1			N
Pentachlorophenol	(5, 278) **0.3**	ug/l	0.1			N
Propham	**120**	ug/l	0.1			N
MRPS by LC (CSOPP603)						
Chloridazon	**0.2**	ug/l	0.1			N
Fenuron	**0.1**	ug/l	0.1			N

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.
Customers are responsible for information provided where, if incorrect, it could affect the validity of the results.
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 Concept Life Sciences SOPs
All results have been reviewed in accordance with QMSection 15 of the Concept Life Sciences, Analytical Services Quality Manual
All samples prepared in accordance with the CODEX alimentarius

Report checked
and authorised by :
Matt Line
Section Manager - Pesticides

Issued by :
Naomi Woodward
Customer Service Advisor

Index to symbols used in this report

Value	Description
278	Data reported is qualitative as recovery is outside the 60 to 140% range
5	Results are Semiquantitative
N	Analysis is not UKAS accredited

Report Number : 865458 002
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Groundwater
Date Sampled : 17-JUN-2020
Customer Reference : BH302
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
2,4,6-Trichlorophenol	**ug/l**	**0.1**	**N**	**0.5**
2-Phenylphenol	**ug/l**	**0.1**	**N**	**41**
Acetochlor	ug/l	0.1	N	<0.1
Aclonifen	ug/l	0.1	N	<0.1
Acrinathrin	ug/l	0.1	N	(278) <0.1
Alachlor	ug/l	0.1	N	<0.1
Aldrin	ug/l	0.1	N	<0.1
Ametryn	ug/l	0.1	N	<0.1
Atraton	ug/l	0.1	N	<0.1
Atrazine	ug/l	0.1	N	<0.1
Azaconazole	ug/l	0.1	N	(278) <0.1
Azobenzene	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Benalaxyl	ug/l	0.1	N	<0.1
Benfluralin	ug/l	0.1	N	<0.1
Bifenox	ug/l	0.1	N	(278) <0.1
Bifenthrin	ug/l	0.1	N	<0.1
Binapacryl	ug/l	0.1	N	(278) <0.1
Biphenyl	ug/l	0.1	N	(278) <0.1
Bitertanol	ug/l	0.1	N	<0.1
Boscalid	ug/l	0.1	N	<0.1
Bromacil	ug/l	0.1	N	<0.1
Bromophos	ug/l	0.1	N	<0.1
Bromophos-Ethyl	ug/l	0.1	N	<0.1
Bromopropylate	ug/l	0.1	N	<0.1
Bupirimate	ug/l	0.1	N	<0.1
Buprofezine	ug/l	0.1	N	<0.1
Butachlor	ug/l	0.1	N	<0.1
Cadusafos	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbophenothion	ug/l	0.1	N	<0.1
Carboxine	**ug/l**	**0.1**	**N**	**0.8**
Carfentrazone Ethyl	ug/l	0.1	N	<0.1
Chlorobenzilate	ug/l	0.1	N	(278) <0.1
Chlordane (sum of cis and trans isomers)	ug/l	0.1	N	<0.1
Chlordimeform	ug/l	0.1	N	(278) <0.1
Chlorethoxyfos	ug/l	0.1	N	<0.1
Chlorfenapyr	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Chlorfenvinphos	ug/l	0.1	N	<0.1
Chlormephos	ug/l	0.1	N	<0.1
Chloropropylate	ug/l	0.1	N	<0.1
Chlorothalonil	ug/l	0.1	N	<0.1
Chlorpropham	**ug/l**	**0.1**	**N**	**0.1**
Chlorpyrifos	ug/l	0.1	N	<0.1
Chlorpyrifos methyl	ug/l	0.1	N	<0.1
Chlorthal Dimethyl	ug/l	0.1	N	<0.1
Chlorthion	ug/l	0.1	N	<0.1
Chlorthiophos	ug/l	0.1	N	<0.1
Chlozolinate	ug/l	0.1	N	<0.1
Clodinafop Propargyl	ug/l	0.1	N	<0.1
Clomazone	ug/l	0.1	N	<0.1
Cloquintocet mexyl	ug/l	0.1	N	<0.1
Coumaphos	ug/l	0.1	N	<0.1
Cyflufenamid	ug/l	0.1	N	<0.1
Cyfluthrin	ug/l	0.1	N	<0.1
Cypermethrin	ug/l	0.1	N	<0.1
Cyphenothrin	ug/l	0.1	N	<0.1
Cyproconazole	ug/l	0.1	N	<0.1
Cyprodinil	ug/l	0.1	N	<0.1
Deltamethrin	ug/l	0.1	N	<0.1
Desmetryn	ug/l	0.1	N	<0.1
Diafenthiuron	ug/l	0.1	N	<0.1
Dialifos	ug/l	0.1	N	<0.1
Diazinon	ug/l	0.1	N	<0.1
Dichlobenil	ug/l	0.1	N	<0.1
Dichlofenthion	ug/l	0.1	N	<0.1
Dichlorvos	ug/l	0.1	N	<0.1
Diclobutrazol	ug/l	0.1	N	<0.1
Dicloran	ug/l	0.1	N	<0.1
Dicofol	ug/l	0.1	N	(278) <0.1
Dieldrin	ug/l	0.1	N	<0.1
Difenoconazole	ug/l	0.1	N	<0.1
Diflufenican	ug/l	0.1	N	<0.1
Dimethenamid	ug/l	0.1	N	<0.1
Dimethomorph	ug/l	0.1	N	<0.1
Dimoxystrobin	ug/l	0.1	N	<0.1

Report Number : 865458 002
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Groundwater
Date Sampled : 17-JUN-2020
Customer Reference : BH302
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Dioxabenzofos	ug/l	0.1	N	(278) <0.1
Diphenamid	ug/l	0.1	N	<0.1
Diphenylamine	ug/l	0.1	N	<0.1
Disulfoton	ug/l	0.1	N	<0.1
Ditalimfos	ug/l	0.1	N	<0.1
Edifenphos	ug/l	0.1	N	<0.1
Endosulphan alpha	ug/l	0.1	N	<0.1
Endosulphan beta	ug/l	0.1	N	<0.1
Endosulphan sulphate	ug/l	0.1	N	<0.1
Endrin	ug/l	0.1	N	<0.1
EPN	ug/l	0.1	N	(278) <0.1
Epoxiconazole	ug/l	0.1	N	<0.1
EPTC	**ug/l**	**0.1**	**N**	**1.1**
Etaconazole	ug/l	0.1	N	<0.1
Ethion	ug/l	0.1	N	<0.1
Ethofumesate	ug/l	0.1	N	<0.1
Ethoprophos	ug/l	0.1	N	<0.1
Ethoxyquin	ug/l	0.1	N	(278) <0.1
Etofenprox	ug/l	0.1	N	<0.1
Etoxazole	ug/l	0.1	N	<0.1
Etridiazole	ug/l	0.1	N	<0.1
Etrimfos	ug/l	0.1	N	<0.1
Famoxadone	ug/l	0.1	N	<0.1
Famphur	ug/l	0.1	N	<0.1
Fenamidone	ug/l	0.1	N	<0.1
Fenamiphos	ug/l	0.1	N	<0.1
Fenarimol	ug/l	0.1	N	<0.1
Fenbuconazole	ug/l	0.1	N	<0.1
Fenchlorphos	ug/l	0.1	N	<0.1
Fenitrothion	ug/l	0.1	N	<0.1
Fenpiclonil	ug/l	0.1	N	<0.1
Fenpropathrin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenson	**ug/l**	**0.1**	**N**	**22**
Fensulfothion	ug/l	0.1	N	<0.1
Fenthion	ug/l	0.1	N	<0.1
Fenvalerate	ug/l	0.1	N	<0.1
Fipronil	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Fipronil sulphone	ug/l	0.1	N	<0.1
Flamprop isopropyl	ug/l	0.1	N	<0.1
Fluazifop-P-Butyl	ug/l	0.1	N	<0.1
Flucythrinate	ug/l	0.1	N	<0.1
Fludioxonil	ug/l	0.1	N	<0.1
Flufenacet	ug/l	0.1	N	<0.1
Flumetralin	ug/l	0.1	N	<0.1
Flumioxazin	ug/l	0.1	N	<0.1
Flumorph	ug/l	0.1	N	<0.1
Fluopyram	ug/l	0.1	N	<0.1
Fluquinconazole	ug/l	0.1	N	<0.1
Fluroxypyr-1-methylheptyl ester	ug/l	0.1	N	<0.1
Flusilazole	ug/l	0.1	N	<0.1
Flutolanil	ug/l	0.1	N	<0.1
Fluxapyroxad	ug/l	0.1	N	<0.1
Fonophos	ug/l	0.1	N	<0.1
Formothion	ug/l	0.1	N	<0.1
Furalaxyl	ug/l	0.1	N	<0.1
Haloxyfop etotyl	ug/l	0.1	N	<0.1
Haloxyfop Methyl	ug/l	0.1	N	<0.1
Heptachlor	ug/l	0.1	N	<0.1
Heptachlor epoxide	ug/l	0.1	N	<0.1
Heptachlor exo Epoxide	ug/l	0.1	N	<0.1
Heptenophos	ug/l	0.1	N	<0.1
Hexachlorobenzene	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (alpha)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (beta)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (delta)	ug/l	0.1	N	<0.1
Hexaconazole	ug/l	0.1	N	<0.1
Hexazinone	ug/l	0.1	N	<0.1
Iodofenphos	ug/l	0.1	N	<0.1
Iprodione	ug/l	0.1	N	<0.1
Isazofos	ug/l	0.1	N	<0.1
Isocarbophos	ug/l	0.1	N	<0.1
Isodrin	ug/l	0.1	N	<0.1
Isofenphos	ug/l	0.1	N	<0.1
Isofenphos Methyl	ug/l	0.1	N	<0.1
Isomethiozin	ug/l	0.1	N	<0.1

Report Number : 865458 002
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MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Isoprothiolane	ug/l	0.1	N	<0.1
Isopyrazam	ug/l	0.1	N	<0.1
Kresoxim Methyl	ug/l	0.1	N	<0.1
Lambda Cyhalothrin	ug/l	0.1	N	<0.1
Lenacil	ug/l	0.1	N	<0.1
Leptophos	ug/l	0.1	N	<0.1
Lindane	ug/l	0.1	N	<0.1
Malathion	ug/l	0.1	N	<0.1
MCPA-thioethyl	ug/l	0.1	N	<0.1
Mecarbam	ug/l	0.1	N	<0.1
Mepanipyrim	ug/l	0.1	N	<0.1
Mephosfolan	ug/l	0.1	N	<0.1
Mepronil	ug/l	0.1	N	<0.1
Metalaxyl	ug/l	0.1	N	<0.1
Metazachlor	ug/l	0.1	N	<0.1
Methacrifos	ug/l	0.1	N	<0.1
Methidathion	ug/l	0.1	N	<0.1
Methoxychlor	ug/l	0.1	N	<0.1
Methyl Paraoxon	ug/l	0.1	N	(278) <0.1
Metolachlor	ug/l	0.1	N	<0.1
Metolcarb	ug/l	0.1	N	<0.1
Metrafenone	ug/l	0.1	N	<0.1
Metribuzin	ug/l	0.1	N	<0.1
Mevinphos	ug/l	0.1	N	<0.1
Mirex	ug/l	0.1	N	<0.1
Molinate	ug/l	0.1	N	<0.1
Myclobutanil	ug/l	0.1	N	<0.1
Napropamide	ug/l	0.1	N	<0.1
Nitrofen	ug/l	0.1	N	<0.1
Nitrothal isopropyl	ug/l	0.1	N	<0.1
Nuarimol	ug/l	0.1	N	<0.1
o,p'-DDT	ug/l	0.1	N	<0.1
o,p-DDD	ug/l	0.1	N	<0.1
o,p-DDE	ug/l	0.1	N	<0.1
Octylisothiazolon	ug/l	0.1	N	<0.1
Ofurace	ug/l	0.1	N	<0.1
Orysastrobin	ug/l	0.1	N	<0.1
Oxadiazon	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Oxadixyl	ug/l	0.1	N	<0.1
Oxyfluorfen	ug/l	0.1	N	<0.1
p,p-DDD	ug/l	0.1	N	<0.1
p,p-DDE	ug/l	0.1	N	<0.1
p,p-DDT	ug/l	0.1	N	<0.1
Paclobutrazol	ug/l	0.1	N	<0.1
Paraoxon	ug/l	0.1	N	<0.1
Parathion	ug/l	0.1	N	<0.1
Parathion methyl	ug/l	0.1	N	<0.1
Penconazole	ug/l	0.1	N	<0.1
Pendimethalin	ug/l	0.1	N	<0.1
Pentachloroaniline	ug/l	0.1	N	<0.1
Pentachlorophenol	**ug/l**	**0.1**	**N**	(5, 278) **0.3**
Pentanochlor	ug/l	0.1	N	<0.1
Permethrin	ug/l	0.1	N	<0.1
Pethoxamid	ug/l	0.1	N	<0.1
Phenothrin	ug/l	0.1	N	<0.1
Phenthoate	ug/l	0.1	N	<0.1
Phorate	ug/l	0.1	N	<0.1
Phosalone	ug/l	0.1	N	<0.1
Phosfolan	ug/l	0.1	N	<0.1
Picoxystrobin	ug/l	0.1	N	<0.1
Piperonyl Butoxide	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	<0.1
Pirimiphos Ethyl	ug/l	0.1	N	<0.1
Pirimiphos methyl	ug/l	0.1	N	<0.1
Pretilachlor	ug/l	0.1	N	<0.1
Procymidone	ug/l	0.1	N	<0.1
Profenofos	ug/l	0.1	N	<0.1
Prometon	ug/l	0.1	N	<0.1
Prometryn	ug/l	0.1	N	<0.1
Propachlor	ug/l	0.1	N	<0.1
Propanil	ug/l	0.1	N	<0.1
Propaphos	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	<0.1
Propazine	ug/l	0.1	N	<0.1
Propetamphos	ug/l	0.1	N	<0.1
Propham	**ug/l**	**0.1**	**N**	**120**

Report Number : 865458 002
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Samples Received : 18-Jun-2020
Variety : Groundwater
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Customer Reference : BH302
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Propiconazole	ug/l	0.1	N	<0.1
Propyzamide	ug/l	0.1	N	<0.1
Proquinazid	ug/l	0.1	N	<0.1
Prosulfocarb	ug/l	0.1	N	<0.1
Prothiofos	ug/l	0.1	N	<0.1
Pyraclostrobin	ug/l	0.1	N	<0.1
Pyraflufen ethyl	ug/l	0.1	N	<0.1
Pyrazophos	ug/l	0.1	N	<0.1
Pyridaben	ug/l	0.1	N	<0.1
Pyridaphenthion	ug/l	0.1	N	<0.1
Pyrimethanil	ug/l	0.1	N	<0.1
Pyriproxyfen	ug/l	0.1	N	<0.1
Quinalphos	ug/l	0.1	N	<0.1
Quinoxyfen	ug/l	0.1	N	<0.1
Quintozene	ug/l	0.1	N	<0.1
Quizalofop-ethyl	ug/l	0.1	N	<0.1
Secbumeton	ug/l	0.1	N	<0.1
Silafluofen	ug/l	0.1	N	<0.1
Simazine	ug/l	0.1	N	<0.1
Simeconazole	ug/l	0.1	N	<0.1
Sulfallate	ug/l	0.1	N	<0.1
Sulprofos	ug/l	0.1	N	<0.1
Tebuconazole	ug/l	0.1	N	<0.1
Tebufenpyrad	ug/l	0.1	N	<0.1
Tebupirimiphos	ug/l	0.1	N	<0.1
Tecnazene	ug/l	0.1	N	<0.1
Tefluthrin	ug/l	0.1	N	<0.1
Terbacil	ug/l	0.1	N	<0.1
Terbufos	ug/l	0.1	N	<0.1
Terbumeton	ug/l	0.1	N	<0.1
Terbuthylazine	ug/l	0.1	N	<0.1
Terbutryn	ug/l	0.1	N	<0.1
Tetrachlorvinphos	ug/l	0.1	N	<0.1
Tetraconazole	ug/l	0.1	N	<0.1
Tetradifon	ug/l	0.1	N	<0.1
tetraethyl dithiopyrophosphate	ug/l	0.1	N	<0.1
Tetramethrin	ug/l	0.1	N	<0.1
Tetrasul	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Thiamethoxam	ug/l	0.1	N	(278) <0.1
Thiobencarb	ug/l	0.1	N	<0.1
Tolclofos-methyl	ug/l	0.1	N	<0.1
Triadimefon	ug/l	0.1	N	<0.1
Triadimenol	ug/l	0.1	N	<0.1
Triallate	ug/l	0.1	N	<0.1
Triazamate	ug/l	0.1	N	<0.1
Triazophos	ug/l	0.1	N	<0.1
Trifloxystrobin	ug/l	0.1	N	<0.1
Triflumizole	ug/l	0.1	N	(278) <0.1
Trifluralin	ug/l	0.1	N	<0.1
Vinclozolin	ug/l	0.1	N	<0.1
Vinclozolin metabolite 3,5-Dichloroaniline	ug/l	0.1	N	(278) <0.1

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Date Sampled : 17-JUN-2020
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Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
2-(1-Naphthyl)acetamide	ug/l	0.1	N	<0.1
3-hydroxycarbofuran	ug/l	0.1	N	<0.1
6-Benzyladenine	ug/l	0.1	N	<0.1
Acephate	ug/l	0.1	N	<0.1
Acetamiprid	ug/l	0.1	N	<0.1
Acibenzolar-S-methyl	ug/l	0.1	N	<0.1
Aldicarb	ug/l	0.1	N	<0.1
Aldicarb sulphone	ug/l	0.1	N	<0.1
Aldicarb sulphoxide	ug/l	0.1	N	<0.1
Aminocarb	ug/l	0.1	N	<0.1
Azadirachtin	ug/l	0.1	N	<0.1
Azinphos ethyl	ug/l	0.1	N	<0.1
Azinphos methyl	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Bendiocarb	ug/l	0.1	N	<0.1
Benfuracarb	ug/l	0.1	N	(278) <0.1
Butralin	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbendazim	ug/l	0.1	N	<0.1
Carbetamide	ug/l	0.1	N	<0.1
Carbofuran	ug/l	0.1	N	<0.1
Carbosulfan	ug/l	0.1	N	(278) <0.1
Carpropamid	ug/l	0.1	N	<0.1
Chinomethionat	ug/l	0.1	N	<0.1
Chlorantraniliprole	ug/l	0.1	N	<0.1
Chlorbromuron	ug/l	0.1	N	<0.1
Chlorfluazuron	ug/l	0.1	N	<0.1
Chloridazon	**ug/l**	**0.1**	**N**	**0.2**
Chlorotoluron	ug/l	0.1	N	<0.1
Chlorpropham	ug/l	0.1	N	<0.1
Clofentezine	ug/l	0.1	N	<0.1
Clothianidin	ug/l	0.1	N	<0.1
Cyanazine	ug/l	0.1	N	<0.1
Cyazofamid	ug/l	0.1	N	<0.1
Cycluron	ug/l	0.1	N	<0.1
Cymoxanil	ug/l	0.1	N	<0.1
Cythioate	ug/l	0.1	N	<0.1
Demeton	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Demeton-s-methyl	ug/l	0.1	N	<0.1
Demeton-s-methyl sulphone	ug/l	0.1	N	<0.1
Dichlofluanid	ug/l	0.1	N	<0.1
Dicrotophos	ug/l	0.1	N	<0.1
Diethofencarb	ug/l	0.1	N	<0.1
Diflubenzuron	ug/l	0.1	N	<0.1
Dimefuron	ug/l	0.1	N	<0.1
Dimethoate	ug/l	0.1	N	<0.1
Diniconazole	ug/l	0.1	N	<0.1
Dinotefuran	ug/l	0.1	N	<0.1
Dioxacarb	ug/l	0.1	N	(278) <0.1
Disulfoton sulfoxide	ug/l	0.1	N	<0.1
Disulfoton sulphone	ug/l	0.1	N	<0.1
Diuron	ug/l	0.1	N	<0.1
DMSA	ug/l	0.1	N	<0.1
DMST	ug/l	0.1	N	<0.1
Dodemorph	ug/l	0.1	N	<0.1
Dodine	ug/l	0.1	N	(278) <0.1
Emamectin	ug/l	0.1	N	<0.1
Ethidimuron	ug/l	0.1	N	<0.1
Ethiofencarb	ug/l	0.1	N	<0.1
Ethiofencarb sulfone	ug/l	0.1	N	<0.1
Ethiofencarb sulfoxide	ug/l	0.1	N	<0.1
Ethiprole	ug/l	0.1	N	<0.1
Ethirimol	ug/l	0.1	N	<0.1
Fenamiphos sulfone	ug/l	0.1	N	<0.1
Fenamiphos sulfoxide	ug/l	0.1	N	<0.1
Fenazaquin	ug/l	0.1	N	<0.1
Fenchlorphos oxon	ug/l	0.1	N	<0.1
Fenhexamid	ug/l	0.1	N	<0.1
Fenoxycarb	ug/l	0.1	N	<0.1
Fenpropidin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenpyroximate	ug/l	0.1	N	<0.1
Fenthion Sulphone	ug/l	0.1	N	<0.1
Fenthion Sulphoxide	ug/l	0.1	N	<0.1
Fenuron	**ug/l**	**0.1**	**N**	**0.1**
Flonicamid	ug/l	0.1	N	<0.1

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MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Fluazinam	ug/l	0.1	N	<0.1
Flufenoxuron	ug/l	0.1	N	<0.1
Fluometuron	ug/l	0.1	N	<0.1
Fluopicolide	ug/l	0.1	N	<0.1
Fluorochloridone	ug/l	0.1	N	<0.1
Fluoxastrobin	ug/l	0.1	N	<0.1
Flurtamone	ug/l	0.1	N	<0.1
Flutriafol	ug/l	0.1	N	<0.1
Forchlorfenuron	ug/l	0.1	N	<0.1
Fosthiasate	ug/l	0.1	N	<0.1
Fuberidazole	ug/l	0.1	N	<0.1
Furathiocarb	ug/l	0.1	N	<0.1
Hexaflumuron	ug/l	0.1	N	<0.1
Hexythiazox	ug/l	0.1	N	<0.1
Imazalil	ug/l	0.1	N	(278) <0.1
Imibenconazole	ug/l	0.1	N	(278) <0.1
Imidacloprid	ug/l	0.1	N	<0.1
Indoxacarb	ug/l	0.1	N	<0.1
Iprovalicarb	ug/l	0.1	N	<0.1
Isoprocarb	ug/l	0.1	N	<0.1
Isoproturon	ug/l	0.1	N	<0.1
Isoxaben	ug/l	0.1	N	<0.1
Karbutilate	ug/l	0.1	N	<0.1
Linuron	ug/l	0.1	N	<0.1
Lufenuron	ug/l	0.1	N	<0.1
Malaoxon	ug/l	0.1	N	<0.1
Mandipropamid	ug/l	0.1	N	<0.1
Mefenacet	ug/l	0.1	N	<0.1
Metamitron	ug/l	0.1	N	<0.1
Metconazole	ug/l	0.1	N	<0.1
Methabenzthiazuron	ug/l	0.1	N	<0.1
Methamidophos	ug/l	0.1	N	<0.1
Methiocarb	ug/l	0.1	N	<0.1
Methiocarb Sulfone	ug/l	0.1	N	<0.1
Methiocarb Sulfoxide	ug/l	0.1	N	<0.1
Methomyl	ug/l	0.1	N	<0.1
Methoxyfenozide	ug/l	0.1	N	(278) <0.1
Metobromuron	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Metoxuron	ug/l	0.1	N	<0.1
Monocrotophos	ug/l	0.1	N	<0.1
Monolinuron	ug/l	0.1	N	<0.1
Monuron	ug/l	0.1	N	<0.1
Neburon	ug/l	0.1	N	<0.1
Nicotine	ug/l	0.1	N	<0.1
Nitenpyram	ug/l	0.1	N	<0.1
Novaluron	ug/l	0.1	N	<0.1
Omethoate	ug/l	0.1	N	<0.1
Oxadiargyl	ug/l	0.1	N	<0.1
Oxamyl	ug/l	0.1	N	<0.1
Oxycarboxin	ug/l	0.1	N	<0.1
Oxydemeton-Methyl	ug/l	0.1	N	<0.1
Pencycuron	ug/l	0.1	N	<0.1
Phorate sulfone	ug/l	0.1	N	<0.1
Phorate sulfoxide	ug/l	0.1	N	<0.1
Phosmet	ug/l	0.1	N	<0.1
Phosphamidon	ug/l	0.1	N	<0.1
Phoxim	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	<0.1
Prochloraz	ug/l	0.1	N	<0.1
Promecarb	ug/l	0.1	N	<0.1
Propamocarb	ug/l	0.1	N	(278) <0.1
Propaquizafop	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	<0.1
Propoxur	ug/l	0.1	N	<0.1
Pymetrozine	ug/l	0.1	N	<0.1
Pyrifenox	ug/l	0.1	N	<0.1
Resmethrin	ug/l	0.1	N	<0.1
Rotenone	ug/l	0.1	N	<0.1
Spinosad	ug/l	0.1	N	<0.1
Spirodiclofen	ug/l	0.1	N	<0.1
Spiromesifen	ug/l	0.1	N	<0.1
Spiroxamine	ug/l	0.1	N	<0.1
Tebufenozide	ug/l	0.1	N	<0.1
Teflubenzuron	ug/l	0.1	N	<0.1
Temephos	ug/l	0.1	N	<0.1
Terbufos sulfone	ug/l	0.1	N	<0.1

Report Number : 865458 002
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Groundwater
Date Sampled : 17-JUN-2020
Customer Reference : BH302
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Terbufos sulfoxide	ug/l	0.1	N	<0.1
Thiabendazole	ug/l	0.1	N	<0.1
Thiacloprid	ug/l	0.1	N	<0.1
Thiazafluron	ug/l	0.1	N	<0.1
Thiodicarb	ug/l	0.1	N	<0.1
Thiofanox	ug/l	0.1	N	<0.1
Thiophanate Methyl	ug/l	0.1	N	<0.1
Tolylfluanid	ug/l	0.1	N	<0.1
Trichlorfon	ug/l	0.1	N	<0.1
Tridemorph	ug/l	0.1	N	<0.1
Trifloxysulfuron	ug/l	0.1	N	<0.1
Triflumuron	ug/l	0.1	N	<0.1
Triflusulfuron-methyl	ug/l	0.1	N	<0.1
Triticonazole	ug/l	0.1	N	<0.1
Vamidothion	ug/l	0.1	N	<0.1
Vernolate	ug/l	0.1	N	<0.1
Zoxamide	ug/l	0.1	N	<0.1

CONCEPT LIFE SCIENCES
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Concept Life Sciences

Certificate of Analysis

Unit 2
The Links
Bar Hill
Cambridgeshire
CB23 8UD
Tel : 01954 782791
Fax : 01954 782183

Report Number : 865458 003
Date of Issue : 24-Jun-2020

Customer : Pam Brown Associates
Contact : Dr Melissa Morales
Address : 2 Needwood House, Lancaster Park, Newborough Road, Needwood Burton on Trent, DE13 9PD

Samples Received : 18-Jun-2020
Analysis Started : 19-Jun-2020
Concept Job Reference : 865458-1
Analysis Requested : MRPS by GC (CSOPP611), MRPS by LC (CSOPP603)
Variety : Groundwater
Date Sampled : 17-JUN-2020
Customer Reference : BH303
Location : Wheathampstead
Sample Description : Water

Results Summary

Analyte	Level Found	Units	LOD	EU MRL mg/kg	CODEX MRL mg/kg	Symbol
MRPS by GC (CSOPP611)						
Carboxine	**1.7**	ug/l	0.1			N
Chlorpropham	**1.8**	ug/l	0.1			N
EPTC	**0.6**	ug/l	0.1			N
Fenson	**8.0**	ug/l	0.1			N
Propham	**15**	ug/l	0.1			N
MRPS by LC (CSOPP603)						
Chloridazon	**0.2**	ug/l	0.1			N
Fenuron	**0.4**	ug/l	0.1			N

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.
Customers are responsible for information provided where, if incorrect, it could affect the validity of the results.
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 Concept Life Sciences SOPs
All results have been reviewed in accordance with QMSection 15 of the Concept Life Sciences, Analytical Services Quality Manual
All samples prepared in accordance with the CODEX alimentarius

Report checked
and authorised by :
Matt Line
Section Manager - Pesticides

Issued by :
Naomi Woodward
Customer Service Advisor

Index to symbols used in this report

Value	Description
278	Data reported is qualitative as recovery is outside the 60 to 140% range
5	Results are Semiquantitative
N	Analysis is not UKAS accredited

Report Number : 865458 003
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Groundwater
Date Sampled : 17-JUN-2020
Customer Reference : BH303
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
2,4,6-Trichlorophenol	ug/l	0.1	N	<0.1
2-Phenylphenol	ug/l	0.1	N	<0.1
Acetochlor	ug/l	0.1	N	<0.1
Aclonifen	ug/l	0.1	N	<0.1
Acrinathrin	ug/l	0.1	N	(278) <0.1
Alachlor	ug/l	0.1	N	<0.1
Aldrin	ug/l	0.1	N	<0.1
Ametryn	ug/l	0.1	N	<0.1
Atraton	ug/l	0.1	N	<0.1
Atrazine	ug/l	0.1	N	<0.1
Azaconazole	ug/l	0.1	N	(278) <0.1
Azobenzene	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Benalaxyl	ug/l	0.1	N	<0.1
Benfluralin	ug/l	0.1	N	<0.1
Bifenox	ug/l	0.1	N	(278) <0.1
Bifenthrin	ug/l	0.1	N	<0.1
Binapacryl	ug/l	0.1	N	(278) <0.1
Biphenyl	ug/l	0.1	N	(278) <0.1
Bitertanol	ug/l	0.1	N	<0.1
Boscalid	ug/l	0.1	N	<0.1
Bromacil	ug/l	0.1	N	<0.1
Bromophos	ug/l	0.1	N	<0.1
Bromophos-Ethyl	ug/l	0.1	N	<0.1
Bromopropylate	ug/l	0.1	N	<0.1
Bupirimate	ug/l	0.1	N	<0.1
Buprofezine	ug/l	0.1	N	<0.1
Butachlor	ug/l	0.1	N	<0.1
Cadusafos	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbophenothion	ug/l	0.1	N	<0.1
Carboxine	**ug/l**	**0.1**	**N**	**1.7**
Carfentrazone Ethyl	ug/l	0.1	N	<0.1
Chlorobenzilate	ug/l	0.1	N	(278) <0.1
Chlordane (sum of cis and trans isomers)	ug/l	0.1	N	<0.1
Chlordimeform	ug/l	0.1	N	(278) <0.1
Chlorethoxyfos	ug/l	0.1	N	<0.1
Chlorfenapyr	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Chlorfenvinphos	ug/l	0.1	N	<0.1
Chlormephos	ug/l	0.1	N	<0.1
Chloropropylate	ug/l	0.1	N	<0.1
Chlorothalonil	ug/l	0.1	N	<0.1
Chlorpropham	**ug/l**	**0.1**	**N**	**1.8**
Chlorpyrifos	ug/l	0.1	N	<0.1
Chlorpyrifos methyl	ug/l	0.1	N	<0.1
Chlorthal Dimethyl	ug/l	0.1	N	<0.1
Chlorthion	ug/l	0.1	N	<0.1
Chlorthiophos	ug/l	0.1	N	<0.1
Chlozolinate	ug/l	0.1	N	<0.1
Clodinafop Propargyl	ug/l	0.1	N	<0.1
Clomazone	ug/l	0.1	N	<0.1
Cloquintocet mexyl	ug/l	0.1	N	<0.1
Coumaphos	ug/l	0.1	N	<0.1
Cyflufenamid	ug/l	0.1	N	<0.1
Cyfluthrin	ug/l	0.1	N	<0.1
Cypermethrin	ug/l	0.1	N	<0.1
Cyphenothrin	ug/l	0.1	N	<0.1
Cyproconazole	ug/l	0.1	N	<0.1
Cyprodinil	ug/l	0.1	N	<0.1
Deltamethrin	ug/l	0.1	N	<0.1
Desmetryn	ug/l	0.1	N	<0.1
Diafenthiuron	ug/l	0.1	N	<0.1
Dialifos	ug/l	0.1	N	<0.1
Diazinon	ug/l	0.1	N	<0.1
Dichlobenil	ug/l	0.1	N	<0.1
Dichlofenthion	ug/l	0.1	N	<0.1
Dichlorvos	ug/l	0.1	N	<0.1
Diclobutrazol	ug/l	0.1	N	<0.1
Dicloran	ug/l	0.1	N	<0.1
Dicofol	ug/l	0.1	N	(278) <0.1
Dieldrin	ug/l	0.1	N	<0.1
Difenoconazole	ug/l	0.1	N	<0.1
Diflufenican	ug/l	0.1	N	<0.1
Dimethenamid	ug/l	0.1	N	<0.1
Dimethomorph	ug/l	0.1	N	<0.1
Dimoxystrobin	ug/l	0.1	N	<0.1

Report Number : 865458 003
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Groundwater
Date Sampled : 17-JUN-2020
Customer Reference : BH303
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Dioxabenzofos	ug/l	0.1	N	(278) <0.1
Diphenamid	ug/l	0.1	N	<0.1
Diphenylamine	ug/l	0.1	N	<0.1
Disulfoton	ug/l	0.1	N	<0.1
Ditalimfos	ug/l	0.1	N	<0.1
Edifenphos	ug/l	0.1	N	<0.1
Endosulphan alpha	ug/l	0.1	N	<0.1
Endosulphan beta	ug/l	0.1	N	<0.1
Endosulphan sulphate	ug/l	0.1	N	<0.1
Endrin	ug/l	0.1	N	<0.1
EPN	ug/l	0.1	N	(278) <0.1
Epoxiconazole	ug/l	0.1	N	<0.1
EPTC	**ug/l**	**0.1**	**N**	**0.6**
Etaconazole	ug/l	0.1	N	<0.1
Ethion	ug/l	0.1	N	<0.1
Ethofumesate	ug/l	0.1	N	<0.1
Ethoprophos	ug/l	0.1	N	<0.1
Ethoxyquin	ug/l	0.1	N	(278) <0.1
Etofenprox	ug/l	0.1	N	<0.1
Etoxazole	ug/l	0.1	N	<0.1
Etridiazole	ug/l	0.1	N	<0.1
Etrimfos	ug/l	0.1	N	<0.1
Famoxadone	ug/l	0.1	N	<0.1
Famphur	ug/l	0.1	N	<0.1
Fenamidone	ug/l	0.1	N	<0.1
Fenamiphos	ug/l	0.1	N	<0.1
Fenarimol	ug/l	0.1	N	<0.1
Fenbuconazole	ug/l	0.1	N	<0.1
Fenchlorphos	ug/l	0.1	N	<0.1
Fenitrothion	ug/l	0.1	N	<0.1
Fenpiclonil	ug/l	0.1	N	<0.1
Fenpropathrin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenson	**ug/l**	**0.1**	**N**	**8.0**
Fensulfothion	ug/l	0.1	N	<0.1
Fenthion	ug/l	0.1	N	<0.1
Fenvalerate	ug/l	0.1	N	<0.1
Fipronil	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Fipronil sulphone	ug/l	0.1	N	<0.1
Flamprop isopropyl	ug/l	0.1	N	<0.1
Fluazifop-P-Butyl	ug/l	0.1	N	<0.1
Flucythrinate	ug/l	0.1	N	<0.1
Fludioxonil	ug/l	0.1	N	<0.1
Flufenacet	ug/l	0.1	N	<0.1
Flumetralin	ug/l	0.1	N	<0.1
Flumioxazin	ug/l	0.1	N	<0.1
Flumorph	ug/l	0.1	N	<0.1
Fluopyram	ug/l	0.1	N	<0.1
Fluquinconazole	ug/l	0.1	N	<0.1
Fluroxypyr-1-methylheptyl ester	ug/l	0.1	N	<0.1
Flusilazole	ug/l	0.1	N	<0.1
Flutolanil	ug/l	0.1	N	<0.1
Fluxapyroxad	ug/l	0.1	N	<0.1
Fonophos	ug/l	0.1	N	<0.1
Formothion	ug/l	0.1	N	<0.1
Furalaxyl	ug/l	0.1	N	<0.1
Haloxyfop etotyl	ug/l	0.1	N	<0.1
Haloxyfop Methyl	ug/l	0.1	N	<0.1
Heptachlor	ug/l	0.1	N	<0.1
Heptachlor epoxide	ug/l	0.1	N	<0.1
Heptachlor exo Epoxide	ug/l	0.1	N	<0.1
Heptenophos	ug/l	0.1	N	<0.1
Hexachlorobenzene	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (alpha)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (beta)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (delta)	ug/l	0.1	N	<0.1
Hexaconazole	ug/l	0.1	N	<0.1
Hexazinone	ug/l	0.1	N	<0.1
Iodofenphos	ug/l	0.1	N	<0.1
Iprodione	ug/l	0.1	N	<0.1
Isazofos	ug/l	0.1	N	<0.1
Isocarbophos	ug/l	0.1	N	<0.1
Isodrin	ug/l	0.1	N	<0.1
Isofenphos	ug/l	0.1	N	<0.1
Isofenphos Methyl	ug/l	0.1	N	<0.1
Isomethiozin	ug/l	0.1	N	<0.1

Report Number : 865458 003
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Groundwater
Date Sampled : 17-JUN-2020
Customer Reference : BH303
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Isoprothiolane	ug/l	0.1	N	<0.1
Isopyrazam	ug/l	0.1	N	<0.1
Kresoxim Methyl	ug/l	0.1	N	<0.1
Lambda Cyhalothrin	ug/l	0.1	N	<0.1
Lenacil	ug/l	0.1	N	<0.1
Leptophos	ug/l	0.1	N	<0.1
Lindane	ug/l	0.1	N	<0.1
Malathion	ug/l	0.1	N	<0.1
MCPA-thioethyl	ug/l	0.1	N	<0.1
Mecarbam	ug/l	0.1	N	<0.1
Mepanipyrim	ug/l	0.1	N	<0.1
Mephosfolan	ug/l	0.1	N	<0.1
Mepronil	ug/l	0.1	N	<0.1
Metalaxyl	ug/l	0.1	N	<0.1
Metazachlor	ug/l	0.1	N	<0.1
Methacrifos	ug/l	0.1	N	<0.1
Methidathion	ug/l	0.1	N	<0.1
Methoxychlor	ug/l	0.1	N	<0.1
Methyl Paraoxon	ug/l	0.1	N	(278) <0.1
Metolachlor	ug/l	0.1	N	<0.1
Metolcarb	ug/l	0.1	N	<0.1
Metrafenone	ug/l	0.1	N	<0.1
Metribuzin	ug/l	0.1	N	<0.1
Mevinphos	ug/l	0.1	N	<0.1
Mirex	ug/l	0.1	N	<0.1
Molinate	ug/l	0.1	N	<0.1
Myclobutanil	ug/l	0.1	N	<0.1
Napropamide	ug/l	0.1	N	<0.1
Nitrofen	ug/l	0.1	N	<0.1
Nitrothal isopropyl	ug/l	0.1	N	<0.1
Nuarimol	ug/l	0.1	N	<0.1
o,p'-DDT	ug/l	0.1	N	<0.1
o,p-DDD	ug/l	0.1	N	<0.1
o,p-DDE	ug/l	0.1	N	<0.1
Octylisothiazolon	ug/l	0.1	N	<0.1
Ofurace	ug/l	0.1	N	<0.1
Orysastrobin	ug/l	0.1	N	<0.1
Oxadiazon	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Oxadixyl	ug/l	0.1	N	<0.1
Oxyfluorfen	ug/l	0.1	N	<0.1
p,p-DDD	ug/l	0.1	N	<0.1
p,p-DDE	ug/l	0.1	N	<0.1
p,p-DDT	ug/l	0.1	N	<0.1
Paclobutrazol	ug/l	0.1	N	<0.1
Paraoxon	ug/l	0.1	N	<0.1
Parathion	ug/l	0.1	N	<0.1
Parathion methyl	ug/l	0.1	N	<0.1
Penconazole	ug/l	0.1	N	<0.1
Pendimethalin	ug/l	0.1	N	<0.1
Pentachloroaniline	ug/l	0.1	N	<0.1
Pentachlorophenol	ug/l	0.1	N	(278) <0.1
Pentanochlor	ug/l	0.1	N	<0.1
Permethrin	ug/l	0.1	N	<0.1
Pethoxamid	ug/l	0.1	N	<0.1
Phenothrin	ug/l	0.1	N	<0.1
Phenthoate	ug/l	0.1	N	<0.1
Phorate	ug/l	0.1	N	<0.1
Phosalone	ug/l	0.1	N	<0.1
Phosfolan	ug/l	0.1	N	<0.1
Picoxystrobin	ug/l	0.1	N	<0.1
Piperonyl Butoxide	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	<0.1
Pirimiphos Ethyl	ug/l	0.1	N	<0.1
Pirimiphos methyl	ug/l	0.1	N	<0.1
Pretilachlor	ug/l	0.1	N	<0.1
Procymidone	ug/l	0.1	N	<0.1
Profenofos	ug/l	0.1	N	<0.1
Prometon	ug/l	0.1	N	<0.1
Prometryn	ug/l	0.1	N	<0.1
Propachlor	ug/l	0.1	N	<0.1
Propanil	ug/l	0.1	N	<0.1
Propaphos	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	<0.1
Propazine	ug/l	0.1	N	<0.1
Propetamphos	ug/l	0.1	N	<0.1
Propham	**ug/l**	**0.1**	**N**	**15**

Report Number : 865458 003
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Groundwater
Date Sampled : 17-JUN-2020
Customer Reference : BH303
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Propiconazole	ug/l	0.1	N	<0.1
Propyzamide	ug/l	0.1	N	<0.1
Proquinazid	ug/l	0.1	N	<0.1
Prosulfocarb	ug/l	0.1	N	<0.1
Prothiofos	ug/l	0.1	N	<0.1
Pyraclostrobin	ug/l	0.1	N	<0.1
Pyraflufen ethyl	ug/l	0.1	N	<0.1
Pyrazophos	ug/l	0.1	N	<0.1
Pyridaben	ug/l	0.1	N	<0.1
Pyridaphenthion	ug/l	0.1	N	<0.1
Pyrimethanil	ug/l	0.1	N	<0.1
Pyriproxyfen	ug/l	0.1	N	<0.1
Quinalphos	ug/l	0.1	N	<0.1
Quinoxyfen	ug/l	0.1	N	<0.1
Quintozene	ug/l	0.1	N	<0.1
Quizalofop-ethyl	ug/l	0.1	N	<0.1
Secbumeton	ug/l	0.1	N	<0.1
Silafluofen	ug/l	0.1	N	<0.1
Simazine	ug/l	0.1	N	<0.1
Simeconazole	ug/l	0.1	N	<0.1
Sulfallate	ug/l	0.1	N	<0.1
Sulprofos	ug/l	0.1	N	<0.1
Tebuconazole	ug/l	0.1	N	<0.1
Tebufenpyrad	ug/l	0.1	N	<0.1
Tebupirimiphos	ug/l	0.1	N	<0.1
Tecnazene	ug/l	0.1	N	<0.1
Tefluthrin	ug/l	0.1	N	<0.1
Terbacil	ug/l	0.1	N	<0.1
Terbufos	ug/l	0.1	N	<0.1
Terbumeton	ug/l	0.1	N	<0.1
Terbuthylazine	ug/l	0.1	N	<0.1
Terbutryn	ug/l	0.1	N	<0.1
Tetrachlorvinphos	ug/l	0.1	N	<0.1
Tetraconazole	ug/l	0.1	N	<0.1
Tetradifon	ug/l	0.1	N	<0.1
tetraethyl dithiopyrophosphate	ug/l	0.1	N	<0.1
Tetramethrin	ug/l	0.1	N	<0.1
Tetrasul	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Thiamethoxam	ug/l	0.1	N	(278) <0.1
Thiobencarb	ug/l	0.1	N	<0.1
Tolclofos-methyl	ug/l	0.1	N	<0.1
Triadimefon	ug/l	0.1	N	<0.1
Triadimenol	ug/l	0.1	N	<0.1
Triallate	ug/l	0.1	N	<0.1
Triazamate	ug/l	0.1	N	<0.1
Triazophos	ug/l	0.1	N	<0.1
Trifloxystrobin	ug/l	0.1	N	<0.1
Triflumizole	ug/l	0.1	N	(278) <0.1
Trifluralin	ug/l	0.1	N	<0.1
Vinclozolin	ug/l	0.1	N	<0.1
Vinclozolin metabolite 3,5-Dichloroaniline	ug/l	0.1	N	(278) <0.1

Report Number : 865458 003
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Groundwater
Date Sampled : 17-JUN-2020
Customer Reference : BH303
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
2-(1-Naphthyl)acetamide	ug/l	0.1	N	<0.1
3-hydroxycarbofuran	ug/l	0.1	N	<0.1
6-Benzyladenine	ug/l	0.1	N	<0.1
Acephate	ug/l	0.1	N	<0.1
Acetamiprid	ug/l	0.1	N	<0.1
Acibenzolar-S-methyl	ug/l	0.1	N	<0.1
Aldicarb	ug/l	0.1	N	<0.1
Aldicarb sulphone	ug/l	0.1	N	<0.1
Aldicarb sulphoxide	ug/l	0.1	N	<0.1
Aminocarb	ug/l	0.1	N	<0.1
Azadirachtin	ug/l	0.1	N	<0.1
Azinphos ethyl	ug/l	0.1	N	<0.1
Azinphos methyl	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Bendiocarb	ug/l	0.1	N	<0.1
Benfuracarb	ug/l	0.1	N	(278) <0.1
Butralin	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbendazim	ug/l	0.1	N	<0.1
Carbetamide	ug/l	0.1	N	<0.1
Carbofuran	ug/l	0.1	N	<0.1
Carbosulfan	ug/l	0.1	N	(278) <0.1
Carpropamid	ug/l	0.1	N	<0.1
Chinomethionat	ug/l	0.1	N	<0.1
Chlorantraniliprole	ug/l	0.1	N	<0.1
Chlorbromuron	ug/l	0.1	N	<0.1
Chlorfluazuron	ug/l	0.1	N	<0.1
Chloridazon	**ug/l**	**0.1**	**N**	**0.2**
Chlorotoluron	ug/l	0.1	N	<0.1
Chlorpropham	ug/l	0.1	N	<0.1
Clofentezine	ug/l	0.1	N	<0.1
Clothianidin	ug/l	0.1	N	<0.1
Cyanazine	ug/l	0.1	N	<0.1
Cyazofamid	ug/l	0.1	N	<0.1
Cycluron	ug/l	0.1	N	<0.1
Cymoxanil	ug/l	0.1	N	<0.1
Cythioate	ug/l	0.1	N	<0.1
Demeton	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Demeton-s-methyl	ug/l	0.1	N	<0.1
Demeton-s-methyl sulphone	ug/l	0.1	N	<0.1
Dichlofluanid	ug/l	0.1	N	<0.1
Dicrotophos	ug/l	0.1	N	<0.1
Diethofencarb	ug/l	0.1	N	<0.1
Diflubenzuron	ug/l	0.1	N	<0.1
Dimefuron	ug/l	0.1	N	<0.1
Dimethoate	ug/l	0.1	N	<0.1
Diniconazole	ug/l	0.1	N	<0.1
Dinotefuran	ug/l	0.1	N	<0.1
Dioxacarb	ug/l	0.1	N	(278) <0.1
Disulfoton sulfoxide	ug/l	0.1	N	<0.1
Disulfoton sulphone	ug/l	0.1	N	<0.1
Diuron	ug/l	0.1	N	<0.1
DMSA	ug/l	0.1	N	<0.1
DMST	ug/l	0.1	N	<0.1
Dodemorph	ug/l	0.1	N	<0.1
Dodine	ug/l	0.1	N	(278) <0.1
Emamectin	ug/l	0.1	N	<0.1
Ethidimuron	ug/l	0.1	N	<0.1
Ethiofencarb	ug/l	0.1	N	<0.1
Ethiofencarb sulfone	ug/l	0.1	N	<0.1
Ethiofencarb sulfoxide	ug/l	0.1	N	<0.1
Ethiprole	ug/l	0.1	N	<0.1
Ethirimol	ug/l	0.1	N	<0.1
Fenamiphos sulfone	ug/l	0.1	N	<0.1
Fenamiphos sulfoxide	ug/l	0.1	N	<0.1
Fenazaquin	ug/l	0.1	N	<0.1
Fenchlorphos oxon	ug/l	0.1	N	<0.1
Fenhexamid	ug/l	0.1	N	<0.1
Fenoxycarb	ug/l	0.1	N	<0.1
Fenpropidin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenpyroximate	ug/l	0.1	N	<0.1
Fenthion Sulphone	ug/l	0.1	N	<0.1
Fenthion Sulphoxide	ug/l	0.1	N	<0.1
Fenuron	**ug/l**	**0.1**	**N**	**0.4**
Flonicamid	ug/l	0.1	N	<0.1

Report Number : 865458 003
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Groundwater
Date Sampled : 17-JUN-2020
Customer Reference : BH303
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Fluazinam	ug/l	0.1	N	<0.1
Flufenoxuron	ug/l	0.1	N	<0.1
Fluometuron	ug/l	0.1	N	<0.1
Fluopicolide	ug/l	0.1	N	<0.1
Fluorochloridone	ug/l	0.1	N	<0.1
Fluoxastrobin	ug/l	0.1	N	<0.1
Flurtamone	ug/l	0.1	N	<0.1
Flutriafol	ug/l	0.1	N	<0.1
Forchlorfenuron	ug/l	0.1	N	<0.1
Fosthiasate	ug/l	0.1	N	<0.1
Fuberidazole	ug/l	0.1	N	<0.1
Furathiocarb	ug/l	0.1	N	<0.1
Hexaflumuron	ug/l	0.1	N	<0.1
Hexythiazox	ug/l	0.1	N	<0.1
Imazalil	ug/l	0.1	N	(278) <0.1
Imibenconazole	ug/l	0.1	N	(278) <0.1
Imidacloprid	ug/l	0.1	N	<0.1
Indoxacarb	ug/l	0.1	N	<0.1
Iprovalicarb	ug/l	0.1	N	<0.1
Isoprocarb	ug/l	0.1	N	<0.1
Isoproturon	ug/l	0.1	N	<0.1
Isoxaben	ug/l	0.1	N	<0.1
Karbutilate	ug/l	0.1	N	<0.1
Linuron	ug/l	0.1	N	<0.1
Lufenuron	ug/l	0.1	N	<0.1
Malaoxon	ug/l	0.1	N	<0.1
Mandipropamid	ug/l	0.1	N	<0.1
Mefenacet	ug/l	0.1	N	<0.1
Metamitron	ug/l	0.1	N	<0.1
Metconazole	ug/l	0.1	N	<0.1
Methabenzthiazuron	ug/l	0.1	N	<0.1
Methamidophos	ug/l	0.1	N	<0.1
Methiocarb	ug/l	0.1	N	<0.1
Methiocarb Sulfone	ug/l	0.1	N	<0.1
Methiocarb Sulfoxide	ug/l	0.1	N	<0.1
Methomyl	ug/l	0.1	N	<0.1
Methoxyfenozide	ug/l	0.1	N	(278) <0.1
Metobromuron	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Metoxuron	ug/l	0.1	N	<0.1
Monocrotophos	ug/l	0.1	N	<0.1
Monolinuron	ug/l	0.1	N	<0.1
Monuron	ug/l	0.1	N	<0.1
Neburon	ug/l	0.1	N	<0.1
Nicotine	ug/l	0.1	N	<0.1
Nitenpyram	ug/l	0.1	N	<0.1
Novaluron	ug/l	0.1	N	<0.1
Omethoate	ug/l	0.1	N	<0.1
Oxadiargyl	ug/l	0.1	N	<0.1
Oxamyl	ug/l	0.1	N	<0.1
Oxycarboxin	ug/l	0.1	N	<0.1
Oxydemeton-Methyl	ug/l	0.1	N	<0.1
Pencycuron	ug/l	0.1	N	<0.1
Phorate sulfone	ug/l	0.1	N	<0.1
Phorate sulfoxide	ug/l	0.1	N	<0.1
Phosmet	ug/l	0.1	N	<0.1
Phosphamidon	ug/l	0.1	N	<0.1
Phoxim	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	<0.1
Prochloraz	ug/l	0.1	N	<0.1
Promecarb	ug/l	0.1	N	<0.1
Propamocarb	ug/l	0.1	N	(278) <0.1
Propaquizafop	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	<0.1
Propoxur	ug/l	0.1	N	<0.1
Pymetrozine	ug/l	0.1	N	<0.1
Pyrifenox	ug/l	0.1	N	<0.1
Resmethrin	ug/l	0.1	N	<0.1
Rotenone	ug/l	0.1	N	<0.1
Spinosad	ug/l	0.1	N	<0.1
Spirodiclofen	ug/l	0.1	N	<0.1
Spiromesifen	ug/l	0.1	N	<0.1
Spiroxamine	ug/l	0.1	N	<0.1
Tebufenozide	ug/l	0.1	N	<0.1
Teflubenzuron	ug/l	0.1	N	<0.1
Temephos	ug/l	0.1	N	<0.1
Terbufos sulfone	ug/l	0.1	N	<0.1

Report Number : 865458 003
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Groundwater
Date Sampled : 17-JUN-2020
Customer Reference : BH303
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Terbufos sulfoxide	ug/l	0.1	N	<0.1
Thiabendazole	ug/l	0.1	N	<0.1
Thiacloprid	ug/l	0.1	N	<0.1
Thiazafluron	ug/l	0.1	N	<0.1
Thiodicarb	ug/l	0.1	N	<0.1
Thiofanox	ug/l	0.1	N	<0.1
Thiophanate Methyl	ug/l	0.1	N	<0.1
Tolylfluanid	ug/l	0.1	N	<0.1
Trichlorfon	ug/l	0.1	N	<0.1
Tridemorph	ug/l	0.1	N	<0.1
Trifloxysulfuron	ug/l	0.1	N	<0.1
Triflumuron	ug/l	0.1	N	<0.1
Triflusulfuron-methyl	ug/l	0.1	N	<0.1
Triticonazole	ug/l	0.1	N	<0.1
Vamidothion	ug/l	0.1	N	<0.1
Vernolate	ug/l	0.1	N	<0.1
Zoxamide	ug/l	0.1	N	<0.1

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Concept Life Sciences

Certificate of Analysis

Unit 2
The Links
Bar Hill
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CB23 8UD
Tel : 01954 782791
Fax : 01954 782183

Report Number : 865458 004
Date of Issue : 24-Jun-2020

Customer : Pam Brown Associates
Contact : Dr Melissa Morales
Address : 2 Needwood House, Lancaster Park, Newborough Road, Needwood Burton on Trent, DE13 9PD

Samples Received : 18-Jun-2020
Analysis Started : 19-Jun-2020
Concept Job Reference : 865458-1
Analysis Requested : MRPS by GC (CSOPP611), MRPS by LC (CSOPP603)
Variety : Groundwater
Date Sampled : 17-JUN-2020
Customer Reference : BH304
Location : Wheathampstead
Sample Description : Water

Results Summary

Analyte	Level Found	Units	LOD	EU MRL mg/kg	CODEX MRL mg/kg	Symbol
MRPS by GC (CSOPP611)						
Carboxine	**1.0**	ug/l	0.1			N
Chlorpropham	**0.2**	ug/l	0.1			N
EPTC	**1.0**	ug/l	0.1			N
Fenson	**4.3**	ug/l	0.1			N
Propham	**1.9**	ug/l	0.1			N
MRPS by LC (CSOPP603)						
Fenuron	**0.3**	ug/l	0.1			N

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.
Customers are responsible for information provided where, if incorrect, it could affect the validity of the results.
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 Concept Life Sciences SOPs
All results have been reviewed in accordance with QMSection 15 of the Concept Life Sciences, Analytical Services Quality Manual
All samples prepared in accordance with the CODEX alimentarius

Report checked
and authorised by :
Matt Line
Section Manager - Pesticides

Issued by :
Naomi Woodward
Customer Service Advisor

Index to symbols used in this report

Value	Description
278	Data reported is qualitative as recovery is outside the 60 to 140% range
5	Results are Semiquantitative
N	Analysis is not UKAS accredited

Report Number : 865458 004
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Groundwater
Date Sampled : 17-JUN-2020
Customer Reference : BH304
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
2,4,6-Trichlorophenol	ug/l	0.1	N	<0.1
2-Phenylphenol	ug/l	0.1	N	<0.1
Acetochlor	ug/l	0.1	N	<0.1
Aclonifen	ug/l	0.1	N	<0.1
Acrinathrin	ug/l	0.1	N	(278) <0.1
Alachlor	ug/l	0.1	N	<0.1
Aldrin	ug/l	0.1	N	<0.1
Ametryn	ug/l	0.1	N	<0.1
Atraton	ug/l	0.1	N	<0.1
Atrazine	ug/l	0.1	N	<0.1
Azaconazole	ug/l	0.1	N	(278) <0.1
Azobenzene	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Benalaxyl	ug/l	0.1	N	<0.1
Benfluralin	ug/l	0.1	N	<0.1
Bifenox	ug/l	0.1	N	(278) <0.1
Bifenthrin	ug/l	0.1	N	<0.1
Binapacryl	ug/l	0.1	N	(278) <0.1
Biphenyl	ug/l	0.1	N	(278) <0.1
Bitertanol	ug/l	0.1	N	<0.1
Boscalid	ug/l	0.1	N	<0.1
Bromacil	ug/l	0.1	N	<0.1
Bromophos	ug/l	0.1	N	<0.1
Bromophos-Ethyl	ug/l	0.1	N	<0.1
Bromopropylate	ug/l	0.1	N	<0.1
Bupirimate	ug/l	0.1	N	<0.1
Buprofezine	ug/l	0.1	N	<0.1
Butachlor	ug/l	0.1	N	<0.1
Cadusafos	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbophenothion	ug/l	0.1	N	<0.1
Carboxine	**ug/l**	**0.1**	**N**	**1.0**
Carfentrazone Ethyl	ug/l	0.1	N	<0.1
Chlorobenzilate	ug/l	0.1	N	(278) <0.1
Chlordane (sum of cis and trans isomers)	ug/l	0.1	N	<0.1
Chlordimeform	ug/l	0.1	N	(278) <0.1
Chlorethoxyfos	ug/l	0.1	N	<0.1
Chlorfenapyr	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Chlorfenvinphos	ug/l	0.1	N	<0.1
Chlormephos	ug/l	0.1	N	<0.1
Chloropropylate	ug/l	0.1	N	<0.1
Chlorothalonil	ug/l	0.1	N	<0.1
Chlorpropham	**ug/l**	**0.1**	**N**	**0.2**
Chlorpyrifos	ug/l	0.1	N	<0.1
Chlorpyrifos methyl	ug/l	0.1	N	<0.1
Chlorthal Dimethyl	ug/l	0.1	N	<0.1
Chlorthion	ug/l	0.1	N	<0.1
Chlorthiophos	ug/l	0.1	N	<0.1
Chlozolinate	ug/l	0.1	N	<0.1
Clodinafop Propargyl	ug/l	0.1	N	<0.1
Clomazone	ug/l	0.1	N	<0.1
Cloquintocet mexyl	ug/l	0.1	N	<0.1
Coumaphos	ug/l	0.1	N	<0.1
Cyflufenamid	ug/l	0.1	N	<0.1
Cyfluthrin	ug/l	0.1	N	<0.1
Cypermethrin	ug/l	0.1	N	<0.1
Cyphenothrin	ug/l	0.1	N	<0.1
Cyproconazole	ug/l	0.1	N	<0.1
Cyprodinil	ug/l	0.1	N	<0.1
Deltamethrin	ug/l	0.1	N	<0.1
Desmetryn	ug/l	0.1	N	<0.1
Diafenthiuron	ug/l	0.1	N	<0.1
Dialifos	ug/l	0.1	N	<0.1
Diazinon	ug/l	0.1	N	<0.1
Dichlobenil	ug/l	0.1	N	<0.1
Dichlofenthion	ug/l	0.1	N	<0.1
Dichlorvos	ug/l	0.1	N	<0.1
Diclobutrazol	ug/l	0.1	N	<0.1
Dicloran	ug/l	0.1	N	<0.1
Dicofol	ug/l	0.1	N	(278) <0.1
Dieldrin	ug/l	0.1	N	<0.1
Difenoconazole	ug/l	0.1	N	<0.1
Diflufenican	ug/l	0.1	N	<0.1
Dimethenamid	ug/l	0.1	N	<0.1
Dimethomorph	ug/l	0.1	N	<0.1
Dimoxystrobin	ug/l	0.1	N	<0.1

Report Number : 865458 004
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Groundwater
Date Sampled : 17-JUN-2020
Customer Reference : BH304
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Dioxabenzofos	ug/l	0.1	N	(278) <0.1
Diphenamid	ug/l	0.1	N	<0.1
Diphenylamine	ug/l	0.1	N	<0.1
Disulfoton	ug/l	0.1	N	<0.1
Ditalimfos	ug/l	0.1	N	<0.1
Edifenphos	ug/l	0.1	N	<0.1
Endosulphan alpha	ug/l	0.1	N	<0.1
Endosulphan beta	ug/l	0.1	N	<0.1
Endosulphan sulphate	ug/l	0.1	N	<0.1
Endrin	ug/l	0.1	N	<0.1
EPN	ug/l	0.1	N	(278) <0.1
Epoxiconazole	ug/l	0.1	N	<0.1
EPTC	**ug/l**	**0.1**	**N**	**1.0**
Etaconazole	ug/l	0.1	N	<0.1
Ethion	ug/l	0.1	N	<0.1
Ethofumesate	ug/l	0.1	N	<0.1
Ethoprophos	ug/l	0.1	N	<0.1
Ethoxyquin	ug/l	0.1	N	(278) <0.1
Etofenprox	ug/l	0.1	N	<0.1
Etoxazole	ug/l	0.1	N	<0.1
Etridiazole	ug/l	0.1	N	<0.1
Etrimfos	ug/l	0.1	N	<0.1
Famoxadone	ug/l	0.1	N	<0.1
Famphur	ug/l	0.1	N	<0.1
Fenamidone	ug/l	0.1	N	<0.1
Fenamiphos	ug/l	0.1	N	<0.1
Fenarimol	ug/l	0.1	N	<0.1
Fenbuconazole	ug/l	0.1	N	<0.1
Fenchlorphos	ug/l	0.1	N	<0.1
Fenitrothion	ug/l	0.1	N	<0.1
Fenpiclonil	ug/l	0.1	N	<0.1
Fenpropathrin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenson	**ug/l**	**0.1**	**N**	**4.3**
Fensulfothion	ug/l	0.1	N	<0.1
Fenthion	ug/l	0.1	N	<0.1
Fenvalerate	ug/l	0.1	N	<0.1
Fipronil	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Fipronil sulphone	ug/l	0.1	N	<0.1
Flamprop isopropyl	ug/l	0.1	N	<0.1
Fluazifop-P-Butyl	ug/l	0.1	N	<0.1
Flucythrinate	ug/l	0.1	N	<0.1
Fludioxonil	ug/l	0.1	N	<0.1
Flufenacet	ug/l	0.1	N	<0.1
Flumetralin	ug/l	0.1	N	<0.1
Flumioxazin	ug/l	0.1	N	<0.1
Flumorph	ug/l	0.1	N	<0.1
Fluopyram	ug/l	0.1	N	<0.1
Fluquinconazole	ug/l	0.1	N	<0.1
Fluroxypyr-1-methylheptyl ester	ug/l	0.1	N	<0.1
Flusilazole	ug/l	0.1	N	<0.1
Flutolanil	ug/l	0.1	N	<0.1
Fluxapyroxad	ug/l	0.1	N	<0.1
Fonophos	ug/l	0.1	N	<0.1
Formothion	ug/l	0.1	N	<0.1
Furalaxyl	ug/l	0.1	N	<0.1
Haloxyfop etotyl	ug/l	0.1	N	<0.1
Haloxyfop Methyl	ug/l	0.1	N	<0.1
Heptachlor	ug/l	0.1	N	<0.1
Heptachlor epoxide	ug/l	0.1	N	<0.1
Heptachlor exo Epoxide	ug/l	0.1	N	<0.1
Heptenophos	ug/l	0.1	N	<0.1
Hexachlorobenzene	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (alpha)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (beta)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (delta)	ug/l	0.1	N	<0.1
Hexaconazole	ug/l	0.1	N	<0.1
Hexazinone	ug/l	0.1	N	<0.1
Iodofenphos	ug/l	0.1	N	<0.1
Iprodione	ug/l	0.1	N	<0.1
Isazofos	ug/l	0.1	N	<0.1
Isocarbophos	ug/l	0.1	N	<0.1
Isodrin	ug/l	0.1	N	<0.1
Isofenphos	ug/l	0.1	N	<0.1
Isofenphos Methyl	ug/l	0.1	N	<0.1
Isomethiozin	ug/l	0.1	N	<0.1

Report Number : 865458 004
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Groundwater
Date Sampled : 17-JUN-2020
Customer Reference : BH304
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Isoprothiolane	ug/l	0.1	N	<0.1
Isopyrazam	ug/l	0.1	N	<0.1
Kresoxim Methyl	ug/l	0.1	N	<0.1
Lambda Cyhalothrin	ug/l	0.1	N	<0.1
Lenacil	ug/l	0.1	N	<0.1
Leptophos	ug/l	0.1	N	<0.1
Lindane	ug/l	0.1	N	<0.1
Malathion	ug/l	0.1	N	<0.1
MCPA-thioethyl	ug/l	0.1	N	<0.1
Mecarbam	ug/l	0.1	N	<0.1
Mepanipyrim	ug/l	0.1	N	<0.1
Mephosfolan	ug/l	0.1	N	<0.1
Mepronil	ug/l	0.1	N	<0.1
Metalaxyl	ug/l	0.1	N	<0.1
Metazachlor	ug/l	0.1	N	<0.1
Methacrifos	ug/l	0.1	N	<0.1
Methidathion	ug/l	0.1	N	<0.1
Methoxychlor	ug/l	0.1	N	<0.1
Methyl Paraoxon	ug/l	0.1	N	(278) <0.1
Metolachlor	ug/l	0.1	N	<0.1
Metolcarb	ug/l	0.1	N	<0.1
Metrafenone	ug/l	0.1	N	<0.1
Metribuzin	ug/l	0.1	N	<0.1
Mevinphos	ug/l	0.1	N	<0.1
Mirex	ug/l	0.1	N	<0.1
Molinate	ug/l	0.1	N	<0.1
Myclobutanil	ug/l	0.1	N	<0.1
Napropamide	ug/l	0.1	N	<0.1
Nitrofen	ug/l	0.1	N	<0.1
Nitrothal isopropyl	ug/l	0.1	N	<0.1
Nuarimol	ug/l	0.1	N	<0.1
o,p'-DDT	ug/l	0.1	N	<0.1
o,p-DDD	ug/l	0.1	N	<0.1
o,p-DDE	ug/l	0.1	N	<0.1
Octylisothiazolon	ug/l	0.1	N	<0.1
Ofurace	ug/l	0.1	N	<0.1
Orysastrobin	ug/l	0.1	N	<0.1
Oxadiazon	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Oxadixyl	ug/l	0.1	N	<0.1
Oxyfluorfen	ug/l	0.1	N	<0.1
p,p-DDD	ug/l	0.1	N	<0.1
p,p-DDE	ug/l	0.1	N	<0.1
p,p-DDT	ug/l	0.1	N	<0.1
Paclobutrazol	ug/l	0.1	N	<0.1
Paraoxon	ug/l	0.1	N	<0.1
Parathion	ug/l	0.1	N	<0.1
Parathion methyl	ug/l	0.1	N	<0.1
Penconazole	ug/l	0.1	N	<0.1
Pendimethalin	ug/l	0.1	N	<0.1
Pentachloroaniline	ug/l	0.1	N	<0.1
Pentachlorophenol	ug/l	0.1	N	(278) <0.1
Pentanochlor	ug/l	0.1	N	<0.1
Permethrin	ug/l	0.1	N	<0.1
Pethoxamid	ug/l	0.1	N	<0.1
Phenothrin	ug/l	0.1	N	<0.1
Phenthoate	ug/l	0.1	N	<0.1
Phorate	ug/l	0.1	N	<0.1
Phosalone	ug/l	0.1	N	<0.1
Phosfolan	ug/l	0.1	N	<0.1
Picoxystrobin	ug/l	0.1	N	<0.1
Piperonyl Butoxide	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	<0.1
Pirimiphos Ethyl	ug/l	0.1	N	<0.1
Pirimiphos methyl	ug/l	0.1	N	<0.1
Pretilachlor	ug/l	0.1	N	<0.1
Procymidone	ug/l	0.1	N	<0.1
Profenofos	ug/l	0.1	N	<0.1
Prometon	ug/l	0.1	N	<0.1
Prometryn	ug/l	0.1	N	<0.1
Propachlor	ug/l	0.1	N	<0.1
Propanil	ug/l	0.1	N	<0.1
Propaphos	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	<0.1
Propazine	ug/l	0.1	N	<0.1
Propetamphos	ug/l	0.1	N	<0.1
Propham	**ug/l**	**0.1**	**N**	**1.9**

Report Number : 865458 004
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Groundwater
Date Sampled : 17-JUN-2020
Customer Reference : BH304
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Propiconazole	ug/l	0.1	N	<0.1
Propyzamide	ug/l	0.1	N	<0.1
Proquinazid	ug/l	0.1	N	<0.1
Prosulfocarb	ug/l	0.1	N	<0.1
Prothiofos	ug/l	0.1	N	<0.1
Pyraclostrobin	ug/l	0.1	N	<0.1
Pyraflufen ethyl	ug/l	0.1	N	<0.1
Pyrazophos	ug/l	0.1	N	<0.1
Pyridaben	ug/l	0.1	N	<0.1
Pyridaphenthion	ug/l	0.1	N	<0.1
Pyrimethanil	ug/l	0.1	N	<0.1
Pyriproxyfen	ug/l	0.1	N	<0.1
Quinalphos	ug/l	0.1	N	<0.1
Quinoxyfen	ug/l	0.1	N	<0.1
Quintozene	ug/l	0.1	N	<0.1
Quizalofop-ethyl	ug/l	0.1	N	<0.1
Secbumeton	ug/l	0.1	N	<0.1
Silafluofen	ug/l	0.1	N	<0.1
Simazine	ug/l	0.1	N	<0.1
Simeconazole	ug/l	0.1	N	<0.1
Sulfallate	ug/l	0.1	N	<0.1
Sulprofos	ug/l	0.1	N	<0.1
Tebuconazole	ug/l	0.1	N	<0.1
Tebufenpyrad	ug/l	0.1	N	<0.1
Tebupirimiphos	ug/l	0.1	N	<0.1
Tecnazene	ug/l	0.1	N	<0.1
Tefluthrin	ug/l	0.1	N	<0.1
Terbacil	ug/l	0.1	N	<0.1
Terbufos	ug/l	0.1	N	<0.1
Terbumeton	ug/l	0.1	N	<0.1
Terbuthylazine	ug/l	0.1	N	<0.1
Terbutryn	ug/l	0.1	N	<0.1
Tetrachlorvinphos	ug/l	0.1	N	<0.1
Tetraconazole	ug/l	0.1	N	<0.1
Tetradifon	ug/l	0.1	N	<0.1
tetraethyl dithiopyrophosphate	ug/l	0.1	N	<0.1
Tetramethrin	ug/l	0.1	N	<0.1
Tetrasul	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Thiamethoxam	ug/l	0.1	N	(278) <0.1
Thiobencarb	ug/l	0.1	N	<0.1
Tolclofos-methyl	ug/l	0.1	N	<0.1
Triadimefon	ug/l	0.1	N	<0.1
Triadimenol	ug/l	0.1	N	<0.1
Triallate	ug/l	0.1	N	<0.1
Triazamate	ug/l	0.1	N	<0.1
Triazophos	ug/l	0.1	N	<0.1
Trifloxystrobin	ug/l	0.1	N	<0.1
Triflumizole	ug/l	0.1	N	(278) <0.1
Trifluralin	ug/l	0.1	N	<0.1
Vinclozolin	ug/l	0.1	N	<0.1
Vinclozolin metabolite 3,5-Dichloroaniline	ug/l	0.1	N	(278) <0.1

Report Number : 865458 004
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Groundwater
Date Sampled : 17-JUN-2020
Customer Reference : BH304
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
2-(1-Naphthyl)acetamide	ug/l	0.1	N	<0.1
3-hydroxycarbofuran	ug/l	0.1	N	<0.1
6-Benzyladenine	ug/l	0.1	N	<0.1
Acephate	ug/l	0.1	N	<0.1
Acetamiprid	ug/l	0.1	N	<0.1
Acibenzolar-S-methyl	ug/l	0.1	N	<0.1
Aldicarb	ug/l	0.1	N	<0.1
Aldicarb sulphone	ug/l	0.1	N	<0.1
Aldicarb sulphoxide	ug/l	0.1	N	<0.1
Aminocarb	ug/l	0.1	N	<0.1
Azadirachtin	ug/l	0.1	N	<0.1
Azinphos ethyl	ug/l	0.1	N	<0.1
Azinphos methyl	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Bendiocarb	ug/l	0.1	N	<0.1
Benfuracarb	ug/l	0.1	N	(278) <0.1
Butralin	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbendazim	ug/l	0.1	N	<0.1
Carbetamide	ug/l	0.1	N	<0.1
Carbofuran	ug/l	0.1	N	<0.1
Carbosulfan	ug/l	0.1	N	(278) <0.1
Carpropamid	ug/l	0.1	N	<0.1
Chinomethionat	ug/l	0.1	N	<0.1
Chlorantraniliprole	ug/l	0.1	N	<0.1
Chlorbromuron	ug/l	0.1	N	<0.1
Chlorfluazuron	ug/l	0.1	N	<0.1
Chloridazon	ug/l	0.1	N	<0.1
Chlorotoluron	ug/l	0.1	N	<0.1
Chlorpropham	ug/l	0.1	N	<0.1
Clofentezine	ug/l	0.1	N	<0.1
Clothianidin	ug/l	0.1	N	<0.1
Cyanazine	ug/l	0.1	N	<0.1
Cyazofamid	ug/l	0.1	N	<0.1
Cycluron	ug/l	0.1	N	<0.1
Cymoxanil	ug/l	0.1	N	<0.1
Cythioate	ug/l	0.1	N	<0.1
Demeton	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Demeton-s-methyl	ug/l	0.1	N	<0.1
Demeton-s-methyl sulphone	ug/l	0.1	N	<0.1
Dichlofluanid	ug/l	0.1	N	<0.1
Dicrotophos	ug/l	0.1	N	<0.1
Diethofencarb	ug/l	0.1	N	<0.1
Diflubenzuron	ug/l	0.1	N	<0.1
Dimefuron	ug/l	0.1	N	<0.1
Dimethoate	ug/l	0.1	N	<0.1
Diniconazole	ug/l	0.1	N	<0.1
Dinotefuran	ug/l	0.1	N	<0.1
Dioxacarb	ug/l	0.1	N	(278) <0.1
Disulfoton sulfoxide	ug/l	0.1	N	<0.1
Disulfoton sulphone	ug/l	0.1	N	<0.1
Diuron	ug/l	0.1	N	<0.1
DMSA	ug/l	0.1	N	<0.1
DMST	ug/l	0.1	N	<0.1
Dodemorph	ug/l	0.1	N	<0.1
Dodine	ug/l	0.1	N	(278) <0.1
Emamectin	ug/l	0.1	N	<0.1
Ethidimuron	ug/l	0.1	N	<0.1
Ethiofencarb	ug/l	0.1	N	<0.1
Ethiofencarb sulfone	ug/l	0.1	N	<0.1
Ethiofencarb sulfoxide	ug/l	0.1	N	<0.1
Ethiprole	ug/l	0.1	N	<0.1
Ethirimol	ug/l	0.1	N	<0.1
Fenamiphos sulfone	ug/l	0.1	N	<0.1
Fenamiphos sulfoxide	ug/l	0.1	N	<0.1
Fenazaquin	ug/l	0.1	N	<0.1
Fenchlorphos oxon	ug/l	0.1	N	<0.1
Fenhexamid	ug/l	0.1	N	<0.1
Fenoxycarb	ug/l	0.1	N	<0.1
Fenpropidin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenpyroximate	ug/l	0.1	N	<0.1
Fenthion Sulphone	ug/l	0.1	N	<0.1
Fenthion Sulphoxide	ug/l	0.1	N	<0.1
Fenuron	**ug/l**	**0.1**	**N**	**0.3**
Flonicamid	ug/l	0.1	N	<0.1

Report Number : 865458 004
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Groundwater
Date Sampled : 17-JUN-2020
Customer Reference : BH304
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Fluazinam	ug/l	0.1	N	<0.1
Flufenoxuron	ug/l	0.1	N	<0.1
Fluometuron	ug/l	0.1	N	<0.1
Fluopicolide	ug/l	0.1	N	<0.1
Fluorochloridone	ug/l	0.1	N	<0.1
Fluoxastrobin	ug/l	0.1	N	<0.1
Flurtamone	ug/l	0.1	N	<0.1
Flutriafol	ug/l	0.1	N	<0.1
Forchlorfenuron	ug/l	0.1	N	<0.1
Fosthiasate	ug/l	0.1	N	<0.1
Fuberidazole	ug/l	0.1	N	<0.1
Furathiocarb	ug/l	0.1	N	<0.1
Hexaflumuron	ug/l	0.1	N	<0.1
Hexythiazox	ug/l	0.1	N	<0.1
Imazalil	ug/l	0.1	N	(278) <0.1
Imibenconazole	ug/l	0.1	N	(278) <0.1
Imidacloprid	ug/l	0.1	N	<0.1
Indoxacarb	ug/l	0.1	N	<0.1
Iprovalicarb	ug/l	0.1	N	<0.1
Isoprocarb	ug/l	0.1	N	<0.1
Isoproturon	ug/l	0.1	N	<0.1
Isoxaben	ug/l	0.1	N	<0.1
Karbutilate	ug/l	0.1	N	<0.1
Linuron	ug/l	0.1	N	<0.1
Lufenuron	ug/l	0.1	N	<0.1
Malaoxon	ug/l	0.1	N	<0.1
Mandipropamid	ug/l	0.1	N	<0.1
Mefenacet	ug/l	0.1	N	<0.1
Metamitron	ug/l	0.1	N	<0.1
Metconazole	ug/l	0.1	N	<0.1
Methabenzthiazuron	ug/l	0.1	N	<0.1
Methamidophos	ug/l	0.1	N	<0.1
Methiocarb	ug/l	0.1	N	<0.1
Methiocarb Sulfone	ug/l	0.1	N	<0.1
Methiocarb Sulfoxide	ug/l	0.1	N	<0.1
Methomyl	ug/l	0.1	N	<0.1
Methoxyfenozide	ug/l	0.1	N	(278) <0.1
Metobromuron	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Metoxuron	ug/l	0.1	N	<0.1
Monocrotophos	ug/l	0.1	N	<0.1
Monolinuron	ug/l	0.1	N	<0.1
Monuron	ug/l	0.1	N	<0.1
Neburon	ug/l	0.1	N	<0.1
Nicotine	ug/l	0.1	N	<0.1
Nitenpyram	ug/l	0.1	N	<0.1
Novaluron	ug/l	0.1	N	<0.1
Omethoate	ug/l	0.1	N	<0.1
Oxadiargyl	ug/l	0.1	N	<0.1
Oxamyl	ug/l	0.1	N	<0.1
Oxycarboxin	ug/l	0.1	N	<0.1
Oxydemeton-Methyl	ug/l	0.1	N	<0.1
Pencycuron	ug/l	0.1	N	<0.1
Phorate sulfone	ug/l	0.1	N	<0.1
Phorate sulfoxide	ug/l	0.1	N	<0.1
Phosmet	ug/l	0.1	N	<0.1
Phosphamidon	ug/l	0.1	N	<0.1
Phoxim	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	<0.1
Prochloraz	ug/l	0.1	N	<0.1
Promecarb	ug/l	0.1	N	<0.1
Propamocarb	ug/l	0.1	N	(278) <0.1
Propaquizafop	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	<0.1
Propoxur	ug/l	0.1	N	<0.1
Pymetrozine	ug/l	0.1	N	<0.1
Pyrifenox	ug/l	0.1	N	<0.1
Resmethrin	ug/l	0.1	N	<0.1
Rotenone	ug/l	0.1	N	<0.1
Spinosad	ug/l	0.1	N	<0.1
Spirodiclofen	ug/l	0.1	N	<0.1
Spiromesifen	ug/l	0.1	N	<0.1
Spiroxamine	ug/l	0.1	N	<0.1
Tebufenozide	ug/l	0.1	N	<0.1
Teflubenzuron	ug/l	0.1	N	<0.1
Temephos	ug/l	0.1	N	<0.1
Terbufos sulfone	ug/l	0.1	N	<0.1

Report Number : 865458 004
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Groundwater
Date Sampled : 17-JUN-2020
Customer Reference : BH304
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Terbufos sulfoxide	ug/l	0.1	N	<0.1
Thiabendazole	ug/l	0.1	N	<0.1
Thiacloprid	ug/l	0.1	N	<0.1
Thiazafluron	ug/l	0.1	N	<0.1
Thiodicarb	ug/l	0.1	N	<0.1
Thiofanox	ug/l	0.1	N	<0.1
Thiophanate Methyl	ug/l	0.1	N	<0.1
Tolylfluanid	ug/l	0.1	N	<0.1
Trichlorfon	ug/l	0.1	N	<0.1
Tridemorph	ug/l	0.1	N	<0.1
Trifloxysulfuron	ug/l	0.1	N	<0.1
Triflumuron	ug/l	0.1	N	<0.1
Triflusulfuron-methyl	ug/l	0.1	N	<0.1
Triticonazole	ug/l	0.1	N	<0.1
Vamidothion	ug/l	0.1	N	<0.1
Vernolate	ug/l	0.1	N	<0.1
Zoxamide	ug/l	0.1	N	<0.1

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Certificate of Analysis

Unit 2
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Report Number : 865458 005
Date of Issue : 24-Jun-2020

Customer : Pam Brown Associates
Contact : Dr Melissa Morales
Address : 2 Needwood House, Lancaster Park, Newborough Road, Needwood Burton on Trent, DE13 9PD

Samples Received : 18-Jun-2020
Analysis Started : 19-Jun-2020
Concept Job Reference : 865458-1
Analysis Requested : MRPS by GC (CSOPP611), MRPS by LC (CSOPP603)
Variety : Groundwater
Date Sampled : 17-JUN-2020
Customer Reference : BH305
Location : Wheathampstead
Sample Description : Water

Results Summary

Analyte	Level Found	Units	LOD	EU MRL mg/kg	CODEX MRL mg/kg	Symbol
MRPS by GC (CSOPP611)	**No residue detected above the limit of detection.**					
MRPS by LC (CSOPP603)	**No residue detected above the limit of detection.**					

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.
Customers are responsible for information provided where, if incorrect, it could affect the validity of the results.
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 Concept Life Sciences SOPs
All results have been reviewed in accordance with QMSection 15 of the Concept Life Sciences, Analytical Services Quality Manual
All samples prepared in accordance with the CODEX alimentarius

Report checked
and authorised by :
Matt Line
Section Manager - Pesticides

Issued by :
Naomi Woodward
Customer Service Advisor

Index to symbols used in this report

Value	Description
278	Data reported is qualitative as recovery is outside the 60 to 140% range
5	Results are Semiquantitative
N	Analysis is not UKAS accredited

Report Number : 865458 005
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Groundwater
Date Sampled : 17-JUN-2020
Customer Reference : BH305
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
2,4,6-Trichlorophenol	ug/l	0.1	N	<0.1
2-Phenylphenol	ug/l	0.1	N	<0.1
Acetochlor	ug/l	0.1	N	<0.1
Aclonifen	ug/l	0.1	N	<0.1
Acrinathrin	ug/l	0.1	N	(278) <0.1
Alachlor	ug/l	0.1	N	<0.1
Aldrin	ug/l	0.1	N	<0.1
Ametryn	ug/l	0.1	N	<0.1
Atraton	ug/l	0.1	N	<0.1
Atrazine	ug/l	0.1	N	<0.1
Azaconazole	ug/l	0.1	N	(278) <0.1
Azobenzene	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Benalaxyl	ug/l	0.1	N	<0.1
Benfluralin	ug/l	0.1	N	<0.1
Bifenox	ug/l	0.1	N	(278) <0.1
Bifenthrin	ug/l	0.1	N	<0.1
Binapacryl	ug/l	0.1	N	(278) <0.1
Biphenyl	ug/l	0.1	N	(278) <0.1
Bitertanol	ug/l	0.1	N	<0.1
Boscalid	ug/l	0.1	N	<0.1
Bromacil	ug/l	0.1	N	<0.1
Bromophos	ug/l	0.1	N	<0.1
Bromophos-Ethyl	ug/l	0.1	N	<0.1
Bromopropylate	ug/l	0.1	N	<0.1
Bupirimate	ug/l	0.1	N	<0.1
Buprofezine	ug/l	0.1	N	<0.1
Butachlor	ug/l	0.1	N	<0.1
Cadusafos	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbophenothion	ug/l	0.1	N	<0.1
Carboxine	ug/l	0.1	N	<0.1
Carfentrazone Ethyl	ug/l	0.1	N	<0.1
Chlorobenzilate	ug/l	0.1	N	(278) <0.1
Chlordane (sum of cis and trans isomers)	ug/l	0.1	N	<0.1
Chlordimeform	ug/l	0.1	N	(278) <0.1
Chlorethoxyfos	ug/l	0.1	N	<0.1
Chlorfenapyr	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Chlorfenvinphos	ug/l	0.1	N	<0.1
Chlormephos	ug/l	0.1	N	<0.1
Chloropropylate	ug/l	0.1	N	<0.1
Chlorothalonil	ug/l	0.1	N	<0.1
Chlorpropham	ug/l	0.1	N	<0.1
Chlorpyrifos	ug/l	0.1	N	<0.1
Chlorpyrifos methyl	ug/l	0.1	N	<0.1
Chlorthal Dimethyl	ug/l	0.1	N	<0.1
Chlorthion	ug/l	0.1	N	<0.1
Chlorthiophos	ug/l	0.1	N	<0.1
Chlozolinate	ug/l	0.1	N	<0.1
Clodinafop Propargyl	ug/l	0.1	N	<0.1
Clomazone	ug/l	0.1	N	<0.1
Cloquintocet mexyl	ug/l	0.1	N	<0.1
Coumaphos	ug/l	0.1	N	<0.1
Cyflufenamid	ug/l	0.1	N	<0.1
Cyfluthrin	ug/l	0.1	N	<0.1
Cypermethrin	ug/l	0.1	N	<0.1
Cyphenothrin	ug/l	0.1	N	<0.1
Cyproconazole	ug/l	0.1	N	<0.1
Cyprodinil	ug/l	0.1	N	<0.1
Deltamethrin	ug/l	0.1	N	<0.1
Desmetryn	ug/l	0.1	N	<0.1
Diafenthiuron	ug/l	0.1	N	<0.1
Dialifos	ug/l	0.1	N	<0.1
Diazinon	ug/l	0.1	N	<0.1
Dichlobenil	ug/l	0.1	N	<0.1
Dichlofenthion	ug/l	0.1	N	<0.1
Dichlorvos	ug/l	0.1	N	<0.1
Diclobutrazol	ug/l	0.1	N	<0.1
Dicloran	ug/l	0.1	N	<0.1
Dicofol	ug/l	0.1	N	(278) <0.1
Dieldrin	ug/l	0.1	N	<0.1
Difenoconazole	ug/l	0.1	N	<0.1
Diflufenican	ug/l	0.1	N	<0.1
Dimethenamid	ug/l	0.1	N	<0.1
Dimethomorph	ug/l	0.1	N	<0.1
Dimoxystrobin	ug/l	0.1	N	<0.1

Report Number : 865458 005
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Groundwater
Date Sampled : 17-JUN-2020
Customer Reference : BH305
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Dioxabenzofos	ug/l	0.1	N	(278) <0.1
Diphenamid	ug/l	0.1	N	<0.1
Diphenylamine	ug/l	0.1	N	<0.1
Disulfoton	ug/l	0.1	N	<0.1
Ditalimfos	ug/l	0.1	N	<0.1
Edifenphos	ug/l	0.1	N	<0.1
Endosulphan alpha	ug/l	0.1	N	<0.1
Endosulphan beta	ug/l	0.1	N	<0.1
Endosulphan sulphate	ug/l	0.1	N	<0.1
Endrin	ug/l	0.1	N	<0.1
EPN	ug/l	0.1	N	(278) <0.1
Epoxiconazole	ug/l	0.1	N	<0.1
EPTC	ug/l	0.1	N	<0.1
Etaconazole	ug/l	0.1	N	<0.1
Ethion	ug/l	0.1	N	<0.1
Ethofumesate	ug/l	0.1	N	<0.1
Ethoprophos	ug/l	0.1	N	<0.1
Ethoxyquin	ug/l	0.1	N	(278) <0.1
Etofenprox	ug/l	0.1	N	<0.1
Etoxazole	ug/l	0.1	N	<0.1
Etridiazole	ug/l	0.1	N	<0.1
Etrimfos	ug/l	0.1	N	<0.1
Famoxadone	ug/l	0.1	N	<0.1
Famphur	ug/l	0.1	N	<0.1
Fenamidone	ug/l	0.1	N	<0.1
Fenamiphos	ug/l	0.1	N	<0.1
Fenarimol	ug/l	0.1	N	<0.1
Fenbuconazole	ug/l	0.1	N	<0.1
Fenchlorphos	ug/l	0.1	N	<0.1
Fenitrothion	ug/l	0.1	N	<0.1
Fenpiclonil	ug/l	0.1	N	<0.1
Fenpropathrin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenson	ug/l	0.1	N	<0.1
Fensulfothion	ug/l	0.1	N	<0.1
Fenthion	ug/l	0.1	N	<0.1
Fenvalerate	ug/l	0.1	N	<0.1
Fipronil	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Fipronil sulphone	ug/l	0.1	N	<0.1
Flamprop isopropyl	ug/l	0.1	N	<0.1
Fluazifop-P-Butyl	ug/l	0.1	N	<0.1
Flucythrinate	ug/l	0.1	N	<0.1
Fludioxonil	ug/l	0.1	N	<0.1
Flufenacet	ug/l	0.1	N	<0.1
Flumetralin	ug/l	0.1	N	<0.1
Flumioxazin	ug/l	0.1	N	<0.1
Flumorph	ug/l	0.1	N	<0.1
Fluopyram	ug/l	0.1	N	<0.1
Fluquinconazole	ug/l	0.1	N	<0.1
Fluroxypyr-1-methylheptyl ester	ug/l	0.1	N	<0.1
Flusilazole	ug/l	0.1	N	<0.1
Flutolanil	ug/l	0.1	N	<0.1
Fluxapyroxad	ug/l	0.1	N	<0.1
Fonophos	ug/l	0.1	N	<0.1
Formothion	ug/l	0.1	N	<0.1
Furalaxyl	ug/l	0.1	N	<0.1
Haloxyfop etotyl	ug/l	0.1	N	<0.1
Haloxyfop Methyl	ug/l	0.1	N	<0.1
Heptachlor	ug/l	0.1	N	<0.1
Heptachlor epoxide	ug/l	0.1	N	<0.1
Heptachlor exo Epoxide	ug/l	0.1	N	<0.1
Heptenophos	ug/l	0.1	N	<0.1
Hexachlorobenzene	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (alpha)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (beta)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (delta)	ug/l	0.1	N	<0.1
Hexaconazole	ug/l	0.1	N	<0.1
Hexazinone	ug/l	0.1	N	<0.1
Iodofenphos	ug/l	0.1	N	<0.1
Iprodione	ug/l	0.1	N	<0.1
Isazofos	ug/l	0.1	N	<0.1
Isocarbophos	ug/l	0.1	N	<0.1
Isodrin	ug/l	0.1	N	<0.1
Isofenphos	ug/l	0.1	N	<0.1
Isofenphos Methyl	ug/l	0.1	N	<0.1
Isomethiozin	ug/l	0.1	N	<0.1

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MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Isoprothiolane	ug/l	0.1	N	<0.1
Isopyrazam	ug/l	0.1	N	<0.1
Kresoxim Methyl	ug/l	0.1	N	<0.1
Lambda Cyhalothrin	ug/l	0.1	N	<0.1
Lenacil	ug/l	0.1	N	<0.1
Leptophos	ug/l	0.1	N	<0.1
Lindane	ug/l	0.1	N	<0.1
Malathion	ug/l	0.1	N	<0.1
MCPA-thioethyl	ug/l	0.1	N	<0.1
Mecarbam	ug/l	0.1	N	<0.1
Mepanipyrim	ug/l	0.1	N	<0.1
Mephosfolan	ug/l	0.1	N	<0.1
Mepronil	ug/l	0.1	N	<0.1
Metalaxyl	ug/l	0.1	N	<0.1
Metazachlor	ug/l	0.1	N	<0.1
Methacrifos	ug/l	0.1	N	<0.1
Methidathion	ug/l	0.1	N	<0.1
Methoxychlor	ug/l	0.1	N	<0.1
Methyl Paraoxon	ug/l	0.1	N	(278) <0.1
Metolachlor	ug/l	0.1	N	<0.1
Metolcarb	ug/l	0.1	N	<0.1
Metrafenone	ug/l	0.1	N	<0.1
Metribuzin	ug/l	0.1	N	<0.1
Mevinphos	ug/l	0.1	N	<0.1
Mirex	ug/l	0.1	N	<0.1
Molinate	ug/l	0.1	N	<0.1
Myclobutanil	ug/l	0.1	N	<0.1
Napropamide	ug/l	0.1	N	<0.1
Nitrofen	ug/l	0.1	N	<0.1
Nitrothal isopropyl	ug/l	0.1	N	<0.1
Nuarimol	ug/l	0.1	N	<0.1
o,p'-DDT	ug/l	0.1	N	<0.1
o,p-DDD	ug/l	0.1	N	<0.1
o,p-DDE	ug/l	0.1	N	<0.1
Octylisothiazolon	ug/l	0.1	N	<0.1
Ofurace	ug/l	0.1	N	<0.1
Orysastrobin	ug/l	0.1	N	<0.1
Oxadiazon	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Oxadixyl	ug/l	0.1	N	<0.1
Oxyfluorfen	ug/l	0.1	N	<0.1
p,p-DDD	ug/l	0.1	N	<0.1
p,p-DDE	ug/l	0.1	N	<0.1
p,p-DDT	ug/l	0.1	N	<0.1
Paclobutrazol	ug/l	0.1	N	<0.1
Paraoxon	ug/l	0.1	N	<0.1
Parathion	ug/l	0.1	N	<0.1
Parathion methyl	ug/l	0.1	N	<0.1
Penconazole	ug/l	0.1	N	<0.1
Pendimethalin	ug/l	0.1	N	<0.1
Pentachloroaniline	ug/l	0.1	N	<0.1
Pentachlorophenol	ug/l	0.1	N	(278) <0.1
Pentanochlor	ug/l	0.1	N	<0.1
Permethrin	ug/l	0.1	N	<0.1
Pethoxamid	ug/l	0.1	N	<0.1
Phenothrin	ug/l	0.1	N	<0.1
Phenthoate	ug/l	0.1	N	<0.1
Phorate	ug/l	0.1	N	<0.1
Phosalone	ug/l	0.1	N	<0.1
Phosfolan	ug/l	0.1	N	<0.1
Picoxystrobin	ug/l	0.1	N	<0.1
Piperonyl Butoxide	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	<0.1
Pirimiphos Ethyl	ug/l	0.1	N	<0.1
Pirimiphos methyl	ug/l	0.1	N	<0.1
Pretilachlor	ug/l	0.1	N	<0.1
Procymidone	ug/l	0.1	N	<0.1
Profenofos	ug/l	0.1	N	<0.1
Prometon	ug/l	0.1	N	<0.1
Prometryn	ug/l	0.1	N	<0.1
Propachlor	ug/l	0.1	N	<0.1
Propanil	ug/l	0.1	N	<0.1
Propaphos	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	<0.1
Propazine	ug/l	0.1	N	<0.1
Propetamphos	ug/l	0.1	N	<0.1
Propham	ug/l	0.1	N	<0.1

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Samples Received : 18-Jun-2020
Variety : Groundwater
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Customer Reference : BH305
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Propiconazole	ug/l	0.1	N	<0.1
Propyzamide	ug/l	0.1	N	<0.1
Proquinazid	ug/l	0.1	N	<0.1
Prosulfocarb	ug/l	0.1	N	<0.1
Prothiofos	ug/l	0.1	N	<0.1
Pyraclostrobin	ug/l	0.1	N	<0.1
Pyraflufen ethyl	ug/l	0.1	N	<0.1
Pyrazophos	ug/l	0.1	N	<0.1
Pyridaben	ug/l	0.1	N	<0.1
Pyridaphenthion	ug/l	0.1	N	<0.1
Pyrimethanil	ug/l	0.1	N	<0.1
Pyriproxyfen	ug/l	0.1	N	<0.1
Quinalphos	ug/l	0.1	N	<0.1
Quinoxyfen	ug/l	0.1	N	<0.1
Quintozene	ug/l	0.1	N	<0.1
Quizalofop-ethyl	ug/l	0.1	N	<0.1
Secbumeton	ug/l	0.1	N	<0.1
Silafluofen	ug/l	0.1	N	<0.1
Simazine	ug/l	0.1	N	<0.1
Simeconazole	ug/l	0.1	N	<0.1
Sulfallate	ug/l	0.1	N	<0.1
Sulprofos	ug/l	0.1	N	<0.1
Tebuconazole	ug/l	0.1	N	<0.1
Tebufenpyrad	ug/l	0.1	N	<0.1
Tebupirimiphos	ug/l	0.1	N	<0.1
Tecnazene	ug/l	0.1	N	<0.1
Tefluthrin	ug/l	0.1	N	<0.1
Terbacil	ug/l	0.1	N	<0.1
Terbufos	ug/l	0.1	N	<0.1
Terbumeton	ug/l	0.1	N	<0.1
Terbuthylazine	ug/l	0.1	N	<0.1
Terbutryn	ug/l	0.1	N	<0.1
Tetrachlorvinphos	ug/l	0.1	N	<0.1
Tetraconazole	ug/l	0.1	N	<0.1
Tetradifon	ug/l	0.1	N	<0.1
tetraethyl dithiopyrophosphate	ug/l	0.1	N	<0.1
Tetramethrin	ug/l	0.1	N	<0.1
Tetrasul	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Thiamethoxam	ug/l	0.1	N	(278) <0.1
Thiobencarb	ug/l	0.1	N	<0.1
Tolclofos-methyl	ug/l	0.1	N	<0.1
Triadimefon	ug/l	0.1	N	<0.1
Triadimenol	ug/l	0.1	N	<0.1
Triallate	ug/l	0.1	N	<0.1
Triazamate	ug/l	0.1	N	<0.1
Triazophos	ug/l	0.1	N	<0.1
Trifloxystrobin	ug/l	0.1	N	<0.1
Triflumizole	ug/l	0.1	N	(278) <0.1
Trifluralin	ug/l	0.1	N	<0.1
Vinclozolin	ug/l	0.1	N	<0.1
Vinclozolin metabolite 3,5-Dichloroaniline	ug/l	0.1	N	(278) <0.1

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Date Sampled : 17-JUN-2020
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Location : Wheathampstead
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MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
2-(1-Naphthyl)acetamide	ug/l	0.1	N	<0.1
3-hydroxycarbofuran	ug/l	0.1	N	<0.1
6-Benzyladenine	ug/l	0.1	N	<0.1
Acephate	ug/l	0.1	N	<0.1
Acetamiprid	ug/l	0.1	N	<0.1
Acibenzolar-S-methyl	ug/l	0.1	N	<0.1
Aldicarb	ug/l	0.1	N	<0.1
Aldicarb sulphone	ug/l	0.1	N	<0.1
Aldicarb sulphoxide	ug/l	0.1	N	<0.1
Aminocarb	ug/l	0.1	N	<0.1
Azadirachtin	ug/l	0.1	N	<0.1
Azinphos ethyl	ug/l	0.1	N	<0.1
Azinphos methyl	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Bendiocarb	ug/l	0.1	N	<0.1
Benfuracarb	ug/l	0.1	N	(278) <0.1
Butralin	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbendazim	ug/l	0.1	N	<0.1
Carbetamide	ug/l	0.1	N	<0.1
Carbofuran	ug/l	0.1	N	<0.1
Carbosulfan	ug/l	0.1	N	(278) <0.1
Carpropamid	ug/l	0.1	N	<0.1
Chinomethionat	ug/l	0.1	N	<0.1
Chlorantraniliprole	ug/l	0.1	N	<0.1
Chlorbromuron	ug/l	0.1	N	<0.1
Chlorfluazuron	ug/l	0.1	N	<0.1
Chloridazon	ug/l	0.1	N	<0.1
Chlorotoluron	ug/l	0.1	N	<0.1
Chlorpropham	ug/l	0.1	N	<0.1
Clofentezine	ug/l	0.1	N	<0.1
Clothianidin	ug/l	0.1	N	<0.1
Cyanazine	ug/l	0.1	N	<0.1
Cyazofamid	ug/l	0.1	N	<0.1
Cycluron	ug/l	0.1	N	<0.1
Cymoxanil	ug/l	0.1	N	<0.1
Cythioate	ug/l	0.1	N	<0.1
Demeton	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Demeton-s-methyl	ug/l	0.1	N	<0.1
Demeton-s-methyl sulphone	ug/l	0.1	N	<0.1
Dichlofluanid	ug/l	0.1	N	<0.1
Dicrotophos	ug/l	0.1	N	<0.1
Diethofencarb	ug/l	0.1	N	<0.1
Diflubenzuron	ug/l	0.1	N	<0.1
Dimefuron	ug/l	0.1	N	<0.1
Dimethoate	ug/l	0.1	N	<0.1
Diniconazole	ug/l	0.1	N	<0.1
Dinotefuran	ug/l	0.1	N	<0.1
Dioxacarb	ug/l	0.1	N	(278) <0.1
Disulfoton sulfoxide	ug/l	0.1	N	<0.1
Disulfoton sulphone	ug/l	0.1	N	<0.1
Diuron	ug/l	0.1	N	<0.1
DMSA	ug/l	0.1	N	<0.1
DMST	ug/l	0.1	N	<0.1
Dodemorph	ug/l	0.1	N	<0.1
Dodine	ug/l	0.1	N	(278) <0.1
Emamectin	ug/l	0.1	N	<0.1
Ethidimuron	ug/l	0.1	N	<0.1
Ethiofencarb	ug/l	0.1	N	<0.1
Ethiofencarb sulfone	ug/l	0.1	N	<0.1
Ethiofencarb sulfoxide	ug/l	0.1	N	<0.1
Ethiprole	ug/l	0.1	N	<0.1
Ethirimol	ug/l	0.1	N	<0.1
Fenamiphos sulfone	ug/l	0.1	N	<0.1
Fenamiphos sulfoxide	ug/l	0.1	N	<0.1
Fenazaquin	ug/l	0.1	N	<0.1
Fenchlorphos oxon	ug/l	0.1	N	<0.1
Fenhexamid	ug/l	0.1	N	<0.1
Fenoxycarb	ug/l	0.1	N	<0.1
Fenpropidin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenpyroximate	ug/l	0.1	N	<0.1
Fenthion Sulphone	ug/l	0.1	N	<0.1
Fenthion Sulphoxide	ug/l	0.1	N	<0.1
Fenuron	ug/l	0.1	N	<0.1
Flonicamid	ug/l	0.1	N	<0.1

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MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Fluazinam	ug/l	0.1	N	<0.1
Flufenoxuron	ug/l	0.1	N	<0.1
Fluometuron	ug/l	0.1	N	<0.1
Fluopicolide	ug/l	0.1	N	<0.1
Fluorochloridone	ug/l	0.1	N	<0.1
Fluoxastrobin	ug/l	0.1	N	<0.1
Flurtamone	ug/l	0.1	N	<0.1
Flutriafol	ug/l	0.1	N	<0.1
Forchlorfenuron	ug/l	0.1	N	<0.1
Fosthiasate	ug/l	0.1	N	<0.1
Fuberidazole	ug/l	0.1	N	<0.1
Furathiocarb	ug/l	0.1	N	<0.1
Hexaflumuron	ug/l	0.1	N	<0.1
Hexythiazox	ug/l	0.1	N	<0.1
Imazalil	ug/l	0.1	N	(278) <0.1
Imibenconazole	ug/l	0.1	N	(278) <0.1
Imidacloprid	ug/l	0.1	N	<0.1
Indoxacarb	ug/l	0.1	N	<0.1
Iprovalicarb	ug/l	0.1	N	<0.1
Isoprocarb	ug/l	0.1	N	<0.1
Isoproturon	ug/l	0.1	N	<0.1
Isoxaben	ug/l	0.1	N	<0.1
Karbutilate	ug/l	0.1	N	<0.1
Linuron	ug/l	0.1	N	<0.1
Lufenuron	ug/l	0.1	N	<0.1
Malaoxon	ug/l	0.1	N	<0.1
Mandipropamid	ug/l	0.1	N	<0.1
Mefenacet	ug/l	0.1	N	<0.1
Metamitron	ug/l	0.1	N	<0.1
Metconazole	ug/l	0.1	N	<0.1
Methabenzthiazuron	ug/l	0.1	N	<0.1
Methamidophos	ug/l	0.1	N	<0.1
Methiocarb	ug/l	0.1	N	<0.1
Methiocarb Sulfone	ug/l	0.1	N	<0.1
Methiocarb Sulfoxide	ug/l	0.1	N	<0.1
Methomyl	ug/l	0.1	N	<0.1
Methoxyfenozide	ug/l	0.1	N	(278) <0.1
Metobromuron	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Metoxuron	ug/l	0.1	N	<0.1
Monocrotophos	ug/l	0.1	N	<0.1
Monolinuron	ug/l	0.1	N	<0.1
Monuron	ug/l	0.1	N	<0.1
Neburon	ug/l	0.1	N	<0.1
Nicotine	ug/l	0.1	N	<0.1
Nitenpyram	ug/l	0.1	N	<0.1
Novaluron	ug/l	0.1	N	<0.1
Omethoate	ug/l	0.1	N	<0.1
Oxadiargyl	ug/l	0.1	N	<0.1
Oxamyl	ug/l	0.1	N	<0.1
Oxycarboxin	ug/l	0.1	N	<0.1
Oxydemeton-Methyl	ug/l	0.1	N	<0.1
Pencycuron	ug/l	0.1	N	<0.1
Phorate sulfone	ug/l	0.1	N	<0.1
Phorate sulfoxide	ug/l	0.1	N	<0.1
Phosmet	ug/l	0.1	N	<0.1
Phosphamidon	ug/l	0.1	N	<0.1
Phoxim	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	<0.1
Prochloraz	ug/l	0.1	N	<0.1
Promecarb	ug/l	0.1	N	<0.1
Propamocarb	ug/l	0.1	N	(278) <0.1
Propaquizafop	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	<0.1
Propoxur	ug/l	0.1	N	<0.1
Pymetrozine	ug/l	0.1	N	<0.1
Pyrifenox	ug/l	0.1	N	<0.1
Resmethrin	ug/l	0.1	N	<0.1
Rotenone	ug/l	0.1	N	<0.1
Spinosad	ug/l	0.1	N	<0.1
Spirodiclofen	ug/l	0.1	N	<0.1
Spiromesifen	ug/l	0.1	N	<0.1
Spiroxamine	ug/l	0.1	N	<0.1
Tebufenozide	ug/l	0.1	N	<0.1
Teflubenzuron	ug/l	0.1	N	<0.1
Temephos	ug/l	0.1	N	<0.1
Terbufos sulfone	ug/l	0.1	N	<0.1

Report Number : 865458 005
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Groundwater
Date Sampled : 17-JUN-2020
Customer Reference : BH305
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Terbufos sulfoxide	ug/l	0.1	N	<0.1
Thiabendazole	ug/l	0.1	N	<0.1
Thiacloprid	ug/l	0.1	N	<0.1
Thiazafluron	ug/l	0.1	N	<0.1
Thiodicarb	ug/l	0.1	N	<0.1
Thiofanox	ug/l	0.1	N	<0.1
Thiophanate Methyl	ug/l	0.1	N	<0.1
Tolylfluanid	ug/l	0.1	N	<0.1
Trichlorfon	ug/l	0.1	N	<0.1
Tridemorph	ug/l	0.1	N	<0.1
Trifloxysulfuron	ug/l	0.1	N	<0.1
Triflumuron	ug/l	0.1	N	<0.1
Triflusulfuron-methyl	ug/l	0.1	N	<0.1
Triticonazole	ug/l	0.1	N	<0.1
Vamidothion	ug/l	0.1	N	<0.1
Vernolate	ug/l	0.1	N	<0.1
Zoxamide	ug/l	0.1	N	<0.1

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Concept Life Sciences

Certificate of Analysis

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Tel : 01954 782791
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Report Number : 865458 006
Date of Issue : 24-Jun-2020

Customer : Pam Brown Associates
Contact : Dr Melissa Morales
Address : 2 Needwood House, Lancaster Park, Newborough Road, Needwood Burton on Trent, DE13 9PD

Samples Received : 18-Jun-2020
Analysis Started : 19-Jun-2020
Concept Job Reference : 865458-1
Analysis Requested : MRPS by GC (CSOPP611), MRPS by LC (CSOPP603)
Variety : Groundwater
Date Sampled : 17-JUN-2020
Customer Reference : BH306
Location : Wheathampstead
Sample Description : Water

Results Summary

Analyte	Level Found	Units	LOD	EU MRL mg/kg	CODEX MRL mg/kg	Symbol
MRPS by GC (CSOPP611)						
Fenson	**0.1**	ug/l	0.1			N
MRPS by LC (CSOPP603)	**No residue detected above the limit of detection.**					

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.
Customers are responsible for information provided where, if incorrect, it could affect the validity of the results.
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 Concept Life Sciences SOPs
All results have been reviewed in accordance with QMSection 15 of the Concept Life Sciences, Analytical Services Quality Manual
All samples prepared in accordance with the CODEX alimentarius

Report checked
and authorised by :
Matt Line
Section Manager - Pesticides

Issued by :
Naomi Woodward
Customer Service Advisor

Index to symbols used in this report

Value	Description
278	Data reported is qualitative as recovery is outside the 60 to 140% range
5	Results are Semiquantitative
N	Analysis is not UKAS accredited

Report Number : 865458 006
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Groundwater
Date Sampled : 17-JUN-2020
Customer Reference : BH306
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
2,4,6-Trichlorophenol	ug/l	0.1	N	<0.1
2-Phenylphenol	ug/l	0.1	N	<0.1
Acetochlor	ug/l	0.1	N	<0.1
Aclonifen	ug/l	0.1	N	<0.1
Acrinathrin	ug/l	0.1	N	(278) <0.1
Alachlor	ug/l	0.1	N	<0.1
Aldrin	ug/l	0.1	N	<0.1
Ametryn	ug/l	0.1	N	<0.1
Atraton	ug/l	0.1	N	<0.1
Atrazine	ug/l	0.1	N	<0.1
Azaconazole	ug/l	0.1	N	(278) <0.1
Azobenzene	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Benalaxyl	ug/l	0.1	N	<0.1
Benfluralin	ug/l	0.1	N	<0.1
Bifenox	ug/l	0.1	N	(278) <0.1
Bifenthrin	ug/l	0.1	N	<0.1
Binapacryl	ug/l	0.1	N	(278) <0.1
Biphenyl	ug/l	0.1	N	(278) <0.1
Bitertanol	ug/l	0.1	N	<0.1
Boscalid	ug/l	0.1	N	<0.1
Bromacil	ug/l	0.1	N	<0.1
Bromophos	ug/l	0.1	N	<0.1
Bromophos-Ethyl	ug/l	0.1	N	<0.1
Bromopropylate	ug/l	0.1	N	<0.1
Bupirimate	ug/l	0.1	N	<0.1
Buprofezine	ug/l	0.1	N	<0.1
Butachlor	ug/l	0.1	N	<0.1
Cadusafos	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbophenothion	ug/l	0.1	N	<0.1
Carboxine	ug/l	0.1	N	<0.1
Carfentrazone Ethyl	ug/l	0.1	N	<0.1
Chlorobenzilate	ug/l	0.1	N	(278) <0.1
Chlordane (sum of cis and trans isomers)	ug/l	0.1	N	<0.1
Chlordimeform	ug/l	0.1	N	(278) <0.1
Chlorethoxyfos	ug/l	0.1	N	<0.1
Chlorfenapyr	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Chlorfenvinphos	ug/l	0.1	N	<0.1
Chlormephos	ug/l	0.1	N	<0.1
Chloropropylate	ug/l	0.1	N	<0.1
Chlorothalonil	ug/l	0.1	N	<0.1
Chlorpropham	ug/l	0.1	N	<0.1
Chlorpyrifos	ug/l	0.1	N	<0.1
Chlorpyrifos methyl	ug/l	0.1	N	<0.1
Chlorthal Dimethyl	ug/l	0.1	N	<0.1
Chlorthion	ug/l	0.1	N	<0.1
Chlorthiophos	ug/l	0.1	N	<0.1
Chlozolinate	ug/l	0.1	N	<0.1
Clodinafop Propargyl	ug/l	0.1	N	<0.1
Clomazone	ug/l	0.1	N	<0.1
Cloquintocet mexyl	ug/l	0.1	N	<0.1
Coumaphos	ug/l	0.1	N	<0.1
Cyflufenamid	ug/l	0.1	N	<0.1
Cyfluthrin	ug/l	0.1	N	<0.1
Cypermethrin	ug/l	0.1	N	<0.1
Cyphenothrin	ug/l	0.1	N	<0.1
Cyproconazole	ug/l	0.1	N	<0.1
Cyprodinil	ug/l	0.1	N	<0.1
Deltamethrin	ug/l	0.1	N	<0.1
Desmetryn	ug/l	0.1	N	<0.1
Diafenthiuron	ug/l	0.1	N	<0.1
Dialifos	ug/l	0.1	N	<0.1
Diazinon	ug/l	0.1	N	<0.1
Dichlobenil	ug/l	0.1	N	<0.1
Dichlofenthion	ug/l	0.1	N	<0.1
Dichlorvos	ug/l	0.1	N	<0.1
Diclobutrazol	ug/l	0.1	N	<0.1
Dicloran	ug/l	0.1	N	<0.1
Dicofol	ug/l	0.1	N	(278) <0.1
Dieldrin	ug/l	0.1	N	<0.1
Difenoconazole	ug/l	0.1	N	<0.1
Diflufenican	ug/l	0.1	N	<0.1
Dimethenamid	ug/l	0.1	N	<0.1
Dimethomorph	ug/l	0.1	N	<0.1
Dimoxystrobin	ug/l	0.1	N	<0.1

Report Number : 865458 006
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Groundwater
Date Sampled : 17-JUN-2020
Customer Reference : BH306
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Dioxabenzofos	ug/l	0.1	N	(278) <0.1
Diphenamid	ug/l	0.1	N	<0.1
Diphenylamine	ug/l	0.1	N	<0.1
Disulfoton	ug/l	0.1	N	<0.1
Ditalimfos	ug/l	0.1	N	<0.1
Edifenphos	ug/l	0.1	N	<0.1
Endosulphan alpha	ug/l	0.1	N	<0.1
Endosulphan beta	ug/l	0.1	N	<0.1
Endosulphan sulphate	ug/l	0.1	N	<0.1
Endrin	ug/l	0.1	N	<0.1
EPN	ug/l	0.1	N	(278) <0.1
Epoxiconazole	ug/l	0.1	N	<0.1
EPTC	ug/l	0.1	N	<0.1
Etaconazole	ug/l	0.1	N	<0.1
Ethion	ug/l	0.1	N	<0.1
Ethofumesate	ug/l	0.1	N	<0.1
Ethoprophos	ug/l	0.1	N	<0.1
Ethoxyquin	ug/l	0.1	N	(278) <0.1
Etofenprox	ug/l	0.1	N	<0.1
Etoxazole	ug/l	0.1	N	<0.1
Etridiazole	ug/l	0.1	N	<0.1
Etrimfos	ug/l	0.1	N	<0.1
Famoxadone	ug/l	0.1	N	<0.1
Famphur	ug/l	0.1	N	<0.1
Fenamidone	ug/l	0.1	N	<0.1
Fenamiphos	ug/l	0.1	N	<0.1
Fenarimol	ug/l	0.1	N	<0.1
Fenbuconazole	ug/l	0.1	N	<0.1
Fenchlorphos	ug/l	0.1	N	<0.1
Fenitrothion	ug/l	0.1	N	<0.1
Fenpiclonil	ug/l	0.1	N	<0.1
Fenpropathrin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenson	**ug/l**	**0.1**	**N**	**0.1**
Fensulfothion	ug/l	0.1	N	<0.1
Fenthion	ug/l	0.1	N	<0.1
Fenvalerate	ug/l	0.1	N	<0.1
Fipronil	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Fipronil sulphone	ug/l	0.1	N	<0.1
Flamprop isopropyl	ug/l	0.1	N	<0.1
Fluazifop-P-Butyl	ug/l	0.1	N	<0.1
Flucythrinate	ug/l	0.1	N	<0.1
Fludioxonil	ug/l	0.1	N	<0.1
Flufenacet	ug/l	0.1	N	<0.1
Flumetralin	ug/l	0.1	N	<0.1
Flumioxazin	ug/l	0.1	N	<0.1
Flumorph	ug/l	0.1	N	<0.1
Fluopyram	ug/l	0.1	N	<0.1
Fluquinconazole	ug/l	0.1	N	<0.1
Fluroxypyr-1-methylheptyl ester	ug/l	0.1	N	<0.1
Flusilazole	ug/l	0.1	N	<0.1
Flutolanil	ug/l	0.1	N	<0.1
Fluxapyroxad	ug/l	0.1	N	<0.1
Fonophos	ug/l	0.1	N	<0.1
Formothion	ug/l	0.1	N	<0.1
Furalaxyl	ug/l	0.1	N	<0.1
Haloxyfop etotyl	ug/l	0.1	N	<0.1
Haloxyfop Methyl	ug/l	0.1	N	<0.1
Heptachlor	ug/l	0.1	N	<0.1
Heptachlor epoxide	ug/l	0.1	N	<0.1
Heptachlor exo Epoxide	ug/l	0.1	N	<0.1
Heptenophos	ug/l	0.1	N	<0.1
Hexachlorobenzene	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (alpha)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (beta)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (delta)	ug/l	0.1	N	<0.1
Hexaconazole	ug/l	0.1	N	<0.1
Hexazinone	ug/l	0.1	N	<0.1
Iodofenphos	ug/l	0.1	N	<0.1
Iprodione	ug/l	0.1	N	<0.1
Isazofos	ug/l	0.1	N	<0.1
Isocarbophos	ug/l	0.1	N	<0.1
Isodrin	ug/l	0.1	N	<0.1
Isofenphos	ug/l	0.1	N	<0.1
Isofenphos Methyl	ug/l	0.1	N	<0.1
Isomethiozin	ug/l	0.1	N	<0.1

Report Number : 865458 006
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Groundwater
Date Sampled : 17-JUN-2020
Customer Reference : BH306
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Isoprothiolane	ug/l	0.1	N	<0.1
Isopyrazam	ug/l	0.1	N	<0.1
Kresoxim Methyl	ug/l	0.1	N	<0.1
Lambda Cyhalothrin	ug/l	0.1	N	<0.1
Lenacil	ug/l	0.1	N	<0.1
Leptophos	ug/l	0.1	N	<0.1
Lindane	ug/l	0.1	N	<0.1
Malathion	ug/l	0.1	N	<0.1
MCPA-thioethyl	ug/l	0.1	N	<0.1
Mecarbam	ug/l	0.1	N	<0.1
Mepanipyrim	ug/l	0.1	N	<0.1
Mephosfolan	ug/l	0.1	N	<0.1
Mepronil	ug/l	0.1	N	<0.1
Metalaxyl	ug/l	0.1	N	<0.1
Metazachlor	ug/l	0.1	N	<0.1
Methacrifos	ug/l	0.1	N	<0.1
Methidathion	ug/l	0.1	N	<0.1
Methoxychlor	ug/l	0.1	N	<0.1
Methyl Paraoxon	ug/l	0.1	N	(278) <0.1
Metolachlor	ug/l	0.1	N	<0.1
Metolcarb	ug/l	0.1	N	<0.1
Metrafenone	ug/l	0.1	N	<0.1
Metribuzin	ug/l	0.1	N	<0.1
Mevinphos	ug/l	0.1	N	<0.1
Mirex	ug/l	0.1	N	<0.1
Molinate	ug/l	0.1	N	<0.1
Myclobutanil	ug/l	0.1	N	<0.1
Napropamide	ug/l	0.1	N	<0.1
Nitrofen	ug/l	0.1	N	<0.1
Nitrothal isopropyl	ug/l	0.1	N	<0.1
Nuarimol	ug/l	0.1	N	<0.1
o,p'-DDT	ug/l	0.1	N	<0.1
o,p-DDD	ug/l	0.1	N	<0.1
o,p-DDE	ug/l	0.1	N	<0.1
Octylisothiazolon	ug/l	0.1	N	<0.1
Ofurace	ug/l	0.1	N	<0.1
Orysastrobin	ug/l	0.1	N	<0.1
Oxadiazon	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Oxadixyl	ug/l	0.1	N	<0.1
Oxyfluorfen	ug/l	0.1	N	<0.1
p,p-DDD	ug/l	0.1	N	<0.1
p,p-DDE	ug/l	0.1	N	<0.1
p,p-DDT	ug/l	0.1	N	<0.1
Paclobutrazol	ug/l	0.1	N	<0.1
Paraoxon	ug/l	0.1	N	<0.1
Parathion	ug/l	0.1	N	<0.1
Parathion methyl	ug/l	0.1	N	<0.1
Penconazole	ug/l	0.1	N	<0.1
Pendimethalin	ug/l	0.1	N	<0.1
Pentachloroaniline	ug/l	0.1	N	<0.1
Pentachlorophenol	ug/l	0.1	N	(278) <0.1
Pentanochlor	ug/l	0.1	N	<0.1
Permethrin	ug/l	0.1	N	<0.1
Pethoxamid	ug/l	0.1	N	<0.1
Phenothrin	ug/l	0.1	N	<0.1
Phenthoate	ug/l	0.1	N	<0.1
Phorate	ug/l	0.1	N	<0.1
Phosalone	ug/l	0.1	N	<0.1
Phosfolan	ug/l	0.1	N	<0.1
Picoxystrobin	ug/l	0.1	N	<0.1
Piperonyl Butoxide	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	<0.1
Pirimiphos Ethyl	ug/l	0.1	N	<0.1
Pirimiphos methyl	ug/l	0.1	N	<0.1
Pretilachlor	ug/l	0.1	N	<0.1
Procymidone	ug/l	0.1	N	<0.1
Profenofos	ug/l	0.1	N	<0.1
Prometon	ug/l	0.1	N	<0.1
Prometryn	ug/l	0.1	N	<0.1
Propachlor	ug/l	0.1	N	<0.1
Propanil	ug/l	0.1	N	<0.1
Propaphos	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	<0.1
Propazine	ug/l	0.1	N	<0.1
Propetamphos	ug/l	0.1	N	<0.1
Propham	ug/l	0.1	N	<0.1

Report Number : 865458 006
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Groundwater
Date Sampled : 17-JUN-2020
Customer Reference : BH306
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Propiconazole	ug/l	0.1	N	<0.1
Propyzamide	ug/l	0.1	N	<0.1
Proquinazid	ug/l	0.1	N	<0.1
Prosulfocarb	ug/l	0.1	N	<0.1
Prothiofos	ug/l	0.1	N	<0.1
Pyraclostrobin	ug/l	0.1	N	<0.1
Pyraflufen ethyl	ug/l	0.1	N	<0.1
Pyrazophos	ug/l	0.1	N	<0.1
Pyridaben	ug/l	0.1	N	<0.1
Pyridaphenthion	ug/l	0.1	N	<0.1
Pyrimethanil	ug/l	0.1	N	<0.1
Pyriproxyfen	ug/l	0.1	N	<0.1
Quinalphos	ug/l	0.1	N	<0.1
Quinoxyfen	ug/l	0.1	N	<0.1
Quintozene	ug/l	0.1	N	<0.1
Quizalofop-ethyl	ug/l	0.1	N	<0.1
Secbumeton	ug/l	0.1	N	<0.1
Silafluofen	ug/l	0.1	N	<0.1
Simazine	ug/l	0.1	N	<0.1
Simeconazole	ug/l	0.1	N	<0.1
Sulfallate	ug/l	0.1	N	<0.1
Sulprofos	ug/l	0.1	N	<0.1
Tebuconazole	ug/l	0.1	N	<0.1
Tebufenpyrad	ug/l	0.1	N	<0.1
Tebupirimiphos	ug/l	0.1	N	<0.1
Tecnazene	ug/l	0.1	N	<0.1
Tefluthrin	ug/l	0.1	N	<0.1
Terbacil	ug/l	0.1	N	<0.1
Terbufos	ug/l	0.1	N	<0.1
Terbumeton	ug/l	0.1	N	<0.1
Terbuthylazine	ug/l	0.1	N	<0.1
Terbutryn	ug/l	0.1	N	<0.1
Tetrachlorvinphos	ug/l	0.1	N	<0.1
Tetraconazole	ug/l	0.1	N	<0.1
Tetradifon	ug/l	0.1	N	<0.1
tetraethyl dithiopyrophosphate	ug/l	0.1	N	<0.1
Tetramethrin	ug/l	0.1	N	<0.1
Tetrasul	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Thiamethoxam	ug/l	0.1	N	(278) <0.1
Thiobencarb	ug/l	0.1	N	<0.1
Tolclofos-methyl	ug/l	0.1	N	<0.1
Triadimefon	ug/l	0.1	N	<0.1
Triadimenol	ug/l	0.1	N	<0.1
Triallate	ug/l	0.1	N	<0.1
Triazamate	ug/l	0.1	N	<0.1
Triazophos	ug/l	0.1	N	<0.1
Trifloxystrobin	ug/l	0.1	N	<0.1
Triflumizole	ug/l	0.1	N	(278) <0.1
Trifluralin	ug/l	0.1	N	<0.1
Vinclozolin	ug/l	0.1	N	<0.1
Vinclozolin metabolite 3,5-Dichloroaniline	ug/l	0.1	N	(278) <0.1

Report Number : 865458 006
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Groundwater
Date Sampled : 17-JUN-2020
Customer Reference : BH306
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
2-(1-Naphthyl)acetamide	ug/l	0.1	N	<0.1
3-hydroxycarbofuran	ug/l	0.1	N	<0.1
6-Benzyladenine	ug/l	0.1	N	<0.1
Acephate	ug/l	0.1	N	<0.1
Acetamiprid	ug/l	0.1	N	<0.1
Acibenzolar-S-methyl	ug/l	0.1	N	<0.1
Aldicarb	ug/l	0.1	N	<0.1
Aldicarb sulphone	ug/l	0.1	N	<0.1
Aldicarb sulphoxide	ug/l	0.1	N	<0.1
Aminocarb	ug/l	0.1	N	<0.1
Azadirachtin	ug/l	0.1	N	<0.1
Azinphos ethyl	ug/l	0.1	N	<0.1
Azinphos methyl	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Bendiocarb	ug/l	0.1	N	<0.1
Benfuracarb	ug/l	0.1	N	(278) <0.1
Butralin	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbendazim	ug/l	0.1	N	<0.1
Carbetamide	ug/l	0.1	N	<0.1
Carbofuran	ug/l	0.1	N	<0.1
Carbosulfan	ug/l	0.1	N	(278) <0.1
Carpropamid	ug/l	0.1	N	<0.1
Chinomethionat	ug/l	0.1	N	<0.1
Chlorantraniliprole	ug/l	0.1	N	<0.1
Chlorbromuron	ug/l	0.1	N	<0.1
Chlorfluazuron	ug/l	0.1	N	<0.1
Chloridazon	ug/l	0.1	N	<0.1
Chlorotoluron	ug/l	0.1	N	<0.1
Chlorpropham	ug/l	0.1	N	<0.1
Clofentezine	ug/l	0.1	N	<0.1
Clothianidin	ug/l	0.1	N	<0.1
Cyanazine	ug/l	0.1	N	<0.1
Cyazofamid	ug/l	0.1	N	<0.1
Cycluron	ug/l	0.1	N	<0.1
Cymoxanil	ug/l	0.1	N	<0.1
Cythioate	ug/l	0.1	N	<0.1
Demeton	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Demeton-s-methyl	ug/l	0.1	N	<0.1
Demeton-s-methyl sulphone	ug/l	0.1	N	<0.1
Dichlofluanid	ug/l	0.1	N	<0.1
Dicrotophos	ug/l	0.1	N	<0.1
Diethofencarb	ug/l	0.1	N	<0.1
Diflubenzuron	ug/l	0.1	N	<0.1
Dimefuron	ug/l	0.1	N	<0.1
Dimethoate	ug/l	0.1	N	<0.1
Diniconazole	ug/l	0.1	N	<0.1
Dinotefuran	ug/l	0.1	N	<0.1
Dioxacarb	ug/l	0.1	N	(278) <0.1
Disulfoton sulfoxide	ug/l	0.1	N	<0.1
Disulfoton sulphone	ug/l	0.1	N	<0.1
Diuron	ug/l	0.1	N	<0.1
DMSA	ug/l	0.1	N	<0.1
DMST	ug/l	0.1	N	<0.1
Dodemorph	ug/l	0.1	N	<0.1
Dodine	ug/l	0.1	N	(278) <0.1
Emamectin	ug/l	0.1	N	<0.1
Ethidimuron	ug/l	0.1	N	<0.1
Ethiofencarb	ug/l	0.1	N	<0.1
Ethiofencarb sulfone	ug/l	0.1	N	<0.1
Ethiofencarb sulfoxide	ug/l	0.1	N	<0.1
Ethiprole	ug/l	0.1	N	<0.1
Ethirimol	ug/l	0.1	N	<0.1
Fenamiphos sulfone	ug/l	0.1	N	<0.1
Fenamiphos sulfoxide	ug/l	0.1	N	<0.1
Fenazaquin	ug/l	0.1	N	<0.1
Fenchlorphos oxon	ug/l	0.1	N	<0.1
Fenhexamid	ug/l	0.1	N	<0.1
Fenoxycarb	ug/l	0.1	N	<0.1
Fenpropidin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenpyroximate	ug/l	0.1	N	<0.1
Fenthion Sulphone	ug/l	0.1	N	<0.1
Fenthion Sulphoxide	ug/l	0.1	N	<0.1
Fenuron	ug/l	0.1	N	<0.1
Flonicamid	ug/l	0.1	N	<0.1

Report Number : 865458 006
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Groundwater
Date Sampled : 17-JUN-2020
Customer Reference : BH306
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Fluazinam	ug/l	0.1	N	<0.1
Flufenoxuron	ug/l	0.1	N	<0.1
Fluometuron	ug/l	0.1	N	<0.1
Fluopicolide	ug/l	0.1	N	<0.1
Fluorochloridone	ug/l	0.1	N	<0.1
Fluoxastrobin	ug/l	0.1	N	<0.1
Flurtamone	ug/l	0.1	N	<0.1
Flutriafol	ug/l	0.1	N	<0.1
Forchlorfenuron	ug/l	0.1	N	<0.1
Fosthiasate	ug/l	0.1	N	<0.1
Fuberidazole	ug/l	0.1	N	<0.1
Furathiocarb	ug/l	0.1	N	<0.1
Hexaflumuron	ug/l	0.1	N	<0.1
Hexythiazox	ug/l	0.1	N	<0.1
Imazalil	ug/l	0.1	N	(278) <0.1
Imibenconazole	ug/l	0.1	N	(278) <0.1
Imidacloprid	ug/l	0.1	N	<0.1
Indoxacarb	ug/l	0.1	N	<0.1
Iprovalicarb	ug/l	0.1	N	<0.1
Isoprocarb	ug/l	0.1	N	<0.1
Isoproturon	ug/l	0.1	N	<0.1
Isoxaben	ug/l	0.1	N	<0.1
Karbutilate	ug/l	0.1	N	<0.1
Linuron	ug/l	0.1	N	<0.1
Lufenuron	ug/l	0.1	N	<0.1
Malaoxon	ug/l	0.1	N	<0.1
Mandipropamid	ug/l	0.1	N	<0.1
Mefenacet	ug/l	0.1	N	<0.1
Metamitron	ug/l	0.1	N	<0.1
Metconazole	ug/l	0.1	N	<0.1
Methabenzthiazuron	ug/l	0.1	N	<0.1
Methamidophos	ug/l	0.1	N	<0.1
Methiocarb	ug/l	0.1	N	<0.1
Methiocarb Sulfone	ug/l	0.1	N	<0.1
Methiocarb Sulfoxide	ug/l	0.1	N	<0.1
Methomyl	ug/l	0.1	N	<0.1
Methoxyfenozide	ug/l	0.1	N	(278) <0.1
Metobromuron	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Metoxuron	ug/l	0.1	N	<0.1
Monocrotophos	ug/l	0.1	N	<0.1
Monolinuron	ug/l	0.1	N	<0.1
Monuron	ug/l	0.1	N	<0.1
Neburon	ug/l	0.1	N	<0.1
Nicotine	ug/l	0.1	N	<0.1
Nitenpyram	ug/l	0.1	N	<0.1
Novaluron	ug/l	0.1	N	<0.1
Omethoate	ug/l	0.1	N	<0.1
Oxadiargyl	ug/l	0.1	N	<0.1
Oxamyl	ug/l	0.1	N	<0.1
Oxycarboxin	ug/l	0.1	N	<0.1
Oxydemeton-Methyl	ug/l	0.1	N	<0.1
Pencycuron	ug/l	0.1	N	<0.1
Phorate sulfone	ug/l	0.1	N	<0.1
Phorate sulfoxide	ug/l	0.1	N	<0.1
Phosmet	ug/l	0.1	N	<0.1
Phosphamidon	ug/l	0.1	N	<0.1
Phoxim	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	<0.1
Prochloraz	ug/l	0.1	N	<0.1
Promecarb	ug/l	0.1	N	<0.1
Propamocarb	ug/l	0.1	N	(278) <0.1
Propaquizafop	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	<0.1
Propoxur	ug/l	0.1	N	<0.1
Pymetrozine	ug/l	0.1	N	<0.1
Pyrifenox	ug/l	0.1	N	<0.1
Resmethrin	ug/l	0.1	N	<0.1
Rotenone	ug/l	0.1	N	<0.1
Spinosad	ug/l	0.1	N	<0.1
Spirodiclofen	ug/l	0.1	N	<0.1
Spiromesifen	ug/l	0.1	N	<0.1
Spiroxamine	ug/l	0.1	N	<0.1
Tebufenozide	ug/l	0.1	N	<0.1
Teflubenzuron	ug/l	0.1	N	<0.1
Temephos	ug/l	0.1	N	<0.1
Terbufos sulfone	ug/l	0.1	N	<0.1

Report Number : 865458 006
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Groundwater
Date Sampled : 17-JUN-2020
Customer Reference : BH306
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Terbufos sulfoxide	ug/l	0.1	N	<0.1
Thiabendazole	ug/l	0.1	N	<0.1
Thiacloprid	ug/l	0.1	N	<0.1
Thiazafluron	ug/l	0.1	N	<0.1
Thiodicarb	ug/l	0.1	N	<0.1
Thiofanox	ug/l	0.1	N	<0.1
Thiophanate Methyl	ug/l	0.1	N	<0.1
Tolylfluanid	ug/l	0.1	N	<0.1
Trichlorfon	ug/l	0.1	N	<0.1
Tridemorph	ug/l	0.1	N	<0.1
Trifloxysulfuron	ug/l	0.1	N	<0.1
Triflumuron	ug/l	0.1	N	<0.1
Triflusulfuron-methyl	ug/l	0.1	N	<0.1
Triticonazole	ug/l	0.1	N	<0.1
Vamidothion	ug/l	0.1	N	<0.1
Vernolate	ug/l	0.1	N	<0.1
Zoxamide	ug/l	0.1	N	<0.1

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Concept Life Sciences

Certificate of Analysis

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Tel : 01954 782791
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Report Number : 865458 007
Date of Issue : 24-Jun-2020

Customer : Pam Brown Associates
Contact : Dr Melissa Morales
Address : 2 Needwood House, Lancaster Park, Newborough Road, Needwood Burton on Trent, DE13 9PD

Samples Received : 18-Jun-2020
Analysis Started : 19-Jun-2020
Concept Job Reference : 865458-1
Analysis Requested : MRPS by GC (CSOPP611), MRPS by LC (CSOPP603)
Variety : Groundwater
Date Sampled : 17-JUN-2020
Customer Reference : ASB1
Location : Wheathampstead
Sample Description : Water

Results Summary

Analyte	Level Found	Units	LOD	EU MRL mg/kg	CODEX MRL mg/kg	Symbol
MRPS by GC (CSOPP611)						
EPTC	**0.5**	ug/l	0.1			N
MRPS by LC (CSOPP603)	**No residue detected above the limit of detection.**					

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.
Customers are responsible for information provided where, if incorrect, it could affect the validity of the results.
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 Concept Life Sciences SOPs
All results have been reviewed in accordance with QMSection 15 of the Concept Life Sciences, Analytical Services Quality Manual
All samples prepared in accordance with the CODEX alimentarius

Report checked
and authorised by :
Matt Line
Section Manager - Pesticides

Issued by :
Naomi Woodward
Customer Service Advisor

Index to symbols used in this report

Value	Description
278	Data reported is qualitative as recovery is outside the 60 to 140% range
5	Results are Semiquantitative
N	Analysis is not UKAS accredited

Report Number : 865458 007
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Groundwater
Date Sampled : 17-JUN-2020
Customer Reference : ASB1
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
2,4,6-Trichlorophenol	ug/l	0.1	N	<0.1
2-Phenylphenol	ug/l	0.1	N	<0.1
Acetochlor	ug/l	0.1	N	<0.1
Aclonifen	ug/l	0.1	N	<0.1
Acrinathrin	ug/l	0.1	N	(278) <0.1
Alachlor	ug/l	0.1	N	<0.1
Aldrin	ug/l	0.1	N	<0.1
Ametryn	ug/l	0.1	N	<0.1
Atraton	ug/l	0.1	N	<0.1
Atrazine	ug/l	0.1	N	<0.1
Azaconazole	ug/l	0.1	N	(278) <0.1
Azobenzene	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Benalaxyl	ug/l	0.1	N	<0.1
Benfluralin	ug/l	0.1	N	<0.1
Bifenox	ug/l	0.1	N	(278) <0.1
Bifenthrin	ug/l	0.1	N	<0.1
Binapacryl	ug/l	0.1	N	(278) <0.1
Biphenyl	ug/l	0.1	N	(278) <0.1
Bitertanol	ug/l	0.1	N	<0.1
Boscalid	ug/l	0.1	N	<0.1
Bromacil	ug/l	0.1	N	<0.1
Bromophos	ug/l	0.1	N	<0.1
Bromophos-Ethyl	ug/l	0.1	N	<0.1
Bromopropylate	ug/l	0.1	N	<0.1
Bupirimate	ug/l	0.1	N	<0.1
Buprofezine	ug/l	0.1	N	<0.1
Butachlor	ug/l	0.1	N	<0.1
Cadusafos	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbophenothion	ug/l	0.1	N	<0.1
Carboxine	ug/l	0.1	N	<0.1
Carfentrazone Ethyl	ug/l	0.1	N	<0.1
Chlorobenzilate	ug/l	0.1	N	(278) <0.1
Chlordane (sum of cis and trans isomers)	ug/l	0.1	N	<0.1
Chlordimeform	ug/l	0.1	N	(278) <0.1
Chlorethoxyfos	ug/l	0.1	N	<0.1
Chlorfenapyr	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Chlorfenvinphos	ug/l	0.1	N	<0.1
Chlormephos	ug/l	0.1	N	<0.1
Chloropropylate	ug/l	0.1	N	<0.1
Chlorothalonil	ug/l	0.1	N	<0.1
Chlorpropham	ug/l	0.1	N	<0.1
Chlorpyrifos	ug/l	0.1	N	<0.1
Chlorpyrifos methyl	ug/l	0.1	N	<0.1
Chlorthal Dimethyl	ug/l	0.1	N	<0.1
Chlorthion	ug/l	0.1	N	<0.1
Chlorthiophos	ug/l	0.1	N	<0.1
Chlozolinate	ug/l	0.1	N	<0.1
Clodinafop Propargyl	ug/l	0.1	N	<0.1
Clomazone	ug/l	0.1	N	<0.1
Cloquintocet mexyl	ug/l	0.1	N	<0.1
Coumaphos	ug/l	0.1	N	<0.1
Cyflufenamid	ug/l	0.1	N	<0.1
Cyfluthrin	ug/l	0.1	N	<0.1
Cypermethrin	ug/l	0.1	N	<0.1
Cyphenothrin	ug/l	0.1	N	<0.1
Cyproconazole	ug/l	0.1	N	<0.1
Cyprodinil	ug/l	0.1	N	<0.1
Deltamethrin	ug/l	0.1	N	<0.1
Desmetryn	ug/l	0.1	N	<0.1
Diafenthiuron	ug/l	0.1	N	<0.1
Dialifos	ug/l	0.1	N	<0.1
Diazinon	ug/l	0.1	N	<0.1
Dichlobenil	ug/l	0.1	N	<0.1
Dichlofenthion	ug/l	0.1	N	<0.1
Dichlorvos	ug/l	0.1	N	<0.1
Diclobutrazol	ug/l	0.1	N	<0.1
Dicloran	ug/l	0.1	N	<0.1
Dicofol	ug/l	0.1	N	(278) <0.1
Dieldrin	ug/l	0.1	N	<0.1
Difenoconazole	ug/l	0.1	N	<0.1
Diflufenican	ug/l	0.1	N	<0.1
Dimethenamid	ug/l	0.1	N	<0.1
Dimethomorph	ug/l	0.1	N	<0.1
Dimoxystrobin	ug/l	0.1	N	<0.1

Report Number : 865458 007
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Groundwater
Date Sampled : 17-JUN-2020
Customer Reference : ASB1
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Dioxabenzofos	ug/l	0.1	N	(278) <0.1
Diphenamid	ug/l	0.1	N	<0.1
Diphenylamine	ug/l	0.1	N	<0.1
Disulfoton	ug/l	0.1	N	<0.1
Ditalimfos	ug/l	0.1	N	<0.1
Edifenphos	ug/l	0.1	N	<0.1
Endosulphan alpha	ug/l	0.1	N	<0.1
Endosulphan beta	ug/l	0.1	N	<0.1
Endosulphan sulphate	ug/l	0.1	N	<0.1
Endrin	ug/l	0.1	N	<0.1
EPN	ug/l	0.1	N	(278) <0.1
Epoxiconazole	ug/l	0.1	N	<0.1
EPTC	**ug/l**	**0.1**	**N**	**0.5**
Etaconazole	ug/l	0.1	N	<0.1
Ethion	ug/l	0.1	N	<0.1
Ethofumesate	ug/l	0.1	N	<0.1
Ethoprophos	ug/l	0.1	N	<0.1
Ethoxyquin	ug/l	0.1	N	(278) <0.1
Etofenprox	ug/l	0.1	N	<0.1
Etoxazole	ug/l	0.1	N	<0.1
Etridiazole	ug/l	0.1	N	<0.1
Etrimfos	ug/l	0.1	N	<0.1
Famoxadone	ug/l	0.1	N	<0.1
Famphur	ug/l	0.1	N	<0.1
Fenamidone	ug/l	0.1	N	<0.1
Fenamiphos	ug/l	0.1	N	<0.1
Fenarimol	ug/l	0.1	N	<0.1
Fenbuconazole	ug/l	0.1	N	<0.1
Fenchlorphos	ug/l	0.1	N	<0.1
Fenitrothion	ug/l	0.1	N	<0.1
Fenpiclonil	ug/l	0.1	N	<0.1
Fenpropathrin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenson	ug/l	0.1	N	<0.1
Fensulfothion	ug/l	0.1	N	<0.1
Fenthion	ug/l	0.1	N	<0.1
Fenvalerate	ug/l	0.1	N	<0.1
Fipronil	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Fipronil sulphone	ug/l	0.1	N	<0.1
Flamprop isopropyl	ug/l	0.1	N	<0.1
Fluazifop-P-Butyl	ug/l	0.1	N	<0.1
Flucythrinate	ug/l	0.1	N	<0.1
Fludioxonil	ug/l	0.1	N	<0.1
Flufenacet	ug/l	0.1	N	<0.1
Flumetralin	ug/l	0.1	N	<0.1
Flumioxazin	ug/l	0.1	N	<0.1
Flumorph	ug/l	0.1	N	<0.1
Fluopyram	ug/l	0.1	N	<0.1
Fluquinconazole	ug/l	0.1	N	<0.1
Fluroxypyr-1-methylheptyl ester	ug/l	0.1	N	<0.1
Flusilazole	ug/l	0.1	N	<0.1
Flutolanil	ug/l	0.1	N	<0.1
Fluxapyroxad	ug/l	0.1	N	<0.1
Fonophos	ug/l	0.1	N	<0.1
Formothion	ug/l	0.1	N	<0.1
Furalaxyl	ug/l	0.1	N	<0.1
Haloxyfop etotyl	ug/l	0.1	N	<0.1
Haloxyfop Methyl	ug/l	0.1	N	<0.1
Heptachlor	ug/l	0.1	N	<0.1
Heptachlor epoxide	ug/l	0.1	N	<0.1
Heptachlor exo Epoxide	ug/l	0.1	N	<0.1
Heptenophos	ug/l	0.1	N	<0.1
Hexachlorobenzene	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (alpha)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (beta)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (delta)	ug/l	0.1	N	<0.1
Hexaconazole	ug/l	0.1	N	<0.1
Hexazinone	ug/l	0.1	N	<0.1
Iodofenphos	ug/l	0.1	N	<0.1
Iprodione	ug/l	0.1	N	<0.1
Isazofos	ug/l	0.1	N	<0.1
Isocarbophos	ug/l	0.1	N	<0.1
Isodrin	ug/l	0.1	N	<0.1
Isofenphos	ug/l	0.1	N	<0.1
Isofenphos Methyl	ug/l	0.1	N	<0.1
Isomethiozin	ug/l	0.1	N	<0.1

Report Number : 865458 007
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Groundwater
Date Sampled : 17-JUN-2020
Customer Reference : ASB1
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Isoprothiolane	ug/l	0.1	N	<0.1
Isopyrazam	ug/l	0.1	N	<0.1
Kresoxim Methyl	ug/l	0.1	N	<0.1
Lambda Cyhalothrin	ug/l	0.1	N	<0.1
Lenacil	ug/l	0.1	N	<0.1
Leptophos	ug/l	0.1	N	<0.1
Lindane	ug/l	0.1	N	<0.1
Malathion	ug/l	0.1	N	<0.1
MCPA-thioethyl	ug/l	0.1	N	<0.1
Mecarbam	ug/l	0.1	N	<0.1
Mepanipyrim	ug/l	0.1	N	<0.1
Mephosfolan	ug/l	0.1	N	<0.1
Mepronil	ug/l	0.1	N	<0.1
Metalaxyl	ug/l	0.1	N	<0.1
Metazachlor	ug/l	0.1	N	<0.1
Methacrifos	ug/l	0.1	N	<0.1
Methidathion	ug/l	0.1	N	<0.1
Methoxychlor	ug/l	0.1	N	<0.1
Methyl Paraoxon	ug/l	0.1	N	(278) <0.1
Metolachlor	ug/l	0.1	N	<0.1
Metolcarb	ug/l	0.1	N	<0.1
Metrafenone	ug/l	0.1	N	<0.1
Metribuzin	ug/l	0.1	N	<0.1
Mevinphos	ug/l	0.1	N	<0.1
Mirex	ug/l	0.1	N	<0.1
Molinate	ug/l	0.1	N	<0.1
Myclobutanil	ug/l	0.1	N	<0.1
Napropamide	ug/l	0.1	N	<0.1
Nitrofen	ug/l	0.1	N	<0.1
Nitrothal isopropyl	ug/l	0.1	N	<0.1
Nuarimol	ug/l	0.1	N	<0.1
o,p'-DDT	ug/l	0.1	N	<0.1
o,p-DDD	ug/l	0.1	N	<0.1
o,p-DDE	ug/l	0.1	N	<0.1
Octylisothiazolon	ug/l	0.1	N	<0.1
Ofurace	ug/l	0.1	N	<0.1
Orysastrobin	ug/l	0.1	N	<0.1
Oxadiazon	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Oxadixyl	ug/l	0.1	N	<0.1
Oxyfluorfen	ug/l	0.1	N	<0.1
p,p-DDD	ug/l	0.1	N	<0.1
p,p-DDE	ug/l	0.1	N	<0.1
p,p-DDT	ug/l	0.1	N	<0.1
Paclobutrazol	ug/l	0.1	N	<0.1
Paraoxon	ug/l	0.1	N	<0.1
Parathion	ug/l	0.1	N	<0.1
Parathion methyl	ug/l	0.1	N	<0.1
Penconazole	ug/l	0.1	N	<0.1
Pendimethalin	ug/l	0.1	N	<0.1
Pentachloroaniline	ug/l	0.1	N	<0.1
Pentachlorophenol	ug/l	0.1	N	(278) <0.1
Pentanochlor	ug/l	0.1	N	<0.1
Permethrin	ug/l	0.1	N	<0.1
Pethoxamid	ug/l	0.1	N	<0.1
Phenothrin	ug/l	0.1	N	<0.1
Phenthoate	ug/l	0.1	N	<0.1
Phorate	ug/l	0.1	N	<0.1
Phosalone	ug/l	0.1	N	<0.1
Phosfolan	ug/l	0.1	N	<0.1
Picoxystrobin	ug/l	0.1	N	<0.1
Piperonyl Butoxide	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	<0.1
Pirimiphos Ethyl	ug/l	0.1	N	<0.1
Pirimiphos methyl	ug/l	0.1	N	<0.1
Pretilachlor	ug/l	0.1	N	<0.1
Procymidone	ug/l	0.1	N	<0.1
Profenofos	ug/l	0.1	N	<0.1
Prometon	ug/l	0.1	N	<0.1
Prometryn	ug/l	0.1	N	<0.1
Propachlor	ug/l	0.1	N	<0.1
Propanil	ug/l	0.1	N	<0.1
Propaphos	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	<0.1
Propazine	ug/l	0.1	N	<0.1
Propetamphos	ug/l	0.1	N	<0.1
Propham	ug/l	0.1	N	<0.1

Report Number : 865458 007
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Groundwater
Date Sampled : 17-JUN-2020
Customer Reference : ASB1
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Propiconazole	ug/l	0.1	N	<0.1
Propyzamide	ug/l	0.1	N	<0.1
Proquinazid	ug/l	0.1	N	<0.1
Prosulfocarb	ug/l	0.1	N	<0.1
Prothiofos	ug/l	0.1	N	<0.1
Pyraclostrobin	ug/l	0.1	N	<0.1
Pyraflufen ethyl	ug/l	0.1	N	<0.1
Pyrazophos	ug/l	0.1	N	<0.1
Pyridaben	ug/l	0.1	N	<0.1
Pyridaphenthion	ug/l	0.1	N	<0.1
Pyrimethanil	ug/l	0.1	N	<0.1
Pyriproxyfen	ug/l	0.1	N	<0.1
Quinalphos	ug/l	0.1	N	<0.1
Quinoxyfen	ug/l	0.1	N	<0.1
Quintozene	ug/l	0.1	N	<0.1
Quizalofop-ethyl	ug/l	0.1	N	<0.1
Secbumeton	ug/l	0.1	N	<0.1
Silafluofen	ug/l	0.1	N	<0.1
Simazine	ug/l	0.1	N	<0.1
Simeconazole	ug/l	0.1	N	<0.1
Sulfallate	ug/l	0.1	N	<0.1
Sulprofos	ug/l	0.1	N	<0.1
Tebuconazole	ug/l	0.1	N	<0.1
Tebufenpyrad	ug/l	0.1	N	<0.1
Tebupirimiphos	ug/l	0.1	N	<0.1
Tecnazene	ug/l	0.1	N	<0.1
Tefluthrin	ug/l	0.1	N	<0.1
Terbacil	ug/l	0.1	N	<0.1
Terbufos	ug/l	0.1	N	<0.1
Terbumeton	ug/l	0.1	N	<0.1
Terbuthylazine	ug/l	0.1	N	<0.1
Terbutryn	ug/l	0.1	N	<0.1
Tetrachlorvinphos	ug/l	0.1	N	<0.1
Tetraconazole	ug/l	0.1	N	<0.1
Tetradifon	ug/l	0.1	N	<0.1
tetraethyl dithiopyrophosphate	ug/l	0.1	N	<0.1
Tetramethrin	ug/l	0.1	N	<0.1
Tetrasul	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Thiamethoxam	ug/l	0.1	N	(278) <0.1
Thiobencarb	ug/l	0.1	N	<0.1
Tolclofos-methyl	ug/l	0.1	N	<0.1
Triadimefon	ug/l	0.1	N	<0.1
Triadimenol	ug/l	0.1	N	<0.1
Triallate	ug/l	0.1	N	<0.1
Triazamate	ug/l	0.1	N	<0.1
Triazophos	ug/l	0.1	N	<0.1
Trifloxystrobin	ug/l	0.1	N	<0.1
Triflumizole	ug/l	0.1	N	(278) <0.1
Trifluralin	ug/l	0.1	N	<0.1
Vinclozolin	ug/l	0.1	N	<0.1
Vinclozolin metabolite 3,5-Dichloroaniline	ug/l	0.1	N	(278) <0.1

Report Number : 865458 007
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Groundwater
Date Sampled : 17-JUN-2020
Customer Reference : ASB1
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
2-(1-Naphthyl)acetamide	ug/l	0.1	N	<0.1
3-hydroxycarbofuran	ug/l	0.1	N	<0.1
6-Benzyladenine	ug/l	0.1	N	<0.1
Acephate	ug/l	0.1	N	<0.1
Acetamiprid	ug/l	0.1	N	<0.1
Acibenzolar-S-methyl	ug/l	0.1	N	<0.1
Aldicarb	ug/l	0.1	N	<0.1
Aldicarb sulphone	ug/l	0.1	N	<0.1
Aldicarb sulphoxide	ug/l	0.1	N	<0.1
Aminocarb	ug/l	0.1	N	<0.1
Azadirachtin	ug/l	0.1	N	<0.1
Azinphos ethyl	ug/l	0.1	N	<0.1
Azinphos methyl	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Bendiocarb	ug/l	0.1	N	<0.1
Benfuracarb	ug/l	0.1	N	(278) <0.1
Butralin	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbendazim	ug/l	0.1	N	<0.1
Carbetamide	ug/l	0.1	N	<0.1
Carbofuran	ug/l	0.1	N	<0.1
Carbosulfan	ug/l	0.1	N	(278) <0.1
Carpropamid	ug/l	0.1	N	<0.1
Chinomethionat	ug/l	0.1	N	<0.1
Chlorantraniliprole	ug/l	0.1	N	<0.1
Chlorbromuron	ug/l	0.1	N	<0.1
Chlorfluazuron	ug/l	0.1	N	<0.1
Chloridazon	ug/l	0.1	N	<0.1
Chlorotoluron	ug/l	0.1	N	<0.1
Chlorpropham	ug/l	0.1	N	<0.1
Clofentezine	ug/l	0.1	N	<0.1
Clothianidin	ug/l	0.1	N	<0.1
Cyanazine	ug/l	0.1	N	<0.1
Cyazofamid	ug/l	0.1	N	<0.1
Cycluron	ug/l	0.1	N	<0.1
Cymoxanil	ug/l	0.1	N	<0.1
Cythioate	ug/l	0.1	N	<0.1
Demeton	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Demeton-s-methyl	ug/l	0.1	N	<0.1
Demeton-s-methyl sulphone	ug/l	0.1	N	<0.1
Dichlofluanid	ug/l	0.1	N	<0.1
Dicrotophos	ug/l	0.1	N	<0.1
Diethofencarb	ug/l	0.1	N	<0.1
Diflubenzuron	ug/l	0.1	N	<0.1
Dimefuron	ug/l	0.1	N	<0.1
Dimethoate	ug/l	0.1	N	<0.1
Diniconazole	ug/l	0.1	N	<0.1
Dinotefuran	ug/l	0.1	N	<0.1
Dioxacarb	ug/l	0.1	N	(278) <0.1
Disulfoton sulfoxide	ug/l	0.1	N	<0.1
Disulfoton sulphone	ug/l	0.1	N	<0.1
Diuron	ug/l	0.1	N	<0.1
DMSA	ug/l	0.1	N	<0.1
DMST	ug/l	0.1	N	<0.1
Dodemorph	ug/l	0.1	N	<0.1
Dodine	ug/l	0.1	N	(278) <0.1
Emamectin	ug/l	0.1	N	<0.1
Ethidimuron	ug/l	0.1	N	<0.1
Ethiofencarb	ug/l	0.1	N	<0.1
Ethiofencarb sulfone	ug/l	0.1	N	<0.1
Ethiofencarb sulfoxide	ug/l	0.1	N	<0.1
Ethiprole	ug/l	0.1	N	<0.1
Ethirimol	ug/l	0.1	N	<0.1
Fenamiphos sulfone	ug/l	0.1	N	<0.1
Fenamiphos sulfoxide	ug/l	0.1	N	<0.1
Fenazaquin	ug/l	0.1	N	<0.1
Fenchlorphos oxon	ug/l	0.1	N	<0.1
Fenhexamid	ug/l	0.1	N	<0.1
Fenoxycarb	ug/l	0.1	N	<0.1
Fenpropidin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenpyroximate	ug/l	0.1	N	<0.1
Fenthion Sulphone	ug/l	0.1	N	<0.1
Fenthion Sulphoxide	ug/l	0.1	N	<0.1
Fenuron	ug/l	0.1	N	<0.1
Flonicamid	ug/l	0.1	N	<0.1

Report Number : 865458 007
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Groundwater
Date Sampled : 17-JUN-2020
Customer Reference : ASB1
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Fluazinam	ug/l	0.1	N	<0.1
Flufenoxuron	ug/l	0.1	N	<0.1
Fluometuron	ug/l	0.1	N	<0.1
Fluopicolide	ug/l	0.1	N	<0.1
Fluorochloridone	ug/l	0.1	N	<0.1
Fluoxastrobin	ug/l	0.1	N	<0.1
Flurtamone	ug/l	0.1	N	<0.1
Flutriafol	ug/l	0.1	N	<0.1
Forchlorfenuron	ug/l	0.1	N	<0.1
Fosthiasate	ug/l	0.1	N	<0.1
Fuberidazole	ug/l	0.1	N	<0.1
Furathiocarb	ug/l	0.1	N	<0.1
Hexaflumuron	ug/l	0.1	N	<0.1
Hexythiazox	ug/l	0.1	N	<0.1
Imazalil	ug/l	0.1	N	(278) <0.1
Imibenconazole	ug/l	0.1	N	(278) <0.1
Imidacloprid	ug/l	0.1	N	<0.1
Indoxacarb	ug/l	0.1	N	<0.1
Iprovalicarb	ug/l	0.1	N	<0.1
Isoprocarb	ug/l	0.1	N	<0.1
Isoproturon	ug/l	0.1	N	<0.1
Isoxaben	ug/l	0.1	N	<0.1
Karbutilate	ug/l	0.1	N	<0.1
Linuron	ug/l	0.1	N	<0.1
Lufenuron	ug/l	0.1	N	<0.1
Malaoxon	ug/l	0.1	N	<0.1
Mandipropamid	ug/l	0.1	N	<0.1
Mefenacet	ug/l	0.1	N	<0.1
Metamitron	ug/l	0.1	N	<0.1
Metconazole	ug/l	0.1	N	<0.1
Methabenzthiazuron	ug/l	0.1	N	<0.1
Methamidophos	ug/l	0.1	N	<0.1
Methiocarb	ug/l	0.1	N	<0.1
Methiocarb Sulfone	ug/l	0.1	N	<0.1
Methiocarb Sulfoxide	ug/l	0.1	N	<0.1
Methomyl	ug/l	0.1	N	<0.1
Methoxyfenozide	ug/l	0.1	N	(278) <0.1
Metobromuron	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Metoxuron	ug/l	0.1	N	<0.1
Monocrotophos	ug/l	0.1	N	<0.1
Monolinuron	ug/l	0.1	N	<0.1
Monuron	ug/l	0.1	N	<0.1
Neburon	ug/l	0.1	N	<0.1
Nicotine	ug/l	0.1	N	<0.1
Nitenpyram	ug/l	0.1	N	<0.1
Novaluron	ug/l	0.1	N	<0.1
Omethoate	ug/l	0.1	N	<0.1
Oxadiargyl	ug/l	0.1	N	<0.1
Oxamyl	ug/l	0.1	N	<0.1
Oxycarboxin	ug/l	0.1	N	<0.1
Oxydemeton-Methyl	ug/l	0.1	N	<0.1
Pencycuron	ug/l	0.1	N	<0.1
Phorate sulfone	ug/l	0.1	N	<0.1
Phorate sulfoxide	ug/l	0.1	N	<0.1
Phosmet	ug/l	0.1	N	<0.1
Phosphamidon	ug/l	0.1	N	<0.1
Phoxim	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	<0.1
Prochloraz	ug/l	0.1	N	<0.1
Promecarb	ug/l	0.1	N	<0.1
Propamocarb	ug/l	0.1	N	(278) <0.1
Propaquizafop	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	<0.1
Propoxur	ug/l	0.1	N	<0.1
Pymetrozine	ug/l	0.1	N	<0.1
Pyrifenox	ug/l	0.1	N	<0.1
Resmethrin	ug/l	0.1	N	<0.1
Rotenone	ug/l	0.1	N	<0.1
Spinosad	ug/l	0.1	N	<0.1
Spirodiclofen	ug/l	0.1	N	<0.1
Spiromesifen	ug/l	0.1	N	<0.1
Spiroxamine	ug/l	0.1	N	<0.1
Tebufenozide	ug/l	0.1	N	<0.1
Teflubenzuron	ug/l	0.1	N	<0.1
Temephos	ug/l	0.1	N	<0.1
Terbufos sulfone	ug/l	0.1	N	<0.1

Report Number : 865458 007
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Groundwater
Date Sampled : 17-JUN-2020
Customer Reference : ASB1
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Terbufos sulfoxide	ug/l	0.1	N	<0.1
Thiabendazole	ug/l	0.1	N	<0.1
Thiacloprid	ug/l	0.1	N	<0.1
Thiazafluron	ug/l	0.1	N	<0.1
Thiodicarb	ug/l	0.1	N	<0.1
Thiofanox	ug/l	0.1	N	<0.1
Thiophanate Methyl	ug/l	0.1	N	<0.1
Tolylfluanid	ug/l	0.1	N	<0.1
Trichlorfon	ug/l	0.1	N	<0.1
Tridemorph	ug/l	0.1	N	<0.1
Trifloxysulfuron	ug/l	0.1	N	<0.1
Triflumuron	ug/l	0.1	N	<0.1
Triflusulfuron-methyl	ug/l	0.1	N	<0.1
Triticonazole	ug/l	0.1	N	<0.1
Vamidothion	ug/l	0.1	N	<0.1
Vernolate	ug/l	0.1	N	<0.1
Zoxamide	ug/l	0.1	N	<0.1

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Concept Life Sciences

Certificate of Analysis

Unit 2
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CB23 8UD
Tel : 01954 782791
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Report Number : 865458 008
Date of Issue : 24-Jun-2020

Customer : Pam Brown Associates
Contact : Dr Melissa Morales
Address : 2 Needwood House, Lancaster Park, Newborough Road, Needwood Burton on Trent, DE13 9PD

Samples Received : 18-Jun-2020
Analysis Started : 19-Jun-2020
Concept Job Reference : 865458-1
Analysis Requested : MRPS by GC (CSOPP611), MRPS by LC (CSOPP603)
Variety : Groundwater
Date Sampled : 17-JUN-2020
Customer Reference : WS102
Location : Wheathampstead
Sample Description : Water

Results Summary

Analyte	Level Found	Units	LOD	EU MRL mg/kg	CODEX MRL mg/kg	Symbol
MRPS by GC (CSOPP611)	**No residue detected above the limit of detection.**					
MRPS by LC (CSOPP603)	**No residue detected above the limit of detection.**					

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.
Customers are responsible for information provided where, if incorrect, it could affect the validity of the results.
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 Concept Life Sciences SOPs
All results have been reviewed in accordance with QMSection 15 of the Concept Life Sciences, Analytical Services Quality Manual
All samples prepared in accordance with the CODEX alimentarius

Report checked
and authorised by :
Matt Line
Section Manager - Pesticides

Issued by :
Naomi Woodward
Customer Service Advisor

Index to symbols used in this report

Value	Description
278	Data reported is qualitative as recovery is outside the 60 to 140% range
5	Results are Semiquantitative
N	Analysis is not UKAS accredited

Report Number : 865458 008
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Groundwater
Date Sampled : 17-JUN-2020
Customer Reference : WS102
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
2,4,6-Trichlorophenol	ug/l	0.1	N	<0.1
2-Phenylphenol	ug/l	0.1	N	<0.1
Acetochlor	ug/l	0.1	N	<0.1
Aclonifen	ug/l	0.1	N	<0.1
Acrinathrin	ug/l	0.1	N	(278) <0.1
Alachlor	ug/l	0.1	N	<0.1
Aldrin	ug/l	0.1	N	<0.1
Ametryn	ug/l	0.1	N	<0.1
Atraton	ug/l	0.1	N	<0.1
Atrazine	ug/l	0.1	N	<0.1
Azaconazole	ug/l	0.1	N	(278) <0.1
Azobenzene	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Benalaxyl	ug/l	0.1	N	<0.1
Benfluralin	ug/l	0.1	N	<0.1
Bifenox	ug/l	0.1	N	(278) <0.1
Bifenthrin	ug/l	0.1	N	<0.1
Binapacryl	ug/l	0.1	N	(278) <0.1
Biphenyl	ug/l	0.1	N	(278) <0.1
Bitertanol	ug/l	0.1	N	<0.1
Boscalid	ug/l	0.1	N	<0.1
Bromacil	ug/l	0.1	N	<0.1
Bromophos	ug/l	0.1	N	<0.1
Bromophos-Ethyl	ug/l	0.1	N	<0.1
Bromopropylate	ug/l	0.1	N	<0.1
Bupirimate	ug/l	0.1	N	<0.1
Buprofezine	ug/l	0.1	N	<0.1
Butachlor	ug/l	0.1	N	<0.1
Cadusafos	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbophenothion	ug/l	0.1	N	<0.1
Carboxine	ug/l	0.1	N	<0.1
Carfentrazone Ethyl	ug/l	0.1	N	<0.1
Chlorobenzilate	ug/l	0.1	N	(278) <0.1
Chlordane (sum of cis and trans isomers)	ug/l	0.1	N	<0.1
Chlordimeform	ug/l	0.1	N	(278) <0.1
Chlorethoxyfos	ug/l	0.1	N	<0.1
Chlorfenapyr	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Chlorfenvinphos	ug/l	0.1	N	<0.1
Chlormephos	ug/l	0.1	N	<0.1
Chloropropylate	ug/l	0.1	N	<0.1
Chlorothalonil	ug/l	0.1	N	<0.1
Chlorpropham	ug/l	0.1	N	<0.1
Chlorpyrifos	ug/l	0.1	N	<0.1
Chlorpyrifos methyl	ug/l	0.1	N	<0.1
Chlorthal Dimethyl	ug/l	0.1	N	<0.1
Chlorthion	ug/l	0.1	N	<0.1
Chlorthiophos	ug/l	0.1	N	<0.1
Chlozolinate	ug/l	0.1	N	<0.1
Clodinafop Propargyl	ug/l	0.1	N	<0.1
Clomazone	ug/l	0.1	N	<0.1
Cloquintocet mexyl	ug/l	0.1	N	<0.1
Coumaphos	ug/l	0.1	N	<0.1
Cyflufenamid	ug/l	0.1	N	<0.1
Cyfluthrin	ug/l	0.1	N	<0.1
Cypermethrin	ug/l	0.1	N	<0.1
Cyphenothrin	ug/l	0.1	N	<0.1
Cyproconazole	ug/l	0.1	N	<0.1
Cyprodinil	ug/l	0.1	N	<0.1
Deltamethrin	ug/l	0.1	N	<0.1
Desmetryn	ug/l	0.1	N	<0.1
Diafenthiuron	ug/l	0.1	N	<0.1
Dialifos	ug/l	0.1	N	<0.1
Diazinon	ug/l	0.1	N	<0.1
Dichlobenil	ug/l	0.1	N	<0.1
Dichlofenthion	ug/l	0.1	N	<0.1
Dichlorvos	ug/l	0.1	N	<0.1
Diclobutrazol	ug/l	0.1	N	<0.1
Dicloran	ug/l	0.1	N	<0.1
Dicofol	ug/l	0.1	N	(278) <0.1
Dieldrin	ug/l	0.1	N	<0.1
Difenoconazole	ug/l	0.1	N	<0.1
Diflufenican	ug/l	0.1	N	<0.1
Dimethenamid	ug/l	0.1	N	<0.1
Dimethomorph	ug/l	0.1	N	<0.1
Dimoxystrobin	ug/l	0.1	N	<0.1

Report Number : 865458 008
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Groundwater
Date Sampled : 17-JUN-2020
Customer Reference : WS102
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Dioxabenzofos	ug/l	0.1	N	(278) <0.1
Diphenamid	ug/l	0.1	N	<0.1
Diphenylamine	ug/l	0.1	N	<0.1
Disulfoton	ug/l	0.1	N	<0.1
Ditalimfos	ug/l	0.1	N	<0.1
Edifenphos	ug/l	0.1	N	<0.1
Endosulphan alpha	ug/l	0.1	N	<0.1
Endosulphan beta	ug/l	0.1	N	<0.1
Endosulphan sulphate	ug/l	0.1	N	<0.1
Endrin	ug/l	0.1	N	<0.1
EPN	ug/l	0.1	N	(278) <0.1
Epoxiconazole	ug/l	0.1	N	<0.1
EPTC	ug/l	0.1	N	<0.1
Etaconazole	ug/l	0.1	N	<0.1
Ethion	ug/l	0.1	N	<0.1
Ethofumesate	ug/l	0.1	N	<0.1
Ethoprophos	ug/l	0.1	N	<0.1
Ethoxyquin	ug/l	0.1	N	(278) <0.1
Etofenprox	ug/l	0.1	N	<0.1
Etoxazole	ug/l	0.1	N	<0.1
Etridiazole	ug/l	0.1	N	<0.1
Etrimfos	ug/l	0.1	N	<0.1
Famoxadone	ug/l	0.1	N	<0.1
Famphur	ug/l	0.1	N	<0.1
Fenamidone	ug/l	0.1	N	<0.1
Fenamiphos	ug/l	0.1	N	<0.1
Fenarimol	ug/l	0.1	N	<0.1
Fenbuconazole	ug/l	0.1	N	<0.1
Fenchlorphos	ug/l	0.1	N	<0.1
Fenitrothion	ug/l	0.1	N	<0.1
Fenpiclonil	ug/l	0.1	N	<0.1
Fenpropathrin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenson	ug/l	0.1	N	<0.1
Fensulfothion	ug/l	0.1	N	<0.1
Fenthion	ug/l	0.1	N	<0.1
Fenvalerate	ug/l	0.1	N	<0.1
Fipronil	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Fipronil sulphone	ug/l	0.1	N	<0.1
Flamprop isopropyl	ug/l	0.1	N	<0.1
Fluazifop-P-Butyl	ug/l	0.1	N	<0.1
Flucythrinate	ug/l	0.1	N	<0.1
Fludioxonil	ug/l	0.1	N	<0.1
Flufenacet	ug/l	0.1	N	<0.1
Flumetralin	ug/l	0.1	N	<0.1
Flumioxazin	ug/l	0.1	N	<0.1
Flumorph	ug/l	0.1	N	<0.1
Fluopyram	ug/l	0.1	N	<0.1
Fluquinconazole	ug/l	0.1	N	<0.1
Fluroxypyr-1-methylheptyl ester	ug/l	0.1	N	<0.1
Flusilazole	ug/l	0.1	N	<0.1
Flutolanil	ug/l	0.1	N	<0.1
Fluxapyroxad	ug/l	0.1	N	<0.1
Fonophos	ug/l	0.1	N	<0.1
Formothion	ug/l	0.1	N	<0.1
Furalaxyl	ug/l	0.1	N	<0.1
Haloxyfop etotyl	ug/l	0.1	N	<0.1
Haloxyfop Methyl	ug/l	0.1	N	<0.1
Heptachlor	ug/l	0.1	N	<0.1
Heptachlor epoxide	ug/l	0.1	N	<0.1
Heptachlor exo Epoxide	ug/l	0.1	N	<0.1
Heptenophos	ug/l	0.1	N	<0.1
Hexachlorobenzene	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (alpha)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (beta)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (delta)	ug/l	0.1	N	<0.1
Hexaconazole	ug/l	0.1	N	<0.1
Hexazinone	ug/l	0.1	N	<0.1
Iodofenphos	ug/l	0.1	N	<0.1
Iprodione	ug/l	0.1	N	<0.1
Isazofos	ug/l	0.1	N	<0.1
Isocarbophos	ug/l	0.1	N	<0.1
Isodrin	ug/l	0.1	N	<0.1
Isofenphos	ug/l	0.1	N	<0.1
Isofenphos Methyl	ug/l	0.1	N	<0.1
Isomethiozin	ug/l	0.1	N	<0.1

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Samples Received : 18-Jun-2020
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Date Sampled : 17-JUN-2020
Customer Reference : WS102
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Isoprothiolane	ug/l	0.1	N	<0.1
Isopyrazam	ug/l	0.1	N	<0.1
Kresoxim Methyl	ug/l	0.1	N	<0.1
Lambda Cyhalothrin	ug/l	0.1	N	<0.1
Lenacil	ug/l	0.1	N	<0.1
Leptophos	ug/l	0.1	N	<0.1
Lindane	ug/l	0.1	N	<0.1
Malathion	ug/l	0.1	N	<0.1
MCPA-thioethyl	ug/l	0.1	N	<0.1
Mecarbam	ug/l	0.1	N	<0.1
Mepanipyrim	ug/l	0.1	N	<0.1
Mephosfolan	ug/l	0.1	N	<0.1
Mepronil	ug/l	0.1	N	<0.1
Metalaxyl	ug/l	0.1	N	<0.1
Metazachlor	ug/l	0.1	N	<0.1
Methacrifos	ug/l	0.1	N	<0.1
Methidathion	ug/l	0.1	N	<0.1
Methoxychlor	ug/l	0.1	N	<0.1
Methyl Paraoxon	ug/l	0.1	N	(278) <0.1
Metolachlor	ug/l	0.1	N	<0.1
Metolcarb	ug/l	0.1	N	<0.1
Metrafenone	ug/l	0.1	N	<0.1
Metribuzin	ug/l	0.1	N	<0.1
Mevinphos	ug/l	0.1	N	<0.1
Mirex	ug/l	0.1	N	<0.1
Molinate	ug/l	0.1	N	<0.1
Myclobutanil	ug/l	0.1	N	<0.1
Napropamide	ug/l	0.1	N	<0.1
Nitrofen	ug/l	0.1	N	<0.1
Nitrothal isopropyl	ug/l	0.1	N	<0.1
Nuarimol	ug/l	0.1	N	<0.1
o,p'-DDT	ug/l	0.1	N	<0.1
o,p-DDD	ug/l	0.1	N	<0.1
o,p-DDE	ug/l	0.1	N	<0.1
Octylisothiazolon	ug/l	0.1	N	<0.1
Ofurace	ug/l	0.1	N	<0.1
Orysastrobin	ug/l	0.1	N	<0.1
Oxadiazon	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Oxadixyl	ug/l	0.1	N	<0.1
Oxyfluorfen	ug/l	0.1	N	<0.1
p,p-DDD	ug/l	0.1	N	<0.1
p,p-DDE	ug/l	0.1	N	<0.1
p,p-DDT	ug/l	0.1	N	<0.1
Paclobutrazol	ug/l	0.1	N	<0.1
Paraoxon	ug/l	0.1	N	<0.1
Parathion	ug/l	0.1	N	<0.1
Parathion methyl	ug/l	0.1	N	<0.1
Penconazole	ug/l	0.1	N	<0.1
Pendimethalin	ug/l	0.1	N	<0.1
Pentachloroaniline	ug/l	0.1	N	<0.1
Pentachlorophenol	ug/l	0.1	N	(278) <0.1
Pentanochlor	ug/l	0.1	N	<0.1
Permethrin	ug/l	0.1	N	<0.1
Pethoxamid	ug/l	0.1	N	<0.1
Phenothrin	ug/l	0.1	N	<0.1
Phenthoate	ug/l	0.1	N	<0.1
Phorate	ug/l	0.1	N	<0.1
Phosalone	ug/l	0.1	N	<0.1
Phosfolan	ug/l	0.1	N	<0.1
Picoxystrobin	ug/l	0.1	N	<0.1
Piperonyl Butoxide	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	<0.1
Pirimiphos Ethyl	ug/l	0.1	N	<0.1
Pirimiphos methyl	ug/l	0.1	N	<0.1
Pretilachlor	ug/l	0.1	N	<0.1
Procymidone	ug/l	0.1	N	<0.1
Profenofos	ug/l	0.1	N	<0.1
Prometon	ug/l	0.1	N	<0.1
Prometryn	ug/l	0.1	N	<0.1
Propachlor	ug/l	0.1	N	<0.1
Propanil	ug/l	0.1	N	<0.1
Propaphos	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	<0.1
Propazine	ug/l	0.1	N	<0.1
Propetamphos	ug/l	0.1	N	<0.1
Propham	ug/l	0.1	N	<0.1

Report Number : 865458 008
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Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Propiconazole	ug/l	0.1	N	<0.1
Propyzamide	ug/l	0.1	N	<0.1
Proquinazid	ug/l	0.1	N	<0.1
Prosulfocarb	ug/l	0.1	N	<0.1
Prothiofos	ug/l	0.1	N	<0.1
Pyraclostrobin	ug/l	0.1	N	<0.1
Pyraflufen ethyl	ug/l	0.1	N	<0.1
Pyrazophos	ug/l	0.1	N	<0.1
Pyridaben	ug/l	0.1	N	<0.1
Pyridaphenthion	ug/l	0.1	N	<0.1
Pyrimethanil	ug/l	0.1	N	<0.1
Pyriproxyfen	ug/l	0.1	N	<0.1
Quinalphos	ug/l	0.1	N	<0.1
Quinoxyfen	ug/l	0.1	N	<0.1
Quintozene	ug/l	0.1	N	<0.1
Quizalofop-ethyl	ug/l	0.1	N	<0.1
Secbumeton	ug/l	0.1	N	<0.1
Silafluofen	ug/l	0.1	N	<0.1
Simazine	ug/l	0.1	N	<0.1
Simeconazole	ug/l	0.1	N	<0.1
Sulfallate	ug/l	0.1	N	<0.1
Sulprofos	ug/l	0.1	N	<0.1
Tebuconazole	ug/l	0.1	N	<0.1
Tebufenpyrad	ug/l	0.1	N	<0.1
Tebupirimiphos	ug/l	0.1	N	<0.1
Tecnazene	ug/l	0.1	N	<0.1
Tefluthrin	ug/l	0.1	N	<0.1
Terbacil	ug/l	0.1	N	<0.1
Terbufos	ug/l	0.1	N	<0.1
Terbumeton	ug/l	0.1	N	<0.1
Terbuthylazine	ug/l	0.1	N	<0.1
Terbutryn	ug/l	0.1	N	<0.1
Tetrachlorvinphos	ug/l	0.1	N	<0.1
Tetraconazole	ug/l	0.1	N	<0.1
Tetradifon	ug/l	0.1	N	<0.1
tetraethyl dithiopyrophosphate	ug/l	0.1	N	<0.1
Tetramethrin	ug/l	0.1	N	<0.1
Tetrasul	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Thiamethoxam	ug/l	0.1	N	(278) <0.1
Thiobencarb	ug/l	0.1	N	<0.1
Tolclofos-methyl	ug/l	0.1	N	<0.1
Triadimefon	ug/l	0.1	N	<0.1
Triadimenol	ug/l	0.1	N	<0.1
Triallate	ug/l	0.1	N	<0.1
Triazamate	ug/l	0.1	N	<0.1
Triazophos	ug/l	0.1	N	<0.1
Trifloxystrobin	ug/l	0.1	N	<0.1
Triflumizole	ug/l	0.1	N	(278) <0.1
Trifluralin	ug/l	0.1	N	<0.1
Vinclozolin	ug/l	0.1	N	<0.1
Vinclozolin metabolite 3,5-Dichloroaniline	ug/l	0.1	N	(278) <0.1

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Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
2-(1-Naphthyl)acetamide	ug/l	0.1	N	<0.1
3-hydroxycarbofuran	ug/l	0.1	N	<0.1
6-Benzyladenine	ug/l	0.1	N	<0.1
Acephate	ug/l	0.1	N	<0.1
Acetamiprid	ug/l	0.1	N	<0.1
Acibenzolar-S-methyl	ug/l	0.1	N	<0.1
Aldicarb	ug/l	0.1	N	<0.1
Aldicarb sulphone	ug/l	0.1	N	<0.1
Aldicarb sulphoxide	ug/l	0.1	N	<0.1
Aminocarb	ug/l	0.1	N	<0.1
Azadirachtin	ug/l	0.1	N	<0.1
Azinphos ethyl	ug/l	0.1	N	<0.1
Azinphos methyl	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Bendiocarb	ug/l	0.1	N	<0.1
Benfuracarb	ug/l	0.1	N	(278) <0.1
Butralin	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbendazim	ug/l	0.1	N	<0.1
Carbetamide	ug/l	0.1	N	<0.1
Carbofuran	ug/l	0.1	N	<0.1
Carbosulfan	ug/l	0.1	N	(278) <0.1
Carpropamid	ug/l	0.1	N	<0.1
Chinomethionat	ug/l	0.1	N	<0.1
Chlorantraniliprole	ug/l	0.1	N	<0.1
Chlorbromuron	ug/l	0.1	N	<0.1
Chlorfluazuron	ug/l	0.1	N	<0.1
Chloridazon	ug/l	0.1	N	<0.1
Chlorotoluron	ug/l	0.1	N	<0.1
Chlorpropham	ug/l	0.1	N	<0.1
Clofentezine	ug/l	0.1	N	<0.1
Clothianidin	ug/l	0.1	N	<0.1
Cyanazine	ug/l	0.1	N	<0.1
Cyazofamid	ug/l	0.1	N	<0.1
Cycluron	ug/l	0.1	N	<0.1
Cymoxanil	ug/l	0.1	N	<0.1
Cythioate	ug/l	0.1	N	<0.1
Demeton	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Demeton-s-methyl	ug/l	0.1	N	<0.1
Demeton-s-methyl sulphone	ug/l	0.1	N	<0.1
Dichlofluanid	ug/l	0.1	N	<0.1
Dicrotophos	ug/l	0.1	N	<0.1
Diethofencarb	ug/l	0.1	N	<0.1
Diflubenzuron	ug/l	0.1	N	<0.1
Dimefuron	ug/l	0.1	N	<0.1
Dimethoate	ug/l	0.1	N	<0.1
Diniconazole	ug/l	0.1	N	<0.1
Dinotefuran	ug/l	0.1	N	<0.1
Dioxacarb	ug/l	0.1	N	(278) <0.1
Disulfoton sulfoxide	ug/l	0.1	N	<0.1
Disulfoton sulphone	ug/l	0.1	N	<0.1
Diuron	ug/l	0.1	N	<0.1
DMSA	ug/l	0.1	N	<0.1
DMST	ug/l	0.1	N	<0.1
Dodemorph	ug/l	0.1	N	<0.1
Dodine	ug/l	0.1	N	(278) <0.1
Emamectin	ug/l	0.1	N	<0.1
Ethidimuron	ug/l	0.1	N	<0.1
Ethiofencarb	ug/l	0.1	N	<0.1
Ethiofencarb sulfone	ug/l	0.1	N	<0.1
Ethiofencarb sulfoxide	ug/l	0.1	N	<0.1
Ethiprole	ug/l	0.1	N	<0.1
Ethirimol	ug/l	0.1	N	<0.1
Fenamiphos sulfone	ug/l	0.1	N	<0.1
Fenamiphos sulfoxide	ug/l	0.1	N	<0.1
Fenazaquin	ug/l	0.1	N	<0.1
Fenchlorphos oxon	ug/l	0.1	N	<0.1
Fenhexamid	ug/l	0.1	N	<0.1
Fenoxycarb	ug/l	0.1	N	<0.1
Fenpropidin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenpyroximate	ug/l	0.1	N	<0.1
Fenthion Sulphone	ug/l	0.1	N	<0.1
Fenthion Sulphoxide	ug/l	0.1	N	<0.1
Fenuron	ug/l	0.1	N	<0.1
Flonicamid	ug/l	0.1	N	<0.1

Report Number : 865458 008
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Groundwater
Date Sampled : 17-JUN-2020
Customer Reference : WS102
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Fluazinam	ug/l	0.1	N	<0.1
Flufenoxuron	ug/l	0.1	N	<0.1
Fluometuron	ug/l	0.1	N	<0.1
Fluopicolide	ug/l	0.1	N	<0.1
Fluorochloridone	ug/l	0.1	N	<0.1
Fluoxastrobin	ug/l	0.1	N	<0.1
Flurtamone	ug/l	0.1	N	<0.1
Flutriafol	ug/l	0.1	N	<0.1
Forchlorfenuron	ug/l	0.1	N	<0.1
Fosthiasate	ug/l	0.1	N	<0.1
Fuberidazole	ug/l	0.1	N	<0.1
Furathiocarb	ug/l	0.1	N	<0.1
Hexaflumuron	ug/l	0.1	N	<0.1
Hexythiazox	ug/l	0.1	N	<0.1
Imazalil	ug/l	0.1	N	(278) <0.1
Imibenconazole	ug/l	0.1	N	(278) <0.1
Imidacloprid	ug/l	0.1	N	<0.1
Indoxacarb	ug/l	0.1	N	<0.1
Iprovalicarb	ug/l	0.1	N	<0.1
Isoprocarb	ug/l	0.1	N	<0.1
Isoproturon	ug/l	0.1	N	<0.1
Isoxaben	ug/l	0.1	N	<0.1
Karbutilate	ug/l	0.1	N	<0.1
Linuron	ug/l	0.1	N	<0.1
Lufenuron	ug/l	0.1	N	<0.1
Malaoxon	ug/l	0.1	N	<0.1
Mandipropamid	ug/l	0.1	N	<0.1
Mefenacet	ug/l	0.1	N	<0.1
Metamitron	ug/l	0.1	N	<0.1
Metconazole	ug/l	0.1	N	<0.1
Methabenzthiazuron	ug/l	0.1	N	<0.1
Methamidophos	ug/l	0.1	N	<0.1
Methiocarb	ug/l	0.1	N	<0.1
Methiocarb Sulfone	ug/l	0.1	N	<0.1
Methiocarb Sulfoxide	ug/l	0.1	N	<0.1
Methomyl	ug/l	0.1	N	<0.1
Methoxyfenozide	ug/l	0.1	N	(278) <0.1
Metobromuron	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Metoxuron	ug/l	0.1	N	<0.1
Monocrotophos	ug/l	0.1	N	<0.1
Monolinuron	ug/l	0.1	N	<0.1
Monuron	ug/l	0.1	N	<0.1
Neburon	ug/l	0.1	N	<0.1
Nicotine	ug/l	0.1	N	<0.1
Nitenpyram	ug/l	0.1	N	<0.1
Novaluron	ug/l	0.1	N	<0.1
Omethoate	ug/l	0.1	N	<0.1
Oxadiargyl	ug/l	0.1	N	<0.1
Oxamyl	ug/l	0.1	N	<0.1
Oxycarboxin	ug/l	0.1	N	<0.1
Oxydemeton-Methyl	ug/l	0.1	N	<0.1
Pencycuron	ug/l	0.1	N	<0.1
Phorate sulfone	ug/l	0.1	N	<0.1
Phorate sulfoxide	ug/l	0.1	N	<0.1
Phosmet	ug/l	0.1	N	<0.1
Phosphamidon	ug/l	0.1	N	<0.1
Phoxim	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	<0.1
Prochloraz	ug/l	0.1	N	<0.1
Promecarb	ug/l	0.1	N	<0.1
Propamocarb	ug/l	0.1	N	(278) <0.1
Propaquizafop	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	<0.1
Propoxur	ug/l	0.1	N	<0.1
Pymetrozine	ug/l	0.1	N	<0.1
Pyrifenox	ug/l	0.1	N	<0.1
Resmethrin	ug/l	0.1	N	<0.1
Rotenone	ug/l	0.1	N	<0.1
Spinosad	ug/l	0.1	N	<0.1
Spirodiclofen	ug/l	0.1	N	<0.1
Spiromesifen	ug/l	0.1	N	<0.1
Spiroxamine	ug/l	0.1	N	<0.1
Tebufenozide	ug/l	0.1	N	<0.1
Teflubenzuron	ug/l	0.1	N	<0.1
Temephos	ug/l	0.1	N	<0.1
Terbufos sulfone	ug/l	0.1	N	<0.1

Report Number : 865458 008
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Groundwater
Date Sampled : 17-JUN-2020
Customer Reference : WS102
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Terbufos sulfoxide	ug/l	0.1	N	<0.1
Thiabendazole	ug/l	0.1	N	<0.1
Thiacloprid	ug/l	0.1	N	<0.1
Thiazafluron	ug/l	0.1	N	<0.1
Thiodicarb	ug/l	0.1	N	<0.1
Thiofanox	ug/l	0.1	N	<0.1
Thiophanate Methyl	ug/l	0.1	N	<0.1
Tolylfluanid	ug/l	0.1	N	<0.1
Trichlorfon	ug/l	0.1	N	<0.1
Tridemorph	ug/l	0.1	N	<0.1
Trifloxysulfuron	ug/l	0.1	N	<0.1
Triflumuron	ug/l	0.1	N	<0.1
Triflusulfuron-methyl	ug/l	0.1	N	<0.1
Triticonazole	ug/l	0.1	N	<0.1
Vamidothion	ug/l	0.1	N	<0.1
Vernolate	ug/l	0.1	N	<0.1
Zoxamide	ug/l	0.1	N	<0.1

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Concept Life Sciences

Certificate of Analysis

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CB23 8UD
Tel : 01954 782791
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Report Number : 865458 009
Date of Issue : 24-Jun-2020

Customer : Pam Brown Associates
Contact : Dr Melissa Morales
Address : 2 Needwood House, Lancaster Park, Newborough Road, Needwood Burton on Trent, DE13 9PD

Samples Received : 18-Jun-2020
Analysis Started : 19-Jun-2020
Concept Job Reference : 865458-1
Analysis Requested : MRPS by GC (CSOPP611), MRPS by LC (CSOPP603)
Variety : Groundwater
Date Sampled : 17-JUN-2020
Customer Reference : WS103
Location : Wheathampstead
Sample Description : Water

Results Summary

Analyte	Level Found	Units	LOD	EU MRL mg/kg	CODEX MRL mg/kg	Symbol
MRPS by GC (CSOPP611)	**No residue detected above the limit of detection.**					
MRPS by LC (CSOPP603)						
Imidacloprid	**0.1**	ug/l	0.1			N

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.
Customers are responsible for information provided where, if incorrect, it could affect the validity of the results.
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 Concept Life Sciences SOPs
All results have been reviewed in accordance with QMSection 15 of the Concept Life Sciences, Analytical Services Quality Manual
All samples prepared in accordance with the CODEX alimentarius

Report checked
and authorised by :
Matt Line
Section Manager - Pesticides

Issued by :
Naomi Woodward
Customer Service Advisor

Index to symbols used in this report

Value	Description
278	Data reported is qualitative as recovery is outside the 60 to 140% range
5	Results are Semiquantitative
N	Analysis is not UKAS accredited

Report Number : 865458 009
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Groundwater
Date Sampled : 17-JUN-2020
Customer Reference : WS103
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
2,4,6-Trichlorophenol	ug/l	0.1	N	<0.1
2-Phenylphenol	ug/l	0.1	N	<0.1
Acetochlor	ug/l	0.1	N	<0.1
Aclonifen	ug/l	0.1	N	<0.1
Acrinathrin	ug/l	0.1	N	(278) <0.1
Alachlor	ug/l	0.1	N	<0.1
Aldrin	ug/l	0.1	N	<0.1
Ametryn	ug/l	0.1	N	<0.1
Atraton	ug/l	0.1	N	<0.1
Atrazine	ug/l	0.1	N	<0.1
Azaconazole	ug/l	0.1	N	(278) <0.1
Azobenzene	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Benalaxyl	ug/l	0.1	N	<0.1
Benfluralin	ug/l	0.1	N	<0.1
Bifenox	ug/l	0.1	N	(278) <0.1
Bifenthrin	ug/l	0.1	N	<0.1
Binapacryl	ug/l	0.1	N	(278) <0.1
Biphenyl	ug/l	0.1	N	(278) <0.1
Bitertanol	ug/l	0.1	N	<0.1
Boscalid	ug/l	0.1	N	<0.1
Bromacil	ug/l	0.1	N	<0.1
Bromophos	ug/l	0.1	N	<0.1
Bromophos-Ethyl	ug/l	0.1	N	<0.1
Bromopropylate	ug/l	0.1	N	<0.1
Bupirimate	ug/l	0.1	N	<0.1
Buprofezine	ug/l	0.1	N	<0.1
Butachlor	ug/l	0.1	N	<0.1
Cadusafos	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbophenothion	ug/l	0.1	N	<0.1
Carboxine	ug/l	0.1	N	<0.1
Carfentrazone Ethyl	ug/l	0.1	N	<0.1
Chlorobenzilate	ug/l	0.1	N	(278) <0.1
Chlordane (sum of cis and trans isomers)	ug/l	0.1	N	<0.1
Chlordimeform	ug/l	0.1	N	(278) <0.1
Chlorethoxyfos	ug/l	0.1	N	<0.1
Chlorfenapyr	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Chlorfenvinphos	ug/l	0.1	N	<0.1
Chlormephos	ug/l	0.1	N	<0.1
Chloropropylate	ug/l	0.1	N	<0.1
Chlorothalonil	ug/l	0.1	N	<0.1
Chlorpropham	ug/l	0.1	N	<0.1
Chlorpyrifos	ug/l	0.1	N	<0.1
Chlorpyrifos methyl	ug/l	0.1	N	<0.1
Chlorthal Dimethyl	ug/l	0.1	N	<0.1
Chlorthion	ug/l	0.1	N	<0.1
Chlorthiophos	ug/l	0.1	N	<0.1
Chlozolinate	ug/l	0.1	N	<0.1
Clodinafop Propargyl	ug/l	0.1	N	<0.1
Clomazone	ug/l	0.1	N	<0.1
Cloquintocet mexyl	ug/l	0.1	N	<0.1
Coumaphos	ug/l	0.1	N	<0.1
Cyflufenamid	ug/l	0.1	N	<0.1
Cyfluthrin	ug/l	0.1	N	<0.1
Cypermethrin	ug/l	0.1	N	<0.1
Cyphenothrin	ug/l	0.1	N	<0.1
Cyproconazole	ug/l	0.1	N	<0.1
Cyprodinil	ug/l	0.1	N	<0.1
Deltamethrin	ug/l	0.1	N	<0.1
Desmetryn	ug/l	0.1	N	<0.1
Diafenthiuron	ug/l	0.1	N	<0.1
Dialifos	ug/l	0.1	N	<0.1
Diazinon	ug/l	0.1	N	<0.1
Dichlobenil	ug/l	0.1	N	<0.1
Dichlofenthion	ug/l	0.1	N	<0.1
Dichlorvos	ug/l	0.1	N	<0.1
Diclobutrazol	ug/l	0.1	N	<0.1
Dicloran	ug/l	0.1	N	<0.1
Dicofol	ug/l	0.1	N	(278) <0.1
Dieldrin	ug/l	0.1	N	<0.1
Difenoconazole	ug/l	0.1	N	<0.1
Diflufenican	ug/l	0.1	N	<0.1
Dimethenamid	ug/l	0.1	N	<0.1
Dimethomorph	ug/l	0.1	N	<0.1
Dimoxystrobin	ug/l	0.1	N	<0.1

Report Number : 865458 009
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Groundwater
Date Sampled : 17-JUN-2020
Customer Reference : WS103
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Dioxabenzofos	ug/l	0.1	N	(278) <0.1
Diphenamid	ug/l	0.1	N	<0.1
Diphenylamine	ug/l	0.1	N	<0.1
Disulfoton	ug/l	0.1	N	<0.1
Ditalimfos	ug/l	0.1	N	<0.1
Edifenphos	ug/l	0.1	N	<0.1
Endosulphan alpha	ug/l	0.1	N	<0.1
Endosulphan beta	ug/l	0.1	N	<0.1
Endosulphan sulphate	ug/l	0.1	N	<0.1
Endrin	ug/l	0.1	N	<0.1
EPN	ug/l	0.1	N	(278) <0.1
Epoxiconazole	ug/l	0.1	N	<0.1
EPTC	ug/l	0.1	N	<0.1
Etaconazole	ug/l	0.1	N	<0.1
Ethion	ug/l	0.1	N	<0.1
Ethofumesate	ug/l	0.1	N	<0.1
Ethoprophos	ug/l	0.1	N	<0.1
Ethoxyquin	ug/l	0.1	N	(278) <0.1
Etofenprox	ug/l	0.1	N	<0.1
Etoxazole	ug/l	0.1	N	<0.1
Etridiazole	ug/l	0.1	N	<0.1
Etrimfos	ug/l	0.1	N	<0.1
Famoxadone	ug/l	0.1	N	<0.1
Famphur	ug/l	0.1	N	<0.1
Fenamidone	ug/l	0.1	N	<0.1
Fenamiphos	ug/l	0.1	N	<0.1
Fenarimol	ug/l	0.1	N	<0.1
Fenbuconazole	ug/l	0.1	N	<0.1
Fenchlorphos	ug/l	0.1	N	<0.1
Fenitrothion	ug/l	0.1	N	<0.1
Fenpiclonil	ug/l	0.1	N	<0.1
Fenpropathrin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenson	ug/l	0.1	N	<0.1
Fensulfothion	ug/l	0.1	N	<0.1
Fenthion	ug/l	0.1	N	<0.1
Fenvalerate	ug/l	0.1	N	<0.1
Fipronil	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Fipronil sulphone	ug/l	0.1	N	<0.1
Flamprop isopropyl	ug/l	0.1	N	<0.1
Fluazifop-P-Butyl	ug/l	0.1	N	<0.1
Flucythrinate	ug/l	0.1	N	<0.1
Fludioxonil	ug/l	0.1	N	<0.1
Flufenacet	ug/l	0.1	N	<0.1
Flumetralin	ug/l	0.1	N	<0.1
Flumioxazin	ug/l	0.1	N	<0.1
Flumorph	ug/l	0.1	N	<0.1
Fluopyram	ug/l	0.1	N	<0.1
Fluquinconazole	ug/l	0.1	N	<0.1
Fluroxypyr-1-methylheptyl ester	ug/l	0.1	N	<0.1
Flusilazole	ug/l	0.1	N	<0.1
Flutolanil	ug/l	0.1	N	<0.1
Fluxapyroxad	ug/l	0.1	N	<0.1
Fonophos	ug/l	0.1	N	<0.1
Formothion	ug/l	0.1	N	<0.1
Furalaxyl	ug/l	0.1	N	<0.1
Haloxyfop etotyl	ug/l	0.1	N	<0.1
Haloxyfop Methyl	ug/l	0.1	N	<0.1
Heptachlor	ug/l	0.1	N	<0.1
Heptachlor epoxide	ug/l	0.1	N	<0.1
Heptachlor exo Epoxide	ug/l	0.1	N	<0.1
Heptenophos	ug/l	0.1	N	<0.1
Hexachlorobenzene	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (alpha)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (beta)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (delta)	ug/l	0.1	N	<0.1
Hexaconazole	ug/l	0.1	N	<0.1
Hexazinone	ug/l	0.1	N	<0.1
Iodofenphos	ug/l	0.1	N	<0.1
Iprodione	ug/l	0.1	N	<0.1
Isazofos	ug/l	0.1	N	<0.1
Isocarbophos	ug/l	0.1	N	<0.1
Isodrin	ug/l	0.1	N	<0.1
Isofenphos	ug/l	0.1	N	<0.1
Isofenphos Methyl	ug/l	0.1	N	<0.1
Isomethiozin	ug/l	0.1	N	<0.1

Report Number : 865458 009
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Groundwater
Date Sampled : 17-JUN-2020
Customer Reference : WS103
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Isoprothiolane	ug/l	0.1	N	<0.1
Isopyrazam	ug/l	0.1	N	<0.1
Kresoxim Methyl	ug/l	0.1	N	<0.1
Lambda Cyhalothrin	ug/l	0.1	N	<0.1
Lenacil	ug/l	0.1	N	<0.1
Leptophos	ug/l	0.1	N	<0.1
Lindane	ug/l	0.1	N	<0.1
Malathion	ug/l	0.1	N	<0.1
MCPA-thioethyl	ug/l	0.1	N	<0.1
Mecarbam	ug/l	0.1	N	<0.1
Mepanipyrim	ug/l	0.1	N	<0.1
Mephosfolan	ug/l	0.1	N	<0.1
Mepronil	ug/l	0.1	N	<0.1
Metalaxyl	ug/l	0.1	N	<0.1
Metazachlor	ug/l	0.1	N	<0.1
Methacrifos	ug/l	0.1	N	<0.1
Methidathion	ug/l	0.1	N	<0.1
Methoxychlor	ug/l	0.1	N	<0.1
Methyl Paraoxon	ug/l	0.1	N	(278) <0.1
Metolachlor	ug/l	0.1	N	<0.1
Metolcarb	ug/l	0.1	N	<0.1
Metrafenone	ug/l	0.1	N	<0.1
Metribuzin	ug/l	0.1	N	<0.1
Mevinphos	ug/l	0.1	N	<0.1
Mirex	ug/l	0.1	N	<0.1
Molinate	ug/l	0.1	N	<0.1
Myclobutanil	ug/l	0.1	N	<0.1
Napropamide	ug/l	0.1	N	<0.1
Nitrofen	ug/l	0.1	N	<0.1
Nitrothal isopropyl	ug/l	0.1	N	<0.1
Nuarimol	ug/l	0.1	N	<0.1
o,p'-DDT	ug/l	0.1	N	<0.1
o,p-DDD	ug/l	0.1	N	<0.1
o,p-DDE	ug/l	0.1	N	<0.1
Octylisothiazolon	ug/l	0.1	N	<0.1
Ofurace	ug/l	0.1	N	<0.1
Orysastrobin	ug/l	0.1	N	<0.1
Oxadiazon	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Oxadixyl	ug/l	0.1	N	<0.1
Oxyfluorfen	ug/l	0.1	N	<0.1
p,p-DDD	ug/l	0.1	N	<0.1
p,p-DDE	ug/l	0.1	N	<0.1
p,p-DDT	ug/l	0.1	N	<0.1
Paclobutrazol	ug/l	0.1	N	<0.1
Paraoxon	ug/l	0.1	N	<0.1
Parathion	ug/l	0.1	N	<0.1
Parathion methyl	ug/l	0.1	N	<0.1
Penconazole	ug/l	0.1	N	<0.1
Pendimethalin	ug/l	0.1	N	<0.1
Pentachloroaniline	ug/l	0.1	N	<0.1
Pentachlorophenol	ug/l	0.1	N	(278) <0.1
Pentanochlor	ug/l	0.1	N	<0.1
Permethrin	ug/l	0.1	N	<0.1
Pethoxamid	ug/l	0.1	N	<0.1
Phenothrin	ug/l	0.1	N	<0.1
Phenthoate	ug/l	0.1	N	<0.1
Phorate	ug/l	0.1	N	<0.1
Phosalone	ug/l	0.1	N	<0.1
Phosfolan	ug/l	0.1	N	<0.1
Picoxystrobin	ug/l	0.1	N	<0.1
Piperonyl Butoxide	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	<0.1
Pirimiphos Ethyl	ug/l	0.1	N	<0.1
Pirimiphos methyl	ug/l	0.1	N	<0.1
Pretilachlor	ug/l	0.1	N	<0.1
Procymidone	ug/l	0.1	N	<0.1
Profenofos	ug/l	0.1	N	<0.1
Prometon	ug/l	0.1	N	<0.1
Prometryn	ug/l	0.1	N	<0.1
Propachlor	ug/l	0.1	N	<0.1
Propanil	ug/l	0.1	N	<0.1
Propaphos	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	<0.1
Propazine	ug/l	0.1	N	<0.1
Propetamphos	ug/l	0.1	N	<0.1
Propham	ug/l	0.1	N	<0.1

Report Number : 865458 009
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Groundwater
Date Sampled : 17-JUN-2020
Customer Reference : WS103
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Propiconazole	ug/l	0.1	N	<0.1
Propyzamide	ug/l	0.1	N	<0.1
Proquinazid	ug/l	0.1	N	<0.1
Prosulfocarb	ug/l	0.1	N	<0.1
Prothiofos	ug/l	0.1	N	<0.1
Pyraclostrobin	ug/l	0.1	N	<0.1
Pyraflufen ethyl	ug/l	0.1	N	<0.1
Pyrazophos	ug/l	0.1	N	<0.1
Pyridaben	ug/l	0.1	N	<0.1
Pyridaphenthion	ug/l	0.1	N	<0.1
Pyrimethanil	ug/l	0.1	N	<0.1
Pyriproxyfen	ug/l	0.1	N	<0.1
Quinalphos	ug/l	0.1	N	<0.1
Quinoxyfen	ug/l	0.1	N	<0.1
Quintozene	ug/l	0.1	N	<0.1
Quizalofop-ethyl	ug/l	0.1	N	<0.1
Secbumeton	ug/l	0.1	N	<0.1
Silafluofen	ug/l	0.1	N	<0.1
Simazine	ug/l	0.1	N	<0.1
Simeconazole	ug/l	0.1	N	<0.1
Sulfallate	ug/l	0.1	N	<0.1
Sulprofos	ug/l	0.1	N	<0.1
Tebuconazole	ug/l	0.1	N	<0.1
Tebufenpyrad	ug/l	0.1	N	<0.1
Tebupirimiphos	ug/l	0.1	N	<0.1
Tecnazene	ug/l	0.1	N	<0.1
Tefluthrin	ug/l	0.1	N	<0.1
Terbacil	ug/l	0.1	N	<0.1
Terbufos	ug/l	0.1	N	<0.1
Terbumeton	ug/l	0.1	N	<0.1
Terbuthylazine	ug/l	0.1	N	<0.1
Terbutryn	ug/l	0.1	N	<0.1
Tetrachlorvinphos	ug/l	0.1	N	<0.1
Tetraconazole	ug/l	0.1	N	<0.1
Tetradifon	ug/l	0.1	N	<0.1
tetraethyl dithiopyrophosphate	ug/l	0.1	N	<0.1
Tetramethrin	ug/l	0.1	N	<0.1
Tetrasul	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Thiamethoxam	ug/l	0.1	N	(278) <0.1
Thiobencarb	ug/l	0.1	N	<0.1
Tolclofos-methyl	ug/l	0.1	N	<0.1
Triadimefon	ug/l	0.1	N	<0.1
Triadimenol	ug/l	0.1	N	<0.1
Triallate	ug/l	0.1	N	<0.1
Triazamate	ug/l	0.1	N	<0.1
Triazophos	ug/l	0.1	N	<0.1
Trifloxystrobin	ug/l	0.1	N	<0.1
Triflumizole	ug/l	0.1	N	(278) <0.1
Trifluralin	ug/l	0.1	N	<0.1
Vinclozolin	ug/l	0.1	N	<0.1
Vinclozolin metabolite 3,5-Dichloroaniline	ug/l	0.1	N	(278) <0.1

Report Number : 865458 009
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Groundwater
Date Sampled : 17-JUN-2020
Customer Reference : WS103
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
2-(1-Naphthyl)acetamide	ug/l	0.1	N	<0.1
3-hydroxycarbofuran	ug/l	0.1	N	<0.1
6-Benzyladenine	ug/l	0.1	N	<0.1
Acephate	ug/l	0.1	N	<0.1
Acetamiprid	ug/l	0.1	N	<0.1
Acibenzolar-S-methyl	ug/l	0.1	N	<0.1
Aldicarb	ug/l	0.1	N	<0.1
Aldicarb sulphone	ug/l	0.1	N	<0.1
Aldicarb sulphoxide	ug/l	0.1	N	<0.1
Aminocarb	ug/l	0.1	N	<0.1
Azadirachtin	ug/l	0.1	N	<0.1
Azinphos ethyl	ug/l	0.1	N	<0.1
Azinphos methyl	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Bendiocarb	ug/l	0.1	N	<0.1
Benfuracarb	ug/l	0.1	N	(278) <0.1
Butralin	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbendazim	ug/l	0.1	N	<0.1
Carbetamide	ug/l	0.1	N	<0.1
Carbofuran	ug/l	0.1	N	<0.1
Carbosulfan	ug/l	0.1	N	(278) <0.1
Carpropamid	ug/l	0.1	N	<0.1
Chinomethionat	ug/l	0.1	N	<0.1
Chlorantraniliprole	ug/l	0.1	N	<0.1
Chlorbromuron	ug/l	0.1	N	<0.1
Chlorfluazuron	ug/l	0.1	N	<0.1
Chloridazon	ug/l	0.1	N	<0.1
Chlorotoluron	ug/l	0.1	N	<0.1
Chlorpropham	ug/l	0.1	N	<0.1
Clofentezine	ug/l	0.1	N	<0.1
Clothianidin	ug/l	0.1	N	<0.1
Cyanazine	ug/l	0.1	N	<0.1
Cyazofamid	ug/l	0.1	N	<0.1
Cycluron	ug/l	0.1	N	<0.1
Cymoxanil	ug/l	0.1	N	<0.1
Cythioate	ug/l	0.1	N	<0.1
Demeton	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Demeton-s-methyl	ug/l	0.1	N	<0.1
Demeton-s-methyl sulphone	ug/l	0.1	N	<0.1
Dichlofluanid	ug/l	0.1	N	<0.1
Dicrotophos	ug/l	0.1	N	<0.1
Diethofencarb	ug/l	0.1	N	<0.1
Diflubenzuron	ug/l	0.1	N	<0.1
Dimefuron	ug/l	0.1	N	<0.1
Dimethoate	ug/l	0.1	N	<0.1
Diniconazole	ug/l	0.1	N	<0.1
Dinotefuran	ug/l	0.1	N	<0.1
Dioxacarb	ug/l	0.1	N	(278) <0.1
Disulfoton sulfoxide	ug/l	0.1	N	<0.1
Disulfoton sulphone	ug/l	0.1	N	<0.1
Diuron	ug/l	0.1	N	<0.1
DMSA	ug/l	0.1	N	<0.1
DMST	ug/l	0.1	N	<0.1
Dodemorph	ug/l	0.1	N	<0.1
Dodine	ug/l	0.1	N	(278) <0.1
Emamectin	ug/l	0.1	N	<0.1
Ethidimuron	ug/l	0.1	N	<0.1
Ethiofencarb	ug/l	0.1	N	<0.1
Ethiofencarb sulfone	ug/l	0.1	N	<0.1
Ethiofencarb sulfoxide	ug/l	0.1	N	<0.1
Ethiprole	ug/l	0.1	N	<0.1
Ethirimol	ug/l	0.1	N	<0.1
Fenamiphos sulfone	ug/l	0.1	N	<0.1
Fenamiphos sulfoxide	ug/l	0.1	N	<0.1
Fenazaquin	ug/l	0.1	N	<0.1
Fenchlorphos oxon	ug/l	0.1	N	<0.1
Fenhexamid	ug/l	0.1	N	<0.1
Fenoxycarb	ug/l	0.1	N	<0.1
Fenpropidin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenpyroximate	ug/l	0.1	N	<0.1
Fenthion Sulphone	ug/l	0.1	N	<0.1
Fenthion Sulphoxide	ug/l	0.1	N	<0.1
Fenuron	ug/l	0.1	N	<0.1
Flonicamid	ug/l	0.1	N	<0.1

Report Number : 865458 009
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Groundwater
Date Sampled : 17-JUN-2020
Customer Reference : WS103
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Fluazinam	ug/l	0.1	N	<0.1
Flufenoxuron	ug/l	0.1	N	<0.1
Fluometuron	ug/l	0.1	N	<0.1
Fluopicolide	ug/l	0.1	N	<0.1
Fluorochloridone	ug/l	0.1	N	<0.1
Fluoxastrobin	ug/l	0.1	N	<0.1
Flurtamone	ug/l	0.1	N	<0.1
Flutriafol	ug/l	0.1	N	<0.1
Forchlorfenuron	ug/l	0.1	N	<0.1
Fosthiasate	ug/l	0.1	N	<0.1
Fuberidazole	ug/l	0.1	N	<0.1
Furathiocarb	ug/l	0.1	N	<0.1
Hexaflumuron	ug/l	0.1	N	<0.1
Hexythiazox	ug/l	0.1	N	<0.1
Imazalil	ug/l	0.1	N	(278) <0.1
Imibenconazole	ug/l	0.1	N	(278) <0.1
Imidacloprid	**ug/l**	**0.1**	**N**	**0.1**
Indoxacarb	ug/l	0.1	N	<0.1
Iprovalicarb	ug/l	0.1	N	<0.1
Isoprocarb	ug/l	0.1	N	<0.1
Isoproturon	ug/l	0.1	N	<0.1
Isoxaben	ug/l	0.1	N	<0.1
Karbutilate	ug/l	0.1	N	<0.1
Linuron	ug/l	0.1	N	<0.1
Lufenuron	ug/l	0.1	N	<0.1
Malaoxon	ug/l	0.1	N	<0.1
Mandipropamid	ug/l	0.1	N	<0.1
Mefenacet	ug/l	0.1	N	<0.1
Metamitron	ug/l	0.1	N	<0.1
Metconazole	ug/l	0.1	N	<0.1
Methabenzthiazuron	ug/l	0.1	N	<0.1
Methamidophos	ug/l	0.1	N	<0.1
Methiocarb	ug/l	0.1	N	<0.1
Methiocarb Sulfone	ug/l	0.1	N	<0.1
Methiocarb Sulfoxide	ug/l	0.1	N	<0.1
Methomyl	ug/l	0.1	N	<0.1
Methoxyfenozide	ug/l	0.1	N	(278) <0.1
Metobromuron	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Metoxuron	ug/l	0.1	N	<0.1
Monocrotophos	ug/l	0.1	N	<0.1
Monolinuron	ug/l	0.1	N	<0.1
Monuron	ug/l	0.1	N	<0.1
Neburon	ug/l	0.1	N	<0.1
Nicotine	ug/l	0.1	N	<0.1
Nitenpyram	ug/l	0.1	N	<0.1
Novaluron	ug/l	0.1	N	<0.1
Omethoate	ug/l	0.1	N	<0.1
Oxadiargyl	ug/l	0.1	N	<0.1
Oxamyl	ug/l	0.1	N	<0.1
Oxycarboxin	ug/l	0.1	N	<0.1
Oxydemeton-Methyl	ug/l	0.1	N	<0.1
Pencycuron	ug/l	0.1	N	<0.1
Phorate sulfone	ug/l	0.1	N	<0.1
Phorate sulfoxide	ug/l	0.1	N	<0.1
Phosmet	ug/l	0.1	N	<0.1
Phosphamidon	ug/l	0.1	N	<0.1
Phoxim	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	<0.1
Prochloraz	ug/l	0.1	N	<0.1
Promecarb	ug/l	0.1	N	<0.1
Propamocarb	ug/l	0.1	N	(278) <0.1
Propaquizafop	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	<0.1
Propoxur	ug/l	0.1	N	<0.1
Pymetrozine	ug/l	0.1	N	<0.1
Pyrifenox	ug/l	0.1	N	<0.1
Resmethrin	ug/l	0.1	N	<0.1
Rotenone	ug/l	0.1	N	<0.1
Spinosad	ug/l	0.1	N	<0.1
Spirodiclofen	ug/l	0.1	N	<0.1
Spiromesifen	ug/l	0.1	N	<0.1
Spiroxamine	ug/l	0.1	N	<0.1
Tebufenozide	ug/l	0.1	N	<0.1
Teflubenzuron	ug/l	0.1	N	<0.1
Temephos	ug/l	0.1	N	<0.1
Terbufos sulfone	ug/l	0.1	N	<0.1

Report Number : 865458 009
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Groundwater
Date Sampled : 17-JUN-2020
Customer Reference : WS103
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Terbufos sulfoxide	ug/l	0.1	N	<0.1
Thiabendazole	ug/l	0.1	N	<0.1
Thiacloprid	ug/l	0.1	N	<0.1
Thiazafluron	ug/l	0.1	N	<0.1
Thiodicarb	ug/l	0.1	N	<0.1
Thiofanox	ug/l	0.1	N	<0.1
Thiophanate Methyl	ug/l	0.1	N	<0.1
Tolylfluanid	ug/l	0.1	N	<0.1
Trichlorfon	ug/l	0.1	N	<0.1
Tridemorph	ug/l	0.1	N	<0.1
Trifloxysulfuron	ug/l	0.1	N	<0.1
Triflumuron	ug/l	0.1	N	<0.1
Triflusulfuron-methyl	ug/l	0.1	N	<0.1
Triticonazole	ug/l	0.1	N	<0.1
Vamidothion	ug/l	0.1	N	<0.1
Vernolate	ug/l	0.1	N	<0.1
Zoxamide	ug/l	0.1	N	<0.1

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Concept Life Sciences

Certificate of Analysis

Unit 2
The Links
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Cambridgeshire
CB23 8UD
Tel : 01954 782791
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Report Number : 865458 010
Date of Issue : 24-Jun-2020

Customer : Pam Brown Associates
Contact : Dr Melissa Morales
Address : 2 Needwood House, Lancaster Park, Newborough Road, Needwood Burton on Trent, DE13 9PD

Samples Received : 18-Jun-2020
Analysis Started : 19-Jun-2020
Concept Job Reference : 865458-1
Analysis Requested : MRPS by GC (CSOPP611), MRPS by LC (CSOPP603)
Variety : Surface Water
Date Sampled : 17-JUN-2020
Customer Reference : S1
Location : Wheathampstead
Sample Description : Water

Results Summary

Analyte	Level Found	Units	LOD	EU MRL mg/kg	CODEX MRL mg/kg	Symbol
MRPS by GC (CSOPP611)	**No residue detected above the limit of detection.**					
MRPS by LC (CSOPP603)						
Imidacloprid	**0.1**	ug/l	0.1			N

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.
Customers are responsible for information provided where, if incorrect, it could affect the validity of the results.
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 Concept Life Sciences SOPs
All results have been reviewed in accordance with QMSection 15 of the Concept Life Sciences, Analytical Services Quality Manual
All samples prepared in accordance with the CODEX alimentarius

Report checked
and authorised by :
Matt Line
Section Manager - Pesticides

Issued by :
Naomi Woodward
Customer Service Advisor

Index to symbols used in this report

Value	Description
278	Data reported is qualitative as recovery is outside the 60 to 140% range
5	Results are Semiquantitative
N	Analysis is not UKAS accredited

Report Number : 865458 010
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Surface Water
Date Sampled : 17-JUN-2020
Customer Reference : S1
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
2,4,6-Trichlorophenol	ug/l	0.1	N	<0.1
2-Phenylphenol	ug/l	0.1	N	<0.1
Acetochlor	ug/l	0.1	N	<0.1
Aclonifen	ug/l	0.1	N	<0.1
Acrinathrin	ug/l	0.1	N	(278) <0.1
Alachlor	ug/l	0.1	N	<0.1
Aldrin	ug/l	0.1	N	<0.1
Ametryn	ug/l	0.1	N	<0.1
Atraton	ug/l	0.1	N	<0.1
Atrazine	ug/l	0.1	N	<0.1
Azaconazole	ug/l	0.1	N	(278) <0.1
Azobenzene	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Benalaxyl	ug/l	0.1	N	<0.1
Benfluralin	ug/l	0.1	N	<0.1
Bifenox	ug/l	0.1	N	(278) <0.1
Bifenthrin	ug/l	0.1	N	<0.1
Binapacryl	ug/l	0.1	N	(278) <0.1
Biphenyl	ug/l	0.1	N	(278) <0.1
Bitertanol	ug/l	0.1	N	<0.1
Boscalid	ug/l	0.1	N	<0.1
Bromacil	ug/l	0.1	N	<0.1
Bromophos	ug/l	0.1	N	<0.1
Bromophos-Ethyl	ug/l	0.1	N	<0.1
Bromopropylate	ug/l	0.1	N	<0.1
Bupirimate	ug/l	0.1	N	<0.1
Buprofezine	ug/l	0.1	N	<0.1
Butachlor	ug/l	0.1	N	<0.1
Cadusafos	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbophenothion	ug/l	0.1	N	<0.1
Carboxine	ug/l	0.1	N	<0.1
Carfentrazone Ethyl	ug/l	0.1	N	<0.1
Chlorobenzilate	ug/l	0.1	N	(278) <0.1
Chlordane (sum of cis and trans isomers)	ug/l	0.1	N	<0.1
Chlordimeform	ug/l	0.1	N	(278) <0.1
Chlorethoxyfos	ug/l	0.1	N	<0.1
Chlorfenapyr	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Chlorfenvinphos	ug/l	0.1	N	<0.1
Chlormephos	ug/l	0.1	N	<0.1
Chloropropylate	ug/l	0.1	N	<0.1
Chlorothalonil	ug/l	0.1	N	<0.1
Chlorpropham	ug/l	0.1	N	<0.1
Chlorpyrifos	ug/l	0.1	N	<0.1
Chlorpyrifos methyl	ug/l	0.1	N	<0.1
Chlorthal Dimethyl	ug/l	0.1	N	<0.1
Chlorthion	ug/l	0.1	N	<0.1
Chlorthiophos	ug/l	0.1	N	<0.1
Chlozolinate	ug/l	0.1	N	<0.1
Clodinafop Propargyl	ug/l	0.1	N	<0.1
Clomazone	ug/l	0.1	N	<0.1
Cloquintocet mexyl	ug/l	0.1	N	<0.1
Coumaphos	ug/l	0.1	N	<0.1
Cyflufenamid	ug/l	0.1	N	<0.1
Cyfluthrin	ug/l	0.1	N	<0.1
Cypermethrin	ug/l	0.1	N	<0.1
Cyphenothrin	ug/l	0.1	N	<0.1
Cyproconazole	ug/l	0.1	N	<0.1
Cyprodinil	ug/l	0.1	N	<0.1
Deltamethrin	ug/l	0.1	N	<0.1
Desmetryn	ug/l	0.1	N	<0.1
Diafenthiuron	ug/l	0.1	N	<0.1
Dialifos	ug/l	0.1	N	<0.1
Diazinon	ug/l	0.1	N	<0.1
Dichlobenil	ug/l	0.1	N	<0.1
Dichlofenthion	ug/l	0.1	N	<0.1
Dichlorvos	ug/l	0.1	N	<0.1
Diclobutrazol	ug/l	0.1	N	<0.1
Dicloran	ug/l	0.1	N	<0.1
Dicofol	ug/l	0.1	N	(278) <0.1
Dieldrin	ug/l	0.1	N	<0.1
Difenoconazole	ug/l	0.1	N	<0.1
Diflufenican	ug/l	0.1	N	<0.1
Dimethenamid	ug/l	0.1	N	<0.1
Dimethomorph	ug/l	0.1	N	<0.1
Dimoxystrobin	ug/l	0.1	N	<0.1

Report Number : 865458 010
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Surface Water
Date Sampled : 17-JUN-2020
Customer Reference : S1
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Dioxabenzofos	ug/l	0.1	N	(278) <0.1
Diphenamid	ug/l	0.1	N	<0.1
Diphenylamine	ug/l	0.1	N	<0.1
Disulfoton	ug/l	0.1	N	<0.1
Ditalimfos	ug/l	0.1	N	<0.1
Edifenphos	ug/l	0.1	N	<0.1
Endosulphan alpha	ug/l	0.1	N	<0.1
Endosulphan beta	ug/l	0.1	N	<0.1
Endosulphan sulphate	ug/l	0.1	N	<0.1
Endrin	ug/l	0.1	N	<0.1
EPN	ug/l	0.1	N	(278) <0.1
Epoxiconazole	ug/l	0.1	N	<0.1
EPTC	ug/l	0.1	N	<0.1
Etaconazole	ug/l	0.1	N	<0.1
Ethion	ug/l	0.1	N	<0.1
Ethofumesate	ug/l	0.1	N	<0.1
Ethoprophos	ug/l	0.1	N	<0.1
Ethoxyquin	ug/l	0.1	N	(278) <0.1
Etofenprox	ug/l	0.1	N	<0.1
Etoxazole	ug/l	0.1	N	<0.1
Etridiazole	ug/l	0.1	N	<0.1
Etrimfos	ug/l	0.1	N	<0.1
Famoxadone	ug/l	0.1	N	<0.1
Famphur	ug/l	0.1	N	<0.1
Fenamidone	ug/l	0.1	N	<0.1
Fenamiphos	ug/l	0.1	N	<0.1
Fenarimol	ug/l	0.1	N	<0.1
Fenbuconazole	ug/l	0.1	N	<0.1
Fenchlorphos	ug/l	0.1	N	<0.1
Fenitrothion	ug/l	0.1	N	<0.1
Fenpiclonil	ug/l	0.1	N	<0.1
Fenpropathrin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenson	ug/l	0.1	N	<0.1
Fensulfothion	ug/l	0.1	N	<0.1
Fenthion	ug/l	0.1	N	<0.1
Fenvalerate	ug/l	0.1	N	<0.1
Fipronil	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Fipronil sulphone	ug/l	0.1	N	<0.1
Flamprop isopropyl	ug/l	0.1	N	<0.1
Fluazifop-P-Butyl	ug/l	0.1	N	<0.1
Flucythrinate	ug/l	0.1	N	<0.1
Fludioxonil	ug/l	0.1	N	<0.1
Flufenacet	ug/l	0.1	N	<0.1
Flumetralin	ug/l	0.1	N	<0.1
Flumioxazin	ug/l	0.1	N	<0.1
Flumorph	ug/l	0.1	N	<0.1
Fluopyram	ug/l	0.1	N	<0.1
Fluquinconazole	ug/l	0.1	N	<0.1
Fluroxypyr-1-methylheptyl ester	ug/l	0.1	N	<0.1
Flusilazole	ug/l	0.1	N	<0.1
Flutolanil	ug/l	0.1	N	<0.1
Fluxapyroxad	ug/l	0.1	N	<0.1
Fonophos	ug/l	0.1	N	<0.1
Formothion	ug/l	0.1	N	<0.1
Furalaxyl	ug/l	0.1	N	<0.1
Haloxyfop etotyl	ug/l	0.1	N	<0.1
Haloxyfop Methyl	ug/l	0.1	N	<0.1
Heptachlor	ug/l	0.1	N	<0.1
Heptachlor epoxide	ug/l	0.1	N	<0.1
Heptachlor exo Epoxide	ug/l	0.1	N	<0.1
Heptenophos	ug/l	0.1	N	<0.1
Hexachlorobenzene	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (alpha)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (beta)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (delta)	ug/l	0.1	N	<0.1
Hexaconazole	ug/l	0.1	N	<0.1
Hexazinone	ug/l	0.1	N	<0.1
Iodofenphos	ug/l	0.1	N	<0.1
Iprodione	ug/l	0.1	N	<0.1
Isazofos	ug/l	0.1	N	<0.1
Isocarbophos	ug/l	0.1	N	<0.1
Isodrin	ug/l	0.1	N	<0.1
Isofenphos	ug/l	0.1	N	<0.1
Isofenphos Methyl	ug/l	0.1	N	<0.1
Isomethiozin	ug/l	0.1	N	<0.1

Report Number : 865458 010
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Surface Water
Date Sampled : 17-JUN-2020
Customer Reference : S1
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Isoprothiolane	ug/l	0.1	N	<0.1
Isopyrazam	ug/l	0.1	N	<0.1
Kresoxim Methyl	ug/l	0.1	N	<0.1
Lambda Cyhalothrin	ug/l	0.1	N	<0.1
Lenacil	ug/l	0.1	N	<0.1
Leptophos	ug/l	0.1	N	<0.1
Lindane	ug/l	0.1	N	<0.1
Malathion	ug/l	0.1	N	<0.1
MCPA-thioethyl	ug/l	0.1	N	<0.1
Mecarbam	ug/l	0.1	N	<0.1
Mepanipyrim	ug/l	0.1	N	<0.1
Mephosfolan	ug/l	0.1	N	<0.1
Mepronil	ug/l	0.1	N	<0.1
Metalaxyl	ug/l	0.1	N	<0.1
Metazachlor	ug/l	0.1	N	<0.1
Methacrifos	ug/l	0.1	N	<0.1
Methidathion	ug/l	0.1	N	<0.1
Methoxychlor	ug/l	0.1	N	<0.1
Methyl Paraoxon	ug/l	0.1	N	(278) <0.1
Metolachlor	ug/l	0.1	N	<0.1
Metolcarb	ug/l	0.1	N	<0.1
Metrafenone	ug/l	0.1	N	<0.1
Metribuzin	ug/l	0.1	N	<0.1
Mevinphos	ug/l	0.1	N	<0.1
Mirex	ug/l	0.1	N	<0.1
Molinate	ug/l	0.1	N	<0.1
Myclobutanil	ug/l	0.1	N	<0.1
Napropamide	ug/l	0.1	N	<0.1
Nitrofen	ug/l	0.1	N	<0.1
Nitrothal isopropyl	ug/l	0.1	N	<0.1
Nuarimol	ug/l	0.1	N	<0.1
o,p'-DDT	ug/l	0.1	N	<0.1
o,p-DDD	ug/l	0.1	N	<0.1
o,p-DDE	ug/l	0.1	N	<0.1
Octylisothiazolon	ug/l	0.1	N	<0.1
Ofurace	ug/l	0.1	N	<0.1
Orysastrobin	ug/l	0.1	N	<0.1
Oxadiazon	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Oxadixyl	ug/l	0.1	N	<0.1
Oxyfluorfen	ug/l	0.1	N	<0.1
p,p-DDD	ug/l	0.1	N	<0.1
p,p-DDE	ug/l	0.1	N	<0.1
p,p-DDT	ug/l	0.1	N	<0.1
Paclobutrazol	ug/l	0.1	N	<0.1
Paraoxon	ug/l	0.1	N	<0.1
Parathion	ug/l	0.1	N	<0.1
Parathion methyl	ug/l	0.1	N	<0.1
Penconazole	ug/l	0.1	N	<0.1
Pendimethalin	ug/l	0.1	N	<0.1
Pentachloroaniline	ug/l	0.1	N	<0.1
Pentachlorophenol	ug/l	0.1	N	(278) <0.1
Pentanochlor	ug/l	0.1	N	<0.1
Permethrin	ug/l	0.1	N	<0.1
Pethoxamid	ug/l	0.1	N	<0.1
Phenothrin	ug/l	0.1	N	<0.1
Phenthoate	ug/l	0.1	N	<0.1
Phorate	ug/l	0.1	N	<0.1
Phosalone	ug/l	0.1	N	<0.1
Phosfolan	ug/l	0.1	N	<0.1
Picoxystrobin	ug/l	0.1	N	<0.1
Piperonyl Butoxide	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	<0.1
Pirimiphos Ethyl	ug/l	0.1	N	<0.1
Pirimiphos methyl	ug/l	0.1	N	<0.1
Pretilachlor	ug/l	0.1	N	<0.1
Procymidone	ug/l	0.1	N	<0.1
Profenofos	ug/l	0.1	N	<0.1
Prometon	ug/l	0.1	N	<0.1
Prometryn	ug/l	0.1	N	<0.1
Propachlor	ug/l	0.1	N	<0.1
Propanil	ug/l	0.1	N	<0.1
Propaphos	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	<0.1
Propazine	ug/l	0.1	N	<0.1
Propetamphos	ug/l	0.1	N	<0.1
Propham	ug/l	0.1	N	<0.1

Report Number : 865458 010
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Surface Water
Date Sampled : 17-JUN-2020
Customer Reference : S1
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Propiconazole	ug/l	0.1	N	<0.1
Propyzamide	ug/l	0.1	N	<0.1
Proquinazid	ug/l	0.1	N	<0.1
Prosulfocarb	ug/l	0.1	N	<0.1
Prothiofos	ug/l	0.1	N	<0.1
Pyraclostrobin	ug/l	0.1	N	<0.1
Pyraflufen ethyl	ug/l	0.1	N	<0.1
Pyrazophos	ug/l	0.1	N	<0.1
Pyridaben	ug/l	0.1	N	<0.1
Pyridaphenthion	ug/l	0.1	N	<0.1
Pyrimethanil	ug/l	0.1	N	<0.1
Pyriproxyfen	ug/l	0.1	N	<0.1
Quinalphos	ug/l	0.1	N	<0.1
Quinoxyfen	ug/l	0.1	N	<0.1
Quintozene	ug/l	0.1	N	<0.1
Quizalofop-ethyl	ug/l	0.1	N	<0.1
Secbumeton	ug/l	0.1	N	<0.1
Silafluofen	ug/l	0.1	N	<0.1
Simazine	ug/l	0.1	N	<0.1
Simeconazole	ug/l	0.1	N	<0.1
Sulfallate	ug/l	0.1	N	<0.1
Sulprofos	ug/l	0.1	N	<0.1
Tebuconazole	ug/l	0.1	N	<0.1
Tebufenpyrad	ug/l	0.1	N	<0.1
Tebupirimiphos	ug/l	0.1	N	<0.1
Tecnazene	ug/l	0.1	N	<0.1
Tefluthrin	ug/l	0.1	N	<0.1
Terbacil	ug/l	0.1	N	<0.1
Terbufos	ug/l	0.1	N	<0.1
Terbumeton	ug/l	0.1	N	<0.1
Terbuthylazine	ug/l	0.1	N	<0.1
Terbutryn	ug/l	0.1	N	<0.1
Tetrachlorvinphos	ug/l	0.1	N	<0.1
Tetraconazole	ug/l	0.1	N	<0.1
Tetradifon	ug/l	0.1	N	<0.1
tetraethyl dithiopyrophosphate	ug/l	0.1	N	<0.1
Tetramethrin	ug/l	0.1	N	<0.1
Tetrasul	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Thiamethoxam	ug/l	0.1	N	(278) <0.1
Thiobencarb	ug/l	0.1	N	<0.1
Tolclofos-methyl	ug/l	0.1	N	<0.1
Triadimefon	ug/l	0.1	N	<0.1
Triadimenol	ug/l	0.1	N	<0.1
Triallate	ug/l	0.1	N	<0.1
Triazamate	ug/l	0.1	N	<0.1
Triazophos	ug/l	0.1	N	<0.1
Trifloxystrobin	ug/l	0.1	N	<0.1
Triflumizole	ug/l	0.1	N	(278) <0.1
Trifluralin	ug/l	0.1	N	<0.1
Vinclozolin	ug/l	0.1	N	<0.1
Vinclozolin metabolite 3,5-Dichloroaniline	ug/l	0.1	N	(278) <0.1

Report Number : 865458 010
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Surface Water
Date Sampled : 17-JUN-2020
Customer Reference : S1
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
2-(1-Naphthyl)acetamide	ug/l	0.1	N	<0.1
3-hydroxycarbofuran	ug/l	0.1	N	<0.1
6-Benzyladenine	ug/l	0.1	N	<0.1
Acephate	ug/l	0.1	N	<0.1
Acetamiprid	ug/l	0.1	N	<0.1
Acibenzolar-S-methyl	ug/l	0.1	N	<0.1
Aldicarb	ug/l	0.1	N	<0.1
Aldicarb sulphone	ug/l	0.1	N	<0.1
Aldicarb sulphoxide	ug/l	0.1	N	<0.1
Aminocarb	ug/l	0.1	N	<0.1
Azadirachtin	ug/l	0.1	N	<0.1
Azinphos ethyl	ug/l	0.1	N	<0.1
Azinphos methyl	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Bendiocarb	ug/l	0.1	N	<0.1
Benfuracarb	ug/l	0.1	N	(278) <0.1
Butralin	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbendazim	ug/l	0.1	N	<0.1
Carbetamide	ug/l	0.1	N	<0.1
Carbofuran	ug/l	0.1	N	<0.1
Carbosulfan	ug/l	0.1	N	(278) <0.1
Carpropamid	ug/l	0.1	N	<0.1
Chinomethionat	ug/l	0.1	N	<0.1
Chlorantraniliprole	ug/l	0.1	N	<0.1
Chlorbromuron	ug/l	0.1	N	<0.1
Chlorfluazuron	ug/l	0.1	N	<0.1
Chloridazon	ug/l	0.1	N	<0.1
Chlorotoluron	ug/l	0.1	N	<0.1
Chlorpropham	ug/l	0.1	N	<0.1
Clofentezine	ug/l	0.1	N	<0.1
Clothianidin	ug/l	0.1	N	<0.1
Cyanazine	ug/l	0.1	N	<0.1
Cyazofamid	ug/l	0.1	N	<0.1
Cycluron	ug/l	0.1	N	<0.1
Cymoxanil	ug/l	0.1	N	<0.1
Cythioate	ug/l	0.1	N	<0.1
Demeton	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Demeton-s-methyl	ug/l	0.1	N	<0.1
Demeton-s-methyl sulphone	ug/l	0.1	N	<0.1
Dichlofluanid	ug/l	0.1	N	<0.1
Dicrotophos	ug/l	0.1	N	<0.1
Diethofencarb	ug/l	0.1	N	<0.1
Diflubenzuron	ug/l	0.1	N	<0.1
Dimefuron	ug/l	0.1	N	<0.1
Dimethoate	ug/l	0.1	N	<0.1
Diniconazole	ug/l	0.1	N	<0.1
Dinotefuran	ug/l	0.1	N	<0.1
Dioxacarb	ug/l	0.1	N	(278) <0.1
Disulfoton sulfoxide	ug/l	0.1	N	<0.1
Disulfoton sulphone	ug/l	0.1	N	<0.1
Diuron	ug/l	0.1	N	<0.1
DMSA	ug/l	0.1	N	<0.1
DMST	ug/l	0.1	N	<0.1
Dodemorph	ug/l	0.1	N	<0.1
Dodine	ug/l	0.1	N	(278) <0.1
Emamectin	ug/l	0.1	N	<0.1
Ethidimuron	ug/l	0.1	N	<0.1
Ethiofencarb	ug/l	0.1	N	<0.1
Ethiofencarb sulfone	ug/l	0.1	N	<0.1
Ethiofencarb sulfoxide	ug/l	0.1	N	<0.1
Ethiprole	ug/l	0.1	N	<0.1
Ethirimol	ug/l	0.1	N	<0.1
Fenamiphos sulfone	ug/l	0.1	N	<0.1
Fenamiphos sulfoxide	ug/l	0.1	N	<0.1
Fenazaquin	ug/l	0.1	N	<0.1
Fenchlorphos oxon	ug/l	0.1	N	<0.1
Fenhexamid	ug/l	0.1	N	<0.1
Fenoxycarb	ug/l	0.1	N	<0.1
Fenpropidin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenpyroximate	ug/l	0.1	N	<0.1
Fenthion Sulphone	ug/l	0.1	N	<0.1
Fenthion Sulphoxide	ug/l	0.1	N	<0.1
Fenuron	ug/l	0.1	N	<0.1
Flonicamid	ug/l	0.1	N	<0.1

Report Number : 865458 010
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Surface Water
Date Sampled : 17-JUN-2020
Customer Reference : S1
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Fluazinam	ug/l	0.1	N	<0.1
Flufenoxuron	ug/l	0.1	N	<0.1
Fluometuron	ug/l	0.1	N	<0.1
Fluopicolide	ug/l	0.1	N	<0.1
Fluorochloridone	ug/l	0.1	N	<0.1
Fluoxastrobin	ug/l	0.1	N	<0.1
Flurtamone	ug/l	0.1	N	<0.1
Flutriafol	ug/l	0.1	N	<0.1
Forchlorfenuron	ug/l	0.1	N	<0.1
Fosthiasate	ug/l	0.1	N	<0.1
Fuberidazole	ug/l	0.1	N	<0.1
Furathiocarb	ug/l	0.1	N	<0.1
Hexaflumuron	ug/l	0.1	N	<0.1
Hexythiazox	ug/l	0.1	N	<0.1
Imazalil	ug/l	0.1	N	(278) <0.1
Imibenconazole	ug/l	0.1	N	(278) <0.1
Imidacloprid	**ug/l**	**0.1**	**N**	**0.1**
Indoxacarb	ug/l	0.1	N	<0.1
Iprovalicarb	ug/l	0.1	N	<0.1
Isoprocarb	ug/l	0.1	N	<0.1
Isoproturon	ug/l	0.1	N	<0.1
Isoxaben	ug/l	0.1	N	<0.1
Karbutilate	ug/l	0.1	N	<0.1
Linuron	ug/l	0.1	N	<0.1
Lufenuron	ug/l	0.1	N	<0.1
Malaoxon	ug/l	0.1	N	<0.1
Mandipropamid	ug/l	0.1	N	<0.1
Mefenacet	ug/l	0.1	N	<0.1
Metamitron	ug/l	0.1	N	<0.1
Metconazole	ug/l	0.1	N	<0.1
Methabenzthiazuron	ug/l	0.1	N	<0.1
Methamidophos	ug/l	0.1	N	<0.1
Methiocarb	ug/l	0.1	N	<0.1
Methiocarb Sulfone	ug/l	0.1	N	<0.1
Methiocarb Sulfoxide	ug/l	0.1	N	<0.1
Methomyl	ug/l	0.1	N	<0.1
Methoxyfenozide	ug/l	0.1	N	(278) <0.1
Metobromuron	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Metoxuron	ug/l	0.1	N	<0.1
Monocrotophos	ug/l	0.1	N	<0.1
Monolinuron	ug/l	0.1	N	<0.1
Monuron	ug/l	0.1	N	<0.1
Neburon	ug/l	0.1	N	<0.1
Nicotine	ug/l	0.1	N	<0.1
Nitenpyram	ug/l	0.1	N	<0.1
Novaluron	ug/l	0.1	N	<0.1
Omethoate	ug/l	0.1	N	<0.1
Oxadiargyl	ug/l	0.1	N	<0.1
Oxamyl	ug/l	0.1	N	<0.1
Oxycarboxin	ug/l	0.1	N	<0.1
Oxydemeton-Methyl	ug/l	0.1	N	<0.1
Pencycuron	ug/l	0.1	N	<0.1
Phorate sulfone	ug/l	0.1	N	<0.1
Phorate sulfoxide	ug/l	0.1	N	<0.1
Phosmet	ug/l	0.1	N	<0.1
Phosphamidon	ug/l	0.1	N	<0.1
Phoxim	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	<0.1
Prochloraz	ug/l	0.1	N	<0.1
Promecarb	ug/l	0.1	N	<0.1
Propamocarb	ug/l	0.1	N	(278) <0.1
Propaquizafop	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	<0.1
Propoxur	ug/l	0.1	N	<0.1
Pymetrozine	ug/l	0.1	N	<0.1
Pyrifenox	ug/l	0.1	N	<0.1
Resmethrin	ug/l	0.1	N	<0.1
Rotenone	ug/l	0.1	N	<0.1
Spinosad	ug/l	0.1	N	<0.1
Spirodiclofen	ug/l	0.1	N	<0.1
Spiromesifen	ug/l	0.1	N	<0.1
Spiroxamine	ug/l	0.1	N	<0.1
Tebufenozide	ug/l	0.1	N	<0.1
Teflubenzuron	ug/l	0.1	N	<0.1
Temephos	ug/l	0.1	N	<0.1
Terbufos sulfone	ug/l	0.1	N	<0.1

Report Number : 865458 010
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Surface Water
Date Sampled : 17-JUN-2020
Customer Reference : S1
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Terbufos sulfoxide	ug/l	0.1	N	<0.1
Thiabendazole	ug/l	0.1	N	<0.1
Thiacloprid	ug/l	0.1	N	<0.1
Thiazafluron	ug/l	0.1	N	<0.1
Thiodicarb	ug/l	0.1	N	<0.1
Thiofanox	ug/l	0.1	N	<0.1
Thiophanate Methyl	ug/l	0.1	N	<0.1
Tolylfluanid	ug/l	0.1	N	<0.1
Trichlorfon	ug/l	0.1	N	<0.1
Tridemorph	ug/l	0.1	N	<0.1
Trifloxysulfuron	ug/l	0.1	N	<0.1
Triflumuron	ug/l	0.1	N	<0.1
Triflusulfuron-methyl	ug/l	0.1	N	<0.1
Triticonazole	ug/l	0.1	N	<0.1
Vamidothion	ug/l	0.1	N	<0.1
Vernolate	ug/l	0.1	N	<0.1
Zoxamide	ug/l	0.1	N	<0.1

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Concept Life Sciences

Certificate of Analysis

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Report Number : 865458 011
Date of Issue : 24-Jun-2020

Customer : Pam Brown Associates
Contact : Dr Melissa Morales
Address : 2 Needwood House, Lancaster Park, Newborough Road, Needwood Burton on Trent, DE13 9PD

Samples Received : 18-Jun-2020
Analysis Started : 19-Jun-2020
Concept Job Reference : 865458-1
Analysis Requested : MRPS by GC (CSOPP611), MRPS by LC (CSOPP603)
Variety : Ground Water
Date Sampled : 17-JUN-2020
Customer Reference : BH22
Location : Wheathampstead
Sample Description : Water

Results Summary

Analyte	Level Found	Units	LOD	EU MRL mg/kg	CODEX MRL mg/kg	Symbol
MRPS by GC (CSOPP611)	**No residue detected above the limit of detection.**					
MRPS by LC (CSOPP603)	**No residue detected above the limit of detection.**					

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.
Customers are responsible for information provided where, if incorrect, it could affect the validity of the results.
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 Concept Life Sciences SOPs
All results have been reviewed in accordance with QMSection 15 of the Concept Life Sciences, Analytical Services Quality Manual
All samples prepared in accordance with the CODEX alimentarius

Report checked
and authorised by :
Matt Line
Section Manager - Pesticides

Issued by :
Naomi Woodward
Customer Service Advisor

Index to symbols used in this report

Value	Description
278	Data reported is qualitative as recovery is outside the 60 to 140% range
5	Results are Semiquantitative
N	Analysis is not UKAS accredited

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Client : Pam Brown Associates
Samples Received : 18-Jun-2020
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MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
2,4,6-Trichlorophenol	ug/l	0.1	N	<0.1
2-Phenylphenol	ug/l	0.1	N	<0.1
Acetochlor	ug/l	0.1	N	<0.1
Aclonifen	ug/l	0.1	N	<0.1
Acrinathrin	ug/l	0.1	N	(278) <0.1
Alachlor	ug/l	0.1	N	<0.1
Aldrin	ug/l	0.1	N	<0.1
Ametryn	ug/l	0.1	N	<0.1
Atraton	ug/l	0.1	N	<0.1
Atrazine	ug/l	0.1	N	<0.1
Azaconazole	ug/l	0.1	N	(278) <0.1
Azobenzene	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Benalaxyl	ug/l	0.1	N	<0.1
Benfluralin	ug/l	0.1	N	<0.1
Bifenox	ug/l	0.1	N	(278) <0.1
Bifenthrin	ug/l	0.1	N	<0.1
Binapacryl	ug/l	0.1	N	(278) <0.1
Biphenyl	ug/l	0.1	N	(278) <0.1
Bitertanol	ug/l	0.1	N	<0.1
Boscalid	ug/l	0.1	N	<0.1
Bromacil	ug/l	0.1	N	<0.1
Bromophos	ug/l	0.1	N	<0.1
Bromophos-Ethyl	ug/l	0.1	N	<0.1
Bromopropylate	ug/l	0.1	N	<0.1
Bupirimate	ug/l	0.1	N	<0.1
Buprofezine	ug/l	0.1	N	<0.1
Butachlor	ug/l	0.1	N	<0.1
Cadusafos	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbophenothion	ug/l	0.1	N	<0.1
Carboxine	ug/l	0.1	N	<0.1
Carfentrazone Ethyl	ug/l	0.1	N	<0.1
Chlorobenzilate	ug/l	0.1	N	(278) <0.1
Chlordane (sum of cis and trans isomers)	ug/l	0.1	N	<0.1
Chlordimeform	ug/l	0.1	N	(278) <0.1
Chlorethoxyfos	ug/l	0.1	N	<0.1
Chlorfenapyr	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Chlorfenvinphos	ug/l	0.1	N	<0.1
Chlormephos	ug/l	0.1	N	<0.1
Chloropropylate	ug/l	0.1	N	<0.1
Chlorothalonil	ug/l	0.1	N	<0.1
Chlorpropham	ug/l	0.1	N	<0.1
Chlorpyrifos	ug/l	0.1	N	<0.1
Chlorpyrifos methyl	ug/l	0.1	N	<0.1
Chlorthal Dimethyl	ug/l	0.1	N	<0.1
Chlorthion	ug/l	0.1	N	<0.1
Chlorthiophos	ug/l	0.1	N	<0.1
Chlozolinate	ug/l	0.1	N	<0.1
Clodinafop Propargyl	ug/l	0.1	N	<0.1
Clomazone	ug/l	0.1	N	<0.1
Cloquintocet mexyl	ug/l	0.1	N	<0.1
Coumaphos	ug/l	0.1	N	<0.1
Cyflufenamid	ug/l	0.1	N	<0.1
Cyfluthrin	ug/l	0.1	N	<0.1
Cypermethrin	ug/l	0.1	N	<0.1
Cyphenothrin	ug/l	0.1	N	<0.1
Cyproconazole	ug/l	0.1	N	<0.1
Cyprodinil	ug/l	0.1	N	<0.1
Deltamethrin	ug/l	0.1	N	<0.1
Desmetryn	ug/l	0.1	N	<0.1
Diafenthiuron	ug/l	0.1	N	<0.1
Dialifos	ug/l	0.1	N	<0.1
Diazinon	ug/l	0.1	N	<0.1
Dichlobenil	ug/l	0.1	N	<0.1
Dichlofenthion	ug/l	0.1	N	<0.1
Dichlorvos	ug/l	0.1	N	<0.1
Diclobutrazol	ug/l	0.1	N	<0.1
Dicloran	ug/l	0.1	N	<0.1
Dicofol	ug/l	0.1	N	(278) <0.1
Dieldrin	ug/l	0.1	N	<0.1
Difenoconazole	ug/l	0.1	N	<0.1
Diflufenican	ug/l	0.1	N	<0.1
Dimethenamid	ug/l	0.1	N	<0.1
Dimethomorph	ug/l	0.1	N	<0.1
Dimoxystrobin	ug/l	0.1	N	<0.1

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Location : Wheathampstead
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MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Dioxabenzofos	ug/l	0.1	N	(278) <0.1
Diphenamid	ug/l	0.1	N	<0.1
Diphenylamine	ug/l	0.1	N	<0.1
Disulfoton	ug/l	0.1	N	<0.1
Ditalimfos	ug/l	0.1	N	<0.1
Edifenphos	ug/l	0.1	N	<0.1
Endosulphan alpha	ug/l	0.1	N	<0.1
Endosulphan beta	ug/l	0.1	N	<0.1
Endosulphan sulphate	ug/l	0.1	N	<0.1
Endrin	ug/l	0.1	N	<0.1
EPN	ug/l	0.1	N	(278) <0.1
Epoxiconazole	ug/l	0.1	N	<0.1
EPTC	ug/l	0.1	N	<0.1
Etaconazole	ug/l	0.1	N	<0.1
Ethion	ug/l	0.1	N	<0.1
Ethofumesate	ug/l	0.1	N	<0.1
Ethoprophos	ug/l	0.1	N	<0.1
Ethoxyquin	ug/l	0.1	N	(278) <0.1
Etofenprox	ug/l	0.1	N	<0.1
Etoxazole	ug/l	0.1	N	<0.1
Etridiazole	ug/l	0.1	N	<0.1
Etrimfos	ug/l	0.1	N	<0.1
Famoxadone	ug/l	0.1	N	<0.1
Famphur	ug/l	0.1	N	<0.1
Fenamidone	ug/l	0.1	N	<0.1
Fenamiphos	ug/l	0.1	N	<0.1
Fenarimol	ug/l	0.1	N	<0.1
Fenbuconazole	ug/l	0.1	N	<0.1
Fenchlorphos	ug/l	0.1	N	<0.1
Fenitrothion	ug/l	0.1	N	<0.1
Fenpiclonil	ug/l	0.1	N	<0.1
Fenpropathrin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenson	ug/l	0.1	N	<0.1
Fensulfothion	ug/l	0.1	N	<0.1
Fenthion	ug/l	0.1	N	<0.1
Fenvalerate	ug/l	0.1	N	<0.1
Fipronil	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Fipronil sulphone	ug/l	0.1	N	<0.1
Flamprop isopropyl	ug/l	0.1	N	<0.1
Fluazifop-P-Butyl	ug/l	0.1	N	<0.1
Flucythrinate	ug/l	0.1	N	<0.1
Fludioxonil	ug/l	0.1	N	<0.1
Flufenacet	ug/l	0.1	N	<0.1
Flumetralin	ug/l	0.1	N	<0.1
Flumioxazin	ug/l	0.1	N	<0.1
Flumorph	ug/l	0.1	N	<0.1
Fluopyram	ug/l	0.1	N	<0.1
Fluquinconazole	ug/l	0.1	N	<0.1
Fluroxypyr-1-methylheptyl ester	ug/l	0.1	N	<0.1
Flusilazole	ug/l	0.1	N	<0.1
Flutolanil	ug/l	0.1	N	<0.1
Fluxapyroxad	ug/l	0.1	N	<0.1
Fonophos	ug/l	0.1	N	<0.1
Formothion	ug/l	0.1	N	<0.1
Furalaxyl	ug/l	0.1	N	<0.1
Haloxyfop etotyl	ug/l	0.1	N	<0.1
Haloxyfop Methyl	ug/l	0.1	N	<0.1
Heptachlor	ug/l	0.1	N	<0.1
Heptachlor epoxide	ug/l	0.1	N	<0.1
Heptachlor exo Epoxide	ug/l	0.1	N	<0.1
Heptenophos	ug/l	0.1	N	<0.1
Hexachlorobenzene	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (alpha)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (beta)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (delta)	ug/l	0.1	N	<0.1
Hexaconazole	ug/l	0.1	N	<0.1
Hexazinone	ug/l	0.1	N	<0.1
Iodofenphos	ug/l	0.1	N	<0.1
Iprodione	ug/l	0.1	N	<0.1
Isazofos	ug/l	0.1	N	<0.1
Isocarbophos	ug/l	0.1	N	<0.1
Isodrin	ug/l	0.1	N	<0.1
Isofenphos	ug/l	0.1	N	<0.1
Isofenphos Methyl	ug/l	0.1	N	<0.1
Isomethiozin	ug/l	0.1	N	<0.1

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MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Isoprothiolane	ug/l	0.1	N	<0.1
Isopyrazam	ug/l	0.1	N	<0.1
Kresoxim Methyl	ug/l	0.1	N	<0.1
Lambda Cyhalothrin	ug/l	0.1	N	<0.1
Lenacil	ug/l	0.1	N	<0.1
Leptophos	ug/l	0.1	N	<0.1
Lindane	ug/l	0.1	N	<0.1
Malathion	ug/l	0.1	N	<0.1
MCPA-thioethyl	ug/l	0.1	N	<0.1
Mecarbam	ug/l	0.1	N	<0.1
Mepanipyrim	ug/l	0.1	N	<0.1
Mephosfolan	ug/l	0.1	N	<0.1
Mepronil	ug/l	0.1	N	<0.1
Metalaxyl	ug/l	0.1	N	<0.1
Metazachlor	ug/l	0.1	N	<0.1
Methacrifos	ug/l	0.1	N	<0.1
Methidathion	ug/l	0.1	N	<0.1
Methoxychlor	ug/l	0.1	N	<0.1
Methyl Paraoxon	ug/l	0.1	N	(278) <0.1
Metolachlor	ug/l	0.1	N	<0.1
Metolcarb	ug/l	0.1	N	<0.1
Metrafenone	ug/l	0.1	N	<0.1
Metribuzin	ug/l	0.1	N	<0.1
Mevinphos	ug/l	0.1	N	<0.1
Mirex	ug/l	0.1	N	<0.1
Molinate	ug/l	0.1	N	<0.1
Myclobutanil	ug/l	0.1	N	<0.1
Napropamide	ug/l	0.1	N	<0.1
Nitrofen	ug/l	0.1	N	<0.1
Nitrothal isopropyl	ug/l	0.1	N	<0.1
Nuarimol	ug/l	0.1	N	<0.1
o,p'-DDT	ug/l	0.1	N	<0.1
o,p-DDD	ug/l	0.1	N	<0.1
o,p-DDE	ug/l	0.1	N	<0.1
Octylisothiazolon	ug/l	0.1	N	<0.1
Ofurace	ug/l	0.1	N	<0.1
Orysastrobin	ug/l	0.1	N	<0.1
Oxadiazon	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Oxadixyl	ug/l	0.1	N	<0.1
Oxyfluorfen	ug/l	0.1	N	<0.1
p,p-DDD	ug/l	0.1	N	<0.1
p,p-DDE	ug/l	0.1	N	<0.1
p,p-DDT	ug/l	0.1	N	<0.1
Paclobutrazol	ug/l	0.1	N	<0.1
Paraoxon	ug/l	0.1	N	<0.1
Parathion	ug/l	0.1	N	<0.1
Parathion methyl	ug/l	0.1	N	<0.1
Penconazole	ug/l	0.1	N	<0.1
Pendimethalin	ug/l	0.1	N	<0.1
Pentachloroaniline	ug/l	0.1	N	<0.1
Pentachlorophenol	ug/l	0.1	N	(278) <0.1
Pentanochlor	ug/l	0.1	N	<0.1
Permethrin	ug/l	0.1	N	<0.1
Pethoxamid	ug/l	0.1	N	<0.1
Phenothrin	ug/l	0.1	N	<0.1
Phenthoate	ug/l	0.1	N	<0.1
Phorate	ug/l	0.1	N	<0.1
Phosalone	ug/l	0.1	N	<0.1
Phosfolan	ug/l	0.1	N	<0.1
Picoxystrobin	ug/l	0.1	N	<0.1
Piperonyl Butoxide	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	<0.1
Pirimiphos Ethyl	ug/l	0.1	N	<0.1
Pirimiphos methyl	ug/l	0.1	N	<0.1
Pretilachlor	ug/l	0.1	N	<0.1
Procymidone	ug/l	0.1	N	<0.1
Profenofos	ug/l	0.1	N	<0.1
Prometon	ug/l	0.1	N	<0.1
Prometryn	ug/l	0.1	N	<0.1
Propachlor	ug/l	0.1	N	<0.1
Propanil	ug/l	0.1	N	<0.1
Propaphos	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	<0.1
Propazine	ug/l	0.1	N	<0.1
Propetamphos	ug/l	0.1	N	<0.1
Propham	ug/l	0.1	N	<0.1

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MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Propiconazole	ug/l	0.1	N	<0.1
Propyzamide	ug/l	0.1	N	<0.1
Proquinazid	ug/l	0.1	N	<0.1
Prosulfocarb	ug/l	0.1	N	<0.1
Prothiofos	ug/l	0.1	N	<0.1
Pyraclostrobin	ug/l	0.1	N	<0.1
Pyraflufen ethyl	ug/l	0.1	N	<0.1
Pyrazophos	ug/l	0.1	N	<0.1
Pyridaben	ug/l	0.1	N	<0.1
Pyridaphenthion	ug/l	0.1	N	<0.1
Pyrimethanil	ug/l	0.1	N	<0.1
Pyriproxyfen	ug/l	0.1	N	<0.1
Quinalphos	ug/l	0.1	N	<0.1
Quinoxyfen	ug/l	0.1	N	<0.1
Quintozene	ug/l	0.1	N	<0.1
Quizalofop-ethyl	ug/l	0.1	N	<0.1
Secbumeton	ug/l	0.1	N	<0.1
Silafluofen	ug/l	0.1	N	<0.1
Simazine	ug/l	0.1	N	<0.1
Simeconazole	ug/l	0.1	N	<0.1
Sulfallate	ug/l	0.1	N	<0.1
Sulprofos	ug/l	0.1	N	<0.1
Tebuconazole	ug/l	0.1	N	<0.1
Tebufenpyrad	ug/l	0.1	N	<0.1
Tebupirimiphos	ug/l	0.1	N	<0.1
Tecnazene	ug/l	0.1	N	<0.1
Tefluthrin	ug/l	0.1	N	<0.1
Terbacil	ug/l	0.1	N	<0.1
Terbufos	ug/l	0.1	N	<0.1
Terbumeton	ug/l	0.1	N	<0.1
Terbuthylazine	ug/l	0.1	N	<0.1
Terbutryn	ug/l	0.1	N	<0.1
Tetrachlorvinphos	ug/l	0.1	N	<0.1
Tetraconazole	ug/l	0.1	N	<0.1
Tetradifon	ug/l	0.1	N	<0.1
tetraethyl dithiopyrophosphate	ug/l	0.1	N	<0.1
Tetramethrin	ug/l	0.1	N	<0.1
Tetrasul	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Thiamethoxam	ug/l	0.1	N	(278) <0.1
Thiobencarb	ug/l	0.1	N	<0.1
Tolclofos-methyl	ug/l	0.1	N	<0.1
Triadimefon	ug/l	0.1	N	<0.1
Triadimenol	ug/l	0.1	N	<0.1
Triallate	ug/l	0.1	N	<0.1
Triazamate	ug/l	0.1	N	<0.1
Triazophos	ug/l	0.1	N	<0.1
Trifloxystrobin	ug/l	0.1	N	<0.1
Triflumizole	ug/l	0.1	N	(278) <0.1
Trifluralin	ug/l	0.1	N	<0.1
Vinclozolin	ug/l	0.1	N	<0.1
Vinclozolin metabolite 3,5-Dichloroaniline	ug/l	0.1	N	(278) <0.1

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MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
2-(1-Naphthyl)acetamide	ug/l	0.1	N	<0.1
3-hydroxycarbofuran	ug/l	0.1	N	<0.1
6-Benzyladenine	ug/l	0.1	N	<0.1
Acephate	ug/l	0.1	N	<0.1
Acetamiprid	ug/l	0.1	N	<0.1
Acibenzolar-S-methyl	ug/l	0.1	N	<0.1
Aldicarb	ug/l	0.1	N	<0.1
Aldicarb sulphone	ug/l	0.1	N	<0.1
Aldicarb sulphoxide	ug/l	0.1	N	<0.1
Aminocarb	ug/l	0.1	N	<0.1
Azadirachtin	ug/l	0.1	N	<0.1
Azinphos ethyl	ug/l	0.1	N	<0.1
Azinphos methyl	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Bendiocarb	ug/l	0.1	N	<0.1
Benfuracarb	ug/l	0.1	N	(278) <0.1
Butralin	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbendazim	ug/l	0.1	N	<0.1
Carbetamide	ug/l	0.1	N	<0.1
Carbofuran	ug/l	0.1	N	<0.1
Carbosulfan	ug/l	0.1	N	(278) <0.1
Carpropamid	ug/l	0.1	N	<0.1
Chinomethionat	ug/l	0.1	N	<0.1
Chlorantraniliprole	ug/l	0.1	N	<0.1
Chlorbromuron	ug/l	0.1	N	<0.1
Chlorfluazuron	ug/l	0.1	N	<0.1
Chloridazon	ug/l	0.1	N	<0.1
Chlorotoluron	ug/l	0.1	N	<0.1
Chlorpropham	ug/l	0.1	N	<0.1
Clofentezine	ug/l	0.1	N	<0.1
Clothianidin	ug/l	0.1	N	<0.1
Cyanazine	ug/l	0.1	N	<0.1
Cyazofamid	ug/l	0.1	N	<0.1
Cycluron	ug/l	0.1	N	<0.1
Cymoxanil	ug/l	0.1	N	<0.1
Cythioate	ug/l	0.1	N	<0.1
Demeton	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Demeton-s-methyl	ug/l	0.1	N	<0.1
Demeton-s-methyl sulphone	ug/l	0.1	N	<0.1
Dichlofluanid	ug/l	0.1	N	<0.1
Dicrotophos	ug/l	0.1	N	<0.1
Diethofencarb	ug/l	0.1	N	<0.1
Diflubenzuron	ug/l	0.1	N	<0.1
Dimefuron	ug/l	0.1	N	<0.1
Dimethoate	ug/l	0.1	N	<0.1
Diniconazole	ug/l	0.1	N	<0.1
Dinotefuran	ug/l	0.1	N	<0.1
Dioxacarb	ug/l	0.1	N	(278) <0.1
Disulfoton sulfoxide	ug/l	0.1	N	<0.1
Disulfoton sulphone	ug/l	0.1	N	<0.1
Diuron	ug/l	0.1	N	<0.1
DMSA	ug/l	0.1	N	<0.1
DMST	ug/l	0.1	N	<0.1
Dodemorph	ug/l	0.1	N	<0.1
Dodine	ug/l	0.1	N	(278) <0.1
Emamectin	ug/l	0.1	N	<0.1
Ethidimuron	ug/l	0.1	N	<0.1
Ethiofencarb	ug/l	0.1	N	<0.1
Ethiofencarb sulfone	ug/l	0.1	N	<0.1
Ethiofencarb sulfoxide	ug/l	0.1	N	<0.1
Ethiprole	ug/l	0.1	N	<0.1
Ethirimol	ug/l	0.1	N	<0.1
Fenamiphos sulfone	ug/l	0.1	N	<0.1
Fenamiphos sulfoxide	ug/l	0.1	N	<0.1
Fenazaquin	ug/l	0.1	N	<0.1
Fenchlorphos oxon	ug/l	0.1	N	<0.1
Fenhexamid	ug/l	0.1	N	<0.1
Fenoxycarb	ug/l	0.1	N	<0.1
Fenpropidin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenpyroximate	ug/l	0.1	N	<0.1
Fenthion Sulphone	ug/l	0.1	N	<0.1
Fenthion Sulphoxide	ug/l	0.1	N	<0.1
Fenuron	ug/l	0.1	N	<0.1
Flonicamid	ug/l	0.1	N	<0.1

Report Number : 865458 011
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Ground Water
Date Sampled : 17-JUN-2020
Customer Reference : BH22
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Fluazinam	ug/l	0.1	N	<0.1
Flufenoxuron	ug/l	0.1	N	<0.1
Fluometuron	ug/l	0.1	N	<0.1
Fluopicolide	ug/l	0.1	N	<0.1
Fluorochloridone	ug/l	0.1	N	<0.1
Fluoxastrobin	ug/l	0.1	N	<0.1
Flurtamone	ug/l	0.1	N	<0.1
Flutriafol	ug/l	0.1	N	<0.1
Forchlorfenuron	ug/l	0.1	N	<0.1
Fosthiasate	ug/l	0.1	N	<0.1
Fuberidazole	ug/l	0.1	N	<0.1
Furathiocarb	ug/l	0.1	N	<0.1
Hexaflumuron	ug/l	0.1	N	<0.1
Hexythiazox	ug/l	0.1	N	<0.1
Imazalil	ug/l	0.1	N	(278) <0.1
Imibenconazole	ug/l	0.1	N	(278) <0.1
Imidacloprid	ug/l	0.1	N	<0.1
Indoxacarb	ug/l	0.1	N	<0.1
Iprovalicarb	ug/l	0.1	N	<0.1
Isoprocarb	ug/l	0.1	N	<0.1
Isoproturon	ug/l	0.1	N	<0.1
Isoxaben	ug/l	0.1	N	<0.1
Karbutilate	ug/l	0.1	N	<0.1
Linuron	ug/l	0.1	N	<0.1
Lufenuron	ug/l	0.1	N	<0.1
Malaoxon	ug/l	0.1	N	<0.1
Mandipropamid	ug/l	0.1	N	<0.1
Mefenacet	ug/l	0.1	N	<0.1
Metamitron	ug/l	0.1	N	<0.1
Metconazole	ug/l	0.1	N	<0.1
Methabenzthiazuron	ug/l	0.1	N	<0.1
Methamidophos	ug/l	0.1	N	<0.1
Methiocarb	ug/l	0.1	N	<0.1
Methiocarb Sulfone	ug/l	0.1	N	<0.1
Methiocarb Sulfoxide	ug/l	0.1	N	<0.1
Methomyl	ug/l	0.1	N	<0.1
Methoxyfenozide	ug/l	0.1	N	(278) <0.1
Metobromuron	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Metoxuron	ug/l	0.1	N	<0.1
Monocrotophos	ug/l	0.1	N	<0.1
Monolinuron	ug/l	0.1	N	<0.1
Monuron	ug/l	0.1	N	<0.1
Neburon	ug/l	0.1	N	<0.1
Nicotine	ug/l	0.1	N	<0.1
Nitenpyram	ug/l	0.1	N	<0.1
Novaluron	ug/l	0.1	N	<0.1
Omethoate	ug/l	0.1	N	<0.1
Oxadiargyl	ug/l	0.1	N	<0.1
Oxamyl	ug/l	0.1	N	<0.1
Oxycarboxin	ug/l	0.1	N	<0.1
Oxydemeton-Methyl	ug/l	0.1	N	<0.1
Pencycuron	ug/l	0.1	N	<0.1
Phorate sulfone	ug/l	0.1	N	<0.1
Phorate sulfoxide	ug/l	0.1	N	<0.1
Phosmet	ug/l	0.1	N	<0.1
Phosphamidon	ug/l	0.1	N	<0.1
Phoxim	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	<0.1
Prochloraz	ug/l	0.1	N	<0.1
Promecarb	ug/l	0.1	N	<0.1
Propamocarb	ug/l	0.1	N	(278) <0.1
Propaquizafop	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	<0.1
Propoxur	ug/l	0.1	N	<0.1
Pymetrozine	ug/l	0.1	N	<0.1
Pyrifenox	ug/l	0.1	N	<0.1
Resmethrin	ug/l	0.1	N	<0.1
Rotenone	ug/l	0.1	N	<0.1
Spinosad	ug/l	0.1	N	<0.1
Spirodiclofen	ug/l	0.1	N	<0.1
Spiromesifen	ug/l	0.1	N	<0.1
Spiroxamine	ug/l	0.1	N	<0.1
Tebufenozide	ug/l	0.1	N	<0.1
Teflubenzuron	ug/l	0.1	N	<0.1
Temephos	ug/l	0.1	N	<0.1
Terbufos sulfone	ug/l	0.1	N	<0.1

Report Number : 865458 011
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Ground Water
Date Sampled : 17-JUN-2020
Customer Reference : BH22
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Terbufos sulfoxide	ug/l	0.1	N	<0.1
Thiabendazole	ug/l	0.1	N	<0.1
Thiacloprid	ug/l	0.1	N	<0.1
Thiazafluron	ug/l	0.1	N	<0.1
Thiodicarb	ug/l	0.1	N	<0.1
Thiofanox	ug/l	0.1	N	<0.1
Thiophanate Methyl	ug/l	0.1	N	<0.1
Tolylfluanid	ug/l	0.1	N	<0.1
Trichlorfon	ug/l	0.1	N	<0.1
Tridemorph	ug/l	0.1	N	<0.1
Trifloxysulfuron	ug/l	0.1	N	<0.1
Triflumuron	ug/l	0.1	N	<0.1
Triflusulfuron-methyl	ug/l	0.1	N	<0.1
Triticonazole	ug/l	0.1	N	<0.1
Vamidothion	ug/l	0.1	N	<0.1
Vernolate	ug/l	0.1	N	<0.1
Zoxamide	ug/l	0.1	N	<0.1

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Certificate of Analysis

Unit 2
The Links
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CB23 8UD
Tel : 01954 782791
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Report Number : 865458 012
Date of Issue : 24-Jun-2020

Customer : Pam Brown Associates
Contact : Dr Melissa Morales
Address : 2 Needwood House, Lancaster Park, Newborough Road, Needwood Burton on Trent, DE13 9PD

Samples Received : 18-Jun-2020
Analysis Started : 19-Jun-2020
Concept Job Reference : 865458-1
Analysis Requested : MRPS by GC (CSOPP611), MRPS by LC (CSOPP603)
Variety : Surface Water
Date Sampled : 17-JUN-2020
Customer Reference : S2
Location : Wheathampstead
Sample Description : Water

Results Summary

Analyte	Level Found	Units	LOD	EU MRL mg/kg	CODEX MRL mg/kg	Symbol
MRPS by GC (CSOPP611)	**No residue detected above the limit of detection.**					
MRPS by LC (CSOPP603)						
Imidacloprid	**0.1**	ug/l	0.1			N

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.
Customers are responsible for information provided where, if incorrect, it could affect the validity of the results.
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 Concept Life Sciences SOPs
All results have been reviewed in accordance with QMSection 15 of the Concept Life Sciences, Analytical Services Quality Manual
All samples prepared in accordance with the CODEX alimentarius

Report checked
and authorised by :
Matt Line
Section Manager - Pesticides

Issued by :
Naomi Woodward
Customer Service Advisor

Index to symbols used in this report

Value	Description
278	Data reported is qualitative as recovery is outside the 60 to 140% range
5	Results are Semiquantitative
N	Analysis is not UKAS accredited

Report Number : 865458 012
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Surface Water
Date Sampled : 17-JUN-2020
Customer Reference : S2
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
2,4,6-Trichlorophenol	ug/l	0.1	N	<0.1
2-Phenylphenol	ug/l	0.1	N	<0.1
Acetochlor	ug/l	0.1	N	<0.1
Aclonifen	ug/l	0.1	N	<0.1
Acrinathrin	ug/l	0.1	N	(278) <0.1
Alachlor	ug/l	0.1	N	<0.1
Aldrin	ug/l	0.1	N	<0.1
Ametryn	ug/l	0.1	N	<0.1
Atraton	ug/l	0.1	N	<0.1
Atrazine	ug/l	0.1	N	<0.1
Azaconazole	ug/l	0.1	N	(278) <0.1
Azobenzene	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Benalaxyl	ug/l	0.1	N	<0.1
Benfluralin	ug/l	0.1	N	<0.1
Bifenox	ug/l	0.1	N	(278) <0.1
Bifenthrin	ug/l	0.1	N	<0.1
Binapacryl	ug/l	0.1	N	(278) <0.1
Biphenyl	ug/l	0.1	N	(278) <0.1
Bitertanol	ug/l	0.1	N	<0.1
Boscalid	ug/l	0.1	N	<0.1
Bromacil	ug/l	0.1	N	<0.1
Bromophos	ug/l	0.1	N	<0.1
Bromophos-Ethyl	ug/l	0.1	N	<0.1
Bromopropylate	ug/l	0.1	N	<0.1
Bupirimate	ug/l	0.1	N	<0.1
Buprofezine	ug/l	0.1	N	<0.1
Butachlor	ug/l	0.1	N	<0.1
Cadusafos	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbophenothion	ug/l	0.1	N	<0.1
Carboxine	ug/l	0.1	N	<0.1
Carfentrazone Ethyl	ug/l	0.1	N	<0.1
Chlorobenzilate	ug/l	0.1	N	(278) <0.1
Chlordane (sum of cis and trans isomers)	ug/l	0.1	N	<0.1
Chlordimeform	ug/l	0.1	N	(278) <0.1
Chlorethoxyfos	ug/l	0.1	N	<0.1
Chlorfenapyr	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Chlorfenvinphos	ug/l	0.1	N	<0.1
Chlormephos	ug/l	0.1	N	<0.1
Chloropropylate	ug/l	0.1	N	<0.1
Chlorothalonil	ug/l	0.1	N	<0.1
Chlorpropham	ug/l	0.1	N	<0.1
Chlorpyrifos	ug/l	0.1	N	<0.1
Chlorpyrifos methyl	ug/l	0.1	N	<0.1
Chlorthal Dimethyl	ug/l	0.1	N	<0.1
Chlorthion	ug/l	0.1	N	<0.1
Chlorthiophos	ug/l	0.1	N	<0.1
Chlozolinate	ug/l	0.1	N	<0.1
Clodinafop Propargyl	ug/l	0.1	N	<0.1
Clomazone	ug/l	0.1	N	<0.1
Cloquintocet mexyl	ug/l	0.1	N	<0.1
Coumaphos	ug/l	0.1	N	<0.1
Cyflufenamid	ug/l	0.1	N	<0.1
Cyfluthrin	ug/l	0.1	N	<0.1
Cypermethrin	ug/l	0.1	N	<0.1
Cyphenothrin	ug/l	0.1	N	<0.1
Cyproconazole	ug/l	0.1	N	<0.1
Cyprodinil	ug/l	0.1	N	<0.1
Deltamethrin	ug/l	0.1	N	<0.1
Desmetryn	ug/l	0.1	N	<0.1
Diafenthiuron	ug/l	0.1	N	<0.1
Dialifos	ug/l	0.1	N	<0.1
Diazinon	ug/l	0.1	N	<0.1
Dichlobenil	ug/l	0.1	N	<0.1
Dichlofenthion	ug/l	0.1	N	<0.1
Dichlorvos	ug/l	0.1	N	<0.1
Diclobutrazol	ug/l	0.1	N	<0.1
Dicloran	ug/l	0.1	N	<0.1
Dicofol	ug/l	0.1	N	(278) <0.1
Dieldrin	ug/l	0.1	N	<0.1
Difenoconazole	ug/l	0.1	N	<0.1
Diflufenican	ug/l	0.1	N	<0.1
Dimethenamid	ug/l	0.1	N	<0.1
Dimethomorph	ug/l	0.1	N	<0.1
Dimoxystrobin	ug/l	0.1	N	<0.1

Report Number : 865458 012
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Surface Water
Date Sampled : 17-JUN-2020
Customer Reference : S2
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Dioxabenzofos	ug/l	0.1	N	(278) <0.1
Diphenamid	ug/l	0.1	N	<0.1
Diphenylamine	ug/l	0.1	N	<0.1
Disulfoton	ug/l	0.1	N	<0.1
Ditalimfos	ug/l	0.1	N	<0.1
Edifenphos	ug/l	0.1	N	<0.1
Endosulphan alpha	ug/l	0.1	N	<0.1
Endosulphan beta	ug/l	0.1	N	<0.1
Endosulphan sulphate	ug/l	0.1	N	<0.1
Endrin	ug/l	0.1	N	<0.1
EPN	ug/l	0.1	N	(278) <0.1
Epoxiconazole	ug/l	0.1	N	<0.1
EPTC	ug/l	0.1	N	<0.1
Etaconazole	ug/l	0.1	N	<0.1
Ethion	ug/l	0.1	N	<0.1
Ethofumesate	ug/l	0.1	N	<0.1
Ethoprophos	ug/l	0.1	N	<0.1
Ethoxyquin	ug/l	0.1	N	(278) <0.1
Etofenprox	ug/l	0.1	N	<0.1
Etoxazole	ug/l	0.1	N	<0.1
Etridiazole	ug/l	0.1	N	<0.1
Etrimfos	ug/l	0.1	N	<0.1
Famoxadone	ug/l	0.1	N	<0.1
Famphur	ug/l	0.1	N	<0.1
Fenamidone	ug/l	0.1	N	<0.1
Fenamiphos	ug/l	0.1	N	<0.1
Fenarimol	ug/l	0.1	N	<0.1
Fenbuconazole	ug/l	0.1	N	<0.1
Fenchlorphos	ug/l	0.1	N	<0.1
Fenitrothion	ug/l	0.1	N	<0.1
Fenpiclonil	ug/l	0.1	N	<0.1
Fenpropathrin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenson	ug/l	0.1	N	<0.1
Fensulfothion	ug/l	0.1	N	<0.1
Fenthion	ug/l	0.1	N	<0.1
Fenvalerate	ug/l	0.1	N	<0.1
Fipronil	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Fipronil sulphone	ug/l	0.1	N	<0.1
Flamprop isopropyl	ug/l	0.1	N	<0.1
Fluazifop-P-Butyl	ug/l	0.1	N	<0.1
Flucythrinate	ug/l	0.1	N	<0.1
Fludioxonil	ug/l	0.1	N	<0.1
Flufenacet	ug/l	0.1	N	<0.1
Flumetralin	ug/l	0.1	N	<0.1
Flumioxazin	ug/l	0.1	N	<0.1
Flumorph	ug/l	0.1	N	<0.1
Fluopyram	ug/l	0.1	N	<0.1
Fluquinconazole	ug/l	0.1	N	<0.1
Fluroxypyr-1-methylheptyl ester	ug/l	0.1	N	<0.1
Flusilazole	ug/l	0.1	N	<0.1
Flutolanil	ug/l	0.1	N	<0.1
Fluxapyroxad	ug/l	0.1	N	<0.1
Fonophos	ug/l	0.1	N	<0.1
Formothion	ug/l	0.1	N	<0.1
Furalaxyl	ug/l	0.1	N	<0.1
Haloxyfop etotyl	ug/l	0.1	N	<0.1
Haloxyfop Methyl	ug/l	0.1	N	<0.1
Heptachlor	ug/l	0.1	N	<0.1
Heptachlor epoxide	ug/l	0.1	N	<0.1
Heptachlor exo Epoxide	ug/l	0.1	N	<0.1
Heptenophos	ug/l	0.1	N	<0.1
Hexachlorobenzene	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (alpha)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (beta)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (delta)	ug/l	0.1	N	<0.1
Hexaconazole	ug/l	0.1	N	<0.1
Hexazinone	ug/l	0.1	N	<0.1
Iodofenphos	ug/l	0.1	N	<0.1
Iprodione	ug/l	0.1	N	<0.1
Isazofos	ug/l	0.1	N	<0.1
Isocarbophos	ug/l	0.1	N	<0.1
Isodrin	ug/l	0.1	N	<0.1
Isofenphos	ug/l	0.1	N	<0.1
Isofenphos Methyl	ug/l	0.1	N	<0.1
Isomethiozin	ug/l	0.1	N	<0.1

Report Number : 865458 012
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Surface Water
Date Sampled : 17-JUN-2020
Customer Reference : S2
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Isoprothiolane	ug/l	0.1	N	<0.1
Isopyrazam	ug/l	0.1	N	<0.1
Kresoxim Methyl	ug/l	0.1	N	<0.1
Lambda Cyhalothrin	ug/l	0.1	N	<0.1
Lenacil	ug/l	0.1	N	<0.1
Leptophos	ug/l	0.1	N	<0.1
Lindane	ug/l	0.1	N	<0.1
Malathion	ug/l	0.1	N	<0.1
MCPA-thioethyl	ug/l	0.1	N	<0.1
Mecarbam	ug/l	0.1	N	<0.1
Mepanipyrim	ug/l	0.1	N	<0.1
Mephosfolan	ug/l	0.1	N	<0.1
Mepronil	ug/l	0.1	N	<0.1
Metalaxyl	ug/l	0.1	N	<0.1
Metazachlor	ug/l	0.1	N	<0.1
Methacrifos	ug/l	0.1	N	<0.1
Methidathion	ug/l	0.1	N	<0.1
Methoxychlor	ug/l	0.1	N	<0.1
Methyl Paraoxon	ug/l	0.1	N	(278) <0.1
Metolachlor	ug/l	0.1	N	<0.1
Metolcarb	ug/l	0.1	N	<0.1
Metrafenone	ug/l	0.1	N	<0.1
Metribuzin	ug/l	0.1	N	<0.1
Mevinphos	ug/l	0.1	N	<0.1
Mirex	ug/l	0.1	N	<0.1
Molinate	ug/l	0.1	N	<0.1
Myclobutanil	ug/l	0.1	N	<0.1
Napropamide	ug/l	0.1	N	<0.1
Nitrofen	ug/l	0.1	N	<0.1
Nitrothal isopropyl	ug/l	0.1	N	<0.1
Nuarimol	ug/l	0.1	N	<0.1
o,p'-DDT	ug/l	0.1	N	<0.1
o,p-DDD	ug/l	0.1	N	<0.1
o,p-DDE	ug/l	0.1	N	<0.1
Octylisothiazolon	ug/l	0.1	N	<0.1
Ofurace	ug/l	0.1	N	<0.1
Orysastrobin	ug/l	0.1	N	<0.1
Oxadiazon	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Oxadixyl	ug/l	0.1	N	<0.1
Oxyfluorfen	ug/l	0.1	N	<0.1
p,p-DDD	ug/l	0.1	N	<0.1
p,p-DDE	ug/l	0.1	N	<0.1
p,p-DDT	ug/l	0.1	N	<0.1
Paclobutrazol	ug/l	0.1	N	<0.1
Paraoxon	ug/l	0.1	N	<0.1
Parathion	ug/l	0.1	N	<0.1
Parathion methyl	ug/l	0.1	N	<0.1
Penconazole	ug/l	0.1	N	<0.1
Pendimethalin	ug/l	0.1	N	<0.1
Pentachloroaniline	ug/l	0.1	N	<0.1
Pentachlorophenol	ug/l	0.1	N	(278) <0.1
Pentanochlor	ug/l	0.1	N	<0.1
Permethrin	ug/l	0.1	N	<0.1
Pethoxamid	ug/l	0.1	N	<0.1
Phenothrin	ug/l	0.1	N	<0.1
Phenthoate	ug/l	0.1	N	<0.1
Phorate	ug/l	0.1	N	<0.1
Phosalone	ug/l	0.1	N	<0.1
Phosfolan	ug/l	0.1	N	<0.1
Picoxystrobin	ug/l	0.1	N	<0.1
Piperonyl Butoxide	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	<0.1
Pirimiphos Ethyl	ug/l	0.1	N	<0.1
Pirimiphos methyl	ug/l	0.1	N	<0.1
Pretilachlor	ug/l	0.1	N	<0.1
Procymidone	ug/l	0.1	N	<0.1
Profenofos	ug/l	0.1	N	<0.1
Prometon	ug/l	0.1	N	<0.1
Prometryn	ug/l	0.1	N	<0.1
Propachlor	ug/l	0.1	N	<0.1
Propanil	ug/l	0.1	N	<0.1
Propaphos	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	<0.1
Propazine	ug/l	0.1	N	<0.1
Propetamphos	ug/l	0.1	N	<0.1
Propham	ug/l	0.1	N	<0.1

Report Number : 865458 012
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Surface Water
Date Sampled : 17-JUN-2020
Customer Reference : S2
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Propiconazole	ug/l	0.1	N	<0.1
Propyzamide	ug/l	0.1	N	<0.1
Proquinazid	ug/l	0.1	N	<0.1
Prosulfocarb	ug/l	0.1	N	<0.1
Prothiofos	ug/l	0.1	N	<0.1
Pyraclostrobin	ug/l	0.1	N	<0.1
Pyraflufen ethyl	ug/l	0.1	N	<0.1
Pyrazophos	ug/l	0.1	N	<0.1
Pyridaben	ug/l	0.1	N	<0.1
Pyridaphenthion	ug/l	0.1	N	<0.1
Pyrimethanil	ug/l	0.1	N	<0.1
Pyriproxyfen	ug/l	0.1	N	<0.1
Quinalphos	ug/l	0.1	N	<0.1
Quinoxyfen	ug/l	0.1	N	<0.1
Quintozene	ug/l	0.1	N	<0.1
Quizalofop-ethyl	ug/l	0.1	N	<0.1
Secbumeton	ug/l	0.1	N	<0.1
Silafluofen	ug/l	0.1	N	<0.1
Simazine	ug/l	0.1	N	<0.1
Simeconazole	ug/l	0.1	N	<0.1
Sulfallate	ug/l	0.1	N	<0.1
Sulprofos	ug/l	0.1	N	<0.1
Tebuconazole	ug/l	0.1	N	<0.1
Tebufenpyrad	ug/l	0.1	N	<0.1
Tebupirimiphos	ug/l	0.1	N	<0.1
Tecnazene	ug/l	0.1	N	<0.1
Tefluthrin	ug/l	0.1	N	<0.1
Terbacil	ug/l	0.1	N	<0.1
Terbufos	ug/l	0.1	N	<0.1
Terbumeton	ug/l	0.1	N	<0.1
Terbuthylazine	ug/l	0.1	N	<0.1
Terbutryn	ug/l	0.1	N	<0.1
Tetrachlorvinphos	ug/l	0.1	N	<0.1
Tetraconazole	ug/l	0.1	N	<0.1
Tetradifon	ug/l	0.1	N	<0.1
tetraethyl dithiopyrophosphate	ug/l	0.1	N	<0.1
Tetramethrin	ug/l	0.1	N	<0.1
Tetrasul	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Thiamethoxam	ug/l	0.1	N	(278) <0.1
Thiobencarb	ug/l	0.1	N	<0.1
Tolclofos-methyl	ug/l	0.1	N	<0.1
Triadimefon	ug/l	0.1	N	<0.1
Triadimenol	ug/l	0.1	N	<0.1
Triallate	ug/l	0.1	N	<0.1
Triazamate	ug/l	0.1	N	<0.1
Triazophos	ug/l	0.1	N	<0.1
Trifloxystrobin	ug/l	0.1	N	<0.1
Triflumizole	ug/l	0.1	N	(278) <0.1
Trifluralin	ug/l	0.1	N	<0.1
Vinclozolin	ug/l	0.1	N	<0.1
Vinclozolin metabolite 3,5-Dichloroaniline	ug/l	0.1	N	(278) <0.1

Report Number : 865458 012
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Surface Water
Date Sampled : 17-JUN-2020
Customer Reference : S2
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
2-(1-Naphthyl)acetamide	ug/l	0.1	N	<0.1
3-hydroxycarbofuran	ug/l	0.1	N	<0.1
6-Benzyladenine	ug/l	0.1	N	<0.1
Acephate	ug/l	0.1	N	<0.1
Acetamiprid	ug/l	0.1	N	<0.1
Acibenzolar-S-methyl	ug/l	0.1	N	<0.1
Aldicarb	ug/l	0.1	N	<0.1
Aldicarb sulphone	ug/l	0.1	N	<0.1
Aldicarb sulphoxide	ug/l	0.1	N	<0.1
Aminocarb	ug/l	0.1	N	<0.1
Azadirachtin	ug/l	0.1	N	<0.1
Azinphos ethyl	ug/l	0.1	N	<0.1
Azinphos methyl	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Bendiocarb	ug/l	0.1	N	<0.1
Benfuracarb	ug/l	0.1	N	(278) <0.1
Butralin	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbendazim	ug/l	0.1	N	<0.1
Carbetamide	ug/l	0.1	N	<0.1
Carbofuran	ug/l	0.1	N	<0.1
Carbosulfan	ug/l	0.1	N	(278) <0.1
Carpropamid	ug/l	0.1	N	<0.1
Chinomethionat	ug/l	0.1	N	<0.1
Chlorantraniliprole	ug/l	0.1	N	<0.1
Chlorbromuron	ug/l	0.1	N	<0.1
Chlorfluazuron	ug/l	0.1	N	<0.1
Chloridazon	ug/l	0.1	N	<0.1
Chlorotoluron	ug/l	0.1	N	<0.1
Chlorpropham	ug/l	0.1	N	<0.1
Clofentezine	ug/l	0.1	N	<0.1
Clothianidin	ug/l	0.1	N	<0.1
Cyanazine	ug/l	0.1	N	<0.1
Cyazofamid	ug/l	0.1	N	<0.1
Cycluron	ug/l	0.1	N	<0.1
Cymoxanil	ug/l	0.1	N	<0.1
Cythioate	ug/l	0.1	N	<0.1
Demeton	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Demeton-s-methyl	ug/l	0.1	N	<0.1
Demeton-s-methyl sulphone	ug/l	0.1	N	<0.1
Dichlofluanid	ug/l	0.1	N	<0.1
Dicrotophos	ug/l	0.1	N	<0.1
Diethofencarb	ug/l	0.1	N	<0.1
Diflubenzuron	ug/l	0.1	N	<0.1
Dimefuron	ug/l	0.1	N	<0.1
Dimethoate	ug/l	0.1	N	<0.1
Diniconazole	ug/l	0.1	N	<0.1
Dinotefuran	ug/l	0.1	N	<0.1
Dioxacarb	ug/l	0.1	N	(278) <0.1
Disulfoton sulfoxide	ug/l	0.1	N	<0.1
Disulfoton sulphone	ug/l	0.1	N	<0.1
Diuron	ug/l	0.1	N	<0.1
DMSA	ug/l	0.1	N	<0.1
DMST	ug/l	0.1	N	<0.1
Dodemorph	ug/l	0.1	N	<0.1
Dodine	ug/l	0.1	N	(278) <0.1
Emamectin	ug/l	0.1	N	<0.1
Ethidimuron	ug/l	0.1	N	<0.1
Ethiofencarb	ug/l	0.1	N	<0.1
Ethiofencarb sulfone	ug/l	0.1	N	<0.1
Ethiofencarb sulfoxide	ug/l	0.1	N	<0.1
Ethiprole	ug/l	0.1	N	<0.1
Ethirimol	ug/l	0.1	N	<0.1
Fenamiphos sulfone	ug/l	0.1	N	<0.1
Fenamiphos sulfoxide	ug/l	0.1	N	<0.1
Fenazaquin	ug/l	0.1	N	<0.1
Fenchlorphos oxon	ug/l	0.1	N	<0.1
Fenhexamid	ug/l	0.1	N	<0.1
Fenoxycarb	ug/l	0.1	N	<0.1
Fenpropidin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenpyroximate	ug/l	0.1	N	<0.1
Fenthion Sulphone	ug/l	0.1	N	<0.1
Fenthion Sulphoxide	ug/l	0.1	N	<0.1
Fenuron	ug/l	0.1	N	<0.1
Flonicamid	ug/l	0.1	N	<0.1

Report Number : 865458 012
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Surface Water
Date Sampled : 17-JUN-2020
Customer Reference : S2
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Fluazinam	ug/l	0.1	N	<0.1
Flufenoxuron	ug/l	0.1	N	<0.1
Fluometuron	ug/l	0.1	N	<0.1
Fluopicolide	ug/l	0.1	N	<0.1
Fluorochloridone	ug/l	0.1	N	<0.1
Fluoxastrobin	ug/l	0.1	N	<0.1
Flurtamone	ug/l	0.1	N	<0.1
Flutriafol	ug/l	0.1	N	<0.1
Forchlorfenuron	ug/l	0.1	N	<0.1
Fosthiasate	ug/l	0.1	N	<0.1
Fuberidazole	ug/l	0.1	N	<0.1
Furathiocarb	ug/l	0.1	N	<0.1
Hexaflumuron	ug/l	0.1	N	<0.1
Hexythiazox	ug/l	0.1	N	<0.1
Imazalil	ug/l	0.1	N	(278) <0.1
Imibenconazole	ug/l	0.1	N	(278) <0.1
Imidacloprid	**ug/l**	**0.1**	**N**	**0.1**
Indoxacarb	ug/l	0.1	N	<0.1
Iprovalicarb	ug/l	0.1	N	<0.1
Isoprocarb	ug/l	0.1	N	<0.1
Isoproturon	ug/l	0.1	N	<0.1
Isoxaben	ug/l	0.1	N	<0.1
Karbutilate	ug/l	0.1	N	<0.1
Linuron	ug/l	0.1	N	<0.1
Lufenuron	ug/l	0.1	N	<0.1
Malaoxon	ug/l	0.1	N	<0.1
Mandipropamid	ug/l	0.1	N	<0.1
Mefenacet	ug/l	0.1	N	<0.1
Metamitron	ug/l	0.1	N	<0.1
Metconazole	ug/l	0.1	N	<0.1
Methabenzthiazuron	ug/l	0.1	N	<0.1
Methamidophos	ug/l	0.1	N	<0.1
Methiocarb	ug/l	0.1	N	<0.1
Methiocarb Sulfone	ug/l	0.1	N	<0.1
Methiocarb Sulfoxide	ug/l	0.1	N	<0.1
Methomyl	ug/l	0.1	N	<0.1
Methoxyfenozide	ug/l	0.1	N	(278) <0.1
Metobromuron	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Metoxuron	ug/l	0.1	N	<0.1
Monocrotophos	ug/l	0.1	N	<0.1
Monolinuron	ug/l	0.1	N	<0.1
Monuron	ug/l	0.1	N	<0.1
Neburon	ug/l	0.1	N	<0.1
Nicotine	ug/l	0.1	N	<0.1
Nitenpyram	ug/l	0.1	N	<0.1
Novaluron	ug/l	0.1	N	<0.1
Omethoate	ug/l	0.1	N	<0.1
Oxadiargyl	ug/l	0.1	N	<0.1
Oxamyl	ug/l	0.1	N	<0.1
Oxycarboxin	ug/l	0.1	N	<0.1
Oxydemeton-Methyl	ug/l	0.1	N	<0.1
Pencycuron	ug/l	0.1	N	<0.1
Phorate sulfone	ug/l	0.1	N	<0.1
Phorate sulfoxide	ug/l	0.1	N	<0.1
Phosmet	ug/l	0.1	N	<0.1
Phosphamidon	ug/l	0.1	N	<0.1
Phoxim	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	<0.1
Prochloraz	ug/l	0.1	N	<0.1
Promecarb	ug/l	0.1	N	<0.1
Propamocarb	ug/l	0.1	N	(278) <0.1
Propaquizafop	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	<0.1
Propoxur	ug/l	0.1	N	<0.1
Pymetrozine	ug/l	0.1	N	<0.1
Pyrifenox	ug/l	0.1	N	<0.1
Resmethrin	ug/l	0.1	N	<0.1
Rotenone	ug/l	0.1	N	<0.1
Spinosad	ug/l	0.1	N	<0.1
Spirodiclofen	ug/l	0.1	N	<0.1
Spiromesifen	ug/l	0.1	N	<0.1
Spiroxamine	ug/l	0.1	N	<0.1
Tebufenozide	ug/l	0.1	N	<0.1
Teflubenzuron	ug/l	0.1	N	<0.1
Temephos	ug/l	0.1	N	<0.1
Terbufos sulfone	ug/l	0.1	N	<0.1

Report Number : 865458 012
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Surface Water
Date Sampled : 17-JUN-2020
Customer Reference : S2
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Terbufos sulfoxide	ug/l	0.1	N	<0.1
Thiabendazole	ug/l	0.1	N	<0.1
Thiacloprid	ug/l	0.1	N	<0.1
Thiazafluron	ug/l	0.1	N	<0.1
Thiodicarb	ug/l	0.1	N	<0.1
Thiofanox	ug/l	0.1	N	<0.1
Thiophanate Methyl	ug/l	0.1	N	<0.1
Tolylfluanid	ug/l	0.1	N	<0.1
Trichlorfon	ug/l	0.1	N	<0.1
Tridemorph	ug/l	0.1	N	<0.1
Trifloxysulfuron	ug/l	0.1	N	<0.1
Triflumuron	ug/l	0.1	N	<0.1
Triflusulfuron-methyl	ug/l	0.1	N	<0.1
Triticonazole	ug/l	0.1	N	<0.1
Vamidothion	ug/l	0.1	N	<0.1
Vernolate	ug/l	0.1	N	<0.1
Zoxamide	ug/l	0.1	N	<0.1

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Certificate of Analysis

Unit 2
The Links
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Cambridgeshire
CB23 8UD
Tel : 01954 782791
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Report Number : 865458 013
Date of Issue : 24-Jun-2020

Customer : Pam Brown Associates
Contact : Dr Melissa Morales
Address : 2 Needwood House, Lancaster Park, Newborough Road, Needwood Burton on Trent, DE13 9PD

Samples Received : 18-Jun-2020
Analysis Started : 19-Jun-2020
Concept Job Reference : 865458-1
Analysis Requested : MRPS by GC (CSOPP611), MRPS by LC (CSOPP603)
Variety : Groundwater
Date Sampled : 17-JUN-2020
Customer Reference : SWS03
Location : Wheathampstead
Sample Description : Water

Results Summary

Analyte	Level Found	Units	LOD	EU MRL mg/kg	CODEX MRL mg/kg	Symbol
MRPS by GC (CSOPP611)						
Fenson	**0.2**	ug/l	0.1			N
MRPS by LC (CSOPP603)	**No residue detected above the limit of detection.**					

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.
Customers are responsible for information provided where, if incorrect, it could affect the validity of the results.
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 Concept Life Sciences SOPs
All results have been reviewed in accordance with QMSection 15 of the Concept Life Sciences, Analytical Services Quality Manual
All samples prepared in accordance with the CODEX alimentarius

Report checked
and authorised by :
Matt Line
Section Manager - Pesticides

Issued by :
Naomi Woodward
Customer Service Advisor

Index to symbols used in this report

Value	Description
278	Data reported is qualitative as recovery is outside the 60 to 140% range
5	Results are Semiquantitative
N	Analysis is not UKAS accredited

Report Number : 865458 013
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Groundwater
Date Sampled : 17-JUN-2020
Customer Reference : SWS03
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
2,4,6-Trichlorophenol	ug/l	0.1	N	<0.1
2-Phenylphenol	ug/l	0.1	N	<0.1
Acetochlor	ug/l	0.1	N	<0.1
Aclonifen	ug/l	0.1	N	<0.1
Acrinathrin	ug/l	0.1	N	(278) <0.1
Alachlor	ug/l	0.1	N	<0.1
Aldrin	ug/l	0.1	N	<0.1
Ametryn	ug/l	0.1	N	<0.1
Atraton	ug/l	0.1	N	<0.1
Atrazine	ug/l	0.1	N	<0.1
Azaconazole	ug/l	0.1	N	(278) <0.1
Azobenzene	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Benalaxyl	ug/l	0.1	N	<0.1
Benfluralin	ug/l	0.1	N	<0.1
Bifenox	ug/l	0.1	N	(278) <0.1
Bifenthrin	ug/l	0.1	N	<0.1
Binapacryl	ug/l	0.1	N	(278) <0.1
Biphenyl	ug/l	0.1	N	(278) <0.1
Bitertanol	ug/l	0.1	N	<0.1
Boscalid	ug/l	0.1	N	<0.1
Bromacil	ug/l	0.1	N	<0.1
Bromophos	ug/l	0.1	N	<0.1
Bromophos-Ethyl	ug/l	0.1	N	<0.1
Bromopropylate	ug/l	0.1	N	<0.1
Bupirimate	ug/l	0.1	N	<0.1
Buprofezine	ug/l	0.1	N	<0.1
Butachlor	ug/l	0.1	N	<0.1
Cadusafos	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbophenothion	ug/l	0.1	N	<0.1
Carboxine	ug/l	0.1	N	<0.1
Carfentrazone Ethyl	ug/l	0.1	N	<0.1
Chlorobenzilate	ug/l	0.1	N	(278) <0.1
Chlordane (sum of cis and trans isomers)	ug/l	0.1	N	<0.1
Chlordimeform	ug/l	0.1	N	(278) <0.1
Chlorethoxyfos	ug/l	0.1	N	<0.1
Chlorfenapyr	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Chlorfenvinphos	ug/l	0.1	N	<0.1
Chlormephos	ug/l	0.1	N	<0.1
Chloropropylate	ug/l	0.1	N	<0.1
Chlorothalonil	ug/l	0.1	N	<0.1
Chlorpropham	ug/l	0.1	N	<0.1
Chlorpyrifos	ug/l	0.1	N	<0.1
Chlorpyrifos methyl	ug/l	0.1	N	<0.1
Chlorthal Dimethyl	ug/l	0.1	N	<0.1
Chlorthion	ug/l	0.1	N	<0.1
Chlorthiophos	ug/l	0.1	N	<0.1
Chlozolinate	ug/l	0.1	N	<0.1
Clodinafop Propargyl	ug/l	0.1	N	<0.1
Clomazone	ug/l	0.1	N	<0.1
Cloquintocet mexyl	ug/l	0.1	N	<0.1
Coumaphos	ug/l	0.1	N	<0.1
Cyflufenamid	ug/l	0.1	N	<0.1
Cyfluthrin	ug/l	0.1	N	<0.1
Cypermethrin	ug/l	0.1	N	<0.1
Cyphenothrin	ug/l	0.1	N	<0.1
Cyproconazole	ug/l	0.1	N	<0.1
Cyprodinil	ug/l	0.1	N	<0.1
Deltamethrin	ug/l	0.1	N	<0.1
Desmetryn	ug/l	0.1	N	<0.1
Diafenthiuron	ug/l	0.1	N	<0.1
Dialifos	ug/l	0.1	N	<0.1
Diazinon	ug/l	0.1	N	<0.1
Dichlobenil	ug/l	0.1	N	<0.1
Dichlofenthion	ug/l	0.1	N	<0.1
Dichlorvos	ug/l	0.1	N	<0.1
Diclobutrazol	ug/l	0.1	N	<0.1
Dicloran	ug/l	0.1	N	<0.1
Dicofol	ug/l	0.1	N	(278) <0.1
Dieldrin	ug/l	0.1	N	<0.1
Difenoconazole	ug/l	0.1	N	<0.1
Diflufenican	ug/l	0.1	N	<0.1
Dimethenamid	ug/l	0.1	N	<0.1
Dimethomorph	ug/l	0.1	N	<0.1
Dimoxystrobin	ug/l	0.1	N	<0.1

Report Number : 865458 013
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Groundwater
Date Sampled : 17-JUN-2020
Customer Reference : SWS03
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Dioxabenzofos	ug/l	0.1	N	(278) <0.1
Diphenamid	ug/l	0.1	N	<0.1
Diphenylamine	ug/l	0.1	N	<0.1
Disulfoton	ug/l	0.1	N	<0.1
Ditalimfos	ug/l	0.1	N	<0.1
Edifenphos	ug/l	0.1	N	<0.1
Endosulphan alpha	ug/l	0.1	N	<0.1
Endosulphan beta	ug/l	0.1	N	<0.1
Endosulphan sulphate	ug/l	0.1	N	<0.1
Endrin	ug/l	0.1	N	<0.1
EPN	ug/l	0.1	N	(278) <0.1
Epoxiconazole	ug/l	0.1	N	<0.1
EPTC	ug/l	0.1	N	<0.1
Etaconazole	ug/l	0.1	N	<0.1
Ethion	ug/l	0.1	N	<0.1
Ethofumesate	ug/l	0.1	N	<0.1
Ethoprophos	ug/l	0.1	N	<0.1
Ethoxyquin	ug/l	0.1	N	(278) <0.1
Etofenprox	ug/l	0.1	N	<0.1
Etoxazole	ug/l	0.1	N	<0.1
Etridiazole	ug/l	0.1	N	<0.1
Etrimfos	ug/l	0.1	N	<0.1
Famoxadone	ug/l	0.1	N	<0.1
Famphur	ug/l	0.1	N	<0.1
Fenamidone	ug/l	0.1	N	<0.1
Fenamiphos	ug/l	0.1	N	<0.1
Fenarimol	ug/l	0.1	N	<0.1
Fenbuconazole	ug/l	0.1	N	<0.1
Fenchlorphos	ug/l	0.1	N	<0.1
Fenitrothion	ug/l	0.1	N	<0.1
Fenpiclonil	ug/l	0.1	N	<0.1
Fenpropathrin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenson	**ug/l**	**0.1**	**N**	**0.2**
Fensulfothion	ug/l	0.1	N	<0.1
Fenthion	ug/l	0.1	N	<0.1
Fenvalerate	ug/l	0.1	N	<0.1
Fipronil	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Fipronil sulphone	ug/l	0.1	N	<0.1
Flamprop isopropyl	ug/l	0.1	N	<0.1
Fluazifop-P-Butyl	ug/l	0.1	N	<0.1
Flucythrinate	ug/l	0.1	N	<0.1
Fludioxonil	ug/l	0.1	N	<0.1
Flufenacet	ug/l	0.1	N	<0.1
Flumetralin	ug/l	0.1	N	<0.1
Flumioxazin	ug/l	0.1	N	<0.1
Flumorph	ug/l	0.1	N	<0.1
Fluopyram	ug/l	0.1	N	<0.1
Fluquinconazole	ug/l	0.1	N	<0.1
Fluroxypyr-1-methylheptyl ester	ug/l	0.1	N	<0.1
Flusilazole	ug/l	0.1	N	<0.1
Flutolanil	ug/l	0.1	N	<0.1
Fluxapyroxad	ug/l	0.1	N	<0.1
Fonophos	ug/l	0.1	N	<0.1
Formothion	ug/l	0.1	N	<0.1
Furalaxyl	ug/l	0.1	N	<0.1
Haloxyfop etotyl	ug/l	0.1	N	<0.1
Haloxyfop Methyl	ug/l	0.1	N	<0.1
Heptachlor	ug/l	0.1	N	<0.1
Heptachlor epoxide	ug/l	0.1	N	<0.1
Heptachlor exo Epoxide	ug/l	0.1	N	<0.1
Heptenophos	ug/l	0.1	N	<0.1
Hexachlorobenzene	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (alpha)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (beta)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (delta)	ug/l	0.1	N	<0.1
Hexaconazole	ug/l	0.1	N	<0.1
Hexazinone	ug/l	0.1	N	<0.1
Iodofenphos	ug/l	0.1	N	<0.1
Iprodione	ug/l	0.1	N	<0.1
Isazofos	ug/l	0.1	N	<0.1
Isocarbophos	ug/l	0.1	N	<0.1
Isodrin	ug/l	0.1	N	<0.1
Isofenphos	ug/l	0.1	N	<0.1
Isofenphos Methyl	ug/l	0.1	N	<0.1
Isomethiozin	ug/l	0.1	N	<0.1

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MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Isoprothiolane	ug/l	0.1	N	<0.1
Isopyrazam	ug/l	0.1	N	<0.1
Kresoxim Methyl	ug/l	0.1	N	<0.1
Lambda Cyhalothrin	ug/l	0.1	N	<0.1
Lenacil	ug/l	0.1	N	<0.1
Leptophos	ug/l	0.1	N	<0.1
Lindane	ug/l	0.1	N	<0.1
Malathion	ug/l	0.1	N	<0.1
MCPA-thioethyl	ug/l	0.1	N	<0.1
Mecarbam	ug/l	0.1	N	<0.1
Mepanipyrim	ug/l	0.1	N	<0.1
Mephosfolan	ug/l	0.1	N	<0.1
Mepronil	ug/l	0.1	N	<0.1
Metalaxyl	ug/l	0.1	N	<0.1
Metazachlor	ug/l	0.1	N	<0.1
Methacrifos	ug/l	0.1	N	<0.1
Methidathion	ug/l	0.1	N	<0.1
Methoxychlor	ug/l	0.1	N	<0.1
Methyl Paraoxon	ug/l	0.1	N	(278) <0.1
Metolachlor	ug/l	0.1	N	<0.1
Metolcarb	ug/l	0.1	N	<0.1
Metrafenone	ug/l	0.1	N	<0.1
Metribuzin	ug/l	0.1	N	<0.1
Mevinphos	ug/l	0.1	N	<0.1
Mirex	ug/l	0.1	N	<0.1
Molinate	ug/l	0.1	N	<0.1
Myclobutanil	ug/l	0.1	N	<0.1
Napropamide	ug/l	0.1	N	<0.1
Nitrofen	ug/l	0.1	N	<0.1
Nitrothal isopropyl	ug/l	0.1	N	<0.1
Nuarimol	ug/l	0.1	N	<0.1
o,p'-DDT	ug/l	0.1	N	<0.1
o,p-DDD	ug/l	0.1	N	<0.1
o,p-DDE	ug/l	0.1	N	<0.1
Octylisothiazolon	ug/l	0.1	N	<0.1
Ofurace	ug/l	0.1	N	<0.1
Orysastrobin	ug/l	0.1	N	<0.1
Oxadiazon	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Oxadixyl	ug/l	0.1	N	<0.1
Oxyfluorfen	ug/l	0.1	N	<0.1
p,p-DDD	ug/l	0.1	N	<0.1
p,p-DDE	ug/l	0.1	N	<0.1
p,p-DDT	ug/l	0.1	N	<0.1
Paclobutrazol	ug/l	0.1	N	<0.1
Paraoxon	ug/l	0.1	N	<0.1
Parathion	ug/l	0.1	N	<0.1
Parathion methyl	ug/l	0.1	N	<0.1
Penconazole	ug/l	0.1	N	<0.1
Pendimethalin	ug/l	0.1	N	<0.1
Pentachloroaniline	ug/l	0.1	N	<0.1
Pentachlorophenol	ug/l	0.1	N	(278) <0.1
Pentanochlor	ug/l	0.1	N	<0.1
Permethrin	ug/l	0.1	N	<0.1
Pethoxamid	ug/l	0.1	N	<0.1
Phenothrin	ug/l	0.1	N	<0.1
Phenthoate	ug/l	0.1	N	<0.1
Phorate	ug/l	0.1	N	<0.1
Phosalone	ug/l	0.1	N	<0.1
Phosfolan	ug/l	0.1	N	<0.1
Picoxystrobin	ug/l	0.1	N	<0.1
Piperonyl Butoxide	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	<0.1
Pirimiphos Ethyl	ug/l	0.1	N	<0.1
Pirimiphos methyl	ug/l	0.1	N	<0.1
Pretilachlor	ug/l	0.1	N	<0.1
Procymidone	ug/l	0.1	N	<0.1
Profenofos	ug/l	0.1	N	<0.1
Prometon	ug/l	0.1	N	<0.1
Prometryn	ug/l	0.1	N	<0.1
Propachlor	ug/l	0.1	N	<0.1
Propanil	ug/l	0.1	N	<0.1
Propaphos	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	<0.1
Propazine	ug/l	0.1	N	<0.1
Propetamphos	ug/l	0.1	N	<0.1
Propham	ug/l	0.1	N	<0.1

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MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Propiconazole	ug/l	0.1	N	<0.1
Propyzamide	ug/l	0.1	N	<0.1
Proquinazid	ug/l	0.1	N	<0.1
Prosulfocarb	ug/l	0.1	N	<0.1
Prothiofos	ug/l	0.1	N	<0.1
Pyraclostrobin	ug/l	0.1	N	<0.1
Pyraflufen ethyl	ug/l	0.1	N	<0.1
Pyrazophos	ug/l	0.1	N	<0.1
Pyridaben	ug/l	0.1	N	<0.1
Pyridaphenthion	ug/l	0.1	N	<0.1
Pyrimethanil	ug/l	0.1	N	<0.1
Pyriproxyfen	ug/l	0.1	N	<0.1
Quinalphos	ug/l	0.1	N	<0.1
Quinoxyfen	ug/l	0.1	N	<0.1
Quintozene	ug/l	0.1	N	<0.1
Quizalofop-ethyl	ug/l	0.1	N	<0.1
Secbumeton	ug/l	0.1	N	<0.1
Silafluofen	ug/l	0.1	N	<0.1
Simazine	ug/l	0.1	N	<0.1
Simeconazole	ug/l	0.1	N	<0.1
Sulfallate	ug/l	0.1	N	<0.1
Sulprofos	ug/l	0.1	N	<0.1
Tebuconazole	ug/l	0.1	N	<0.1
Tebufenpyrad	ug/l	0.1	N	<0.1
Tebupirimiphos	ug/l	0.1	N	<0.1
Tecnazene	ug/l	0.1	N	<0.1
Tefluthrin	ug/l	0.1	N	<0.1
Terbacil	ug/l	0.1	N	<0.1
Terbufos	ug/l	0.1	N	<0.1
Terbumeton	ug/l	0.1	N	<0.1
Terbuthylazine	ug/l	0.1	N	<0.1
Terbutryn	ug/l	0.1	N	<0.1
Tetrachlorvinphos	ug/l	0.1	N	<0.1
Tetraconazole	ug/l	0.1	N	<0.1
Tetradifon	ug/l	0.1	N	<0.1
tetraethyl dithiopyrophosphate	ug/l	0.1	N	<0.1
Tetramethrin	ug/l	0.1	N	<0.1
Tetrasul	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Thiamethoxam	ug/l	0.1	N	(278) <0.1
Thiobencarb	ug/l	0.1	N	<0.1
Tolclofos-methyl	ug/l	0.1	N	<0.1
Triadimefon	ug/l	0.1	N	<0.1
Triadimenol	ug/l	0.1	N	<0.1
Triallate	ug/l	0.1	N	<0.1
Triazamate	ug/l	0.1	N	<0.1
Triazophos	ug/l	0.1	N	<0.1
Trifloxystrobin	ug/l	0.1	N	<0.1
Triflumizole	ug/l	0.1	N	(278) <0.1
Trifluralin	ug/l	0.1	N	<0.1
Vinclozolin	ug/l	0.1	N	<0.1
Vinclozolin metabolite 3,5-Dichloroaniline	ug/l	0.1	N	(278) <0.1

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MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
2-(1-Naphthyl)acetamide	ug/l	0.1	N	<0.1
3-hydroxycarbofuran	ug/l	0.1	N	<0.1
6-Benzyladenine	ug/l	0.1	N	<0.1
Acephate	ug/l	0.1	N	<0.1
Acetamiprid	ug/l	0.1	N	<0.1
Acibenzolar-S-methyl	ug/l	0.1	N	<0.1
Aldicarb	ug/l	0.1	N	<0.1
Aldicarb sulphone	ug/l	0.1	N	<0.1
Aldicarb sulphoxide	ug/l	0.1	N	<0.1
Aminocarb	ug/l	0.1	N	<0.1
Azadirachtin	ug/l	0.1	N	<0.1
Azinphos ethyl	ug/l	0.1	N	<0.1
Azinphos methyl	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Bendiocarb	ug/l	0.1	N	<0.1
Benfuracarb	ug/l	0.1	N	(278) <0.1
Butralin	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbendazim	ug/l	0.1	N	<0.1
Carbetamide	ug/l	0.1	N	<0.1
Carbofuran	ug/l	0.1	N	<0.1
Carbosulfan	ug/l	0.1	N	(278) <0.1
Carpropamid	ug/l	0.1	N	<0.1
Chinomethionat	ug/l	0.1	N	<0.1
Chlorantraniliprole	ug/l	0.1	N	<0.1
Chlorbromuron	ug/l	0.1	N	<0.1
Chlorfluazuron	ug/l	0.1	N	<0.1
Chloridazon	ug/l	0.1	N	<0.1
Chlorotoluron	ug/l	0.1	N	<0.1
Chlorpropham	ug/l	0.1	N	<0.1
Clofentezine	ug/l	0.1	N	<0.1
Clothianidin	ug/l	0.1	N	<0.1
Cyanazine	ug/l	0.1	N	<0.1
Cyazofamid	ug/l	0.1	N	<0.1
Cycluron	ug/l	0.1	N	<0.1
Cymoxanil	ug/l	0.1	N	<0.1
Cythioate	ug/l	0.1	N	<0.1
Demeton	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Demeton-s-methyl	ug/l	0.1	N	<0.1
Demeton-s-methyl sulphone	ug/l	0.1	N	<0.1
Dichlofluanid	ug/l	0.1	N	<0.1
Dicrotophos	ug/l	0.1	N	<0.1
Diethofencarb	ug/l	0.1	N	<0.1
Diflubenzuron	ug/l	0.1	N	<0.1
Dimefuron	ug/l	0.1	N	<0.1
Dimethoate	ug/l	0.1	N	<0.1
Diniconazole	ug/l	0.1	N	<0.1
Dinotefuran	ug/l	0.1	N	<0.1
Dioxacarb	ug/l	0.1	N	(278) <0.1
Disulfoton sulfoxide	ug/l	0.1	N	<0.1
Disulfoton sulphone	ug/l	0.1	N	<0.1
Diuron	ug/l	0.1	N	<0.1
DMSA	ug/l	0.1	N	<0.1
DMST	ug/l	0.1	N	<0.1
Dodemorph	ug/l	0.1	N	<0.1
Dodine	ug/l	0.1	N	(278) <0.1
Emamectin	ug/l	0.1	N	<0.1
Ethidimuron	ug/l	0.1	N	<0.1
Ethiofencarb	ug/l	0.1	N	<0.1
Ethiofencarb sulfone	ug/l	0.1	N	<0.1
Ethiofencarb sulfoxide	ug/l	0.1	N	<0.1
Ethiprole	ug/l	0.1	N	<0.1
Ethirimol	ug/l	0.1	N	<0.1
Fenamiphos sulfone	ug/l	0.1	N	<0.1
Fenamiphos sulfoxide	ug/l	0.1	N	<0.1
Fenazaquin	ug/l	0.1	N	<0.1
Fenchlorphos oxon	ug/l	0.1	N	<0.1
Fenhexamid	ug/l	0.1	N	<0.1
Fenoxycarb	ug/l	0.1	N	<0.1
Fenpropidin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenpyroximate	ug/l	0.1	N	<0.1
Fenthion Sulphone	ug/l	0.1	N	<0.1
Fenthion Sulphoxide	ug/l	0.1	N	<0.1
Fenuron	ug/l	0.1	N	<0.1
Flonicamid	ug/l	0.1	N	<0.1

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MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Fluazinam	ug/l	0.1	N	<0.1
Flufenoxuron	ug/l	0.1	N	<0.1
Fluometuron	ug/l	0.1	N	<0.1
Fluopicolide	ug/l	0.1	N	<0.1
Fluorochloridone	ug/l	0.1	N	<0.1
Fluoxastrobin	ug/l	0.1	N	<0.1
Flurtamone	ug/l	0.1	N	<0.1
Flutriafol	ug/l	0.1	N	<0.1
Forchlorfenuron	ug/l	0.1	N	<0.1
Fosthiasate	ug/l	0.1	N	<0.1
Fuberidazole	ug/l	0.1	N	<0.1
Furathiocarb	ug/l	0.1	N	<0.1
Hexaflumuron	ug/l	0.1	N	<0.1
Hexythiazox	ug/l	0.1	N	<0.1
Imazalil	ug/l	0.1	N	(278) <0.1
Imibenconazole	ug/l	0.1	N	(278) <0.1
Imidacloprid	ug/l	0.1	N	<0.1
Indoxacarb	ug/l	0.1	N	<0.1
Iprovalicarb	ug/l	0.1	N	<0.1
Isoprocarb	ug/l	0.1	N	<0.1
Isoproturon	ug/l	0.1	N	<0.1
Isoxaben	ug/l	0.1	N	<0.1
Karbutilate	ug/l	0.1	N	<0.1
Linuron	ug/l	0.1	N	<0.1
Lufenuron	ug/l	0.1	N	<0.1
Malaoxon	ug/l	0.1	N	<0.1
Mandipropamid	ug/l	0.1	N	<0.1
Mefenacet	ug/l	0.1	N	<0.1
Metamitron	ug/l	0.1	N	<0.1
Metconazole	ug/l	0.1	N	<0.1
Methabenzthiazuron	ug/l	0.1	N	<0.1
Methamidophos	ug/l	0.1	N	<0.1
Methiocarb	ug/l	0.1	N	<0.1
Methiocarb Sulfone	ug/l	0.1	N	<0.1
Methiocarb Sulfoxide	ug/l	0.1	N	<0.1
Methomyl	ug/l	0.1	N	<0.1
Methoxyfenozide	ug/l	0.1	N	(278) <0.1
Metobromuron	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Metoxuron	ug/l	0.1	N	<0.1
Monocrotophos	ug/l	0.1	N	<0.1
Monolinuron	ug/l	0.1	N	<0.1
Monuron	ug/l	0.1	N	<0.1
Neburon	ug/l	0.1	N	<0.1
Nicotine	ug/l	0.1	N	<0.1
Nitenpyram	ug/l	0.1	N	<0.1
Novaluron	ug/l	0.1	N	<0.1
Omethoate	ug/l	0.1	N	<0.1
Oxadiargyl	ug/l	0.1	N	<0.1
Oxamyl	ug/l	0.1	N	<0.1
Oxycarboxin	ug/l	0.1	N	<0.1
Oxydemeton-Methyl	ug/l	0.1	N	<0.1
Pencycuron	ug/l	0.1	N	<0.1
Phorate sulfone	ug/l	0.1	N	<0.1
Phorate sulfoxide	ug/l	0.1	N	<0.1
Phosmet	ug/l	0.1	N	<0.1
Phosphamidon	ug/l	0.1	N	<0.1
Phoxim	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	<0.1
Prochloraz	ug/l	0.1	N	<0.1
Promecarb	ug/l	0.1	N	<0.1
Propamocarb	ug/l	0.1	N	(278) <0.1
Propaquizafop	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	<0.1
Propoxur	ug/l	0.1	N	<0.1
Pymetrozine	ug/l	0.1	N	<0.1
Pyrifenox	ug/l	0.1	N	<0.1
Resmethrin	ug/l	0.1	N	<0.1
Rotenone	ug/l	0.1	N	<0.1
Spinosad	ug/l	0.1	N	<0.1
Spirodiclofen	ug/l	0.1	N	<0.1
Spiromesifen	ug/l	0.1	N	<0.1
Spiroxamine	ug/l	0.1	N	<0.1
Tebufenozide	ug/l	0.1	N	<0.1
Teflubenzuron	ug/l	0.1	N	<0.1
Temephos	ug/l	0.1	N	<0.1
Terbufos sulfone	ug/l	0.1	N	<0.1

Report Number : 865458 013
Client : Pam Brown Associates
Samples Received : 18-Jun-2020
Variety : Groundwater
Date Sampled : 17-JUN-2020
Customer Reference : SWS03
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Terbufos sulfoxide	ug/l	0.1	N	<0.1
Thiabendazole	ug/l	0.1	N	<0.1
Thiacloprid	ug/l	0.1	N	<0.1
Thiazafluron	ug/l	0.1	N	<0.1
Thiodicarb	ug/l	0.1	N	<0.1
Thiofanox	ug/l	0.1	N	<0.1
Thiophanate Methyl	ug/l	0.1	N	<0.1
Tolylfluanid	ug/l	0.1	N	<0.1
Trichlorfon	ug/l	0.1	N	<0.1
Tridemorph	ug/l	0.1	N	<0.1
Trifloxysulfuron	ug/l	0.1	N	<0.1
Triflumuron	ug/l	0.1	N	<0.1
Triflusulfuron-methyl	ug/l	0.1	N	<0.1
Triticonazole	ug/l	0.1	N	<0.1
Vamidothion	ug/l	0.1	N	<0.1
Vernolate	ug/l	0.1	N	<0.1
Zoxamide	ug/l	0.1	N	<0.1

Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
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2183

Final Report

Report No.:	20-19198-1		
Initial Date of Issue:	31-Jul-2020		
Client	Pam Brown Associates		
Client Address:	Needwood House, Lancaster Park Newborough Road Needwood Staffordshire DE13 9PD		
Contact(s):	Enquiries Rudo Mafikeni		
Project	1302-13 Wheathampstead		
Quotation No.:	Q19-17781	**Date Received:**	24-Jul-2020
Order No.:		**Date Instructed:**	24-Jul-2020
No. of Samples:	13		
Turnaround (Wkdays):	5	**Results Due:**	30-Jul-2020
Date Approved:	31-Jul-2020		

Approved By:

Details: Glynn Harvey, Technical Manager

Results - Water

Project: 1302-13 Wheathampstead

Client: Pam Brown Associates				**Chemtest Job No.:**	20-19198	20-19198	20-19198	20-19198	20-19198	20-19198	20-19198	20-19198	20-19198	20-19198
Quotation No.: Q19-17781				**Chemtest Sample ID.:**	1037178	1037179	1037180	1037181	1037182	1037183	1037184	1037185	1037186	1037187
				Sample Location:	S1	S2	ASB1	BH22	WS102	WS103	BH301	BH302	BH303	BH304
				Sample Type:	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
				Date Sampled:	22-Jul-2020	22-Jul-2020	22-Jul-2020	23-Jul-2020	23-Jul-2020	22-Jul-2020	22-Jul-2020	22-Jul-2020	22-Jul-2020	22-Jul-2020
Determinand	**Accred.**	**SOP**	**Units**	**LOD**										
pH	U	1010		N/A	9.3	8.9	9.1	8.0	8.0	8.0	8.0	7.8	7.7	7.7
Dissolved Oxygen	N	1150	mg O2/l	0.50	8.0	8.0	8.1	8.1	8.1	8.1	8.0	8.0	8.0	8.0
Redox Potential	N	1170	mV	N/A	170	170	180	180	180	170	180	170	150	150
Chloride	U	1220	mg/l	1.0	160	170	81	120	150	160	110	49	51	55
Nitrate	U	1220	mg/l	0.50	76	72	1.4	9.0	60	75	24	< 0.50	< 0.50	< 0.50
Sulphate	U	1220	mg/l	1.0	110	110	96	79	110	110	82	190	630	320
Manganese (Dissolved)	U	1450	µg/l	1.0	1.7	1.9	370	220	59	26	20	3300	5700	4000
Iron [II]	N	1450	µg/l	20	20	20	< 20	< 20	< 20	< 20	< 20	110	< 20	< 20
Iron [III]	N	1450	µg/l	20	390	350	480	450	400	430	410	500	4900	700
Dissolved Methane	N	1630	mg/l	0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.67	0.14
Aliphatic TPH >C5-C6	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C6-C8	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C8-C10	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C10-C12	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C12-C16	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C16-C21	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C21-C35	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C35-C44	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Aliphatic Hydrocarbons	N	1675	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	110	< 0.10	38
Aromatic TPH >C7-C8	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	240	230	300
Aromatic TPH >C8-C10	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	950	510	380
Aromatic TPH >C10-C12	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1800	240	95
Aromatic TPH >C12-C16	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	4900	490	22
Aromatic TPH >C16-C21	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	2400	180	11
Aromatic TPH >C21-C35	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	110	< 0.10	16
Aromatic TPH >C35-C44	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Aromatic Hydrocarbons	N	1675	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	11000	1700	860
Total Petroleum Hydrocarbons	N	1675	µg/l	10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	11000	1700	860
Naphthalene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	280	< 0.10	< 0.10
Acenaphthylene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	35	< 0.10	< 0.10
Acenaphthene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	770	< 0.10	< 0.10
Fluorene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	260	< 0.10	< 0.10
Phenanthrene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	310	< 0.10	< 0.10
Anthracene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	22	< 0.10	< 0.10
Fluoranthene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	9.8	< 0.10	< 0.10
Pyrene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	7.9	< 0.10	< 0.10
Benzo[a]anthracene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	N	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Water

Project: 1302-13 Wheathampstead

Client: Pam Brown Associates				**Chemtest Job No.:**	20-19198	20-19198	20-19198	20-19198	20-19198	20-19198	20-19198	20-19198	20-19198	20-19198
Quotation No.: Q19-17781				**Chemtest Sample ID.:**	1037178	1037179	1037180	1037181	1037182	1037183	1037184	1037185	1037186	1037187
				Sample Location:	S1	S2	ASB1	BH22	WS102	WS103	BH301	BH302	BH303	BH304
				Sample Type:	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
				Date Sampled:	22-Jul-2020	22-Jul-2020	22-Jul-2020	23-Jul-2020	23-Jul-2020	22-Jul-2020	22-Jul-2020	22-Jul-2020	22-Jul-2020	22-Jul-2020
Determinand	**Accred.**	**SOP**	**Units**	**LOD**										
Benzo[a]pyrene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	N	1700	µg/l	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	1700	< 2.0	< 2.0
2-Chlorophenol	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Results - Water

Project: 1302-13 Wheathampstead

Client: Pam Brown Associates			**Chemtest Job No.:**		20-19198	20-19198	20-19198
Quotation No.: Q19-17781			**Chemtest Sample ID.:**		1037188	1037189	1037190
			Sample Location:		BH305	BH306	SWS03
			Sample Type:		WATER	WATER	WATER
			Date Sampled:		22-Jul-2020	22-Jul-2020	22-Jul-2020
Determinand	**Accred.**	**SOP**	**Units**	**LOD**			
pH	U	1010		N/A	7.8	7.9	7.9
Dissolved Oxygen	N	1150	mg O2/l	0.50	8.1	8.0	8.0
Redox Potential	N	1170	mV	N/A	140	140	140
Chloride	U	1220	mg/l	1.0	140	99	140
Nitrate	U	1220	mg/l	0.50	28	< 0.50	< 0.50
Sulphate	U	1220	mg/l	1.0	110	110	130
Manganese (Dissolved)	U	1450	µg/l	1.0	47	120	1700
Iron [II]	N	1450	µg/l	20	< 20	< 20	< 20
Iron [III]	N	1450	µg/l	20	470	490	590
Dissolved Methane	N	1630	mg/l	0.050	0.080	< 0.050	< 0.050
Aliphatic TPH >C5-C6	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C6-C8	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C8-C10	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C10-C12	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C12-C16	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C16-C21	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C21-C35	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C35-C44	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10
Total Aliphatic Hydrocarbons	N	1675	µg/l	5.0	< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C7-C8	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C8-C10	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C10-C12	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C12-C16	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C16-C21	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C21-C35	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C35-C44	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10
Total Aromatic Hydrocarbons	N	1675	µg/l	5.0	< 5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	1675	µg/l	10	< 10	< 10	< 10
Naphthalene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10
Fluorene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10
Anthracene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10
Pyrene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10
Chrysene	N	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10

Results - Water

Project: 1302-13 Wheathampstead

Client: Pam Brown Associates			**Chemtest Job No.:**		20-19198	20-19198	20-19198
Quotation No.: Q19-17781			**Chemtest Sample ID.:**		1037188	1037189	1037190
			Sample Location:		BH305	BH306	SWS03
			Sample Type:		WATER	WATER	WATER
			Date Sampled:		22-Jul-2020	22-Jul-2020	22-Jul-2020
Determinand	**Accred.**	**SOP**	**Units**	**LOD**			
Benzo[a]pyrene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	N	1700	µg/l	2.0	< 2.0	< 2.0	< 2.0
2-Chlorophenol	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1150	Dissolved Oxygen	Dissolved Oxygen (DO)	Electrometric determination (on site preferred), using oxygen sensitive membrane electrode.
1170	Redox Potential	Redox Potential	Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1450	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1675	TPH Aliphatic/Aromatic split in Waters by GC-FID(cf. Texas Method 1006 / TPH CWG)	Aliphatics: >C5–C6, >C6–C8, >C8– C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Pentane extraction / GCxGC FID detection
1700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)
1790	Semi-Volatile Organic Compounds (SVOCs) in Waters by GC-MS	Semi-volatile organic compounds	Solvent extraction / GCMS detection

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"

Comments or interpretations are beyond the scope of UKAS accreditation
The results relate only to the items tested
Uncertainty of measurement for the determinands tested are available upon request
None of the results in this report have been recovery corrected
All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis
All Asbestos testing is performed at the indicated laboratory
Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

A - Date of sampling not supplied
B - Sample age exceeds stability time (sampling to extraction)
C - Sample not received in appropriate containers
D - Broken Container
E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 45 days from the date of receipt
All water samples will be retained for 14 days from the date of receipt
Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

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Certificate of Analysis

Unit 2
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CB23 8UD
Tel : 01954 782791
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Report Number : 868550 001
Date of Issue : 29-Jul-2020

Customer : Pam Brown Associates
Contact : Dr Melissa Morales
Address : 2 Needwood House, Lancaster Park, Newborough Road, Needwood Burton on Trent, DE13 9PD

Samples Received : 23-Jul-2020
Analysis Started : 24-Jul-2020
Concept Job Reference : 868550-1
Analysis Requested : MRPS by LC (CSOPP603), MRPS by GC (CSOPP611)
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : BH301
Location : Wheathampstead
Sample Description : Water

Results Summary

Analyte	Level Found	Units	LOD	EU MRL mg/kg	CODEX MRL mg/kg	Symbol
MRPS by LC (CSOPP603)	**No residue detected above the limit of detection.**					
MRPS by GC (CSOPP611)						
Bromacil	**0.2**	ug/l	0.1			N
EPTC	**0.3**	ug/l	0.1			N
Fenson	**0.4**	ug/l	0.1			N

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.
Customers are responsible for information provided where, if incorrect, it could affect the validity of the results.
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 Concept Life Sciences SOPs
All results have been reviewed in accordance with QMSection 15 of the Concept Life Sciences, Analytical Services Quality Manual
All samples prepared in accordance with the CODEX alimentarius

Report checked
and authorised by :
Matt Line
Section Manager - Pesticides

Issued by :
Naomi Woodward
Customer Service Advisor

Index to symbols used in this report

Value	Description
62	LOD was raised due to the method performance of the analytical procedure used
147	Result has been Recovery corrected.
278	Data reported is qualitative as recovery is outside the 60 to 140% range
N	Analysis is not UKAS accredited

Report Number : 868550 001
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : BH301
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
2-(1-Naphthyl)acetamide	ug/l	0.1	N	<0.1
3-hydroxycarbofuran	ug/l	0.1	N	<0.1
6-Benzyladenine	ug/l	0.1	N	<0.1
Acephate	ug/l	0.1	N	<0.1
Acetamiprid	ug/l	0.1	N	<0.1
Acibenzolar-S-methyl	ug/l	0.1	N	<0.1
Aldicarb	ug/l	0.1	N	<0.1
Aldicarb sulphone	ug/l	0.1	N	<0.1
Aldicarb sulphoxide	ug/l	0.1	N	<0.1
Aminocarb	ug/l	0.1	N	<0.1
Azadirachtin	ug/l	0.1	N	<0.1
Azinphos ethyl	ug/l	0.1	N	<0.1
Azinphos methyl	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Bendiocarb	ug/l	0.1	N	<0.1
Benfuracarb	ug/l	0.1	N	(278) <0.1
Butralin	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbendazim	ug/l	0.1	N	<0.1
Carbetamide	ug/l	0.1	N	<0.1
Carbofuran	ug/l	0.1	N	<0.1
Carbosulfan	ug/l	0.1	N	(278) <0.1
Carpropamid	ug/l	0.1	N	<0.1
Chinomethionat	ug/l	0.1	N	<0.1
Chlorantraniliprole	ug/l	0.1	N	<0.1
Chlorbromuron	ug/l	0.1	N	<0.1
Chlorfluazuron	ug/l	0.1	N	<0.1
Chloridazon	ug/l	0.1	N	<0.1
Chlorotoluron	ug/l	0.1	N	<0.1
Chlorpropham	ug/l	0.1	N	<0.1
Clofentezine	ug/l	0.1	N	<0.1
Clothianidin	ug/l	0.1	N	<0.1
Cyanazine	ug/l	0.1	N	<0.1
Cyazofamid	ug/l	0.1	N	<0.1
Cycluron	ug/l	0.1	N	<0.1
Cymoxanil	ug/l	0.1	N	<0.1
Cythioate	ug/l	0.1	N	<0.1
Demeton	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Demeton-s-methyl	ug/l	0.1	N	<0.1
Demeton-s-methyl sulphone	ug/l	0.1	N	<0.1
Dichlofluanid	ug/l	0.1	N	<0.1
Dicrotophos	ug/l	0.1	N	<0.1
Diethofencarb	ug/l	0.1	N	<0.1
Diflubenzuron	ug/l	0.1	N	<0.1
Dimefuron	ug/l	0.1	N	<0.1
Dimethoate	ug/l	0.1	N	<0.1
Diniconazole	ug/l	0.1	N	<0.1
Dinotefuran	ug/l	0.1	N	<0.1
Dioxacarb	ug/l	0.1	N	(278) <0.1
Disulfoton sulfoxide	ug/l	0.1	N	<0.1
Disulfoton sulphone	ug/l	0.1	N	<0.1
Diuron	ug/l	0.1	N	<0.1
DMSA	ug/l	0.1	N	<0.1
DMST	ug/l	0.1	N	<0.1
Dodemorph	ug/l	0.1	N	(278) <0.1
Dodine	ug/l	0.1	N	<0.1
Emamectin	ug/l	0.1	N	(278) <0.1
Ethidimuron	ug/l	0.1	N	<0.1
Ethiofencarb	ug/l	0.1	N	<0.1
Ethiofencarb sulfone	ug/l	0.1	N	<0.1
Ethiofencarb sulfoxide	ug/l	0.1	N	<0.1
Ethiprole	ug/l	0.1	N	<0.1
Ethirimol	ug/l	0.1	N	<0.1
Fenamiphos sulfone	ug/l	0.1	N	<0.1
Fenamiphos sulfoxide	ug/l	0.1	N	<0.1
Fenazaquin	ug/l	0.1	N	<0.1
Fenchlorphos oxon	ug/l	0.1	N	<0.1
Fenhexamid	ug/l	0.1	N	<0.1
Fenoxycarb	ug/l	0.1	N	<0.1
Fenpropidin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenpyroximate	ug/l	0.1	N	<0.1
Fenthion Sulphone	ug/l	0.1	N	<0.1
Fenthion Sulphoxide	ug/l	0.1	N	<0.1
Fenuron	ug/l	0.1	N	<0.1
Flonicamid	ug/l	0.1	N	<0.1

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Determinand	Units	LOD	Symbol	Result
Fluazinam	ug/l	0.1	N	<0.1
Flufenoxuron	ug/l	0.1	N	<0.1
Fluometuron	ug/l	0.1	N	<0.1
Fluopicolide	ug/l	0.1	N	<0.1
Fluorochloridone	ug/l	0.1	N	<0.1
Fluoxastrobin	ug/l	0.1	N	<0.1
Flurtamone	ug/l	0.1	N	<0.1
Flutriafol	ug/l	0.1	N	<0.1
Forchlorfenuron	ug/l	0.1	N	<0.1
Fosthiasate	ug/l	0.1	N	<0.1
Fuberidazole	ug/l	0.1	N	<0.1
Furathiocarb	ug/l	0.1	N	<0.1
Hexaflumuron	ug/l	0.1	N	<0.1
Hexythiazox	ug/l	0.1	N	<0.1
Imazalil	ug/l	0.1	N	(278) <0.1
Imibenconazole	ug/l	0.1	N	<0.1
Imidacloprid	ug/l	0.1	N	<0.1
Indoxacarb	ug/l	0.1	N	<0.1
Iprovalicarb	ug/l	0.1	N	<0.1
Isoprocarb	ug/l	0.1	N	<0.1
Isoproturon	ug/l	0.1	N	<0.1
Isoxaben	ug/l	0.1	N	<0.1
Karbutilate	ug/l	0.1	N	<0.1
Linuron	ug/l	0.1	N	<0.1
Lufenuron	ug/l	0.1	N	<0.1
Malaoxon	ug/l	0.1	N	<0.1
Mandipropamid	ug/l	0.1	N	<0.1
Mefenacet	ug/l	0.1	N	<0.1
Metamitron	ug/l	0.1	N	<0.1
Metconazole	ug/l	0.1	N	<0.1
Methabenzthiazuron	ug/l	0.1	N	<0.1
Methamidophos	ug/l	0.1	N	<0.1
Methiocarb	ug/l	0.1	N	<0.1
Methiocarb Sulfone	ug/l	0.1	N	<0.1
Methiocarb Sulfoxide	ug/l	0.1	N	<0.1
Methomyl	ug/l	0.1	N	<0.1
Methoxyfenozide	ug/l	0.1	N	<0.1
Metobromuron	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Metoxuron	ug/l	0.1	N	<0.1
Monocrotophos	ug/l	0.1	N	<0.1
Monolinuron	ug/l	0.1	N	<0.1
Monuron	ug/l	0.1	N	<0.1
Neburon	ug/l	0.1	N	<0.1
Nicotine	ug/l	0.1	N	<0.1
Nitenpyram	ug/l	0.1	N	<0.1
Novaluron	ug/l	0.1	N	<0.1
Omethoate	ug/l	0.1	N	<0.1
Oxadiargyl	ug/l	0.1	N	<0.1
Oxamyl	ug/l	0.1	N	<0.1
Oxycarboxin	ug/l	0.1	N	<0.1
Oxydemeton-Methyl	ug/l	0.1	N	<0.1
Pencycuron	ug/l	0.1	N	<0.1
Phorate sulfone	ug/l	0.1	N	<0.1
Phorate sulfoxide	ug/l	0.1	N	<0.1
Phosmet	ug/l	0.1	N	<0.1
Phosphamidon	ug/l	0.1	N	<0.1
Phoxim	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	<0.1
Prochloraz	ug/l	0.1	N	<0.1
Promecarb	ug/l	0.1	N	<0.1
Propamocarb	ug/l	0.1	N	<0.1
Propaquizafop	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	<0.1
Propoxur	ug/l	0.1	N	<0.1
Pymetrozine	ug/l	0.1	N	<0.1
Pyrifenox	ug/l	0.1	N	<0.1
Resmethrin	ug/l	0.1	N	<0.1
Rotenone	ug/l	0.1	N	<0.1
Spinosad	ug/l	0.1	N	<0.1
Spirodiclofen	ug/l	0.1	N	<0.1
Spiromesifen	ug/l	0.1	N	<0.1
Spiroxamine	ug/l	0.1	N	<0.1
Tebufenozide	ug/l	0.1	N	<0.1
Teflubenzuron	ug/l	0.1	N	<0.1
Temephos	ug/l	0.1	N	<0.1
Terbufos sulfone	ug/l	0.1	N	<0.1

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Terbufos sulfoxide	ug/l	0.1	N	<0.1
Thiabendazole	ug/l	0.1	N	<0.1
Thiacloprid	ug/l	0.1	N	<0.1
Thiazafluron	ug/l	0.1	N	<0.1
Thiodicarb	ug/l	0.1	N	<0.1
Thiofanox	ug/l	0.1	N	<0.1
Thiophanate Methyl	ug/l	0.1	N	<0.1
Tolylfluanid	ug/l	0.1	N	<0.1
Trichlorfon	ug/l	0.1	N	<0.1
Tridemorph	ug/l	0.1	N	<0.1
Trifloxysulfuron	ug/l	0.1	N	<0.1
Triflumuron	ug/l	0.1	N	<0.1
Triflusulfuron-methyl	ug/l	0.1	N	<0.1
Triticonazole	ug/l	0.1	N	<0.1
Vamidothion	ug/l	0.1	N	<0.1
Vernolate	ug/l	0.1	N	<0.1
Zoxamide	ug/l	0.1	N	<0.1

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Determinand	Units	LOD	Symbol	Result
2,4,6-Trichlorophenol	ug/l	0.1	N	<0.1
2-Phenylphenol	ug/l	0.1	N	<0.1
Acetochlor	ug/l	0.1	N	<0.1
Aclonifen	ug/l	0.1	N	<0.1
Acrinathrin	ug/l	0.1	N	<0.1
Alachlor	ug/l	0.1	N	<0.1
Aldrin	ug/l	0.1	N	<0.1
Ametryn	ug/l	0.1	N	<0.1
Atraton	ug/l	0.1	N	<0.1
Atrazine	ug/l	0.1	N	<0.1
Azaconazole	ug/l	0.1	N	<0.1
Azobenzene	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Benalaxyl	ug/l	0.1	N	<0.1
Benfluralin	ug/l	0.1	N	<0.1
Bifenox	ug/l	0.1	N	<0.1
Bifenthrin	ug/l	0.1	N	<0.1
Binapacryl	ug/l	0.1	N	(278) <0.1
Biphenyl	ug/l	1.2	N	(278, 62) <1.2
Bitertanol	ug/l	0.1	N	<0.1
Boscalid	ug/l	0.1	N	<0.1
Bromacil	**ug/l**	**0.1**	**N**	**0.2**
Bromophos	ug/l	0.1	N	<0.1
Bromophos-Ethyl	ug/l	0.1	N	<0.1
Bromopropylate	ug/l	0.1	N	<0.1
Bupirimate	ug/l	0.1	N	<0.1
Buprofezine	ug/l	0.1	N	<0.1
Butachlor	ug/l	0.1	N	<0.1
Cadusafos	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbophenothion	ug/l	0.1	N	<0.1
Carboxine	ug/l	0.1	N	(278) <0.1
Carfentrazone Ethyl	ug/l	0.1	N	<0.1
Chlorobenzilate	ug/l	0.1	N	(278) <0.1
Chlordane (sum of cis and trans isomers)	ug/l	0.1	N	<0.1
Chlordimeform	ug/l	0.1	N	(278) <0.1
Chlorethoxyfos	ug/l	0.1	N	<0.1
Chlorfenapyr	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Chlorfenvinphos	ug/l	0.1	N	<0.1
Chlormephos	ug/l	0.1	N	<0.1
Chloropropylate	ug/l	0.1	N	<0.1
Chlorothalonil	ug/l	0.1	N	<0.1
Chlorpropham	ug/l	0.1	N	<0.1
Chlorpyrifos	ug/l	0.1	N	<0.1
Chlorpyrifos methyl	ug/l	0.1	N	<0.1
Chlorthal Dimethyl	ug/l	0.1	N	<0.1
Chlorthion	ug/l	0.1	N	<0.1
Chlorthiophos	ug/l	0.1	N	<0.1
Chlozolinate	ug/l	0.1	N	<0.1
Clodinafop Propargyl	ug/l	0.1	N	<0.1
Clomazone	ug/l	0.1	N	<0.1
Cloquintocet mexyl	ug/l	0.1	N	<0.1
Coumaphos	ug/l	0.1	N	<0.1
Cyflufenamid	ug/l	0.1	N	<0.1
Cyfluthrin	ug/l	0.1	N	<0.1
Cypermethrin	ug/l	0.1	N	<0.1
Cyphenothrin	ug/l	0.1	N	<0.1
Cyproconazole	ug/l	0.1	N	<0.1
Cyprodinil	ug/l	0.1	N	<0.1
Deltamethrin	ug/l	0.1	N	<0.1
Desmetryn	ug/l	0.1	N	<0.1
Diafenthiuron	ug/l	0.1	N	<0.1
Dialifos	ug/l	0.1	N	<0.1
Diazinon	ug/l	0.1	N	<0.1
Dichlobenil	ug/l	0.1	N	<0.1
Dichlofenthion	ug/l	0.1	N	<0.1
Dichlorvos	ug/l	0.1	N	<0.1
Diclobutrazol	ug/l	0.1	N	<0.1
Dicloran	ug/l	0.1	N	<0.1
Dicofol	ug/l	0.1	N	<0.1
Dieldrin	ug/l	0.1	N	<0.1
Difenoconazole	ug/l	0.1	N	<0.1
Diflufenican	ug/l	0.1	N	<0.1
Dimethenamid	ug/l	0.1	N	<0.1
Dimethomorph	ug/l	0.1	N	<0.1
Dimoxystrobin	ug/l	0.1	N	<0.1

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Determinand	Units	LOD	Symbol	Result
Dioxabenzofos	ug/l	0.1	N	(278) <0.1
Diphenamid	ug/l	0.1	N	<0.1
Diphenylamine	ug/l	0.1	N	<0.1
Disulfoton	ug/l	0.1	N	<0.1
Ditalimfos	ug/l	0.1	N	<0.1
Edifenphos	ug/l	0.1	N	<0.1
Endosulphan alpha	ug/l	0.1	N	<0.1
Endosulphan beta	ug/l	0.1	N	<0.1
Endosulphan sulphate	ug/l	0.1	N	<0.1
Endrin	ug/l	0.1	N	<0.1
EPN	ug/l	0.1	N	<0.1
Epoxiconazole	ug/l	0.1	N	<0.1
EPTC	**ug/l**	**0.1**	**N**	**0.3**
Etaconazole	ug/l	0.1	N	<0.1
Ethion	ug/l	0.1	N	<0.1
Ethofumesate	ug/l	0.1	N	<0.1
Ethoprophos	ug/l	0.1	N	<0.1
Ethoxyquin	ug/l	0.1	N	(278) <0.1
Etofenprox	ug/l	0.1	N	<0.1
Etoxazole	ug/l	0.1	N	<0.1
Etridiazole	ug/l	0.1	N	<0.1
Etrimfos	ug/l	0.1	N	<0.1
Famoxadone	ug/l	0.1	N	<0.1
Famphur	ug/l	0.1	N	<0.1
Fenamidone	ug/l	0.1	N	<0.1
Fenamiphos	ug/l	0.1	N	<0.1
Fenarimol	ug/l	0.1	N	<0.1
Fenbuconazole	ug/l	0.1	N	<0.1
Fenchlorphos	ug/l	0.1	N	<0.1
Fenitrothion	ug/l	0.1	N	<0.1
Fenpiclonil	ug/l	0.1	N	<0.1
Fenpropathrin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenson	**ug/l**	**0.1**	**N**	**0.4**
Fensulfothion	ug/l	0.1	N	<0.1
Fenthion	ug/l	0.1	N	<0.1
Fenvalerate	ug/l	0.1	N	<0.1
Fipronil	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Fipronil sulphone	ug/l	0.1	N	<0.1
Flamprop isopropyl	ug/l	0.1	N	<0.1
Fluazifop-P-Butyl	ug/l	0.1	N	<0.1
Flucythrinate	ug/l	0.1	N	<0.1
Fludioxonil	ug/l	0.1	N	<0.1
Flufenacet	ug/l	0.1	N	<0.1
Flumetralin	ug/l	0.1	N	<0.1
Flumioxazin	ug/l	0.1	N	<0.1
Flumorph	ug/l	0.1	N	<0.1
Fluopyram	ug/l	0.1	N	<0.1
Fluquinconazole	ug/l	0.1	N	<0.1
Fluroxypyr-1-methylheptyl ester	ug/l	0.1	N	<0.1
Flusilazole	ug/l	0.1	N	<0.1
Flutolanil	ug/l	0.1	N	<0.1
Fluxapyroxad	ug/l	0.1	N	<0.1
Fonophos	ug/l	0.1	N	<0.1
Formothion	ug/l	0.1	N	<0.1
Furalaxyl	ug/l	0.1	N	<0.1
Haloxyfop etotyl	ug/l	0.1	N	<0.1
Haloxyfop Methyl	ug/l	0.1	N	<0.1
Heptachlor	ug/l	0.1	N	<0.1
Heptachlor epoxide	ug/l	0.1	N	<0.1
Heptachlor exo Epoxide	ug/l	0.1	N	<0.1
Heptenophos	ug/l	0.1	N	<0.1
Hexachlorobenzene	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (alpha)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (beta)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (delta)	ug/l	0.1	N	<0.1
Hexaconazole	ug/l	0.1	N	<0.1
Hexazinone	ug/l	0.1	N	<0.1
Iodofenphos	ug/l	0.1	N	<0.1
Iprodione	ug/l	0.1	N	<0.1
Isazofos	ug/l	0.1	N	<0.1
Isocarbophos	ug/l	0.1	N	<0.1
Isodrin	ug/l	0.1	N	<0.1
Isofenphos	ug/l	0.1	N	<0.1
Isofenphos Methyl	ug/l	0.1	N	<0.1
Isomethiozin	ug/l	0.1	N	<0.1

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Isoprothiolane	ug/l	0.1	N	<0.1	Oxadixyl	ug/l	0.1	N	<0.1
Isopyrazam	ug/l	0.1	N	<0.1	Oxyfluorfen	ug/l	0.1	N	<0.1
Kresoxim Methyl	ug/l	0.1	N	<0.1	p,p-DDD	ug/l	0.1	N	<0.1
Lambda Cyhalothrin	ug/l	0.1	N	<0.1	p,p-DDE	ug/l	0.1	N	<0.1
Lenacil	ug/l	0.1	N	<0.1	p,p-DDT	ug/l	0.1	N	<0.1
Leptophos	ug/l	0.1	N	<0.1	Paclobutrazol	ug/l	0.1	N	<0.1
Lindane	ug/l	0.1	N	<0.1	Paraoxon	ug/l	0.1	N	<0.1
Malathion	ug/l	0.1	N	<0.1	Parathion	ug/l	0.1	N	<0.1
MCPA-thioethyl	ug/l	0.1	N	<0.1	Parathion methyl	ug/l	0.1	N	<0.1
Mecarbam	ug/l	0.1	N	<0.1	Penconazole	ug/l	0.1	N	<0.1
Mepanipyrim	ug/l	0.1	N	<0.1	Pendimethalin	ug/l	0.1	N	<0.1
Mephosfolan	ug/l	0.1	N	<0.1	Pentachloroaniline	ug/l	0.1	N	<0.1
Mepronil	ug/l	0.1	N	<0.1	Pentachlorophenol	ug/l	0.1	N	(278) <0.1
Metalaxyl	ug/l	0.1	N	<0.1	Pentanochlor	ug/l	0.1	N	<0.1
Metazachlor	ug/l	0.1	N	<0.1	Permethrin	ug/l	0.1	N	<0.1
Methacrifos	ug/l	0.1	N	<0.1	Pethoxamid	ug/l	0.1	N	<0.1
Methidathion	ug/l	0.1	N	<0.1	Phenothrin	ug/l	0.1	N	<0.1
Methoxychlor	ug/l	0.1	N	<0.1	Phenthoate	ug/l	0.1	N	<0.1
Methyl Paraoxon	ug/l	0.1	N	<0.1	Phorate	ug/l	0.1	N	<0.1
Metolachlor	ug/l	0.1	N	<0.1	Phosalone	ug/l	0.1	N	<0.1
Metolcarb	ug/l	0.1	N	<0.1	Phosfolan	ug/l	0.1	N	<0.1
Metrafenone	ug/l	0.1	N	<0.1	Picoxystrobin	ug/l	0.1	N	<0.1
Metribuzin	ug/l	0.1	N	<0.1	Piperonyl Butoxide	ug/l	0.1	N	<0.1
Mevinphos	ug/l	0.1	N	<0.1	Pirimicarb	ug/l	0.1	N	<0.1
Mirex	ug/l	0.1	N	<0.1	Pirimiphos Ethyl	ug/l	0.1	N	<0.1
Molinate	ug/l	0.1	N	<0.1	Pirimiphos methyl	ug/l	0.1	N	<0.1
Myclobutanil	ug/l	0.1	N	<0.1	Pretilachlor	ug/l	0.1	N	<0.1
Napropamide	ug/l	0.1	N	<0.1	Procymidone	ug/l	0.1	N	<0.1
Nitrofen	ug/l	0.1	N	<0.1	Profenofos	ug/l	0.1	N	<0.1
Nitrothal isopropyl	ug/l	0.1	N	<0.1	Prometon	ug/l	0.1	N	<0.1
Nuarimol	ug/l	0.1	N	<0.1	Prometryn	ug/l	0.1	N	<0.1
o,p'-DDT	ug/l	0.1	N	<0.1	Propachlor	ug/l	0.1	N	<0.1
o,p-DDD	ug/l	0.1	N	<0.1	Propanil	ug/l	0.1	N	<0.1
o,p-DDE	ug/l	0.1	N	<0.1	Propaphos	ug/l	0.1	N	<0.1
Octylisothiazolon	ug/l	0.1	N	<0.1	Propargite	ug/l	0.1	N	<0.1
Ofurace	ug/l	0.1	N	<0.1	Propazine	ug/l	0.1	N	<0.1
Orysastrobin	ug/l	0.1	N	<0.1	Propetamphos	ug/l	0.1	N	<0.1
Oxadiazon	ug/l	0.1	N	<0.1	Propham	ug/l	0.1	N	<0.1

Report Number : 868550 001
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : BH301
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Propiconazole	ug/l	0.1	N	<0.1
Propyzamide	ug/l	0.1	N	<0.1
Proquinazid	ug/l	0.1	N	<0.1
Prosulfocarb	ug/l	0.1	N	<0.1
Prothiofos	ug/l	0.1	N	<0.1
Pyraclostrobin	ug/l	0.1	N	<0.1
Pyraflufen ethyl	ug/l	0.1	N	<0.1
Pyrazophos	ug/l	0.1	N	<0.1
Pyridaben	ug/l	0.1	N	<0.1
Pyridaphenthion	ug/l	0.1	N	<0.1
Pyrimethanil	ug/l	0.1	N	<0.1
Pyriproxyfen	ug/l	0.1	N	<0.1
Quinalphos	ug/l	0.1	N	<0.1
Quinoxyfen	ug/l	0.1	N	<0.1
Quintozene	ug/l	0.1	N	<0.1
Quizalofop-ethyl	ug/l	0.1	N	<0.1
Secbumeton	ug/l	0.1	N	<0.1
Silafluofen	ug/l	0.1	N	<0.1
Simazine	ug/l	0.1	N	<0.1
Simeconazole	ug/l	0.1	N	<0.1
Sulfallate	ug/l	0.1	N	<0.1
Sulprofos	ug/l	0.1	N	<0.1
Tebuconazole	ug/l	0.1	N	<0.1
Tebufenpyrad	ug/l	0.1	N	<0.1
Tebupirimiphos	ug/l	0.1	N	<0.1
Tecnazene	ug/l	0.1	N	<0.1
Tefluthrin	ug/l	0.1	N	<0.1
Terbacil	ug/l	0.1	N	<0.1
Terbufos	ug/l	0.1	N	<0.1
Terbumeton	ug/l	0.1	N	<0.1
Terbuthylazine	ug/l	0.1	N	<0.1
Terbutryn	ug/l	0.1	N	<0.1
Tetrachlorvinphos	ug/l	0.1	N	<0.1
Tetraconazole	ug/l	0.1	N	<0.1
Tetradifon	ug/l	0.1	N	<0.1
tetraethyl dithiopyrophosphate	ug/l	0.1	N	<0.1
Tetramethrin	ug/l	0.1	N	<0.1
Tetrasul	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Thiamethoxam	ug/l	0.1	N	<0.1
Thiobencarb	ug/l	0.1	N	<0.1
Tolclofos-methyl	ug/l	0.1	N	<0.1
Triadimefon	ug/l	0.1	N	<0.1
Triadimenol	ug/l	0.1	N	<0.1
Triallate	ug/l	0.1	N	<0.1
Triazamate	ug/l	0.1	N	<0.1
Triazophos	ug/l	0.1	N	<0.1
Trifloxystrobin	ug/l	0.1	N	<0.1
Triflumizole	ug/l	0.1	N	(278) <0.1
Trifluralin	ug/l	0.1	N	<0.1
Vinclozolin	ug/l	0.1	N	<0.1
Vinclozolin metabolite 3,5-Dichloroaniline	ug/l	0.1	N	(278) <0.1

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Concept Life Sciences

Certificate of Analysis

Unit 2
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CB23 8UD
Tel : 01954 782791
Fax : 01954 782183

Report Number : 868550 002
Date of Issue : 29-Jul-2020

Customer : Pam Brown Associates
Contact : Dr Melissa Morales
Address : 2 Needwood House, Lancaster Park, Newborough Road, Needwood Burton on Trent, DE13 9PD

Samples Received : 23-Jul-2020
Analysis Started : 24-Jul-2020
Concept Job Reference : 868550-1
Analysis Requested : MRPS by LC (CSOPP603), MRPS by GC (CSOPP611)
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : BH302
Location : Wheathampstead
Sample Description : Water

Results Summary

Analyte	Level Found	Units	LOD	EU MRL mg/kg	CODEX MRL mg/kg	Symbol
MRPS by LC (CSOPP603)						
Chloridazon	**0.1**	ug/l	0.1			N
Fenuron	**0.1**	ug/l	0.1			N
MRPS by GC (CSOPP611)						
2,4,6-Trichlorophenol	**0.8**	ug/l	0.1			N
2-Phenylphenol	**43**	ug/l	0.1			N
Carboxine	(278, 147) **2.0**	ug/l	0.1			N
Chlorpropham	**0.2**	ug/l	0.1			N
Dicofol	**1.4**	ug/l	0.1			N
EPTC	**1.1**	ug/l	0.1			N
Fenson	**25**	ug/l	0.1			N
Mecarbam	**0.1**	ug/l	0.1			N
p,p-DDT	**0.2**	ug/l	0.1			N
Pentachlorophenol	(278, 147) **5.5**	ug/l	0.1			N
Propham	**160**	ug/l	0.1			N

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.
Customers are responsible for information provided where, if incorrect, it could affect the validity of the results.
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 Concept Life Sciences SOPs
All results have been reviewed in accordance with QMSection 15 of the Concept Life Sciences, Analytical Services Quality Manual

Report checked
and authorised by :
Matt Line
Section Manager - Pesticides

Issued by :
Naomi Woodward
Customer Service Advisor

All samples prepared in accordance with the CODEX alimentarius

Index to symbols used in this report

Value	Description
62	LOD was raised due to the method performance of the analytical procedure used
147	Result has been Recovery corrected.
278	Data reported is qualitative as recovery is outside the 60 to 140% range
N	Analysis is not UKAS accredited

Report Number : 868550 002
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : BH302
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
2-(1-Naphthyl)acetamide	ug/l	0.1	N	<0.1
3-hydroxycarbofuran	ug/l	0.1	N	<0.1
6-Benzyladenine	ug/l	0.1	N	<0.1
Acephate	ug/l	0.1	N	<0.1
Acetamiprid	ug/l	0.1	N	<0.1
Acibenzolar-S-methyl	ug/l	0.1	N	<0.1
Aldicarb	ug/l	0.1	N	<0.1
Aldicarb sulphone	ug/l	0.1	N	<0.1
Aldicarb sulphoxide	ug/l	0.1	N	<0.1
Aminocarb	ug/l	0.1	N	<0.1
Azadirachtin	ug/l	0.1	N	<0.1
Azinphos ethyl	ug/l	0.1	N	<0.1
Azinphos methyl	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Bendiocarb	ug/l	0.1	N	<0.1
Benfuracarb	ug/l	0.1	N	(278) <0.1
Butralin	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbendazim	ug/l	0.1	N	<0.1
Carbetamide	ug/l	0.1	N	<0.1
Carbofuran	ug/l	0.1	N	<0.1
Carbosulfan	ug/l	0.1	N	(278) <0.1
Carpropamid	ug/l	0.1	N	<0.1
Chinomethionat	ug/l	0.1	N	<0.1
Chlorantraniliprole	ug/l	0.1	N	<0.1
Chlorbromuron	ug/l	0.1	N	<0.1
Chlorfluazuron	ug/l	0.1	N	<0.1
Chloridazon	**ug/l**	**0.1**	**N**	**0.1**
Chlorotoluron	ug/l	0.1	N	<0.1
Chlorpropham	ug/l	0.1	N	<0.1
Clofentezine	ug/l	0.1	N	<0.1
Clothianidin	ug/l	0.1	N	<0.1
Cyanazine	ug/l	0.1	N	<0.1
Cyazofamid	ug/l	0.1	N	<0.1
Cycluron	ug/l	0.1	N	<0.1
Cymoxanil	ug/l	0.1	N	<0.1
Cythioate	ug/l	0.1	N	<0.1
Demeton	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Demeton-s-methyl	ug/l	0.1	N	<0.1
Demeton-s-methyl sulphone	ug/l	0.1	N	<0.1
Dichlofluanid	ug/l	0.1	N	<0.1
Dicrotophos	ug/l	0.1	N	<0.1
Diethofencarb	ug/l	0.1	N	<0.1
Diflubenzuron	ug/l	0.1	N	<0.1
Dimefuron	ug/l	0.1	N	<0.1
Dimethoate	ug/l	0.1	N	<0.1
Diniconazole	ug/l	0.1	N	<0.1
Dinotefuran	ug/l	0.1	N	<0.1
Dioxacarb	ug/l	0.1	N	(278) <0.1
Disulfoton sulfoxide	ug/l	0.1	N	<0.1
Disulfoton sulphone	ug/l	0.1	N	<0.1
Diuron	ug/l	0.1	N	<0.1
DMSA	ug/l	0.1	N	<0.1
DMST	ug/l	0.1	N	<0.1
Dodemorph	ug/l	0.1	N	(278) <0.1
Dodine	ug/l	0.1	N	<0.1
Emamectin	ug/l	0.1	N	(278) <0.1
Ethidimuron	ug/l	0.1	N	<0.1
Ethiofencarb	ug/l	0.1	N	<0.1
Ethiofencarb sulfone	ug/l	0.1	N	<0.1
Ethiofencarb sulfoxide	ug/l	0.1	N	<0.1
Ethiprole	ug/l	0.1	N	<0.1
Ethirimol	ug/l	0.1	N	<0.1
Fenamiphos sulfone	ug/l	0.1	N	<0.1
Fenamiphos sulfoxide	ug/l	0.1	N	<0.1
Fenazaquin	ug/l	0.1	N	<0.1
Fenchlorphos oxon	ug/l	0.1	N	<0.1
Fenhexamid	ug/l	0.1	N	<0.1
Fenoxycarb	ug/l	0.1	N	<0.1
Fenpropidin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenpyroximate	ug/l	0.1	N	<0.1
Fenthion Sulphone	ug/l	0.1	N	<0.1
Fenthion Sulphoxide	ug/l	0.1	N	<0.1
Fenuron	**ug/l**	**0.1**	**N**	**0.1**
Flonicamid	ug/l	0.1	N	<0.1

Report Number : 868550 002
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : BH302
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Fluazinam	ug/l	0.1	N	<0.1
Flufenoxuron	ug/l	0.1	N	<0.1
Fluometuron	ug/l	0.1	N	<0.1
Fluopicolide	ug/l	0.1	N	<0.1
Fluorochloridone	ug/l	0.1	N	<0.1
Fluoxastrobin	ug/l	0.1	N	<0.1
Flurtamone	ug/l	0.1	N	<0.1
Flutriafol	ug/l	0.1	N	<0.1
Forchlorfenuron	ug/l	0.1	N	<0.1
Fosthiasate	ug/l	0.1	N	<0.1
Fuberidazole	ug/l	0.1	N	<0.1
Furathiocarb	ug/l	0.1	N	<0.1
Hexaflumuron	ug/l	0.1	N	<0.1
Hexythiazox	ug/l	0.1	N	<0.1
Imazalil	ug/l	0.1	N	(278) <0.1
Imibenconazole	ug/l	0.1	N	<0.1
Imidacloprid	ug/l	0.1	N	<0.1
Indoxacarb	ug/l	0.1	N	<0.1
Iprovalicarb	ug/l	0.1	N	<0.1
Isoprocarb	ug/l	0.1	N	<0.1
Isoproturon	ug/l	0.1	N	<0.1
Isoxaben	ug/l	0.1	N	<0.1
Karbutilate	ug/l	0.1	N	<0.1
Linuron	ug/l	0.1	N	<0.1
Lufenuron	ug/l	0.1	N	<0.1
Malaoxon	ug/l	0.1	N	<0.1
Mandipropamid	ug/l	0.1	N	<0.1
Mefenacet	ug/l	0.1	N	<0.1
Metamitron	ug/l	0.1	N	<0.1
Metconazole	ug/l	0.1	N	<0.1
Methabenzthiazuron	ug/l	0.1	N	<0.1
Methamidophos	ug/l	0.1	N	<0.1
Methiocarb	ug/l	0.1	N	<0.1
Methiocarb Sulfone	ug/l	0.1	N	<0.1
Methiocarb Sulfoxide	ug/l	0.1	N	<0.1
Methomyl	ug/l	0.1	N	<0.1
Methoxyfenozide	ug/l	0.1	N	<0.1
Metobromuron	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Metoxuron	ug/l	0.1	N	<0.1
Monocrotophos	ug/l	0.1	N	<0.1
Monolinuron	ug/l	0.1	N	<0.1
Monuron	ug/l	0.1	N	<0.1
Neburon	ug/l	0.1	N	<0.1
Nicotine	ug/l	0.1	N	<0.1
Nitenpyram	ug/l	0.1	N	<0.1
Novaluron	ug/l	0.1	N	<0.1
Omethoate	ug/l	0.1	N	<0.1
Oxadiargyl	ug/l	0.1	N	<0.1
Oxamyl	ug/l	0.1	N	<0.1
Oxycarboxin	ug/l	0.1	N	<0.1
Oxydemeton-Methyl	ug/l	0.1	N	<0.1
Pencycuron	ug/l	0.1	N	<0.1
Phorate sulfone	ug/l	0.1	N	<0.1
Phorate sulfoxide	ug/l	0.1	N	<0.1
Phosmet	ug/l	0.1	N	<0.1
Phosphamidon	ug/l	0.1	N	<0.1
Phoxim	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	<0.1
Prochloraz	ug/l	0.1	N	<0.1
Promecarb	ug/l	0.1	N	<0.1
Propamocarb	ug/l	0.1	N	<0.1
Propaquizafop	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	<0.1
Propoxur	ug/l	0.1	N	<0.1
Pymetrozine	ug/l	0.1	N	<0.1
Pyrifenox	ug/l	0.1	N	<0.1
Resmethrin	ug/l	0.1	N	<0.1
Rotenone	ug/l	0.1	N	<0.1
Spinosad	ug/l	0.1	N	<0.1
Spirodiclofen	ug/l	0.1	N	<0.1
Spiromesifen	ug/l	0.1	N	<0.1
Spiroxamine	ug/l	0.1	N	<0.1
Tebufenozide	ug/l	0.1	N	<0.1
Teflubenzuron	ug/l	0.1	N	<0.1
Temephos	ug/l	0.1	N	<0.1
Terbufos sulfone	ug/l	0.1	N	<0.1

Report Number : 868550 002
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : BH302
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Terbufos sulfoxide	ug/l	0.1	N	<0.1
Thiabendazole	ug/l	0.1	N	<0.1
Thiacloprid	ug/l	0.1	N	<0.1
Thiazafluron	ug/l	0.1	N	<0.1
Thiodicarb	ug/l	0.1	N	<0.1
Thiofanox	ug/l	0.1	N	<0.1
Thiophanate Methyl	ug/l	0.1	N	<0.1
Tolylfluanid	ug/l	0.1	N	<0.1
Trichlorfon	ug/l	0.1	N	<0.1
Tridemorph	ug/l	0.1	N	<0.1
Trifloxysulfuron	ug/l	0.1	N	<0.1
Triflumuron	ug/l	0.1	N	<0.1
Triflusulfuron-methyl	ug/l	0.1	N	<0.1
Triticonazole	ug/l	0.1	N	<0.1
Vamidothion	ug/l	0.1	N	<0.1
Vernolate	ug/l	0.1	N	<0.1
Zoxamide	ug/l	0.1	N	<0.1

Report Number : 868550 002
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : BH302
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
2,4,6-Trichlorophenol	**ug/l**	**0.1**	**N**	**0.8**
2-Phenylphenol	**ug/l**	**0.1**	**N**	**43**
Acetochlor	ug/l	0.1	N	<0.1
Aclonifen	ug/l	0.1	N	<0.1
Acrinathrin	ug/l	0.1	N	<0.1
Alachlor	ug/l	0.1	N	<0.1
Aldrin	ug/l	0.1	N	<0.1
Ametryn	ug/l	0.1	N	<0.1
Atraton	ug/l	0.1	N	<0.1
Atrazine	ug/l	0.1	N	<0.1
Azaconazole	ug/l	0.1	N	<0.1
Azobenzene	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Benalaxyl	ug/l	0.1	N	<0.1
Benfluralin	ug/l	0.1	N	<0.1
Bifenox	ug/l	0.1	N	<0.1
Bifenthrin	ug/l	0.1	N	<0.1
Binapacryl	ug/l	0.1	N	(278) <0.1
Biphenyl	ug/l	1.2	N	(62, 278) <1.2
Bitertanol	ug/l	0.1	N	<0.1
Boscalid	ug/l	0.1	N	<0.1
Bromacil	ug/l	0.1	N	<0.1
Bromophos	ug/l	0.1	N	<0.1
Bromophos-Ethyl	ug/l	0.1	N	<0.1
Bromopropylate	ug/l	0.1	N	<0.1
Bupirimate	ug/l	0.1	N	<0.1
Buprofezine	ug/l	0.1	N	<0.1
Butachlor	ug/l	0.1	N	<0.1
Cadusafos	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbophenothion	ug/l	0.1	N	<0.1
Carboxine	**ug/l**	**0.1**	**N**	(278, 147) **2.0**
Carfentrazone Ethyl	ug/l	0.1	N	<0.1
Chlorobenzilate	ug/l	0.1	N	(278) <0.1
Chlordane (sum of cis and trans isomers)	ug/l	0.1	N	<0.1
Chlordimeform	ug/l	0.1	N	(278) <0.1
Chlorethoxyfos	ug/l	0.1	N	<0.1
Chlorfenapyr	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Chlorfenvinphos	ug/l	0.1	N	<0.1
Chlormephos	ug/l	0.1	N	<0.1
Chloropropylate	ug/l	0.1	N	<0.1
Chlorothalonil	ug/l	0.1	N	<0.1
Chlorpropham	**ug/l**	**0.1**	**N**	**0.2**
Chlorpyrifos	ug/l	0.1	N	<0.1
Chlorpyrifos methyl	ug/l	0.1	N	<0.1
Chlorthal Dimethyl	ug/l	0.1	N	<0.1
Chlorthion	ug/l	0.1	N	<0.1
Chlorthiophos	ug/l	0.1	N	<0.1
Chlozolinate	ug/l	0.1	N	<0.1
Clodinafop Propargyl	ug/l	0.1	N	<0.1
Clomazone	ug/l	0.1	N	<0.1
Cloquintocet mexyl	ug/l	0.1	N	<0.1
Coumaphos	ug/l	0.1	N	<0.1
Cyflufenamid	ug/l	0.1	N	<0.1
Cyfluthrin	ug/l	0.1	N	<0.1
Cypermethrin	ug/l	0.1	N	<0.1
Cyphenothrin	ug/l	0.1	N	<0.1
Cyproconazole	ug/l	0.1	N	<0.1
Cyprodinil	ug/l	0.1	N	<0.1
Deltamethrin	ug/l	0.1	N	<0.1
Desmetryn	ug/l	0.1	N	<0.1
Diafenthiuron	ug/l	0.1	N	<0.1
Dialifos	ug/l	0.1	N	<0.1
Diazinon	ug/l	0.1	N	<0.1
Dichlobenil	ug/l	0.1	N	<0.1
Dichlofenthion	ug/l	0.1	N	<0.1
Dichlorvos	ug/l	0.1	N	<0.1
Diclobutrazol	ug/l	0.1	N	<0.1
Dicloran	ug/l	0.1	N	<0.1
Dicofol	**ug/l**	**0.1**	**N**	**1.4**
Dieldrin	ug/l	0.1	N	<0.1
Difenoconazole	ug/l	0.1	N	<0.1
Diflufenican	ug/l	0.1	N	<0.1
Dimethenamid	ug/l	0.1	N	<0.1
Dimethomorph	ug/l	0.1	N	<0.1
Dimoxystrobin	ug/l	0.1	N	<0.1

Report Number : 868550 002
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : BH302
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Dioxabenzofos	ug/l	0.1	N	(278) <0.1
Diphenamid	ug/l	0.1	N	<0.1
Diphenylamine	ug/l	0.1	N	<0.1
Disulfoton	ug/l	0.1	N	<0.1
Ditalimfos	ug/l	0.1	N	<0.1
Edifenphos	ug/l	0.1	N	<0.1
Endosulphan alpha	ug/l	0.1	N	<0.1
Endosulphan beta	ug/l	0.1	N	<0.1
Endosulphan sulphate	ug/l	0.1	N	<0.1
Endrin	ug/l	0.1	N	<0.1
EPN	ug/l	0.1	N	<0.1
Epoxiconazole	ug/l	0.1	N	<0.1
EPTC	**ug/l**	**0.1**	**N**	**1.1**
Etaconazole	ug/l	0.1	N	<0.1
Ethion	ug/l	0.1	N	<0.1
Ethofumesate	ug/l	0.1	N	<0.1
Ethoprophos	ug/l	0.1	N	<0.1
Ethoxyquin	ug/l	0.1	N	(278) <0.1
Etofenprox	ug/l	0.1	N	<0.1
Etoxazole	ug/l	0.1	N	<0.1
Etridiazole	ug/l	0.1	N	<0.1
Etrimfos	ug/l	0.1	N	<0.1
Famoxadone	ug/l	0.1	N	<0.1
Famphur	ug/l	0.1	N	<0.1
Fenamidone	ug/l	0.1	N	<0.1
Fenamiphos	ug/l	0.1	N	<0.1
Fenarimol	ug/l	0.1	N	<0.1
Fenbuconazole	ug/l	0.1	N	<0.1
Fenchlorphos	ug/l	0.1	N	<0.1
Fenitrothion	ug/l	0.1	N	<0.1
Fenpiclonil	ug/l	0.1	N	<0.1
Fenpropathrin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenson	**ug/l**	**0.1**	**N**	**25**
Fensulfothion	ug/l	0.1	N	<0.1
Fenthion	ug/l	0.1	N	<0.1
Fenvalerate	ug/l	0.1	N	<0.1
Fipronil	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Fipronil sulphone	ug/l	0.1	N	<0.1
Flamprop isopropyl	ug/l	0.1	N	<0.1
Fluazifop-P-Butyl	ug/l	0.1	N	<0.1
Flucythrinate	ug/l	0.1	N	<0.1
Fludioxonil	ug/l	0.1	N	<0.1
Flufenacet	ug/l	0.1	N	<0.1
Flumetralin	ug/l	0.1	N	<0.1
Flumioxazin	ug/l	0.1	N	<0.1
Flumorph	ug/l	0.1	N	<0.1
Fluopyram	ug/l	0.1	N	<0.1
Fluquinconazole	ug/l	0.1	N	<0.1
Fluroxypyr-1-methylheptyl ester	ug/l	0.1	N	<0.1
Flusilazole	ug/l	0.1	N	<0.1
Flutolanil	ug/l	0.1	N	<0.1
Fluxapyroxad	ug/l	0.1	N	<0.1
Fonophos	ug/l	0.1	N	<0.1
Formothion	ug/l	0.1	N	<0.1
Furalaxyl	ug/l	0.1	N	<0.1
Haloxyfop etotyl	ug/l	0.1	N	<0.1
Haloxyfop Methyl	ug/l	0.1	N	<0.1
Heptachlor	ug/l	0.1	N	<0.1
Heptachlor epoxide	ug/l	0.1	N	<0.1
Heptachlor exo Epoxide	ug/l	0.1	N	<0.1
Heptenophos	ug/l	0.1	N	<0.1
Hexachlorobenzene	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (alpha)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (beta)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (delta)	ug/l	0.1	N	<0.1
Hexaconazole	ug/l	0.1	N	<0.1
Hexazinone	ug/l	0.1	N	<0.1
Iodofenphos	ug/l	0.1	N	<0.1
Iprodione	ug/l	0.1	N	<0.1
Isazofos	ug/l	0.1	N	<0.1
Isocarbophos	ug/l	0.1	N	<0.1
Isodrin	ug/l	0.1	N	<0.1
Isofenphos	ug/l	0.1	N	<0.1
Isofenphos Methyl	ug/l	0.1	N	<0.1
Isomethiozin	ug/l	0.1	N	<0.1

Report Number : 868550 002
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : BH302
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Isoprothiolane	ug/l	0.1	N	<0.1
Isopyrazam	ug/l	0.1	N	<0.1
Kresoxim Methyl	ug/l	0.1	N	<0.1
Lambda Cyhalothrin	ug/l	0.1	N	<0.1
Lenacil	ug/l	0.1	N	<0.1
Leptophos	ug/l	0.1	N	<0.1
Lindane	ug/l	0.1	N	<0.1
Malathion	ug/l	0.1	N	<0.1
MCPA-thioethyl	ug/l	0.1	N	<0.1
Mecarbam	**ug/l**	**0.1**	**N**	**0.1**
Mepanipyrim	ug/l	0.1	N	<0.1
Mephosfolan	ug/l	0.1	N	<0.1
Mepronil	ug/l	0.1	N	<0.1
Metalaxyl	ug/l	0.1	N	<0.1
Metazachlor	ug/l	0.1	N	<0.1
Methacrifos	ug/l	0.1	N	<0.1
Methidathion	ug/l	0.1	N	<0.1
Methoxychlor	ug/l	0.1	N	<0.1
Methyl Paraoxon	ug/l	0.1	N	<0.1
Metolachlor	ug/l	0.1	N	<0.1
Metolcarb	ug/l	0.1	N	<0.1
Metrafenone	ug/l	0.1	N	<0.1
Metribuzin	ug/l	0.1	N	<0.1
Mevinphos	ug/l	0.1	N	<0.1
Mirex	ug/l	0.1	N	<0.1
Molinate	ug/l	0.1	N	<0.1
Myclobutanil	ug/l	0.1	N	<0.1
Napropamide	ug/l	0.1	N	<0.1
Nitrofen	ug/l	0.1	N	<0.1
Nitrothal isopropyl	ug/l	0.1	N	<0.1
Nuarimol	ug/l	0.1	N	<0.1
o,p'-DDT	ug/l	0.1	N	<0.1
o,p-DDD	ug/l	0.1	N	<0.1
o,p-DDE	ug/l	0.1	N	<0.1
Octylisothiazolon	ug/l	0.1	N	<0.1
Ofurace	ug/l	0.1	N	<0.1
Orysastrobin	ug/l	0.1	N	<0.1
Oxadiazon	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Oxadixyl	ug/l	0.1	N	<0.1
Oxyfluorfen	ug/l	0.1	N	<0.1
p,p-DDD	ug/l	0.1	N	<0.1
p,p-DDE	ug/l	0.1	N	<0.1
p,p-DDT	**ug/l**	**0.1**	**N**	**0.2**
Paclobutrazol	ug/l	0.1	N	<0.1
Paraoxon	ug/l	0.1	N	<0.1
Parathion	ug/l	0.1	N	<0.1
Parathion methyl	ug/l	0.1	N	<0.1
Penconazole	ug/l	0.1	N	<0.1
Pendimethalin	ug/l	0.1	N	<0.1
Pentachloroaniline	ug/l	0.1	N	<0.1
Pentachlorophenol	**ug/l**	**0.1**	**N**	(278, 147) **5.5**
Pentanochlor	ug/l	0.1	N	<0.1
Permethrin	ug/l	0.1	N	<0.1
Pethoxamid	ug/l	0.1	N	<0.1
Phenothrin	ug/l	0.1	N	<0.1
Phenthoate	ug/l	0.1	N	<0.1
Phorate	ug/l	0.1	N	<0.1
Phosalone	ug/l	0.1	N	<0.1
Phosfolan	ug/l	0.1	N	<0.1
Picoxystrobin	ug/l	0.1	N	<0.1
Piperonyl Butoxide	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	<0.1
Pirimiphos Ethyl	ug/l	0.1	N	<0.1
Pirimiphos methyl	ug/l	0.1	N	<0.1
Pretilachlor	ug/l	0.1	N	<0.1
Procymidone	ug/l	0.1	N	<0.1
Profenofos	ug/l	0.1	N	<0.1
Prometon	ug/l	0.1	N	<0.1
Prometryn	ug/l	0.1	N	<0.1
Propachlor	ug/l	0.1	N	<0.1
Propanil	ug/l	0.1	N	<0.1
Propaphos	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	<0.1
Propazine	ug/l	0.1	N	<0.1
Propetamphos	ug/l	0.1	N	<0.1
Propham	**ug/l**	**0.1**	**N**	**160**

Report Number : 868550 002
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : BH302
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Propiconazole	ug/l	0.1	N	<0.1
Propyzamide	ug/l	0.1	N	<0.1
Proquinazid	ug/l	0.1	N	<0.1
Prosulfocarb	ug/l	0.1	N	<0.1
Prothiofos	ug/l	0.1	N	<0.1
Pyraclostrobin	ug/l	0.1	N	<0.1
Pyraflufen ethyl	ug/l	0.1	N	<0.1
Pyrazophos	ug/l	0.1	N	<0.1
Pyridaben	ug/l	0.1	N	<0.1
Pyridaphenthion	ug/l	0.1	N	<0.1
Pyrimethanil	ug/l	0.1	N	<0.1
Pyriproxyfen	ug/l	0.1	N	<0.1
Quinalphos	ug/l	0.1	N	<0.1
Quinoxyfen	ug/l	0.1	N	<0.1
Quintozene	ug/l	0.1	N	<0.1
Quizalofop-ethyl	ug/l	0.1	N	<0.1
Secbumeton	ug/l	0.1	N	<0.1
Silafluofen	ug/l	0.1	N	<0.1
Simazine	ug/l	0.1	N	<0.1
Simeconazole	ug/l	0.1	N	<0.1
Sulfallate	ug/l	0.1	N	<0.1
Sulprofos	ug/l	0.1	N	<0.1
Tebuconazole	ug/l	0.1	N	<0.1
Tebufenpyrad	ug/l	0.1	N	<0.1
Tebupirimiphos	ug/l	0.1	N	<0.1
Tecnazene	ug/l	0.1	N	<0.1
Tefluthrin	ug/l	0.1	N	<0.1
Terbacil	ug/l	0.1	N	<0.1
Terbufos	ug/l	0.1	N	<0.1
Terbumeton	ug/l	0.1	N	<0.1
Terbuthylazine	ug/l	0.1	N	<0.1
Terbutryn	ug/l	0.1	N	<0.1
Tetrachlorvinphos	ug/l	0.1	N	<0.1
Tetraconazole	ug/l	0.1	N	<0.1
Tetradifon	ug/l	0.1	N	<0.1
tetraethyl dithiopyrophosphate	ug/l	0.1	N	<0.1
Tetramethrin	ug/l	0.1	N	<0.1
Tetrasul	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Thiamethoxam	ug/l	0.1	N	<0.1
Thiobencarb	ug/l	0.1	N	<0.1
Tolclofos-methyl	ug/l	0.1	N	<0.1
Triadimefon	ug/l	0.1	N	<0.1
Triadimenol	ug/l	0.1	N	<0.1
Triallate	ug/l	0.1	N	<0.1
Triazamate	ug/l	0.1	N	<0.1
Triazophos	ug/l	0.1	N	<0.1
Trifloxystrobin	ug/l	0.1	N	<0.1
Triflumizole	ug/l	0.1	N	(278) <0.1
Trifluralin	ug/l	0.1	N	<0.1
Vinclozolin	ug/l	0.1	N	<0.1
Vinclozolin metabolite 3,5-Dichloroaniline	ug/l	0.1	N	(278) <0.1

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Concept Life Sciences

Certificate of Analysis

Unit 2
The Links
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CB23 8UD
Tel : 01954 782791
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Report Number : 868550 003
Date of Issue : 29-Jul-2020

Customer : Pam Brown Associates
Contact : Dr Melissa Morales
Address : 2 Needwood House, Lancaster Park, Newborough Road, Needwood Burton on Trent, DE13 9PD

Samples Received : 23-Jul-2020
Analysis Started : 24-Jul-2020
Concept Job Reference : 868550-1
Analysis Requested : MRPS by LC (CSOPP603), MRPS by GC (CSOPP611)
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : BH303
Location : Wheathampstead
Sample Description : Water

Results Summary

Analyte	Level Found	Units	LOD	EU MRL mg/kg	CODEX MRL mg/kg	Symbol
MRPS by LC (CSOPP603)						
Fenuron	**0.3**	ug/l	0.1			N
MRPS by GC (CSOPP611)						
2-Phenylphenol	**0.6**	ug/l	0.1			N
Carboxine	(147, 278) **2.0**	ug/l	0.1			N
Chlorpropham	**1.4**	ug/l	0.1			N
Dicofol	**0.6**	ug/l	0.1			N
EPTC	**0.4**	ug/l	0.1			N
Fenson	**6.2**	ug/l	0.1			N
Hexachlorocyclohexane (beta)	**0.2**	ug/l	0.1			N
Propham	**10**	ug/l	0.1			N

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.
Customers are responsible for information provided where, if incorrect, it could affect the validity of the results.
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 Concept Life Sciences SOPs
All results have been reviewed in accordance with QMSection 15 of the Concept Life Sciences, Analytical Services Quality Manual
All samples prepared in accordance with the CODEX alimentarius

Report checked
and authorised by :
Matt Line
Section Manager - Pesticides

Issued by :
Naomi Woodward
Customer Service Advisor

Index to symbols used in this report

Value	Description
62	LOD was raised due to the method performance of the analytical procedure used
147	Result has been Recovery corrected.
278	Data reported is qualitative as recovery is outside the 60 to 140% range
N	Analysis is not UKAS accredited

Report Number : 868550 003
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : BH303
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
2-(1-Naphthyl)acetamide	ug/l	0.1	N	<0.1
3-hydroxycarbofuran	ug/l	0.1	N	<0.1
6-Benzyladenine	ug/l	0.1	N	<0.1
Acephate	ug/l	0.1	N	<0.1
Acetamiprid	ug/l	0.1	N	<0.1
Acibenzolar-S-methyl	ug/l	0.1	N	<0.1
Aldicarb	ug/l	0.1	N	<0.1
Aldicarb sulphone	ug/l	0.1	N	<0.1
Aldicarb sulphoxide	ug/l	0.1	N	<0.1
Aminocarb	ug/l	0.1	N	<0.1
Azadirachtin	ug/l	0.1	N	<0.1
Azinphos ethyl	ug/l	0.1	N	<0.1
Azinphos methyl	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Bendiocarb	ug/l	0.1	N	<0.1
Benfuracarb	ug/l	0.1	N	(278) <0.1
Butralin	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbendazim	ug/l	0.1	N	<0.1
Carbetamide	ug/l	0.1	N	<0.1
Carbofuran	ug/l	0.1	N	<0.1
Carbosulfan	ug/l	0.1	N	(278) <0.1
Carpropamid	ug/l	0.1	N	<0.1
Chinomethionat	ug/l	0.1	N	<0.1
Chlorantraniliprole	ug/l	0.1	N	<0.1
Chlorbromuron	ug/l	0.1	N	<0.1
Chlorfluazuron	ug/l	0.1	N	<0.1
Chloridazon	ug/l	0.1	N	<0.1
Chlorotoluron	ug/l	0.1	N	<0.1
Chlorpropham	ug/l	0.1	N	<0.1
Clofentezine	ug/l	0.1	N	<0.1
Clothianidin	ug/l	0.1	N	<0.1
Cyanazine	ug/l	0.1	N	<0.1
Cyazofamid	ug/l	0.1	N	<0.1
Cycluron	ug/l	0.1	N	<0.1
Cymoxanil	ug/l	0.1	N	<0.1
Cythioate	ug/l	0.1	N	<0.1
Demeton	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Demeton-s-methyl	ug/l	0.1	N	<0.1
Demeton-s-methyl sulphone	ug/l	0.1	N	<0.1
Dichlofluanid	ug/l	0.1	N	<0.1
Dicrotophos	ug/l	0.1	N	<0.1
Diethofencarb	ug/l	0.1	N	<0.1
Diflubenzuron	ug/l	0.1	N	<0.1
Dimefuron	ug/l	0.1	N	<0.1
Dimethoate	ug/l	0.1	N	<0.1
Diniconazole	ug/l	0.1	N	<0.1
Dinotefuran	ug/l	0.1	N	<0.1
Dioxacarb	ug/l	0.1	N	(278) <0.1
Disulfoton sulfoxide	ug/l	0.1	N	<0.1
Disulfoton sulphone	ug/l	0.1	N	<0.1
Diuron	ug/l	0.1	N	<0.1
DMSA	ug/l	0.1	N	<0.1
DMST	ug/l	0.1	N	<0.1
Dodemorph	ug/l	0.1	N	(278) <0.1
Dodine	ug/l	0.1	N	<0.1
Emamectin	ug/l	0.1	N	(278) <0.1
Ethidimuron	ug/l	0.1	N	<0.1
Ethiofencarb	ug/l	0.1	N	<0.1
Ethiofencarb sulfone	ug/l	0.1	N	<0.1
Ethiofencarb sulfoxide	ug/l	0.1	N	<0.1
Ethiprole	ug/l	0.1	N	<0.1
Ethirimol	ug/l	0.1	N	<0.1
Fenamiphos sulfone	ug/l	0.1	N	<0.1
Fenamiphos sulfoxide	ug/l	0.1	N	<0.1
Fenazaquin	ug/l	0.1	N	<0.1
Fenchlorphos oxon	ug/l	0.1	N	<0.1
Fenhexamid	ug/l	0.1	N	<0.1
Fenoxycarb	ug/l	0.1	N	<0.1
Fenpropidin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenpyroximate	ug/l	0.1	N	<0.1
Fenthion Sulphone	ug/l	0.1	N	<0.1
Fenthion Sulphoxide	ug/l	0.1	N	<0.1
Fenuron	**ug/l**	**0.1**	**N**	**0.3**
Flonicamid	ug/l	0.1	N	<0.1

Report Number : 868550 003
Client : Pam Brown Associates
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Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : BH303
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Fluazinam	ug/l	0.1	N	<0.1
Flufenoxuron	ug/l	0.1	N	<0.1
Fluometuron	ug/l	0.1	N	<0.1
Fluopicolide	ug/l	0.1	N	<0.1
Fluorochloridone	ug/l	0.1	N	<0.1
Fluoxastrobin	ug/l	0.1	N	<0.1
Flurtamone	ug/l	0.1	N	<0.1
Flutriafol	ug/l	0.1	N	<0.1
Forchlorfenuron	ug/l	0.1	N	<0.1
Fosthiasate	ug/l	0.1	N	<0.1
Fuberidazole	ug/l	0.1	N	<0.1
Furathiocarb	ug/l	0.1	N	<0.1
Hexaflumuron	ug/l	0.1	N	<0.1
Hexythiazox	ug/l	0.1	N	<0.1
Imazalil	ug/l	0.1	N	(278) <0.1
Imibenconazole	ug/l	0.1	N	<0.1
Imidacloprid	ug/l	0.1	N	<0.1
Indoxacarb	ug/l	0.1	N	<0.1
Iprovalicarb	ug/l	0.1	N	<0.1
Isoprocarb	ug/l	0.1	N	<0.1
Isoproturon	ug/l	0.1	N	<0.1
Isoxaben	ug/l	0.1	N	<0.1
Karbutilate	ug/l	0.1	N	<0.1
Linuron	ug/l	0.1	N	<0.1
Lufenuron	ug/l	0.1	N	<0.1
Malaoxon	ug/l	0.1	N	<0.1
Mandipropamid	ug/l	0.1	N	<0.1
Mefenacet	ug/l	0.1	N	<0.1
Metamitron	ug/l	0.1	N	<0.1
Metconazole	ug/l	0.1	N	<0.1
Methabenzthiazuron	ug/l	0.1	N	<0.1
Methamidophos	ug/l	0.1	N	<0.1
Methiocarb	ug/l	0.1	N	<0.1
Methiocarb Sulfone	ug/l	0.1	N	<0.1
Methiocarb Sulfoxide	ug/l	0.1	N	<0.1
Methomyl	ug/l	0.1	N	<0.1
Methoxyfenozide	ug/l	0.1	N	<0.1
Metobromuron	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Metoxuron	ug/l	0.1	N	<0.1
Monocrotophos	ug/l	0.1	N	<0.1
Monolinuron	ug/l	0.1	N	<0.1
Monuron	ug/l	0.1	N	<0.1
Neburon	ug/l	0.1	N	<0.1
Nicotine	ug/l	0.1	N	<0.1
Nitenpyram	ug/l	0.1	N	<0.1
Novaluron	ug/l	0.1	N	<0.1
Omethoate	ug/l	0.1	N	<0.1
Oxadiargyl	ug/l	0.1	N	<0.1
Oxamyl	ug/l	0.1	N	<0.1
Oxycarboxin	ug/l	0.1	N	<0.1
Oxydemeton-Methyl	ug/l	0.1	N	<0.1
Pencycuron	ug/l	0.1	N	<0.1
Phorate sulfone	ug/l	0.1	N	<0.1
Phorate sulfoxide	ug/l	0.1	N	<0.1
Phosmet	ug/l	0.1	N	<0.1
Phosphamidon	ug/l	0.1	N	<0.1
Phoxim	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	<0.1
Prochloraz	ug/l	0.1	N	<0.1
Promecarb	ug/l	0.1	N	<0.1
Propamocarb	ug/l	0.1	N	<0.1
Propaquizafop	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	<0.1
Propoxur	ug/l	0.1	N	<0.1
Pymetrozine	ug/l	0.1	N	<0.1
Pyrifenox	ug/l	0.1	N	<0.1
Resmethrin	ug/l	0.1	N	<0.1
Rotenone	ug/l	0.1	N	<0.1
Spinosad	ug/l	0.1	N	<0.1
Spirodiclofen	ug/l	0.1	N	<0.1
Spiromesifen	ug/l	0.1	N	<0.1
Spiroxamine	ug/l	0.1	N	<0.1
Tebufenozide	ug/l	0.1	N	<0.1
Teflubenzuron	ug/l	0.1	N	<0.1
Temephos	ug/l	0.1	N	<0.1
Terbufos sulfone	ug/l	0.1	N	<0.1

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MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Terbufos sulfoxide	ug/l	0.1	N	<0.1
Thiabendazole	ug/l	0.1	N	<0.1
Thiacloprid	ug/l	0.1	N	<0.1
Thiazafluron	ug/l	0.1	N	<0.1
Thiodicarb	ug/l	0.1	N	<0.1
Thiofanox	ug/l	0.1	N	<0.1
Thiophanate Methyl	ug/l	0.1	N	<0.1
Tolylfluanid	ug/l	0.1	N	<0.1
Trichlorfon	ug/l	0.1	N	<0.1
Tridemorph	ug/l	0.1	N	<0.1
Trifloxysulfuron	ug/l	0.1	N	<0.1
Triflumuron	ug/l	0.1	N	<0.1
Triflusulfuron-methyl	ug/l	0.1	N	<0.1
Triticonazole	ug/l	0.1	N	<0.1
Vamidothion	ug/l	0.1	N	<0.1
Vernolate	ug/l	0.1	N	<0.1
Zoxamide	ug/l	0.1	N	<0.1

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MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
2,4,6-Trichlorophenol	ug/l	0.1	N	<0.1
2-Phenylphenol	**ug/l**	**0.1**	**N**	**0.6**
Acetochlor	ug/l	0.1	N	<0.1
Aclonifen	ug/l	0.1	N	<0.1
Acrinathrin	ug/l	0.1	N	<0.1
Alachlor	ug/l	0.1	N	<0.1
Aldrin	ug/l	0.1	N	<0.1
Ametryn	ug/l	0.1	N	<0.1
Atraton	ug/l	0.1	N	<0.1
Atrazine	ug/l	0.1	N	<0.1
Azaconazole	ug/l	0.1	N	<0.1
Azobenzene	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Benalaxyl	ug/l	0.1	N	<0.1
Benfluralin	ug/l	0.1	N	<0.1
Bifenox	ug/l	0.1	N	<0.1
Bifenthrin	ug/l	0.1	N	<0.1
Binapacryl	ug/l	0.1	N	(278) <0.1
Biphenyl	ug/l	1.2	N	(62, 278) <1.2
Bitertanol	ug/l	0.1	N	<0.1
Boscalid	ug/l	0.1	N	<0.1
Bromacil	ug/l	0.1	N	<0.1
Bromophos	ug/l	0.1	N	<0.1
Bromophos-Ethyl	ug/l	0.1	N	<0.1
Bromopropylate	ug/l	0.1	N	<0.1
Bupirimate	ug/l	0.1	N	<0.1
Buprofezine	ug/l	0.1	N	<0.1
Butachlor	ug/l	0.1	N	<0.1
Cadusafos	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbophenothion	ug/l	0.1	N	<0.1
Carboxine	**ug/l**	**0.1**	**N**	(147, 278) **2.0**
Carfentrazone Ethyl	ug/l	0.1	N	<0.1
Chlorobenzilate	ug/l	0.1	N	(278) <0.1
Chlordane (sum of cis and trans isomers)	ug/l	0.1	N	<0.1
Chlordimeform	ug/l	0.1	N	(278) <0.1
Chlorethoxyfos	ug/l	0.1	N	<0.1
Chlorfenapyr	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Chlorfenvinphos	ug/l	0.1	N	<0.1
Chlormephos	ug/l	0.1	N	<0.1
Chloropropylate	ug/l	0.1	N	<0.1
Chlorothalonil	ug/l	0.1	N	<0.1
Chlorpropham	**ug/l**	**0.1**	**N**	**1.4**
Chlorpyrifos	ug/l	0.1	N	<0.1
Chlorpyrifos methyl	ug/l	0.1	N	<0.1
Chlorthal Dimethyl	ug/l	0.1	N	<0.1
Chlorthion	ug/l	0.1	N	<0.1
Chlorthiophos	ug/l	0.1	N	<0.1
Chlozolinate	ug/l	0.1	N	<0.1
Clodinafop Propargyl	ug/l	0.1	N	<0.1
Clomazone	ug/l	0.1	N	<0.1
Cloquintocet mexyl	ug/l	0.1	N	<0.1
Coumaphos	ug/l	0.1	N	<0.1
Cyflufenamid	ug/l	0.1	N	<0.1
Cyfluthrin	ug/l	0.1	N	<0.1
Cypermethrin	ug/l	0.1	N	<0.1
Cyphenothrin	ug/l	0.1	N	<0.1
Cyproconazole	ug/l	0.1	N	<0.1
Cyprodinil	ug/l	0.1	N	<0.1
Deltamethrin	ug/l	0.1	N	<0.1
Desmetryn	ug/l	0.1	N	<0.1
Diafenthiuron	ug/l	0.1	N	<0.1
Dialifos	ug/l	0.1	N	<0.1
Diazinon	ug/l	0.1	N	<0.1
Dichlobenil	ug/l	0.1	N	<0.1
Dichlofenthion	ug/l	0.1	N	<0.1
Dichlorvos	ug/l	0.1	N	<0.1
Diclobutrazol	ug/l	0.1	N	<0.1
Dicloran	ug/l	0.1	N	<0.1
Dicofol	**ug/l**	**0.1**	**N**	**0.6**
Dieldrin	ug/l	0.1	N	<0.1
Difenoconazole	ug/l	0.1	N	<0.1
Diflufenican	ug/l	0.1	N	<0.1
Dimethenamid	ug/l	0.1	N	<0.1
Dimethomorph	ug/l	0.1	N	<0.1
Dimoxystrobin	ug/l	0.1	N	<0.1

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MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Dioxabenzofos	ug/l	0.1	N	(278) <0.1
Diphenamid	ug/l	0.1	N	<0.1
Diphenylamine	ug/l	0.1	N	<0.1
Disulfoton	ug/l	0.1	N	<0.1
Ditalimfos	ug/l	0.1	N	<0.1
Edifenphos	ug/l	0.1	N	<0.1
Endosulphan alpha	ug/l	0.1	N	<0.1
Endosulphan beta	ug/l	0.1	N	<0.1
Endosulphan sulphate	ug/l	0.1	N	<0.1
Endrin	ug/l	0.1	N	<0.1
EPN	ug/l	0.1	N	<0.1
Epoxiconazole	ug/l	0.1	N	<0.1
EPTC	**ug/l**	**0.1**	**N**	**0.4**
Etaconazole	ug/l	0.1	N	<0.1
Ethion	ug/l	0.1	N	<0.1
Ethofumesate	ug/l	0.1	N	<0.1
Ethoprophos	ug/l	0.1	N	<0.1
Ethoxyquin	ug/l	0.1	N	(278) <0.1
Etofenprox	ug/l	0.1	N	<0.1
Etoxazole	ug/l	0.1	N	<0.1
Etridiazole	ug/l	0.1	N	<0.1
Etrimfos	ug/l	0.1	N	<0.1
Famoxadone	ug/l	0.1	N	<0.1
Famphur	ug/l	0.1	N	<0.1
Fenamidone	ug/l	0.1	N	<0.1
Fenamiphos	ug/l	0.1	N	<0.1
Fenarimol	ug/l	0.1	N	<0.1
Fenbuconazole	ug/l	0.1	N	<0.1
Fenchlorphos	ug/l	0.1	N	<0.1
Fenitrothion	ug/l	0.1	N	<0.1
Fenpiclonil	ug/l	0.1	N	<0.1
Fenpropathrin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenson	**ug/l**	**0.1**	**N**	**6.2**
Fensulfothion	ug/l	0.1	N	<0.1
Fenthion	ug/l	0.1	N	<0.1
Fenvalerate	ug/l	0.1	N	<0.1
Fipronil	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Fipronil sulphone	ug/l	0.1	N	<0.1
Flamprop isopropyl	ug/l	0.1	N	<0.1
Fluazifop-P-Butyl	ug/l	0.1	N	<0.1
Flucythrinate	ug/l	0.1	N	<0.1
Fludioxonil	ug/l	0.1	N	<0.1
Flufenacet	ug/l	0.1	N	<0.1
Flumetralin	ug/l	0.1	N	<0.1
Flumioxazin	ug/l	0.1	N	<0.1
Flumorph	ug/l	0.1	N	<0.1
Fluopyram	ug/l	0.1	N	<0.1
Fluquinconazole	ug/l	0.1	N	<0.1
Fluroxypyr-1-methylheptyl ester	ug/l	0.1	N	<0.1
Flusilazole	ug/l	0.1	N	<0.1
Flutolanil	ug/l	0.1	N	<0.1
Fluxapyroxad	ug/l	0.1	N	<0.1
Fonophos	ug/l	0.1	N	<0.1
Formothion	ug/l	0.1	N	<0.1
Furalaxyl	ug/l	0.1	N	<0.1
Haloxyfop etotyl	ug/l	0.1	N	<0.1
Haloxyfop Methyl	ug/l	0.1	N	<0.1
Heptachlor	ug/l	0.1	N	<0.1
Heptachlor epoxide	ug/l	0.1	N	<0.1
Heptachlor exo Epoxide	ug/l	0.1	N	<0.1
Heptenophos	ug/l	0.1	N	<0.1
Hexachlorobenzene	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (alpha)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (beta)	**ug/l**	**0.1**	**N**	**0.2**
Hexachlorocyclohexane (delta)	ug/l	0.1	N	<0.1
Hexaconazole	ug/l	0.1	N	<0.1
Hexazinone	ug/l	0.1	N	<0.1
Iodofenphos	ug/l	0.1	N	<0.1
Iprodione	ug/l	0.1	N	<0.1
Isazofos	ug/l	0.1	N	<0.1
Isocarbophos	ug/l	0.1	N	<0.1
Isodrin	ug/l	0.1	N	<0.1
Isofenphos	ug/l	0.1	N	<0.1
Isofenphos Methyl	ug/l	0.1	N	<0.1
Isomethiozin	ug/l	0.1	N	<0.1

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MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Isoprothiolane	ug/l	0.1	N	<0.1
Isopyrazam	ug/l	0.1	N	<0.1
Kresoxim Methyl	ug/l	0.1	N	<0.1
Lambda Cyhalothrin	ug/l	0.1	N	<0.1
Lenacil	ug/l	0.1	N	<0.1
Leptophos	ug/l	0.1	N	<0.1
Lindane	ug/l	0.1	N	<0.1
Malathion	ug/l	0.1	N	<0.1
MCPA-thioethyl	ug/l	0.1	N	<0.1
Mecarbam	ug/l	0.1	N	<0.1
Mepanipyrim	ug/l	0.1	N	<0.1
Mephosfolan	ug/l	0.1	N	<0.1
Mepronil	ug/l	0.1	N	<0.1
Metalaxyl	ug/l	0.1	N	<0.1
Metazachlor	ug/l	0.1	N	<0.1
Methacrifos	ug/l	0.1	N	<0.1
Methidathion	ug/l	0.1	N	<0.1
Methoxychlor	ug/l	0.1	N	<0.1
Methyl Paraoxon	ug/l	0.1	N	<0.1
Metolachlor	ug/l	0.1	N	<0.1
Metolcarb	ug/l	0.1	N	<0.1
Metrafenone	ug/l	0.1	N	<0.1
Metribuzin	ug/l	0.1	N	<0.1
Mevinphos	ug/l	0.1	N	<0.1
Mirex	ug/l	0.1	N	<0.1
Molinate	ug/l	0.1	N	<0.1
Myclobutanil	ug/l	0.1	N	<0.1
Napropamide	ug/l	0.1	N	<0.1
Nitrofen	ug/l	0.1	N	<0.1
Nitrothal isopropyl	ug/l	0.1	N	<0.1
Nuarimol	ug/l	0.1	N	<0.1
o,p'-DDT	ug/l	0.1	N	<0.1
o,p-DDD	ug/l	0.1	N	<0.1
o,p-DDE	ug/l	0.1	N	<0.1
Octylisothiazolon	ug/l	0.1	N	<0.1
Ofurace	ug/l	0.1	N	<0.1
Orysastrobin	ug/l	0.1	N	<0.1
Oxadiazon	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Oxadixyl	ug/l	0.1	N	<0.1
Oxyfluorfen	ug/l	0.1	N	<0.1
p,p-DDD	ug/l	0.1	N	<0.1
p,p-DDE	ug/l	0.1	N	<0.1
p,p-DDT	ug/l	0.1	N	<0.1
Paclobutrazol	ug/l	0.1	N	<0.1
Paraoxon	ug/l	0.1	N	<0.1
Parathion	ug/l	0.1	N	<0.1
Parathion methyl	ug/l	0.1	N	<0.1
Penconazole	ug/l	0.1	N	<0.1
Pendimethalin	ug/l	0.1	N	<0.1
Pentachloroaniline	ug/l	0.1	N	<0.1
Pentachlorophenol	ug/l	0.1	N	(278) <0.1
Pentanochlor	ug/l	0.1	N	<0.1
Permethrin	ug/l	0.1	N	<0.1
Pethoxamid	ug/l	0.1	N	<0.1
Phenothrin	ug/l	0.1	N	<0.1
Phenthoate	ug/l	0.1	N	<0.1
Phorate	ug/l	0.1	N	<0.1
Phosalone	ug/l	0.1	N	<0.1
Phosfolan	ug/l	0.1	N	<0.1
Picoxystrobin	ug/l	0.1	N	<0.1
Piperonyl Butoxide	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	<0.1
Pirimiphos Ethyl	ug/l	0.1	N	<0.1
Pirimiphos methyl	ug/l	0.1	N	<0.1
Pretilachlor	ug/l	0.1	N	<0.1
Procymidone	ug/l	0.1	N	<0.1
Profenofos	ug/l	0.1	N	<0.1
Prometon	ug/l	0.1	N	<0.1
Prometryn	ug/l	0.1	N	<0.1
Propachlor	ug/l	0.1	N	<0.1
Propanil	ug/l	0.1	N	<0.1
Propaphos	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	<0.1
Propazine	ug/l	0.1	N	<0.1
Propetamphos	ug/l	0.1	N	<0.1
Propham	**ug/l**	**0.1**	**N**	**10**

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MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Propiconazole	ug/l	0.1	N	<0.1
Propyzamide	ug/l	0.1	N	<0.1
Proquinazid	ug/l	0.1	N	<0.1
Prosulfocarb	ug/l	0.1	N	<0.1
Prothiofos	ug/l	0.1	N	<0.1
Pyraclostrobin	ug/l	0.1	N	<0.1
Pyraflufen ethyl	ug/l	0.1	N	<0.1
Pyrazophos	ug/l	0.1	N	<0.1
Pyridaben	ug/l	0.1	N	<0.1
Pyridaphenthion	ug/l	0.1	N	<0.1
Pyrimethanil	ug/l	0.1	N	<0.1
Pyriproxyfen	ug/l	0.1	N	<0.1
Quinalphos	ug/l	0.1	N	<0.1
Quinoxyfen	ug/l	0.1	N	<0.1
Quintozene	ug/l	0.1	N	<0.1
Quizalofop-ethyl	ug/l	0.1	N	<0.1
Secbumeton	ug/l	0.1	N	<0.1
Silafluofen	ug/l	0.1	N	<0.1
Simazine	ug/l	0.1	N	<0.1
Simeconazole	ug/l	0.1	N	<0.1
Sulfallate	ug/l	0.1	N	<0.1
Sulprofos	ug/l	0.1	N	<0.1
Tebuconazole	ug/l	0.1	N	<0.1
Tebufenpyrad	ug/l	0.1	N	<0.1
Tebupirimiphos	ug/l	0.1	N	<0.1
Tecnazene	ug/l	0.1	N	<0.1
Tefluthrin	ug/l	0.1	N	<0.1
Terbacil	ug/l	0.1	N	<0.1
Terbufos	ug/l	0.1	N	<0.1
Terbumeton	ug/l	0.1	N	<0.1
Terbuthylazine	ug/l	0.1	N	<0.1
Terbutryn	ug/l	0.1	N	<0.1
Tetrachlorvinphos	ug/l	0.1	N	<0.1
Tetraconazole	ug/l	0.1	N	<0.1
Tetradifon	ug/l	0.1	N	<0.1
tetraethyl dithiopyrophosphate	ug/l	0.1	N	<0.1
Tetramethrin	ug/l	0.1	N	<0.1
Tetrasul	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Thiamethoxam	ug/l	0.1	N	<0.1
Thiobencarb	ug/l	0.1	N	<0.1
Tolclofos-methyl	ug/l	0.1	N	<0.1
Triadimefon	ug/l	0.1	N	<0.1
Triadimenol	ug/l	0.1	N	<0.1
Triallate	ug/l	0.1	N	<0.1
Triazamate	ug/l	0.1	N	<0.1
Triazophos	ug/l	0.1	N	<0.1
Trifloxystrobin	ug/l	0.1	N	<0.1
Triflumizole	ug/l	0.1	N	(278) <0.1
Trifluralin	ug/l	0.1	N	<0.1
Vinclozolin	ug/l	0.1	N	<0.1
Vinclozolin metabolite 3,5-Dichloroaniline	ug/l	0.1	N	(278) <0.1

CONCEPT LIFE SCIENCES
DELIVERING SCIENCE

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Concept Life Sciences

Certificate of Analysis

Unit 2
The Links
Bar Hill
Cambridgeshire
CB23 8UD
Tel : 01954 782791
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Report Number : 868550 004
Date of Issue : 29-Jul-2020

Customer : Pam Brown Associates
Contact : Dr Melissa Morales
Address : 2 Needwood House, Lancaster Park, Newborough Road, Needwood Burton on Trent, DE13 9PD

Samples Received : 23-Jul-2020
Analysis Started : 24-Jul-2020
Concept Job Reference : 868550-1
Analysis Requested : MRPS by LC (CSOPP603), MRPS by GC (CSOPP611)
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : BH304
Location : Wheathampstead
Sample Description : Water

Results Summary

Analyte	Level Found	Units	LOD	EU MRL mg/kg	CODEX MRL mg/kg	Symbol
MRPS by LC (CSOPP603)						
Fenuron	**0.2**	ug/l	0.1			N
MRPS by GC (CSOPP611)						
Carboxine	(278, 147) **0.6**	ug/l	0.1			N
Dicofol	**0.3**	ug/l	0.1			N
EPTC	**0.8**	ug/l	0.1			N
Fenson	**4.0**	ug/l	0.1			N
Hexachlorocyclohexane (beta)	**0.1**	ug/l	0.1			N
Propham	**1.3**	ug/l	0.1			N

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.
Customers are responsible for information provided where, if incorrect, it could affect the validity of the results.
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 Concept Life Sciences SOPs
All results have been reviewed in accordance with QMSection 15 of the Concept Life Sciences, Analytical Services Quality Manual
All samples prepared in accordance with the CODEX alimentarius

Report checked
and authorised by :
Matt Line
Section Manager - Pesticides

Issued by :
Naomi Woodward
Customer Service Advisor

Index to symbols used in this report

Value	Description
62	LOD was raised due to the method performance of the analytical procedure used
147	Result has been Recovery corrected.
278	Data reported is qualitative as recovery is outside the 60 to 140% range
N	Analysis is not UKAS accredited

Report Number : 868550 004
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : BH304
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
2-(1-Naphthyl)acetamide	ug/l	0.1	N	<0.1
3-hydroxycarbofuran	ug/l	0.1	N	<0.1
6-Benzyladenine	ug/l	0.1	N	<0.1
Acephate	ug/l	0.1	N	<0.1
Acetamiprid	ug/l	0.1	N	<0.1
Acibenzolar-S-methyl	ug/l	0.1	N	<0.1
Aldicarb	ug/l	0.1	N	<0.1
Aldicarb sulphone	ug/l	0.1	N	<0.1
Aldicarb sulphoxide	ug/l	0.1	N	<0.1
Aminocarb	ug/l	0.1	N	<0.1
Azadirachtin	ug/l	0.1	N	<0.1
Azinphos ethyl	ug/l	0.1	N	<0.1
Azinphos methyl	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Bendiocarb	ug/l	0.1	N	<0.1
Benfuracarb	ug/l	0.1	N	(278) <0.1
Butralin	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbendazim	ug/l	0.1	N	<0.1
Carbetamide	ug/l	0.1	N	<0.1
Carbofuran	ug/l	0.1	N	<0.1
Carbosulfan	ug/l	0.1	N	(278) <0.1
Carpropamid	ug/l	0.1	N	<0.1
Chinomethionat	ug/l	0.1	N	<0.1
Chlorantraniliprole	ug/l	0.1	N	<0.1
Chlorbromuron	ug/l	0.1	N	<0.1
Chlorfluazuron	ug/l	0.1	N	<0.1
Chloridazon	ug/l	0.1	N	<0.1
Chlorotoluron	ug/l	0.1	N	<0.1
Chlorpropham	ug/l	0.1	N	<0.1
Clofentezine	ug/l	0.1	N	<0.1
Clothianidin	ug/l	0.1	N	<0.1
Cyanazine	ug/l	0.1	N	<0.1
Cyazofamid	ug/l	0.1	N	<0.1
Cycluron	ug/l	0.1	N	<0.1
Cymoxanil	ug/l	0.1	N	<0.1
Cythioate	ug/l	0.1	N	<0.1
Demeton	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Demeton-s-methyl	ug/l	0.1	N	<0.1
Demeton-s-methyl sulphone	ug/l	0.1	N	<0.1
Dichlofluanid	ug/l	0.1	N	<0.1
Dicrotophos	ug/l	0.1	N	<0.1
Diethofencarb	ug/l	0.1	N	<0.1
Diflubenzuron	ug/l	0.1	N	<0.1
Dimefuron	ug/l	0.1	N	<0.1
Dimethoate	ug/l	0.1	N	<0.1
Diniconazole	ug/l	0.1	N	<0.1
Dinotefuran	ug/l	0.1	N	<0.1
Dioxacarb	ug/l	0.1	N	(278) <0.1
Disulfoton sulfoxide	ug/l	0.1	N	<0.1
Disulfoton sulphone	ug/l	0.1	N	<0.1
Diuron	ug/l	0.1	N	<0.1
DMSA	ug/l	0.1	N	<0.1
DMST	ug/l	0.1	N	<0.1
Dodemorph	ug/l	0.1	N	(278) <0.1
Dodine	ug/l	0.1	N	<0.1
Emamectin	ug/l	0.1	N	(278) <0.1
Ethidimuron	ug/l	0.1	N	<0.1
Ethiofencarb	ug/l	0.1	N	<0.1
Ethiofencarb sulfone	ug/l	0.1	N	<0.1
Ethiofencarb sulfoxide	ug/l	0.1	N	<0.1
Ethiprole	ug/l	0.1	N	<0.1
Ethirimol	ug/l	0.1	N	<0.1
Fenamiphos sulfone	ug/l	0.1	N	<0.1
Fenamiphos sulfoxide	ug/l	0.1	N	<0.1
Fenazaquin	ug/l	0.1	N	<0.1
Fenchlorphos oxon	ug/l	0.1	N	<0.1
Fenhexamid	ug/l	0.1	N	<0.1
Fenoxycarb	ug/l	0.1	N	<0.1
Fenpropidin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenpyroximate	ug/l	0.1	N	<0.1
Fenthion Sulphone	ug/l	0.1	N	<0.1
Fenthion Sulphoxide	ug/l	0.1	N	<0.1
Fenuron	**ug/l**	**0.1**	**N**	**0.2**
Flonicamid	ug/l	0.1	N	<0.1

Report Number : 868550 004
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : BH304
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Fluazinam	ug/l	0.1	N	<0.1
Flufenoxuron	ug/l	0.1	N	<0.1
Fluometuron	ug/l	0.1	N	<0.1
Fluopicolide	ug/l	0.1	N	<0.1
Fluorochloridone	ug/l	0.1	N	<0.1
Fluoxastrobin	ug/l	0.1	N	<0.1
Flurtamone	ug/l	0.1	N	<0.1
Flutriafol	ug/l	0.1	N	<0.1
Forchlorfenuron	ug/l	0.1	N	<0.1
Fosthiasate	ug/l	0.1	N	<0.1
Fuberidazole	ug/l	0.1	N	<0.1
Furathiocarb	ug/l	0.1	N	<0.1
Hexaflumuron	ug/l	0.1	N	<0.1
Hexythiazox	ug/l	0.1	N	<0.1
Imazalil	ug/l	0.1	N	(278) <0.1
Imibenconazole	ug/l	0.1	N	<0.1
Imidacloprid	ug/l	0.1	N	<0.1
Indoxacarb	ug/l	0.1	N	<0.1
Iprovalicarb	ug/l	0.1	N	<0.1
Isoprocarb	ug/l	0.1	N	<0.1
Isoproturon	ug/l	0.1	N	<0.1
Isoxaben	ug/l	0.1	N	<0.1
Karbutilate	ug/l	0.1	N	<0.1
Linuron	ug/l	0.1	N	<0.1
Lufenuron	ug/l	0.1	N	<0.1
Malaoxon	ug/l	0.1	N	<0.1
Mandipropamid	ug/l	0.1	N	<0.1
Mefenacet	ug/l	0.1	N	<0.1
Metamitron	ug/l	0.1	N	<0.1
Metconazole	ug/l	0.1	N	<0.1
Methabenzthiazuron	ug/l	0.1	N	<0.1
Methamidophos	ug/l	0.1	N	<0.1
Methiocarb	ug/l	0.1	N	<0.1
Methiocarb Sulfone	ug/l	0.1	N	<0.1
Methiocarb Sulfoxide	ug/l	0.1	N	<0.1
Methomyl	ug/l	0.1	N	<0.1
Methoxyfenozide	ug/l	0.1	N	<0.1
Metobromuron	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Metoxuron	ug/l	0.1	N	<0.1
Monocrotophos	ug/l	0.1	N	<0.1
Monolinuron	ug/l	0.1	N	<0.1
Monuron	ug/l	0.1	N	<0.1
Neburon	ug/l	0.1	N	<0.1
Nicotine	ug/l	0.1	N	<0.1
Nitenpyram	ug/l	0.1	N	<0.1
Novaluron	ug/l	0.1	N	<0.1
Omethoate	ug/l	0.1	N	<0.1
Oxadiargyl	ug/l	0.1	N	<0.1
Oxamyl	ug/l	0.1	N	<0.1
Oxycarboxin	ug/l	0.1	N	<0.1
Oxydemeton-Methyl	ug/l	0.1	N	<0.1
Pencycuron	ug/l	0.1	N	<0.1
Phorate sulfone	ug/l	0.1	N	<0.1
Phorate sulfoxide	ug/l	0.1	N	<0.1
Phosmet	ug/l	0.1	N	<0.1
Phosphamidon	ug/l	0.1	N	<0.1
Phoxim	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	<0.1
Prochloraz	ug/l	0.1	N	<0.1
Promecarb	ug/l	0.1	N	<0.1
Propamocarb	ug/l	0.1	N	<0.1
Propaquizafop	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	<0.1
Propoxur	ug/l	0.1	N	<0.1
Pymetrozine	ug/l	0.1	N	<0.1
Pyrifenox	ug/l	0.1	N	<0.1
Resmethrin	ug/l	0.1	N	<0.1
Rotenone	ug/l	0.1	N	<0.1
Spinosad	ug/l	0.1	N	<0.1
Spirodiclofen	ug/l	0.1	N	<0.1
Spiromesifen	ug/l	0.1	N	<0.1
Spiroxamine	ug/l	0.1	N	<0.1
Tebufenozide	ug/l	0.1	N	<0.1
Teflubenzuron	ug/l	0.1	N	<0.1
Temephos	ug/l	0.1	N	<0.1
Terbufos sulfone	ug/l	0.1	N	<0.1

Report Number : 868550 004
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : BH304
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Terbufos sulfoxide	ug/l	0.1	N	<0.1
Thiabendazole	ug/l	0.1	N	<0.1
Thiacloprid	ug/l	0.1	N	<0.1
Thiazafluron	ug/l	0.1	N	<0.1
Thiodicarb	ug/l	0.1	N	<0.1
Thiofanox	ug/l	0.1	N	<0.1
Thiophanate Methyl	ug/l	0.1	N	<0.1
Tolylfluanid	ug/l	0.1	N	<0.1
Trichlorfon	ug/l	0.1	N	<0.1
Tridemorph	ug/l	0.1	N	<0.1
Trifloxysulfuron	ug/l	0.1	N	<0.1
Triflumuron	ug/l	0.1	N	<0.1
Triflusulfuron-methyl	ug/l	0.1	N	<0.1
Triticonazole	ug/l	0.1	N	<0.1
Vamidothion	ug/l	0.1	N	<0.1
Vernolate	ug/l	0.1	N	<0.1
Zoxamide	ug/l	0.1	N	<0.1

Report Number : 868550 004
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : BH304
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
2,4,6-Trichlorophenol	ug/l	0.1	N	<0.1
2-Phenylphenol	ug/l	0.1	N	<0.1
Acetochlor	ug/l	0.1	N	<0.1
Aclonifen	ug/l	0.1	N	<0.1
Acrinathrin	ug/l	0.1	N	<0.1
Alachlor	ug/l	0.1	N	<0.1
Aldrin	ug/l	0.1	N	<0.1
Ametryn	ug/l	0.1	N	<0.1
Atraton	ug/l	0.1	N	<0.1
Atrazine	ug/l	0.1	N	<0.1
Azaconazole	ug/l	0.1	N	<0.1
Azobenzene	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Benalaxyl	ug/l	0.1	N	<0.1
Benfluralin	ug/l	0.1	N	<0.1
Bifenox	ug/l	0.1	N	<0.1
Bifenthrin	ug/l	0.1	N	<0.1
Binapacryl	ug/l	0.1	N	(278) <0.1
Biphenyl	ug/l	1.2	N	(62, 278) <1.2
Bitertanol	ug/l	0.1	N	<0.1
Boscalid	ug/l	0.1	N	<0.1
Bromacil	ug/l	0.1	N	<0.1
Bromophos	ug/l	0.1	N	<0.1
Bromophos-Ethyl	ug/l	0.1	N	<0.1
Bromopropylate	ug/l	0.1	N	<0.1
Bupirimate	ug/l	0.1	N	<0.1
Buprofezine	ug/l	0.1	N	<0.1
Butachlor	ug/l	0.1	N	<0.1
Cadusafos	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbophenothion	ug/l	0.1	N	<0.1
Carboxine	**ug/l**	**0.1**	**N**	(278, 147) **0.6**
Carfentrazone Ethyl	ug/l	0.1	N	<0.1
Chlorobenzilate	ug/l	0.1	N	(278) <0.1
Chlordane (sum of cis and trans isomers)	ug/l	0.1	N	<0.1
Chlordimeform	ug/l	0.1	N	(278) <0.1
Chlorethoxyfos	ug/l	0.1	N	<0.1
Chlorfenapyr	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Chlorfenvinphos	ug/l	0.1	N	<0.1
Chlormephos	ug/l	0.1	N	<0.1
Chloropropylate	ug/l	0.1	N	<0.1
Chlorothalonil	ug/l	0.1	N	<0.1
Chlorpropham	ug/l	0.1	N	<0.1
Chlorpyrifos	ug/l	0.1	N	<0.1
Chlorpyrifos methyl	ug/l	0.1	N	<0.1
Chlorthal Dimethyl	ug/l	0.1	N	<0.1
Chlorthion	ug/l	0.1	N	<0.1
Chlorthiophos	ug/l	0.1	N	<0.1
Chlozolinate	ug/l	0.1	N	<0.1
Clodinafop Propargyl	ug/l	0.1	N	<0.1
Clomazone	ug/l	0.1	N	<0.1
Cloquintocet mexyl	ug/l	0.1	N	<0.1
Coumaphos	ug/l	0.1	N	<0.1
Cyflufenamid	ug/l	0.1	N	<0.1
Cyfluthrin	ug/l	0.1	N	<0.1
Cypermethrin	ug/l	0.1	N	<0.1
Cyphenothrin	ug/l	0.1	N	<0.1
Cyproconazole	ug/l	0.1	N	<0.1
Cyprodinil	ug/l	0.1	N	<0.1
Deltamethrin	ug/l	0.1	N	<0.1
Desmetryn	ug/l	0.1	N	<0.1
Diafenthiuron	ug/l	0.1	N	<0.1
Dialifos	ug/l	0.1	N	<0.1
Diazinon	ug/l	0.1	N	<0.1
Dichlobenil	ug/l	0.1	N	<0.1
Dichlofenthion	ug/l	0.1	N	<0.1
Dichlorvos	ug/l	0.1	N	<0.1
Diclobutrazol	ug/l	0.1	N	<0.1
Dicloran	ug/l	0.1	N	<0.1
Dicofol	**ug/l**	**0.1**	**N**	**0.3**
Dieldrin	ug/l	0.1	N	<0.1
Difenoconazole	ug/l	0.1	N	<0.1
Diflufenican	ug/l	0.1	N	<0.1
Dimethenamid	ug/l	0.1	N	<0.1
Dimethomorph	ug/l	0.1	N	<0.1
Dimoxystrobin	ug/l	0.1	N	<0.1

Report Number : 868550 004
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : BH304
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Dioxabenzofos	ug/l	0.1	N	(278) <0.1
Diphenamid	ug/l	0.1	N	<0.1
Diphenylamine	ug/l	0.1	N	<0.1
Disulfoton	ug/l	0.1	N	<0.1
Ditalimfos	ug/l	0.1	N	<0.1
Edifenphos	ug/l	0.1	N	<0.1
Endosulphan alpha	ug/l	0.1	N	<0.1
Endosulphan beta	ug/l	0.1	N	<0.1
Endosulphan sulphate	ug/l	0.1	N	<0.1
Endrin	ug/l	0.1	N	<0.1
EPN	ug/l	0.1	N	<0.1
Epoxiconazole	ug/l	0.1	N	<0.1
EPTC	**ug/l**	**0.1**	**N**	**0.8**
Etaconazole	ug/l	0.1	N	<0.1
Ethion	ug/l	0.1	N	<0.1
Ethofumesate	ug/l	0.1	N	<0.1
Ethoprophos	ug/l	0.1	N	<0.1
Ethoxyquin	ug/l	0.1	N	(278) <0.1
Etofenprox	ug/l	0.1	N	<0.1
Etoxazole	ug/l	0.1	N	<0.1
Etridiazole	ug/l	0.1	N	<0.1
Etrimfos	ug/l	0.1	N	<0.1
Famoxadone	ug/l	0.1	N	<0.1
Famphur	ug/l	0.1	N	<0.1
Fenamidone	ug/l	0.1	N	<0.1
Fenamiphos	ug/l	0.1	N	<0.1
Fenarimol	ug/l	0.1	N	<0.1
Fenbuconazole	ug/l	0.1	N	<0.1
Fenchlorphos	ug/l	0.1	N	<0.1
Fenitrothion	ug/l	0.1	N	<0.1
Fenpiclonil	ug/l	0.1	N	<0.1
Fenpropathrin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenson	**ug/l**	**0.1**	**N**	**4.0**
Fensulfothion	ug/l	0.1	N	<0.1
Fenthion	ug/l	0.1	N	<0.1
Fenvalerate	ug/l	0.1	N	<0.1
Fipronil	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Fipronil sulphone	ug/l	0.1	N	<0.1
Flamprop isopropyl	ug/l	0.1	N	<0.1
Fluazifop-P-Butyl	ug/l	0.1	N	<0.1
Flucythrinate	ug/l	0.1	N	<0.1
Fludioxonil	ug/l	0.1	N	<0.1
Flufenacet	ug/l	0.1	N	<0.1
Flumetralin	ug/l	0.1	N	<0.1
Flumioxazin	ug/l	0.1	N	<0.1
Flumorph	ug/l	0.1	N	<0.1
Fluopyram	ug/l	0.1	N	<0.1
Fluquinconazole	ug/l	0.1	N	<0.1
Fluroxypyr-1-methylheptyl ester	ug/l	0.1	N	<0.1
Flusilazole	ug/l	0.1	N	<0.1
Flutolanil	ug/l	0.1	N	<0.1
Fluxapyroxad	ug/l	0.1	N	<0.1
Fonophos	ug/l	0.1	N	<0.1
Formothion	ug/l	0.1	N	<0.1
Furalaxyl	ug/l	0.1	N	<0.1
Haloxyfop etotyl	ug/l	0.1	N	<0.1
Haloxyfop Methyl	ug/l	0.1	N	<0.1
Heptachlor	ug/l	0.1	N	<0.1
Heptachlor epoxide	ug/l	0.1	N	<0.1
Heptachlor exo Epoxide	ug/l	0.1	N	<0.1
Heptenophos	ug/l	0.1	N	<0.1
Hexachlorobenzene	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (alpha)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (beta)	**ug/l**	**0.1**	**N**	**0.1**
Hexachlorocyclohexane (delta)	ug/l	0.1	N	<0.1
Hexaconazole	ug/l	0.1	N	<0.1
Hexazinone	ug/l	0.1	N	<0.1
Iodofenphos	ug/l	0.1	N	<0.1
Iprodione	ug/l	0.1	N	<0.1
Isazofos	ug/l	0.1	N	<0.1
Isocarbophos	ug/l	0.1	N	<0.1
Isodrin	ug/l	0.1	N	<0.1
Isofenphos	ug/l	0.1	N	<0.1
Isofenphos Methyl	ug/l	0.1	N	<0.1
Isomethiozin	ug/l	0.1	N	<0.1

Report Number : 868550 004
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : BH304
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Isoprothiolane	ug/l	0.1	N	<0.1
Isopyrazam	ug/l	0.1	N	<0.1
Kresoxim Methyl	ug/l	0.1	N	<0.1
Lambda Cyhalothrin	ug/l	0.1	N	<0.1
Lenacil	ug/l	0.1	N	<0.1
Leptophos	ug/l	0.1	N	<0.1
Lindane	ug/l	0.1	N	<0.1
Malathion	ug/l	0.1	N	<0.1
MCPA-thioethyl	ug/l	0.1	N	<0.1
Mecarbam	ug/l	0.1	N	<0.1
Mepanipyrim	ug/l	0.1	N	<0.1
Mephosfolan	ug/l	0.1	N	<0.1
Mepronil	ug/l	0.1	N	<0.1
Metalaxyl	ug/l	0.1	N	<0.1
Metazachlor	ug/l	0.1	N	<0.1
Methacrifos	ug/l	0.1	N	<0.1
Methidathion	ug/l	0.1	N	<0.1
Methoxychlor	ug/l	0.1	N	<0.1
Methyl Paraoxon	ug/l	0.1	N	<0.1
Metolachlor	ug/l	0.1	N	<0.1
Metolcarb	ug/l	0.1	N	<0.1
Metrafenone	ug/l	0.1	N	<0.1
Metribuzin	ug/l	0.1	N	<0.1
Mevinphos	ug/l	0.1	N	<0.1
Mirex	ug/l	0.1	N	<0.1
Molinate	ug/l	0.1	N	<0.1
Myclobutanil	ug/l	0.1	N	<0.1
Napropamide	ug/l	0.1	N	<0.1
Nitrofen	ug/l	0.1	N	<0.1
Nitrothal isopropyl	ug/l	0.1	N	<0.1
Nuarimol	ug/l	0.1	N	<0.1
o,p'-DDT	ug/l	0.1	N	<0.1
o,p-DDD	ug/l	0.1	N	<0.1
o,p-DDE	ug/l	0.1	N	<0.1
Octylisothiazolon	ug/l	0.1	N	<0.1
Ofurace	ug/l	0.1	N	<0.1
Orysastrobin	ug/l	0.1	N	<0.1
Oxadiazon	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Oxadixyl	ug/l	0.1	N	<0.1
Oxyfluorfen	ug/l	0.1	N	<0.1
p,p-DDD	ug/l	0.1	N	<0.1
p,p-DDE	ug/l	0.1	N	<0.1
p,p-DDT	ug/l	0.1	N	<0.1
Paclobutrazol	ug/l	0.1	N	<0.1
Paraoxon	ug/l	0.1	N	<0.1
Parathion	ug/l	0.1	N	<0.1
Parathion methyl	ug/l	0.1	N	<0.1
Penconazole	ug/l	0.1	N	<0.1
Pendimethalin	ug/l	0.1	N	<0.1
Pentachloroaniline	ug/l	0.1	N	<0.1
Pentachlorophenol	ug/l	0.1	N	(278) <0.1
Pentanochlor	ug/l	0.1	N	<0.1
Permethrin	ug/l	0.1	N	<0.1
Pethoxamid	ug/l	0.1	N	<0.1
Phenothrin	ug/l	0.1	N	<0.1
Phenthoate	ug/l	0.1	N	<0.1
Phorate	ug/l	0.1	N	<0.1
Phosalone	ug/l	0.1	N	<0.1
Phosfolan	ug/l	0.1	N	<0.1
Picoxystrobin	ug/l	0.1	N	<0.1
Piperonyl Butoxide	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	<0.1
Pirimiphos Ethyl	ug/l	0.1	N	<0.1
Pirimiphos methyl	ug/l	0.1	N	<0.1
Pretilachlor	ug/l	0.1	N	<0.1
Procymidone	ug/l	0.1	N	<0.1
Profenofos	ug/l	0.1	N	<0.1
Prometon	ug/l	0.1	N	<0.1
Prometryn	ug/l	0.1	N	<0.1
Propachlor	ug/l	0.1	N	<0.1
Propanil	ug/l	0.1	N	<0.1
Propaphos	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	<0.1
Propazine	ug/l	0.1	N	<0.1
Propetamphos	ug/l	0.1	N	<0.1
Propham	**ug/l**	**0.1**	**N**	**1.3**

Report Number : 868550 004
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : BH304
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Propiconazole	ug/l	0.1	N	<0.1
Propyzamide	ug/l	0.1	N	<0.1
Proquinazid	ug/l	0.1	N	<0.1
Prosulfocarb	ug/l	0.1	N	<0.1
Prothiofos	ug/l	0.1	N	<0.1
Pyraclostrobin	ug/l	0.1	N	<0.1
Pyraflufen ethyl	ug/l	0.1	N	<0.1
Pyrazophos	ug/l	0.1	N	<0.1
Pyridaben	ug/l	0.1	N	<0.1
Pyridaphenthion	ug/l	0.1	N	<0.1
Pyrimethanil	ug/l	0.1	N	<0.1
Pyriproxyfen	ug/l	0.1	N	<0.1
Quinalphos	ug/l	0.1	N	<0.1
Quinoxyfen	ug/l	0.1	N	<0.1
Quintozene	ug/l	0.1	N	<0.1
Quizalofop-ethyl	ug/l	0.1	N	<0.1
Secbumeton	ug/l	0.1	N	<0.1
Silafluofen	ug/l	0.1	N	<0.1
Simazine	ug/l	0.1	N	<0.1
Simeconazole	ug/l	0.1	N	<0.1
Sulfallate	ug/l	0.1	N	<0.1
Sulprofos	ug/l	0.1	N	<0.1
Tebuconazole	ug/l	0.1	N	<0.1
Tebufenpyrad	ug/l	0.1	N	<0.1
Tebupirimiphos	ug/l	0.1	N	<0.1
Tecnazene	ug/l	0.1	N	<0.1
Tefluthrin	ug/l	0.1	N	<0.1
Terbacil	ug/l	0.1	N	<0.1
Terbufos	ug/l	0.1	N	<0.1
Terbumeton	ug/l	0.1	N	<0.1
Terbuthylazine	ug/l	0.1	N	<0.1
Terbutryn	ug/l	0.1	N	<0.1
Tetrachlorvinphos	ug/l	0.1	N	<0.1
Tetraconazole	ug/l	0.1	N	<0.1
Tetradifon	ug/l	0.1	N	<0.1
tetraethyl dithiopyrophosphate	ug/l	0.1	N	<0.1
Tetramethrin	ug/l	0.1	N	<0.1
Tetrasul	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Thiamethoxam	ug/l	0.1	N	<0.1
Thiobencarb	ug/l	0.1	N	<0.1
Tolclofos-methyl	ug/l	0.1	N	<0.1
Triadimefon	ug/l	0.1	N	<0.1
Triadimenol	ug/l	0.1	N	<0.1
Triallate	ug/l	0.1	N	<0.1
Triazamate	ug/l	0.1	N	<0.1
Triazophos	ug/l	0.1	N	<0.1
Trifloxystrobin	ug/l	0.1	N	<0.1
Triflumizole	ug/l	0.1	N	(278) <0.1
Trifluralin	ug/l	0.1	N	<0.1
Vinclozolin	ug/l	0.1	N	<0.1
Vinclozolin metabolite 3,5-Dichloroaniline	ug/l	0.1	N	(278) <0.1

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Concept Life Sciences

Certificate of Analysis

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The Links
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CB23 8UD
Tel : 01954 782791
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Report Number : 868550 005
Date of Issue : 29-Jul-2020

Customer : Pam Brown Associates
Contact : Dr Melissa Morales
Address : 2 Needwood House, Lancaster Park, Newborough Road, Needwood Burton on Trent, DE13 9PD

Samples Received : 23-Jul-2020
Analysis Started : 24-Jul-2020
Concept Job Reference : 868550-1
Analysis Requested : MRPS by LC (CSOPP603), MRPS by GC (CSOPP611)
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : BH305
Location : Wheathampstead
Sample Description : Water

Results Summary

Analyte	Level Found	Units	LOD	EU MRL mg/kg	CODEX MRL mg/kg	Symbol
MRPS by LC (CSOPP603)	**No residue detected above the limit of detection.**					
MRPS by GC (CSOPP611)	**No residue detected above the limit of detection.**					

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.
Customers are responsible for information provided where, if incorrect, it could affect the validity of the results.
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 Concept Life Sciences SOPs
All results have been reviewed in accordance with QMSection 15 of the Concept Life Sciences, Analytical Services Quality Manual
All samples prepared in accordance with the CODEX alimentarius

Report checked
and authorised by :
Matt Line
Section Manager - Pesticides

Issued by :
Naomi Woodward
Customer Service Advisor

Index to symbols used in this report

Value	Description
62	LOD was raised due to the method performance of the analytical procedure used
147	Result has been Recovery corrected.
278	Data reported is qualitative as recovery is outside the 60 to 140% range
N	Analysis is not UKAS accredited

Report Number : 868550 005
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : BH305
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
2-(1-Naphthyl)acetamide	ug/l	0.1	N	<0.1
3-hydroxycarbofuran	ug/l	0.1	N	<0.1
6-Benzyladenine	ug/l	0.1	N	<0.1
Acephate	ug/l	0.1	N	<0.1
Acetamiprid	ug/l	0.1	N	<0.1
Acibenzolar-S-methyl	ug/l	0.1	N	<0.1
Aldicarb	ug/l	0.1	N	<0.1
Aldicarb sulphone	ug/l	0.1	N	<0.1
Aldicarb sulphoxide	ug/l	0.1	N	<0.1
Aminocarb	ug/l	0.1	N	<0.1
Azadirachtin	ug/l	0.1	N	<0.1
Azinphos ethyl	ug/l	0.1	N	<0.1
Azinphos methyl	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Bendiocarb	ug/l	0.1	N	<0.1
Benfuracarb	ug/l	0.1	N	(278) <0.1
Butralin	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbendazim	ug/l	0.1	N	<0.1
Carbetamide	ug/l	0.1	N	<0.1
Carbofuran	ug/l	0.1	N	<0.1
Carbosulfan	ug/l	0.1	N	(278) <0.1
Carpropamid	ug/l	0.1	N	<0.1
Chinomethionat	ug/l	0.1	N	<0.1
Chlorantraniliprole	ug/l	0.1	N	<0.1
Chlorbromuron	ug/l	0.1	N	<0.1
Chlorfluazuron	ug/l	0.1	N	<0.1
Chloridazon	ug/l	0.1	N	<0.1
Chlorotoluron	ug/l	0.1	N	<0.1
Chlorpropham	ug/l	0.1	N	<0.1
Clofentezine	ug/l	0.1	N	<0.1
Clothianidin	ug/l	0.1	N	<0.1
Cyanazine	ug/l	0.1	N	<0.1
Cyazofamid	ug/l	0.1	N	<0.1
Cycluron	ug/l	0.1	N	<0.1
Cymoxanil	ug/l	0.1	N	<0.1
Cythioate	ug/l	0.1	N	<0.1
Demeton	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Demeton-s-methyl	ug/l	0.1	N	<0.1
Demeton-s-methyl sulphone	ug/l	0.1	N	<0.1
Dichlofluanid	ug/l	0.1	N	<0.1
Dicrotophos	ug/l	0.1	N	<0.1
Diethofencarb	ug/l	0.1	N	<0.1
Diflubenzuron	ug/l	0.1	N	<0.1
Dimefuron	ug/l	0.1	N	<0.1
Dimethoate	ug/l	0.1	N	<0.1
Diniconazole	ug/l	0.1	N	<0.1
Dinotefuran	ug/l	0.1	N	<0.1
Dioxacarb	ug/l	0.1	N	(278) <0.1
Disulfoton sulfoxide	ug/l	0.1	N	<0.1
Disulfoton sulphone	ug/l	0.1	N	<0.1
Diuron	ug/l	0.1	N	<0.1
DMSA	ug/l	0.1	N	<0.1
DMST	ug/l	0.1	N	<0.1
Dodemorph	ug/l	0.1	N	(278) <0.1
Dodine	ug/l	0.1	N	<0.1
Emamectin	ug/l	0.1	N	(278) <0.1
Ethidimuron	ug/l	0.1	N	<0.1
Ethiofencarb	ug/l	0.1	N	<0.1
Ethiofencarb sulfone	ug/l	0.1	N	<0.1
Ethiofencarb sulfoxide	ug/l	0.1	N	<0.1
Ethiprole	ug/l	0.1	N	<0.1
Ethirimol	ug/l	0.1	N	<0.1
Fenamiphos sulfone	ug/l	0.1	N	<0.1
Fenamiphos sulfoxide	ug/l	0.1	N	<0.1
Fenazaquin	ug/l	0.1	N	<0.1
Fenchlorphos oxon	ug/l	0.1	N	<0.1
Fenhexamid	ug/l	0.1	N	<0.1
Fenoxycarb	ug/l	0.1	N	<0.1
Fenpropidin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenpyroximate	ug/l	0.1	N	<0.1
Fenthion Sulphone	ug/l	0.1	N	<0.1
Fenthion Sulphoxide	ug/l	0.1	N	<0.1
Fenuron	ug/l	0.1	N	<0.1
Flonicamid	ug/l	0.1	N	<0.1

Report Number : 868550 005
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : BH305
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Fluazinam	ug/l	0.1	N	<0.1
Flufenoxuron	ug/l	0.1	N	<0.1
Fluometuron	ug/l	0.1	N	<0.1
Fluopicolide	ug/l	0.1	N	<0.1
Fluorochloridone	ug/l	0.1	N	<0.1
Fluoxastrobin	ug/l	0.1	N	<0.1
Flurtamone	ug/l	0.1	N	<0.1
Flutriafol	ug/l	0.1	N	<0.1
Forchlorfenuron	ug/l	0.1	N	<0.1
Fosthiasate	ug/l	0.1	N	<0.1
Fuberidazole	ug/l	0.1	N	<0.1
Furathiocarb	ug/l	0.1	N	<0.1
Hexaflumuron	ug/l	0.1	N	<0.1
Hexythiazox	ug/l	0.1	N	<0.1
Imazalil	ug/l	0.1	N	(278) <0.1
Imibenconazole	ug/l	0.1	N	<0.1
Imidacloprid	ug/l	0.1	N	<0.1
Indoxacarb	ug/l	0.1	N	<0.1
Iprovalicarb	ug/l	0.1	N	<0.1
Isoprocarb	ug/l	0.1	N	<0.1
Isoproturon	ug/l	0.1	N	<0.1
Isoxaben	ug/l	0.1	N	<0.1
Karbutilate	ug/l	0.1	N	<0.1
Linuron	ug/l	0.1	N	<0.1
Lufenuron	ug/l	0.1	N	<0.1
Malaoxon	ug/l	0.1	N	<0.1
Mandipropamid	ug/l	0.1	N	<0.1
Mefenacet	ug/l	0.1	N	<0.1
Metamitron	ug/l	0.1	N	<0.1
Metconazole	ug/l	0.1	N	<0.1
Methabenzthiazuron	ug/l	0.1	N	<0.1
Methamidophos	ug/l	0.1	N	<0.1
Methiocarb	ug/l	0.1	N	<0.1
Methiocarb Sulfone	ug/l	0.1	N	<0.1
Methiocarb Sulfoxide	ug/l	0.1	N	<0.1
Methomyl	ug/l	0.1	N	<0.1
Methoxyfenozide	ug/l	0.1	N	<0.1
Metobromuron	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Metoxuron	ug/l	0.1	N	<0.1
Monocrotophos	ug/l	0.1	N	<0.1
Monolinuron	ug/l	0.1	N	<0.1
Monuron	ug/l	0.1	N	<0.1
Neburon	ug/l	0.1	N	<0.1
Nicotine	ug/l	0.1	N	<0.1
Nitenpyram	ug/l	0.1	N	<0.1
Novaluron	ug/l	0.1	N	<0.1
Omethoate	ug/l	0.1	N	<0.1
Oxadiargyl	ug/l	0.1	N	<0.1
Oxamyl	ug/l	0.1	N	<0.1
Oxycarboxin	ug/l	0.1	N	<0.1
Oxydemeton-Methyl	ug/l	0.1	N	<0.1
Pencycuron	ug/l	0.1	N	<0.1
Phorate sulfone	ug/l	0.1	N	<0.1
Phorate sulfoxide	ug/l	0.1	N	<0.1
Phosmet	ug/l	0.1	N	<0.1
Phosphamidon	ug/l	0.1	N	<0.1
Phoxim	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	<0.1
Prochloraz	ug/l	0.1	N	<0.1
Promecarb	ug/l	0.1	N	<0.1
Propamocarb	ug/l	0.1	N	<0.1
Propaquizafop	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	<0.1
Propoxur	ug/l	0.1	N	<0.1
Pymetrozine	ug/l	0.1	N	<0.1
Pyrifenox	ug/l	0.1	N	<0.1
Resmethrin	ug/l	0.1	N	<0.1
Rotenone	ug/l	0.1	N	<0.1
Spinosad	ug/l	0.1	N	<0.1
Spirodiclofen	ug/l	0.1	N	<0.1
Spiromesifen	ug/l	0.1	N	<0.1
Spiroxamine	ug/l	0.1	N	<0.1
Tebufenozide	ug/l	0.1	N	<0.1
Teflubenzuron	ug/l	0.1	N	<0.1
Temephos	ug/l	0.1	N	<0.1
Terbufos sulfone	ug/l	0.1	N	<0.1

Report Number : 868550 005
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : BH305
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Terbufos sulfoxide	ug/l	0.1	N	<0.1
Thiabendazole	ug/l	0.1	N	<0.1
Thiacloprid	ug/l	0.1	N	<0.1
Thiazafluron	ug/l	0.1	N	<0.1
Thiodicarb	ug/l	0.1	N	<0.1
Thiofanox	ug/l	0.1	N	<0.1
Thiophanate Methyl	ug/l	0.1	N	<0.1
Tolylfluanid	ug/l	0.1	N	<0.1
Trichlorfon	ug/l	0.1	N	<0.1
Tridemorph	ug/l	0.1	N	<0.1
Trifloxysulfuron	ug/l	0.1	N	<0.1
Triflumuron	ug/l	0.1	N	<0.1
Triflusulfuron-methyl	ug/l	0.1	N	<0.1
Triticonazole	ug/l	0.1	N	<0.1
Vamidothion	ug/l	0.1	N	<0.1
Vernolate	ug/l	0.1	N	<0.1
Zoxamide	ug/l	0.1	N	<0.1

Report Number : 868550 005
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : BH305
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
2,4,6-Trichlorophenol	ug/l	0.1	N	<0.1
2-Phenylphenol	ug/l	0.1	N	<0.1
Acetochlor	ug/l	0.1	N	<0.1
Aclonifen	ug/l	0.1	N	<0.1
Acrinathrin	ug/l	0.1	N	<0.1
Alachlor	ug/l	0.1	N	<0.1
Aldrin	ug/l	0.1	N	<0.1
Ametryn	ug/l	0.1	N	<0.1
Atraton	ug/l	0.1	N	<0.1
Atrazine	ug/l	0.1	N	<0.1
Azaconazole	ug/l	0.1	N	<0.1
Azobenzene	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Benalaxyl	ug/l	0.1	N	<0.1
Benfluralin	ug/l	0.1	N	<0.1
Bifenox	ug/l	0.1	N	<0.1
Bifenthrin	ug/l	0.1	N	<0.1
Binapacryl	ug/l	0.1	N	(278) <0.1
Biphenyl	ug/l	1.2	N	(278, 62) <1.2
Bitertanol	ug/l	0.1	N	<0.1
Boscalid	ug/l	0.1	N	<0.1
Bromacil	ug/l	0.1	N	<0.1
Bromophos	ug/l	0.1	N	<0.1
Bromophos-Ethyl	ug/l	0.1	N	<0.1
Bromopropylate	ug/l	0.1	N	<0.1
Bupirimate	ug/l	0.1	N	<0.1
Buprofezine	ug/l	0.1	N	<0.1
Butachlor	ug/l	0.1	N	<0.1
Cadusafos	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbophenothion	ug/l	0.1	N	<0.1
Carboxine	ug/l	0.1	N	(278) <0.1
Carfentrazone Ethyl	ug/l	0.1	N	<0.1
Chlorobenzilate	ug/l	0.1	N	(278) <0.1
Chlordane (sum of cis and trans isomers)	ug/l	0.1	N	<0.1
Chlordimeform	ug/l	0.1	N	(278) <0.1
Chlorethoxyfos	ug/l	0.1	N	<0.1
Chlorfenapyr	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Chlorfenvinphos	ug/l	0.1	N	<0.1
Chlormephos	ug/l	0.1	N	<0.1
Chloropropylate	ug/l	0.1	N	<0.1
Chlorothalonil	ug/l	0.1	N	<0.1
Chlorpropham	ug/l	0.1	N	<0.1
Chlorpyrifos	ug/l	0.1	N	<0.1
Chlorpyrifos methyl	ug/l	0.1	N	<0.1
Chlorthal Dimethyl	ug/l	0.1	N	<0.1
Chlorthion	ug/l	0.1	N	<0.1
Chlorthiophos	ug/l	0.1	N	<0.1
Chlozolinate	ug/l	0.1	N	<0.1
Clodinafop Propargyl	ug/l	0.1	N	<0.1
Clomazone	ug/l	0.1	N	<0.1
Cloquintocet mexyl	ug/l	0.1	N	<0.1
Coumaphos	ug/l	0.1	N	<0.1
Cyflufenamid	ug/l	0.1	N	<0.1
Cyfluthrin	ug/l	0.1	N	<0.1
Cypermethrin	ug/l	0.1	N	<0.1
Cyphenothrin	ug/l	0.1	N	<0.1
Cyproconazole	ug/l	0.1	N	<0.1
Cyprodinil	ug/l	0.1	N	<0.1
Deltamethrin	ug/l	0.1	N	<0.1
Desmetryn	ug/l	0.1	N	<0.1
Diafenthiuron	ug/l	0.1	N	<0.1
Dialifos	ug/l	0.1	N	<0.1
Diazinon	ug/l	0.1	N	<0.1
Dichlobenil	ug/l	0.1	N	<0.1
Dichlofenthion	ug/l	0.1	N	<0.1
Dichlorvos	ug/l	0.1	N	<0.1
Diclobutrazol	ug/l	0.1	N	<0.1
Dicloran	ug/l	0.1	N	<0.1
Dicofol	ug/l	0.1	N	<0.1
Dieldrin	ug/l	0.1	N	<0.1
Difenoconazole	ug/l	0.1	N	<0.1
Diflufenican	ug/l	0.1	N	<0.1
Dimethenamid	ug/l	0.1	N	<0.1
Dimethomorph	ug/l	0.1	N	<0.1
Dimoxystrobin	ug/l	0.1	N	<0.1

Report Number : 868550 005
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : BH305
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Dioxabenzofos	ug/l	0.1	N	(278) <0.1
Diphenamid	ug/l	0.1	N	<0.1
Diphenylamine	ug/l	0.1	N	<0.1
Disulfoton	ug/l	0.1	N	<0.1
Ditalimfos	ug/l	0.1	N	<0.1
Edifenphos	ug/l	0.1	N	<0.1
Endosulphan alpha	ug/l	0.1	N	<0.1
Endosulphan beta	ug/l	0.1	N	<0.1
Endosulphan sulphate	ug/l	0.1	N	<0.1
Endrin	ug/l	0.1	N	<0.1
EPN	ug/l	0.1	N	<0.1
Epoxiconazole	ug/l	0.1	N	<0.1
EPTC	ug/l	0.1	N	<0.1
Etaconazole	ug/l	0.1	N	<0.1
Ethion	ug/l	0.1	N	<0.1
Ethofumesate	ug/l	0.1	N	<0.1
Ethoprophos	ug/l	0.1	N	<0.1
Ethoxyquin	ug/l	0.1	N	(278) <0.1
Etofenprox	ug/l	0.1	N	<0.1
Etoxazole	ug/l	0.1	N	<0.1
Etridiazole	ug/l	0.1	N	<0.1
Etrimfos	ug/l	0.1	N	<0.1
Famoxadone	ug/l	0.1	N	<0.1
Famphur	ug/l	0.1	N	<0.1
Fenamidone	ug/l	0.1	N	<0.1
Fenamiphos	ug/l	0.1	N	<0.1
Fenarimol	ug/l	0.1	N	<0.1
Fenbuconazole	ug/l	0.1	N	<0.1
Fenchlorphos	ug/l	0.1	N	<0.1
Fenitrothion	ug/l	0.1	N	<0.1
Fenpiclonil	ug/l	0.1	N	<0.1
Fenpropathrin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenson	ug/l	0.1	N	<0.1
Fensulfothion	ug/l	0.1	N	<0.1
Fenthion	ug/l	0.1	N	<0.1
Fenvalerate	ug/l	0.1	N	<0.1
Fipronil	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Fipronil sulphone	ug/l	0.1	N	<0.1
Flamprop isopropyl	ug/l	0.1	N	<0.1
Fluazifop-P-Butyl	ug/l	0.1	N	<0.1
Flucythrinate	ug/l	0.1	N	<0.1
Fludioxonil	ug/l	0.1	N	<0.1
Flufenacet	ug/l	0.1	N	<0.1
Flumetralin	ug/l	0.1	N	<0.1
Flumioxazin	ug/l	0.1	N	<0.1
Flumorph	ug/l	0.1	N	<0.1
Fluopyram	ug/l	0.1	N	<0.1
Fluquinconazole	ug/l	0.1	N	<0.1
Fluroxypyr-1-methylheptyl ester	ug/l	0.1	N	<0.1
Flusilazole	ug/l	0.1	N	<0.1
Flutolanil	ug/l	0.1	N	<0.1
Fluxapyroxad	ug/l	0.1	N	<0.1
Fonophos	ug/l	0.1	N	<0.1
Formothion	ug/l	0.1	N	<0.1
Furalaxyl	ug/l	0.1	N	<0.1
Haloxyfop etotyl	ug/l	0.1	N	<0.1
Haloxyfop Methyl	ug/l	0.1	N	<0.1
Heptachlor	ug/l	0.1	N	<0.1
Heptachlor epoxide	ug/l	0.1	N	<0.1
Heptachlor exo Epoxide	ug/l	0.1	N	<0.1
Heptenophos	ug/l	0.1	N	<0.1
Hexachlorobenzene	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (alpha)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (beta)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (delta)	ug/l	0.1	N	<0.1
Hexaconazole	ug/l	0.1	N	<0.1
Hexazinone	ug/l	0.1	N	<0.1
Iodofenphos	ug/l	0.1	N	<0.1
Iprodione	ug/l	0.1	N	<0.1
Isazofos	ug/l	0.1	N	<0.1
Isocarbophos	ug/l	0.1	N	<0.1
Isodrin	ug/l	0.1	N	<0.1
Isofenphos	ug/l	0.1	N	<0.1
Isofenphos Methyl	ug/l	0.1	N	<0.1
Isomethiozin	ug/l	0.1	N	<0.1

Report Number : 868550 005
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : BH305
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result	Determinand	Units	LOD	Symbol	Result
Isoprothiolane	ug/l	0.1	N	<0.1	Oxadixyl	ug/l	0.1	N	<0.1
Isopyrazam	ug/l	0.1	N	<0.1	Oxyfluorfen	ug/l	0.1	N	<0.1
Kresoxim Methyl	ug/l	0.1	N	<0.1	p,p-DDD	ug/l	0.1	N	<0.1
Lambda Cyhalothrin	ug/l	0.1	N	<0.1	p,p-DDE	ug/l	0.1	N	<0.1
Lenacil	ug/l	0.1	N	<0.1	p,p-DDT	ug/l	0.1	N	<0.1
Leptophos	ug/l	0.1	N	<0.1	Paclobutrazol	ug/l	0.1	N	<0.1
Lindane	ug/l	0.1	N	<0.1	Paraoxon	ug/l	0.1	N	<0.1
Malathion	ug/l	0.1	N	<0.1	Parathion	ug/l	0.1	N	<0.1
MCPA-thioethyl	ug/l	0.1	N	<0.1	Parathion methyl	ug/l	0.1	N	<0.1
Mecarbam	ug/l	0.1	N	<0.1	Penconazole	ug/l	0.1	N	<0.1
Mepanipyrim	ug/l	0.1	N	<0.1	Pendimethalin	ug/l	0.1	N	<0.1
Mephosfolan	ug/l	0.1	N	<0.1	Pentachloroaniline	ug/l	0.1	N	<0.1
Mepronil	ug/l	0.1	N	<0.1	Pentachlorophenol	ug/l	0.1	N	(278) <0.1
Metalaxyl	ug/l	0.1	N	<0.1	Pentanochlor	ug/l	0.1	N	<0.1
Metazachlor	ug/l	0.1	N	<0.1	Permethrin	ug/l	0.1	N	<0.1
Methacrifos	ug/l	0.1	N	<0.1	Pethoxamid	ug/l	0.1	N	<0.1
Methidathion	ug/l	0.1	N	<0.1	Phenothrin	ug/l	0.1	N	<0.1
Methoxychlor	ug/l	0.1	N	<0.1	Phenthoate	ug/l	0.1	N	<0.1
Methyl Paraoxon	ug/l	0.1	N	<0.1	Phorate	ug/l	0.1	N	<0.1
Metolachlor	ug/l	0.1	N	<0.1	Phosalone	ug/l	0.1	N	<0.1
Metolcarb	ug/l	0.1	N	<0.1	Phosfolan	ug/l	0.1	N	<0.1
Metrafenone	ug/l	0.1	N	<0.1	Picoxystrobin	ug/l	0.1	N	<0.1
Metribuzin	ug/l	0.1	N	<0.1	Piperonyl Butoxide	ug/l	0.1	N	<0.1
Mevinphos	ug/l	0.1	N	<0.1	Pirimicarb	ug/l	0.1	N	<0.1
Mirex	ug/l	0.1	N	<0.1	Pirimiphos Ethyl	ug/l	0.1	N	<0.1
Molinate	ug/l	0.1	N	<0.1	Pirimiphos methyl	ug/l	0.1	N	<0.1
Myclobutanil	ug/l	0.1	N	<0.1	Pretilachlor	ug/l	0.1	N	<0.1
Napropamide	ug/l	0.1	N	<0.1	Procymidone	ug/l	0.1	N	<0.1
Nitrofen	ug/l	0.1	N	<0.1	Profenofos	ug/l	0.1	N	<0.1
Nitrothal isopropyl	ug/l	0.1	N	<0.1	Prometon	ug/l	0.1	N	<0.1
Nuarimol	ug/l	0.1	N	<0.1	Prometryn	ug/l	0.1	N	<0.1
o,p'-DDT	ug/l	0.1	N	<0.1	Propachlor	ug/l	0.1	N	<0.1
o,p-DDD	ug/l	0.1	N	<0.1	Propanil	ug/l	0.1	N	<0.1
o,p-DDE	ug/l	0.1	N	<0.1	Propaphos	ug/l	0.1	N	<0.1
Octylisothiazolon	ug/l	0.1	N	<0.1	Propargite	ug/l	0.1	N	<0.1
Ofurace	ug/l	0.1	N	<0.1	Propazine	ug/l	0.1	N	<0.1
Orysastrobin	ug/l	0.1	N	<0.1	Propetamphos	ug/l	0.1	N	<0.1
Oxadiazon	ug/l	0.1	N	<0.1	Propham	ug/l	0.1	N	<0.1

Report Number : 868550 005
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : BH305
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Propiconazole	ug/l	0.1	N	<0.1
Propyzamide	ug/l	0.1	N	<0.1
Proquinazid	ug/l	0.1	N	<0.1
Prosulfocarb	ug/l	0.1	N	<0.1
Prothiofos	ug/l	0.1	N	<0.1
Pyraclostrobin	ug/l	0.1	N	<0.1
Pyraflufen ethyl	ug/l	0.1	N	<0.1
Pyrazophos	ug/l	0.1	N	<0.1
Pyridaben	ug/l	0.1	N	<0.1
Pyridaphenthion	ug/l	0.1	N	<0.1
Pyrimethanil	ug/l	0.1	N	<0.1
Pyriproxyfen	ug/l	0.1	N	<0.1
Quinalphos	ug/l	0.1	N	<0.1
Quinoxyfen	ug/l	0.1	N	<0.1
Quintozene	ug/l	0.1	N	<0.1
Quizalofop-ethyl	ug/l	0.1	N	<0.1
Secbumeton	ug/l	0.1	N	<0.1
Silafluofen	ug/l	0.1	N	<0.1
Simazine	ug/l	0.1	N	<0.1
Simeconazole	ug/l	0.1	N	<0.1
Sulfallate	ug/l	0.1	N	<0.1
Sulprofos	ug/l	0.1	N	<0.1
Tebuconazole	ug/l	0.1	N	<0.1
Tebufenpyrad	ug/l	0.1	N	<0.1
Tebupirimiphos	ug/l	0.1	N	<0.1
Tecnazene	ug/l	0.1	N	<0.1
Tefluthrin	ug/l	0.1	N	<0.1
Terbacil	ug/l	0.1	N	<0.1
Terbufos	ug/l	0.1	N	<0.1
Terbumeton	ug/l	0.1	N	<0.1
Terbuthylazine	ug/l	0.1	N	<0.1
Terbutryn	ug/l	0.1	N	<0.1
Tetrachlorvinphos	ug/l	0.1	N	<0.1
Tetraconazole	ug/l	0.1	N	<0.1
Tetradifon	ug/l	0.1	N	<0.1
tetraethyl dithiopyrophosphate	ug/l	0.1	N	<0.1
Tetramethrin	ug/l	0.1	N	<0.1
Tetrasul	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Thiamethoxam	ug/l	0.1	N	<0.1
Thiobencarb	ug/l	0.1	N	<0.1
Tolclofos-methyl	ug/l	0.1	N	<0.1
Triadimefon	ug/l	0.1	N	<0.1
Triadimenol	ug/l	0.1	N	<0.1
Triallate	ug/l	0.1	N	<0.1
Triazamate	ug/l	0.1	N	<0.1
Triazophos	ug/l	0.1	N	<0.1
Trifloxystrobin	ug/l	0.1	N	<0.1
Triflumizole	ug/l	0.1	N	(278) <0.1
Trifluralin	ug/l	0.1	N	<0.1
Vinclozolin	ug/l	0.1	N	<0.1
Vinclozolin metabolite 3,5-Dichloroaniline	ug/l	0.1	N	(278) <0.1

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Concept Life Sciences

Certificate of Analysis

Unit 2
The Links
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CB23 8UD
Tel : 01954 782791
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Report Number : 868550 006
Date of Issue : 29-Jul-2020

Customer : Pam Brown Associates
Contact : Dr Melissa Morales
Address : 2 Needwood House, Lancaster Park, Newborough Road, Needwood Burton on Trent, DE13 9PD

Samples Received : 23-Jul-2020
Analysis Started : 24-Jul-2020
Concept Job Reference : 868550-1
Analysis Requested : MRPS by LC (CSOPP603), MRPS by GC (CSOPP611)
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : BH306
Location : Wheathampstead
Sample Description : Water

Results Summary

Analyte	Level Found	Units	LOD	EU MRL mg/kg	CODEX MRL mg/kg	Symbol
MRPS by LC (CSOPP603)	**No residue detected above the limit of detection.**					
MRPS by GC (CSOPP611)						
Fenson	**0.1**	ug/l	0.1			N

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.
Customers are responsible for information provided where, if incorrect, it could affect the validity of the results.
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 Concept Life Sciences SOPs
All results have been reviewed in accordance with QMSection 15 of the Concept Life Sciences, Analytical Services Quality Manual
All samples prepared in accordance with the CODEX alimentarius

Report checked
and authorised by :
Matt Line
Section Manager - Pesticides

Issued by :
Naomi Woodward
Customer Service Advisor

Index to symbols used in this report

Value	Description
62	LOD was raised due to the method performance of the analytical procedure used
147	Result has been Recovery corrected.
278	Data reported is qualitative as recovery is outside the 60 to 140% range
N	Analysis is not UKAS accredited

Report Number : 868550 006
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : BH306
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
2-(1-Naphthyl)acetamide	ug/l	0.1	N	<0.1
3-hydroxycarbofuran	ug/l	0.1	N	<0.1
6-Benzyladenine	ug/l	0.1	N	<0.1
Acephate	ug/l	0.1	N	<0.1
Acetamiprid	ug/l	0.1	N	<0.1
Acibenzolar-S-methyl	ug/l	0.1	N	<0.1
Aldicarb	ug/l	0.1	N	<0.1
Aldicarb sulphone	ug/l	0.1	N	<0.1
Aldicarb sulphoxide	ug/l	0.1	N	<0.1
Aminocarb	ug/l	0.1	N	<0.1
Azadirachtin	ug/l	0.1	N	<0.1
Azinphos ethyl	ug/l	0.1	N	<0.1
Azinphos methyl	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Bendiocarb	ug/l	0.1	N	<0.1
Benfuracarb	ug/l	0.1	N	(278) <0.1
Butralin	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbendazim	ug/l	0.1	N	<0.1
Carbetamide	ug/l	0.1	N	<0.1
Carbofuran	ug/l	0.1	N	<0.1
Carbosulfan	ug/l	0.1	N	(278) <0.1
Carpropamid	ug/l	0.1	N	<0.1
Chinomethionat	ug/l	0.1	N	<0.1
Chlorantraniliprole	ug/l	0.1	N	<0.1
Chlorbromuron	ug/l	0.1	N	<0.1
Chlorfluazuron	ug/l	0.1	N	<0.1
Chloridazon	ug/l	0.1	N	<0.1
Chlorotoluron	ug/l	0.1	N	<0.1
Chlorpropham	ug/l	0.1	N	<0.1
Clofentezine	ug/l	0.1	N	<0.1
Clothianidin	ug/l	0.1	N	<0.1
Cyanazine	ug/l	0.1	N	<0.1
Cyazofamid	ug/l	0.1	N	<0.1
Cycluron	ug/l	0.1	N	<0.1
Cymoxanil	ug/l	0.1	N	<0.1
Cythioate	ug/l	0.1	N	<0.1
Demeton	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Demeton-s-methyl	ug/l	0.1	N	<0.1
Demeton-s-methyl sulphone	ug/l	0.1	N	<0.1
Dichlofluanid	ug/l	0.1	N	<0.1
Dicrotophos	ug/l	0.1	N	<0.1
Diethofencarb	ug/l	0.1	N	<0.1
Diflubenzuron	ug/l	0.1	N	<0.1
Dimefuron	ug/l	0.1	N	<0.1
Dimethoate	ug/l	0.1	N	<0.1
Diniconazole	ug/l	0.1	N	<0.1
Dinotefuran	ug/l	0.1	N	<0.1
Dioxacarb	ug/l	0.1	N	(278) <0.1
Disulfoton sulfoxide	ug/l	0.1	N	<0.1
Disulfoton sulphone	ug/l	0.1	N	<0.1
Diuron	ug/l	0.1	N	<0.1
DMSA	ug/l	0.1	N	<0.1
DMST	ug/l	0.1	N	<0.1
Dodemorph	ug/l	0.1	N	(278) <0.1
Dodine	ug/l	0.1	N	<0.1
Emamectin	ug/l	0.1	N	(278) <0.1
Ethidimuron	ug/l	0.1	N	<0.1
Ethiofencarb	ug/l	0.1	N	<0.1
Ethiofencarb sulfone	ug/l	0.1	N	<0.1
Ethiofencarb sulfoxide	ug/l	0.1	N	<0.1
Ethiprole	ug/l	0.1	N	<0.1
Ethirimol	ug/l	0.1	N	<0.1
Fenamiphos sulfone	ug/l	0.1	N	<0.1
Fenamiphos sulfoxide	ug/l	0.1	N	<0.1
Fenazaquin	ug/l	0.1	N	<0.1
Fenchlorphos oxon	ug/l	0.1	N	<0.1
Fenhexamid	ug/l	0.1	N	<0.1
Fenoxycarb	ug/l	0.1	N	<0.1
Fenpropidin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenpyroximate	ug/l	0.1	N	<0.1
Fenthion Sulphone	ug/l	0.1	N	<0.1
Fenthion Sulphoxide	ug/l	0.1	N	<0.1
Fenuron	ug/l	0.1	N	<0.1
Flonicamid	ug/l	0.1	N	<0.1

Report Number : 868550 006
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : BH306
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Fluazinam	ug/l	0.1	N	<0.1
Flufenoxuron	ug/l	0.1	N	<0.1
Fluometuron	ug/l	0.1	N	<0.1
Fluopicolide	ug/l	0.1	N	<0.1
Fluorochloridone	ug/l	0.1	N	<0.1
Fluoxastrobin	ug/l	0.1	N	<0.1
Flurtamone	ug/l	0.1	N	<0.1
Flutriafol	ug/l	0.1	N	<0.1
Forchlorfenuron	ug/l	0.1	N	<0.1
Fosthiasate	ug/l	0.1	N	<0.1
Fuberidazole	ug/l	0.1	N	<0.1
Furathiocarb	ug/l	0.1	N	<0.1
Hexaflumuron	ug/l	0.1	N	<0.1
Hexythiazox	ug/l	0.1	N	<0.1
Imazalil	ug/l	0.1	N	(278) <0.1
Imibenconazole	ug/l	0.1	N	<0.1
Imidacloprid	ug/l	0.1	N	<0.1
Indoxacarb	ug/l	0.1	N	<0.1
Iprovalicarb	ug/l	0.1	N	<0.1
Isoprocarb	ug/l	0.1	N	<0.1
Isoproturon	ug/l	0.1	N	<0.1
Isoxaben	ug/l	0.1	N	<0.1
Karbutilate	ug/l	0.1	N	<0.1
Linuron	ug/l	0.1	N	<0.1
Lufenuron	ug/l	0.1	N	<0.1
Malaoxon	ug/l	0.1	N	<0.1
Mandipropamid	ug/l	0.1	N	<0.1
Mefenacet	ug/l	0.1	N	<0.1
Metamitron	ug/l	0.1	N	<0.1
Metconazole	ug/l	0.1	N	<0.1
Methabenzthiazuron	ug/l	0.1	N	<0.1
Methamidophos	ug/l	0.1	N	<0.1
Methiocarb	ug/l	0.1	N	<0.1
Methiocarb Sulfone	ug/l	0.1	N	<0.1
Methiocarb Sulfoxide	ug/l	0.1	N	<0.1
Methomyl	ug/l	0.1	N	<0.1
Methoxyfenozide	ug/l	0.1	N	<0.1
Metobromuron	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Metoxuron	ug/l	0.1	N	<0.1
Monocrotophos	ug/l	0.1	N	<0.1
Monolinuron	ug/l	0.1	N	<0.1
Monuron	ug/l	0.1	N	<0.1
Neburon	ug/l	0.1	N	<0.1
Nicotine	ug/l	0.1	N	<0.1
Nitenpyram	ug/l	0.1	N	<0.1
Novaluron	ug/l	0.1	N	<0.1
Omethoate	ug/l	0.1	N	<0.1
Oxadiargyl	ug/l	0.1	N	<0.1
Oxamyl	ug/l	0.1	N	<0.1
Oxycarboxin	ug/l	0.1	N	<0.1
Oxydemeton-Methyl	ug/l	0.1	N	<0.1
Pencycuron	ug/l	0.1	N	<0.1
Phorate sulfone	ug/l	0.1	N	<0.1
Phorate sulfoxide	ug/l	0.1	N	<0.1
Phosmet	ug/l	0.1	N	<0.1
Phosphamidon	ug/l	0.1	N	<0.1
Phoxim	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	<0.1
Prochloraz	ug/l	0.1	N	<0.1
Promecarb	ug/l	0.1	N	<0.1
Propamocarb	ug/l	0.1	N	<0.1
Propaquizafop	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	<0.1
Propoxur	ug/l	0.1	N	<0.1
Pymetrozine	ug/l	0.1	N	<0.1
Pyrifenox	ug/l	0.1	N	<0.1
Resmethrin	ug/l	0.1	N	<0.1
Rotenone	ug/l	0.1	N	<0.1
Spinosad	ug/l	0.1	N	<0.1
Spirodiclofen	ug/l	0.1	N	<0.1
Spiromesifen	ug/l	0.1	N	<0.1
Spiroxamine	ug/l	0.1	N	<0.1
Tebufenozide	ug/l	0.1	N	<0.1
Teflubenzuron	ug/l	0.1	N	<0.1
Temephos	ug/l	0.1	N	<0.1
Terbufos sulfone	ug/l	0.1	N	<0.1

Report Number : 868550 006
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : BH306
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Terbufos sulfoxide	ug/l	0.1	N	<0.1
Thiabendazole	ug/l	0.1	N	<0.1
Thiacloprid	ug/l	0.1	N	<0.1
Thiazafluron	ug/l	0.1	N	<0.1
Thiodicarb	ug/l	0.1	N	<0.1
Thiofanox	ug/l	0.1	N	<0.1
Thiophanate Methyl	ug/l	0.1	N	<0.1
Tolylfluanid	ug/l	0.1	N	<0.1
Trichlorfon	ug/l	0.1	N	<0.1
Tridemorph	ug/l	0.1	N	<0.1
Trifloxysulfuron	ug/l	0.1	N	<0.1
Triflumuron	ug/l	0.1	N	<0.1
Triflusulfuron-methyl	ug/l	0.1	N	<0.1
Triticonazole	ug/l	0.1	N	<0.1
Vamidothion	ug/l	0.1	N	<0.1
Vernolate	ug/l	0.1	N	<0.1
Zoxamide	ug/l	0.1	N	<0.1

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MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
2,4,6-Trichlorophenol	ug/l	0.1	N	<0.1
2-Phenylphenol	ug/l	0.1	N	<0.1
Acetochlor	ug/l	0.1	N	<0.1
Aclonifen	ug/l	0.1	N	<0.1
Acrinathrin	ug/l	0.1	N	<0.1
Alachlor	ug/l	0.1	N	<0.1
Aldrin	ug/l	0.1	N	<0.1
Ametryn	ug/l	0.1	N	<0.1
Atraton	ug/l	0.1	N	<0.1
Atrazine	ug/l	0.1	N	<0.1
Azaconazole	ug/l	0.1	N	<0.1
Azobenzene	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Benalaxyl	ug/l	0.1	N	<0.1
Benfluralin	ug/l	0.1	N	<0.1
Bifenox	ug/l	0.1	N	<0.1
Bifenthrin	ug/l	0.1	N	<0.1
Binapacryl	ug/l	0.1	N	(278) <0.1
Biphenyl	ug/l	1.2	N	(278, 62) <1.2
Bitertanol	ug/l	0.1	N	<0.1
Boscalid	ug/l	0.1	N	<0.1
Bromacil	ug/l	0.1	N	<0.1
Bromophos	ug/l	0.1	N	<0.1
Bromophos-Ethyl	ug/l	0.1	N	<0.1
Bromopropylate	ug/l	0.1	N	<0.1
Bupirimate	ug/l	0.1	N	<0.1
Buprofezine	ug/l	0.1	N	<0.1
Butachlor	ug/l	0.1	N	<0.1
Cadusafos	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbophenothion	ug/l	0.1	N	<0.1
Carboxine	ug/l	0.1	N	(278) <0.1
Carfentrazone Ethyl	ug/l	0.1	N	<0.1
Chlorobenzilate	ug/l	0.1	N	(278) <0.1
Chlordane (sum of cis and trans isomers)	ug/l	0.1	N	<0.1
Chlordimeform	ug/l	0.1	N	(278) <0.1
Chlorethoxyfos	ug/l	0.1	N	<0.1
Chlorfenapyr	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Chlorfenvinphos	ug/l	0.1	N	<0.1
Chlormephos	ug/l	0.1	N	<0.1
Chloropropylate	ug/l	0.1	N	<0.1
Chlorothalonil	ug/l	0.1	N	<0.1
Chlorpropham	ug/l	0.1	N	<0.1
Chlorpyrifos	ug/l	0.1	N	<0.1
Chlorpyrifos methyl	ug/l	0.1	N	<0.1
Chlorthal Dimethyl	ug/l	0.1	N	<0.1
Chlorthion	ug/l	0.1	N	<0.1
Chlorthiophos	ug/l	0.1	N	<0.1
Chlozolinate	ug/l	0.1	N	<0.1
Clodinafop Propargyl	ug/l	0.1	N	<0.1
Clomazone	ug/l	0.1	N	<0.1
Cloquintocet mexyl	ug/l	0.1	N	<0.1
Coumaphos	ug/l	0.1	N	<0.1
Cyflufenamid	ug/l	0.1	N	<0.1
Cyfluthrin	ug/l	0.1	N	<0.1
Cypermethrin	ug/l	0.1	N	<0.1
Cyphenothrin	ug/l	0.1	N	<0.1
Cyproconazole	ug/l	0.1	N	<0.1
Cyprodinil	ug/l	0.1	N	<0.1
Deltamethrin	ug/l	0.1	N	<0.1
Desmetryn	ug/l	0.1	N	<0.1
Diafenthiuron	ug/l	0.1	N	<0.1
Dialifos	ug/l	0.1	N	<0.1
Diazinon	ug/l	0.1	N	<0.1
Dichlobenil	ug/l	0.1	N	<0.1
Dichlofenthion	ug/l	0.1	N	<0.1
Dichlorvos	ug/l	0.1	N	<0.1
Diclobutrazol	ug/l	0.1	N	<0.1
Dicloran	ug/l	0.1	N	<0.1
Dicofol	ug/l	0.1	N	<0.1
Dieldrin	ug/l	0.1	N	<0.1
Difenoconazole	ug/l	0.1	N	<0.1
Diflufenican	ug/l	0.1	N	<0.1
Dimethenamid	ug/l	0.1	N	<0.1
Dimethomorph	ug/l	0.1	N	<0.1
Dimoxystrobin	ug/l	0.1	N	<0.1

Report Number : 868550 006
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : BH306
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Dioxabenzofos	ug/l	0.1	N	(278) <0.1
Diphenamid	ug/l	0.1	N	<0.1
Diphenylamine	ug/l	0.1	N	<0.1
Disulfoton	ug/l	0.1	N	<0.1
Ditalimfos	ug/l	0.1	N	<0.1
Edifenphos	ug/l	0.1	N	<0.1
Endosulphan alpha	ug/l	0.1	N	<0.1
Endosulphan beta	ug/l	0.1	N	<0.1
Endosulphan sulphate	ug/l	0.1	N	<0.1
Endrin	ug/l	0.1	N	<0.1
EPN	ug/l	0.1	N	<0.1
Epoxiconazole	ug/l	0.1	N	<0.1
EPTC	ug/l	0.1	N	<0.1
Etaconazole	ug/l	0.1	N	<0.1
Ethion	ug/l	0.1	N	<0.1
Ethofumesate	ug/l	0.1	N	<0.1
Ethoprophos	ug/l	0.1	N	<0.1
Ethoxyquin	ug/l	0.1	N	(278) <0.1
Etofenprox	ug/l	0.1	N	<0.1
Etoxazole	ug/l	0.1	N	<0.1
Etridiazole	ug/l	0.1	N	<0.1
Etrimfos	ug/l	0.1	N	<0.1
Famoxadone	ug/l	0.1	N	<0.1
Famphur	ug/l	0.1	N	<0.1
Fenamidone	ug/l	0.1	N	<0.1
Fenamiphos	ug/l	0.1	N	<0.1
Fenarimol	ug/l	0.1	N	<0.1
Fenbuconazole	ug/l	0.1	N	<0.1
Fenchlorphos	ug/l	0.1	N	<0.1
Fenitrothion	ug/l	0.1	N	<0.1
Fenpiclonil	ug/l	0.1	N	<0.1
Fenpropathrin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenson	**ug/l**	**0.1**	**N**	**0.1**
Fensulfothion	ug/l	0.1	N	<0.1
Fenthion	ug/l	0.1	N	<0.1
Fenvalerate	ug/l	0.1	N	<0.1
Fipronil	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Fipronil sulphone	ug/l	0.1	N	<0.1
Flamprop isopropyl	ug/l	0.1	N	<0.1
Fluazifop-P-Butyl	ug/l	0.1	N	<0.1
Flucythrinate	ug/l	0.1	N	<0.1
Fludioxonil	ug/l	0.1	N	<0.1
Flufenacet	ug/l	0.1	N	<0.1
Flumetralin	ug/l	0.1	N	<0.1
Flumioxazin	ug/l	0.1	N	<0.1
Flumorph	ug/l	0.1	N	<0.1
Fluopyram	ug/l	0.1	N	<0.1
Fluquinconazole	ug/l	0.1	N	<0.1
Fluroxypyr-1-methylheptyl ester	ug/l	0.1	N	<0.1
Flusilazole	ug/l	0.1	N	<0.1
Flutolanil	ug/l	0.1	N	<0.1
Fluxapyroxad	ug/l	0.1	N	<0.1
Fonophos	ug/l	0.1	N	<0.1
Formothion	ug/l	0.1	N	<0.1
Furalaxyl	ug/l	0.1	N	<0.1
Haloxyfop etotyl	ug/l	0.1	N	<0.1
Haloxyfop Methyl	ug/l	0.1	N	<0.1
Heptachlor	ug/l	0.1	N	<0.1
Heptachlor epoxide	ug/l	0.1	N	<0.1
Heptachlor exo Epoxide	ug/l	0.1	N	<0.1
Heptenophos	ug/l	0.1	N	<0.1
Hexachlorobenzene	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (alpha)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (beta)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (delta)	ug/l	0.1	N	<0.1
Hexaconazole	ug/l	0.1	N	<0.1
Hexazinone	ug/l	0.1	N	<0.1
Iodofenphos	ug/l	0.1	N	<0.1
Iprodione	ug/l	0.1	N	<0.1
Isazofos	ug/l	0.1	N	<0.1
Isocarbophos	ug/l	0.1	N	<0.1
Isodrin	ug/l	0.1	N	<0.1
Isofenphos	ug/l	0.1	N	<0.1
Isofenphos Methyl	ug/l	0.1	N	<0.1
Isomethiozin	ug/l	0.1	N	<0.1

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Customer Reference : BH306
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result	Determinand	Units	LOD	Symbol	Result
Isoprothiolane	ug/l	0.1	N	<0.1	Oxadixyl	ug/l	0.1	N	<0.1
Isopyrazam	ug/l	0.1	N	<0.1	Oxyfluorfen	ug/l	0.1	N	<0.1
Kresoxim Methyl	ug/l	0.1	N	<0.1	p,p-DDD	ug/l	0.1	N	<0.1
Lambda Cyhalothrin	ug/l	0.1	N	<0.1	p,p-DDE	ug/l	0.1	N	<0.1
Lenacil	ug/l	0.1	N	<0.1	p,p-DDT	ug/l	0.1	N	<0.1
Leptophos	ug/l	0.1	N	<0.1	Paclobutrazol	ug/l	0.1	N	<0.1
Lindane	ug/l	0.1	N	<0.1	Paraoxon	ug/l	0.1	N	<0.1
Malathion	ug/l	0.1	N	<0.1	Parathion	ug/l	0.1	N	<0.1
MCPA-thioethyl	ug/l	0.1	N	<0.1	Parathion methyl	ug/l	0.1	N	<0.1
Mecarbam	ug/l	0.1	N	<0.1	Penconazole	ug/l	0.1	N	<0.1
Mepanipyrim	ug/l	0.1	N	<0.1	Pendimethalin	ug/l	0.1	N	<0.1
Mephosfolan	ug/l	0.1	N	<0.1	Pentachloroaniline	ug/l	0.1	N	<0.1
Mepronil	ug/l	0.1	N	<0.1	Pentachlorophenol	ug/l	0.1	N	(278) <0.1
Metalaxyl	ug/l	0.1	N	<0.1	Pentanochlor	ug/l	0.1	N	<0.1
Metazachlor	ug/l	0.1	N	<0.1	Permethrin	ug/l	0.1	N	<0.1
Methacrifos	ug/l	0.1	N	<0.1	Pethoxamid	ug/l	0.1	N	<0.1
Methidathion	ug/l	0.1	N	<0.1	Phenothrin	ug/l	0.1	N	<0.1
Methoxychlor	ug/l	0.1	N	<0.1	Phenthoate	ug/l	0.1	N	<0.1
Methyl Paraoxon	ug/l	0.1	N	<0.1	Phorate	ug/l	0.1	N	<0.1
Metolachlor	ug/l	0.1	N	<0.1	Phosalone	ug/l	0.1	N	<0.1
Metolcarb	ug/l	0.1	N	<0.1	Phosfolan	ug/l	0.1	N	<0.1
Metrafenone	ug/l	0.1	N	<0.1	Picoxystrobin	ug/l	0.1	N	<0.1
Metribuzin	ug/l	0.1	N	<0.1	Piperonyl Butoxide	ug/l	0.1	N	<0.1
Mevinphos	ug/l	0.1	N	<0.1	Pirimicarb	ug/l	0.1	N	<0.1
Mirex	ug/l	0.1	N	<0.1	Pirimiphos Ethyl	ug/l	0.1	N	<0.1
Molinate	ug/l	0.1	N	<0.1	Pirimiphos methyl	ug/l	0.1	N	<0.1
Myclobutanil	ug/l	0.1	N	<0.1	Pretilachlor	ug/l	0.1	N	<0.1
Napropamide	ug/l	0.1	N	<0.1	Procymidone	ug/l	0.1	N	<0.1
Nitrofen	ug/l	0.1	N	<0.1	Profenofos	ug/l	0.1	N	<0.1
Nitrothal isopropyl	ug/l	0.1	N	<0.1	Prometon	ug/l	0.1	N	<0.1
Nuarimol	ug/l	0.1	N	<0.1	Prometryn	ug/l	0.1	N	<0.1
o,p'-DDT	ug/l	0.1	N	<0.1	Propachlor	ug/l	0.1	N	<0.1
o,p-DDD	ug/l	0.1	N	<0.1	Propanil	ug/l	0.1	N	<0.1
o,p-DDE	ug/l	0.1	N	<0.1	Propaphos	ug/l	0.1	N	<0.1
Octylisothiazolon	ug/l	0.1	N	<0.1	Propargite	ug/l	0.1	N	<0.1
Ofurace	ug/l	0.1	N	<0.1	Propazine	ug/l	0.1	N	<0.1
Orysastrobin	ug/l	0.1	N	<0.1	Propetamphos	ug/l	0.1	N	<0.1
Oxadiazon	ug/l	0.1	N	<0.1	Propham	ug/l	0.1	N	<0.1

Report Number : 868550 006
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : BH306
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Propiconazole	ug/l	0.1	N	<0.1
Propyzamide	ug/l	0.1	N	<0.1
Proquinazid	ug/l	0.1	N	<0.1
Prosulfocarb	ug/l	0.1	N	<0.1
Prothiofos	ug/l	0.1	N	<0.1
Pyraclostrobin	ug/l	0.1	N	<0.1
Pyraflufen ethyl	ug/l	0.1	N	<0.1
Pyrazophos	ug/l	0.1	N	<0.1
Pyridaben	ug/l	0.1	N	<0.1
Pyridaphenthion	ug/l	0.1	N	<0.1
Pyrimethanil	ug/l	0.1	N	<0.1
Pyriproxyfen	ug/l	0.1	N	<0.1
Quinalphos	ug/l	0.1	N	<0.1
Quinoxyfen	ug/l	0.1	N	<0.1
Quintozene	ug/l	0.1	N	<0.1
Quizalofop-ethyl	ug/l	0.1	N	<0.1
Secbumeton	ug/l	0.1	N	<0.1
Silafluofen	ug/l	0.1	N	<0.1
Simazine	ug/l	0.1	N	<0.1
Simeconazole	ug/l	0.1	N	<0.1
Sulfallate	ug/l	0.1	N	<0.1
Sulprofos	ug/l	0.1	N	<0.1
Tebuconazole	ug/l	0.1	N	<0.1
Tebufenpyrad	ug/l	0.1	N	<0.1
Tebupirimiphos	ug/l	0.1	N	<0.1
Tecnazene	ug/l	0.1	N	<0.1
Tefluthrin	ug/l	0.1	N	<0.1
Terbacil	ug/l	0.1	N	<0.1
Terbufos	ug/l	0.1	N	<0.1
Terbumeton	ug/l	0.1	N	<0.1
Terbuthylazine	ug/l	0.1	N	<0.1
Terbutryn	ug/l	0.1	N	<0.1
Tetrachlorvinphos	ug/l	0.1	N	<0.1
Tetraconazole	ug/l	0.1	N	<0.1
Tetradifon	ug/l	0.1	N	<0.1
tetraethyl dithiopyrophosphate	ug/l	0.1	N	<0.1
Tetramethrin	ug/l	0.1	N	<0.1
Tetrasul	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Thiamethoxam	ug/l	0.1	N	<0.1
Thiobencarb	ug/l	0.1	N	<0.1
Tolclofos-methyl	ug/l	0.1	N	<0.1
Triadimefon	ug/l	0.1	N	<0.1
Triadimenol	ug/l	0.1	N	<0.1
Triallate	ug/l	0.1	N	<0.1
Triazamate	ug/l	0.1	N	<0.1
Triazophos	ug/l	0.1	N	<0.1
Trifloxystrobin	ug/l	0.1	N	<0.1
Triflumizole	ug/l	0.1	N	(278) <0.1
Trifluralin	ug/l	0.1	N	<0.1
Vinclozolin	ug/l	0.1	N	<0.1
Vinclozolin metabolite 3,5-Dichloroaniline	ug/l	0.1	N	(278) <0.1

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Concept Life Sciences

Certificate of Analysis

Unit 2
The Links
Bar Hill
Cambridgeshire
CB23 8UD
Tel : 01954 782791
Fax : 01954 782183

Report Number : 868550 007
Date of Issue : 29-Jul-2020

Customer : Pam Brown Associates
Contact : Dr Melissa Morales
Address : 2 Needwood House, Lancaster Park, Newborough Road, Needwood Burton on Trent, DE13 9PD

Samples Received : 23-Jul-2020
Analysis Started : 24-Jul-2020
Concept Job Reference : 868550-1
Analysis Requested : MRPS by LC (CSOPP603), MRPS by GC (CSOPP611)
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : ASB1
Location : Wheathampstead
Sample Description : Water

Results Summary

Analyte	Level Found	Units	LOD	EU MRL mg/kg	CODEX MRL mg/kg	Symbol
MRPS by LC (CSOPP603)	**No residue detected above the limit of detection.**					
MRPS by GC (CSOPP611)						
EPTC	**0.4**	ug/l	0.1			N
Fenson	**0.2**	ug/l	0.1			N

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.
Customers are responsible for information provided where, if incorrect, it could affect the validity of the results.
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 Concept Life Sciences SOPs
All results have been reviewed in accordance with QMSection 15 of the Concept Life Sciences, Analytical Services Quality Manual
All samples prepared in accordance with the CODEX alimentarius

Report checked
and authorised by :
Matt Line
Section Manager - Pesticides

Issued by :
Naomi Woodward
Customer Service Advisor

Index to symbols used in this report

Value	Description
62	LOD was raised due to the method performance of the analytical procedure used
147	Result has been Recovery corrected.
278	Data reported is qualitative as recovery is outside the 60 to 140% range
N	Analysis is not UKAS accredited

Report Number : 868550 007
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : ASB1
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
2-(1-Naphthyl)acetamide	ug/l	0.1	N	<0.1
3-hydroxycarbofuran	ug/l	0.1	N	<0.1
6-Benzyladenine	ug/l	0.1	N	<0.1
Acephate	ug/l	0.1	N	<0.1
Acetamiprid	ug/l	0.1	N	<0.1
Acibenzolar-S-methyl	ug/l	0.1	N	<0.1
Aldicarb	ug/l	0.1	N	<0.1
Aldicarb sulphone	ug/l	0.1	N	<0.1
Aldicarb sulphoxide	ug/l	0.1	N	<0.1
Aminocarb	ug/l	0.1	N	<0.1
Azadirachtin	ug/l	0.1	N	<0.1
Azinphos ethyl	ug/l	0.1	N	<0.1
Azinphos methyl	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Bendiocarb	ug/l	0.1	N	<0.1
Benfuracarb	ug/l	0.1	N	(278) <0.1
Butralin	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbendazim	ug/l	0.1	N	<0.1
Carbetamide	ug/l	0.1	N	<0.1
Carbofuran	ug/l	0.1	N	<0.1
Carbosulfan	ug/l	0.1	N	(278) <0.1
Carpropamid	ug/l	0.1	N	<0.1
Chinomethionat	ug/l	0.1	N	<0.1
Chlorantraniliprole	ug/l	0.1	N	<0.1
Chlorbromuron	ug/l	0.1	N	<0.1
Chlorfluazuron	ug/l	0.1	N	<0.1
Chloridazon	ug/l	0.1	N	<0.1
Chlorotoluron	ug/l	0.1	N	<0.1
Chlorpropham	ug/l	0.1	N	<0.1
Clofentezine	ug/l	0.1	N	<0.1
Clothianidin	ug/l	0.1	N	<0.1
Cyanazine	ug/l	0.1	N	<0.1
Cyazofamid	ug/l	0.1	N	<0.1
Cycluron	ug/l	0.1	N	<0.1
Cymoxanil	ug/l	0.1	N	<0.1
Cythioate	ug/l	0.1	N	<0.1
Demeton	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Demeton-s-methyl	ug/l	0.1	N	<0.1
Demeton-s-methyl sulphone	ug/l	0.1	N	<0.1
Dichlofluanid	ug/l	0.1	N	<0.1
Dicrotophos	ug/l	0.1	N	<0.1
Diethofencarb	ug/l	0.1	N	<0.1
Diflubenzuron	ug/l	0.1	N	<0.1
Dimefuron	ug/l	0.1	N	<0.1
Dimethoate	ug/l	0.1	N	<0.1
Diniconazole	ug/l	0.1	N	<0.1
Dinotefuran	ug/l	0.1	N	<0.1
Dioxacarb	ug/l	0.1	N	(278) <0.1
Disulfoton sulfoxide	ug/l	0.1	N	<0.1
Disulfoton sulphone	ug/l	0.1	N	<0.1
Diuron	ug/l	0.1	N	<0.1
DMSA	ug/l	0.1	N	<0.1
DMST	ug/l	0.1	N	<0.1
Dodemorph	ug/l	0.1	N	(278) <0.1
Dodine	ug/l	0.1	N	<0.1
Emamectin	ug/l	0.1	N	(278) <0.1
Ethidimuron	ug/l	0.1	N	<0.1
Ethiofencarb	ug/l	0.1	N	<0.1
Ethiofencarb sulfone	ug/l	0.1	N	<0.1
Ethiofencarb sulfoxide	ug/l	0.1	N	<0.1
Ethiprole	ug/l	0.1	N	<0.1
Ethirimol	ug/l	0.1	N	<0.1
Fenamiphos sulfone	ug/l	0.1	N	<0.1
Fenamiphos sulfoxide	ug/l	0.1	N	<0.1
Fenazaquin	ug/l	0.1	N	<0.1
Fenchlorphos oxon	ug/l	0.1	N	<0.1
Fenhexamid	ug/l	0.1	N	<0.1
Fenoxycarb	ug/l	0.1	N	<0.1
Fenpropidin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenpyroximate	ug/l	0.1	N	<0.1
Fenthion Sulphone	ug/l	0.1	N	<0.1
Fenthion Sulphoxide	ug/l	0.1	N	<0.1
Fenuron	ug/l	0.1	N	<0.1
Flonicamid	ug/l	0.1	N	<0.1

Report Number : 868550 007
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : ASB1
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Fluazinam	ug/l	0.1	N	<0.1
Flufenoxuron	ug/l	0.1	N	<0.1
Fluometuron	ug/l	0.1	N	<0.1
Fluopicolide	ug/l	0.1	N	<0.1
Fluorochloridone	ug/l	0.1	N	<0.1
Fluoxastrobin	ug/l	0.1	N	<0.1
Flurtamone	ug/l	0.1	N	<0.1
Flutriafol	ug/l	0.1	N	<0.1
Forchlorfenuron	ug/l	0.1	N	<0.1
Fosthiasate	ug/l	0.1	N	<0.1
Fuberidazole	ug/l	0.1	N	<0.1
Furathiocarb	ug/l	0.1	N	<0.1
Hexaflumuron	ug/l	0.1	N	<0.1
Hexythiazox	ug/l	0.1	N	<0.1
Imazalil	ug/l	0.1	N	(278) <0.1
Imibenconazole	ug/l	0.1	N	<0.1
Imidacloprid	ug/l	0.1	N	<0.1
Indoxacarb	ug/l	0.1	N	<0.1
Iprovalicarb	ug/l	0.1	N	<0.1
Isoprocarb	ug/l	0.1	N	<0.1
Isoproturon	ug/l	0.1	N	<0.1
Isoxaben	ug/l	0.1	N	<0.1
Karbutilate	ug/l	0.1	N	<0.1
Linuron	ug/l	0.1	N	<0.1
Lufenuron	ug/l	0.1	N	<0.1
Malaoxon	ug/l	0.1	N	<0.1
Mandipropamid	ug/l	0.1	N	<0.1
Mefenacet	ug/l	0.1	N	<0.1
Metamitron	ug/l	0.1	N	<0.1
Metconazole	ug/l	0.1	N	<0.1
Methabenzthiazuron	ug/l	0.1	N	<0.1
Methamidophos	ug/l	0.1	N	<0.1
Methiocarb	ug/l	0.1	N	<0.1
Methiocarb Sulfone	ug/l	0.1	N	<0.1
Methiocarb Sulfoxide	ug/l	0.1	N	<0.1
Methomyl	ug/l	0.1	N	<0.1
Methoxyfenozide	ug/l	0.1	N	<0.1
Metobromuron	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Metoxuron	ug/l	0.1	N	<0.1
Monocrotophos	ug/l	0.1	N	<0.1
Monolinuron	ug/l	0.1	N	<0.1
Monuron	ug/l	0.1	N	<0.1
Neburon	ug/l	0.1	N	<0.1
Nicotine	ug/l	0.1	N	<0.1
Nitenpyram	ug/l	0.1	N	<0.1
Novaluron	ug/l	0.1	N	<0.1
Omethoate	ug/l	0.1	N	<0.1
Oxadiargyl	ug/l	0.1	N	<0.1
Oxamyl	ug/l	0.1	N	<0.1
Oxycarboxin	ug/l	0.1	N	<0.1
Oxydemeton-Methyl	ug/l	0.1	N	<0.1
Pencycuron	ug/l	0.1	N	<0.1
Phorate sulfone	ug/l	0.1	N	<0.1
Phorate sulfoxide	ug/l	0.1	N	<0.1
Phosmet	ug/l	0.1	N	<0.1
Phosphamidon	ug/l	0.1	N	<0.1
Phoxim	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	<0.1
Prochloraz	ug/l	0.1	N	<0.1
Promecarb	ug/l	0.1	N	<0.1
Propamocarb	ug/l	0.1	N	<0.1
Propaquizafop	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	<0.1
Propoxur	ug/l	0.1	N	<0.1
Pymetrozine	ug/l	0.1	N	<0.1
Pyrifenox	ug/l	0.1	N	<0.1
Resmethrin	ug/l	0.1	N	<0.1
Rotenone	ug/l	0.1	N	<0.1
Spinosad	ug/l	0.1	N	<0.1
Spirodiclofen	ug/l	0.1	N	<0.1
Spiromesifen	ug/l	0.1	N	<0.1
Spiroxamine	ug/l	0.1	N	<0.1
Tebufenozide	ug/l	0.1	N	<0.1
Teflubenzuron	ug/l	0.1	N	<0.1
Temephos	ug/l	0.1	N	<0.1
Terbufos sulfone	ug/l	0.1	N	<0.1

Report Number : 868550 007
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : ASB1
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Terbufos sulfoxide	ug/l	0.1	N	<0.1
Thiabendazole	ug/l	0.1	N	<0.1
Thiacloprid	ug/l	0.1	N	<0.1
Thiazafluron	ug/l	0.1	N	<0.1
Thiodicarb	ug/l	0.1	N	<0.1
Thiofanox	ug/l	0.1	N	<0.1
Thiophanate Methyl	ug/l	0.1	N	<0.1
Tolylfluanid	ug/l	0.1	N	<0.1
Trichlorfon	ug/l	0.1	N	<0.1
Tridemorph	ug/l	0.1	N	<0.1
Trifloxysulfuron	ug/l	0.1	N	<0.1
Triflumuron	ug/l	0.1	N	<0.1
Triflusulfuron-methyl	ug/l	0.1	N	<0.1
Triticonazole	ug/l	0.1	N	<0.1
Vamidothion	ug/l	0.1	N	<0.1
Vernolate	ug/l	0.1	N	<0.1
Zoxamide	ug/l	0.1	N	<0.1

Report Number : 868550 007
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : ASB1
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
2,4,6-Trichlorophenol	ug/l	0.1	N	<0.1
2-Phenylphenol	ug/l	0.1	N	<0.1
Acetochlor	ug/l	0.1	N	<0.1
Aclonifen	ug/l	0.1	N	<0.1
Acrinathrin	ug/l	0.1	N	<0.1
Alachlor	ug/l	0.1	N	<0.1
Aldrin	ug/l	0.1	N	<0.1
Ametryn	ug/l	0.1	N	<0.1
Atraton	ug/l	0.1	N	<0.1
Atrazine	ug/l	0.1	N	<0.1
Azaconazole	ug/l	0.1	N	<0.1
Azobenzene	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Benalaxyl	ug/l	0.1	N	<0.1
Benfluralin	ug/l	0.1	N	<0.1
Bifenox	ug/l	0.1	N	<0.1
Bifenthrin	ug/l	0.1	N	<0.1
Binapacryl	ug/l	0.1	N	(278) <0.1
Biphenyl	ug/l	1.2	N	(62, 278) <1.2
Bitertanol	ug/l	0.1	N	<0.1
Boscalid	ug/l	0.1	N	<0.1
Bromacil	ug/l	0.1	N	<0.1
Bromophos	ug/l	0.1	N	<0.1
Bromophos-Ethyl	ug/l	0.1	N	<0.1
Bromopropylate	ug/l	0.1	N	<0.1
Bupirimate	ug/l	0.1	N	<0.1
Buprofezine	ug/l	0.1	N	<0.1
Butachlor	ug/l	0.1	N	<0.1
Cadusafos	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbophenothion	ug/l	0.1	N	<0.1
Carboxine	ug/l	0.1	N	(278) <0.1
Carfentrazone Ethyl	ug/l	0.1	N	<0.1
Chlorobenzilate	ug/l	0.1	N	(278) <0.1
Chlordane (sum of cis and trans isomers)	ug/l	0.1	N	<0.1
Chlordimeform	ug/l	0.1	N	(278) <0.1
Chlorethoxyfos	ug/l	0.1	N	<0.1
Chlorfenapyr	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Chlorfenvinphos	ug/l	0.1	N	<0.1
Chlormephos	ug/l	0.1	N	<0.1
Chloropropylate	ug/l	0.1	N	<0.1
Chlorothalonil	ug/l	0.1	N	<0.1
Chlorpropham	ug/l	0.1	N	<0.1
Chlorpyrifos	ug/l	0.1	N	<0.1
Chlorpyrifos methyl	ug/l	0.1	N	<0.1
Chlorthal Dimethyl	ug/l	0.1	N	<0.1
Chlorthion	ug/l	0.1	N	<0.1
Chlorthiophos	ug/l	0.1	N	<0.1
Chlozolinate	ug/l	0.1	N	<0.1
Clodinafop Propargyl	ug/l	0.1	N	<0.1
Clomazone	ug/l	0.1	N	<0.1
Cloquintocet mexyl	ug/l	0.1	N	<0.1
Coumaphos	ug/l	0.1	N	<0.1
Cyflufenamid	ug/l	0.1	N	<0.1
Cyfluthrin	ug/l	0.1	N	<0.1
Cypermethrin	ug/l	0.1	N	<0.1
Cyphenothrin	ug/l	0.1	N	<0.1
Cyproconazole	ug/l	0.1	N	<0.1
Cyprodinil	ug/l	0.1	N	<0.1
Deltamethrin	ug/l	0.1	N	<0.1
Desmetryn	ug/l	0.1	N	<0.1
Diafenthiuron	ug/l	0.1	N	<0.1
Dialifos	ug/l	0.1	N	<0.1
Diazinon	ug/l	0.1	N	<0.1
Dichlobenil	ug/l	0.1	N	<0.1
Dichlofenthion	ug/l	0.1	N	<0.1
Dichlorvos	ug/l	0.1	N	<0.1
Diclobutrazol	ug/l	0.1	N	<0.1
Dicloran	ug/l	0.1	N	<0.1
Dicofol	ug/l	0.1	N	<0.1
Dieldrin	ug/l	0.1	N	<0.1
Difenoconazole	ug/l	0.1	N	<0.1
Diflufenican	ug/l	0.1	N	<0.1
Dimethenamid	ug/l	0.1	N	<0.1
Dimethomorph	ug/l	0.1	N	<0.1
Dimoxystrobin	ug/l	0.1	N	<0.1

Report Number : 868550 007
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : ASB1
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Dioxabenzofos	ug/l	0.1	N	(278) <0.1
Diphenamid	ug/l	0.1	N	<0.1
Diphenylamine	ug/l	0.1	N	<0.1
Disulfoton	ug/l	0.1	N	<0.1
Ditalimfos	ug/l	0.1	N	<0.1
Edifenphos	ug/l	0.1	N	<0.1
Endosulphan alpha	ug/l	0.1	N	<0.1
Endosulphan beta	ug/l	0.1	N	<0.1
Endosulphan sulphate	ug/l	0.1	N	<0.1
Endrin	ug/l	0.1	N	<0.1
EPN	ug/l	0.1	N	<0.1
Epoxiconazole	ug/l	0.1	N	<0.1
EPTC	**ug/l**	**0.1**	**N**	**0.4**
Etaconazole	ug/l	0.1	N	<0.1
Ethion	ug/l	0.1	N	<0.1
Ethofumesate	ug/l	0.1	N	<0.1
Ethoprophos	ug/l	0.1	N	<0.1
Ethoxyquin	ug/l	0.1	N	(278) <0.1
Etofenprox	ug/l	0.1	N	<0.1
Etoxazole	ug/l	0.1	N	<0.1
Etridiazole	ug/l	0.1	N	<0.1
Etrimfos	ug/l	0.1	N	<0.1
Famoxadone	ug/l	0.1	N	<0.1
Famphur	ug/l	0.1	N	<0.1
Fenamidone	ug/l	0.1	N	<0.1
Fenamiphos	ug/l	0.1	N	<0.1
Fenarimol	ug/l	0.1	N	<0.1
Fenbuconazole	ug/l	0.1	N	<0.1
Fenchlorphos	ug/l	0.1	N	<0.1
Fenitrothion	ug/l	0.1	N	<0.1
Fenpiclonil	ug/l	0.1	N	<0.1
Fenpropathrin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenson	**ug/l**	**0.1**	**N**	**0.2**
Fensulfothion	ug/l	0.1	N	<0.1
Fenthion	ug/l	0.1	N	<0.1
Fenvalerate	ug/l	0.1	N	<0.1
Fipronil	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Fipronil sulphone	ug/l	0.1	N	<0.1
Flamprop isopropyl	ug/l	0.1	N	<0.1
Fluazifop-P-Butyl	ug/l	0.1	N	<0.1
Flucythrinate	ug/l	0.1	N	<0.1
Fludioxonil	ug/l	0.1	N	<0.1
Flufenacet	ug/l	0.1	N	<0.1
Flumetralin	ug/l	0.1	N	<0.1
Flumioxazin	ug/l	0.1	N	<0.1
Flumorph	ug/l	0.1	N	<0.1
Fluopyram	ug/l	0.1	N	<0.1
Fluquinconazole	ug/l	0.1	N	<0.1
Fluroxypyr-1-methylheptyl ester	ug/l	0.1	N	<0.1
Flusilazole	ug/l	0.1	N	<0.1
Flutolanil	ug/l	0.1	N	<0.1
Fluxapyroxad	ug/l	0.1	N	<0.1
Fonophos	ug/l	0.1	N	<0.1
Formothion	ug/l	0.1	N	<0.1
Furalaxyl	ug/l	0.1	N	<0.1
Haloxyfop etotyl	ug/l	0.1	N	<0.1
Haloxyfop Methyl	ug/l	0.1	N	<0.1
Heptachlor	ug/l	0.1	N	<0.1
Heptachlor epoxide	ug/l	0.1	N	<0.1
Heptachlor exo Epoxide	ug/l	0.1	N	<0.1
Heptenophos	ug/l	0.1	N	<0.1
Hexachlorobenzene	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (alpha)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (beta)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (delta)	ug/l	0.1	N	<0.1
Hexaconazole	ug/l	0.1	N	<0.1
Hexazinone	ug/l	0.1	N	<0.1
Iodofenphos	ug/l	0.1	N	<0.1
Iprodione	ug/l	0.1	N	<0.1
Isazofos	ug/l	0.1	N	<0.1
Isocarbophos	ug/l	0.1	N	<0.1
Isodrin	ug/l	0.1	N	<0.1
Isofenphos	ug/l	0.1	N	<0.1
Isofenphos Methyl	ug/l	0.1	N	<0.1
Isomethiozin	ug/l	0.1	N	<0.1

Report Number : 868550 007
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : ASB1
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result	Determinand	Units	LOD	Symbol	Result
Isoprothiolane	ug/l	0.1	N	<0.1	Oxadixyl	ug/l	0.1	N	<0.1
Isopyrazam	ug/l	0.1	N	<0.1	Oxyfluorfen	ug/l	0.1	N	<0.1
Kresoxim Methyl	ug/l	0.1	N	<0.1	p,p-DDD	ug/l	0.1	N	<0.1
Lambda Cyhalothrin	ug/l	0.1	N	<0.1	p,p-DDE	ug/l	0.1	N	<0.1
Lenacil	ug/l	0.1	N	<0.1	p,p-DDT	ug/l	0.1	N	<0.1
Leptophos	ug/l	0.1	N	<0.1	Paclobutrazol	ug/l	0.1	N	<0.1
Lindane	ug/l	0.1	N	<0.1	Paraoxon	ug/l	0.1	N	<0.1
Malathion	ug/l	0.1	N	<0.1	Parathion	ug/l	0.1	N	<0.1
MCPA-thioethyl	ug/l	0.1	N	<0.1	Parathion methyl	ug/l	0.1	N	<0.1
Mecarbam	ug/l	0.1	N	<0.1	Penconazole	ug/l	0.1	N	<0.1
Mepanipyrim	ug/l	0.1	N	<0.1	Pendimethalin	ug/l	0.1	N	<0.1
Mephosfolan	ug/l	0.1	N	<0.1	Pentachloroaniline	ug/l	0.1	N	<0.1
Mepronil	ug/l	0.1	N	<0.1	Pentachlorophenol	ug/l	0.1	N	(278) <0.1
Metalaxyl	ug/l	0.1	N	<0.1	Pentanochlor	ug/l	0.1	N	<0.1
Metazachlor	ug/l	0.1	N	<0.1	Permethrin	ug/l	0.1	N	<0.1
Methacrifos	ug/l	0.1	N	<0.1	Pethoxamid	ug/l	0.1	N	<0.1
Methidathion	ug/l	0.1	N	<0.1	Phenothrin	ug/l	0.1	N	<0.1
Methoxychlor	ug/l	0.1	N	<0.1	Phenthoate	ug/l	0.1	N	<0.1
Methyl Paraoxon	ug/l	0.1	N	<0.1	Phorate	ug/l	0.1	N	<0.1
Metolachlor	ug/l	0.1	N	<0.1	Phosalone	ug/l	0.1	N	<0.1
Metolcarb	ug/l	0.1	N	<0.1	Phosfolan	ug/l	0.1	N	<0.1
Metrafenone	ug/l	0.1	N	<0.1	Picoxystrobin	ug/l	0.1	N	<0.1
Metribuzin	ug/l	0.1	N	<0.1	Piperonyl Butoxide	ug/l	0.1	N	<0.1
Mevinphos	ug/l	0.1	N	<0.1	Pirimicarb	ug/l	0.1	N	<0.1
Mirex	ug/l	0.1	N	<0.1	Pirimiphos Ethyl	ug/l	0.1	N	<0.1
Molinate	ug/l	0.1	N	<0.1	Pirimiphos methyl	ug/l	0.1	N	<0.1
Myclobutanil	ug/l	0.1	N	<0.1	Pretilachlor	ug/l	0.1	N	<0.1
Napropamide	ug/l	0.1	N	<0.1	Procymidone	ug/l	0.1	N	<0.1
Nitrofen	ug/l	0.1	N	<0.1	Profenofos	ug/l	0.1	N	<0.1
Nitrothal isopropyl	ug/l	0.1	N	<0.1	Prometon	ug/l	0.1	N	<0.1
Nuarimol	ug/l	0.1	N	<0.1	Prometryn	ug/l	0.1	N	<0.1
o,p'-DDT	ug/l	0.1	N	<0.1	Propachlor	ug/l	0.1	N	<0.1
o,p-DDD	ug/l	0.1	N	<0.1	Propanil	ug/l	0.1	N	<0.1
o,p-DDE	ug/l	0.1	N	<0.1	Propaphos	ug/l	0.1	N	<0.1
Octylisothiazolon	ug/l	0.1	N	<0.1	Propargite	ug/l	0.1	N	<0.1
Ofurace	ug/l	0.1	N	<0.1	Propazine	ug/l	0.1	N	<0.1
Orysastrobin	ug/l	0.1	N	<0.1	Propetamphos	ug/l	0.1	N	<0.1
Oxadiazon	ug/l	0.1	N	<0.1	Propham	ug/l	0.1	N	<0.1

Report Number : 868550 007
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : ASB1
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Propiconazole	ug/l	0.1	N	<0.1
Propyzamide	ug/l	0.1	N	<0.1
Proquinazid	ug/l	0.1	N	<0.1
Prosulfocarb	ug/l	0.1	N	<0.1
Prothiofos	ug/l	0.1	N	<0.1
Pyraclostrobin	ug/l	0.1	N	<0.1
Pyraflufen ethyl	ug/l	0.1	N	<0.1
Pyrazophos	ug/l	0.1	N	<0.1
Pyridaben	ug/l	0.1	N	<0.1
Pyridaphenthion	ug/l	0.1	N	<0.1
Pyrimethanil	ug/l	0.1	N	<0.1
Pyriproxyfen	ug/l	0.1	N	<0.1
Quinalphos	ug/l	0.1	N	<0.1
Quinoxyfen	ug/l	0.1	N	<0.1
Quintozene	ug/l	0.1	N	<0.1
Quizalofop-ethyl	ug/l	0.1	N	<0.1
Secbumeton	ug/l	0.1	N	<0.1
Silafluofen	ug/l	0.1	N	<0.1
Simazine	ug/l	0.1	N	<0.1
Simeconazole	ug/l	0.1	N	<0.1
Sulfallate	ug/l	0.1	N	<0.1
Sulprofos	ug/l	0.1	N	<0.1
Tebuconazole	ug/l	0.1	N	<0.1
Tebufenpyrad	ug/l	0.1	N	<0.1
Tebupirimiphos	ug/l	0.1	N	<0.1
Tecnazene	ug/l	0.1	N	<0.1
Tefluthrin	ug/l	0.1	N	<0.1
Terbacil	ug/l	0.1	N	<0.1
Terbufos	ug/l	0.1	N	<0.1
Terbumeton	ug/l	0.1	N	<0.1
Terbuthylazine	ug/l	0.1	N	<0.1
Terbutryn	ug/l	0.1	N	<0.1
Tetrachlorvinphos	ug/l	0.1	N	<0.1
Tetraconazole	ug/l	0.1	N	<0.1
Tetradifon	ug/l	0.1	N	<0.1
tetraethyl dithiopyrophosphate	ug/l	0.1	N	<0.1
Tetramethrin	ug/l	0.1	N	<0.1
Tetrasul	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Thiamethoxam	ug/l	0.1	N	<0.1
Thiobencarb	ug/l	0.1	N	<0.1
Tolclofos-methyl	ug/l	0.1	N	<0.1
Triadimefon	ug/l	0.1	N	<0.1
Triadimenol	ug/l	0.1	N	<0.1
Triallate	ug/l	0.1	N	<0.1
Triazamate	ug/l	0.1	N	<0.1
Triazophos	ug/l	0.1	N	<0.1
Trifloxystrobin	ug/l	0.1	N	<0.1
Triflumizole	ug/l	0.1	N	(278) <0.1
Trifluralin	ug/l	0.1	N	<0.1
Vinclozolin	ug/l	0.1	N	<0.1
Vinclozolin metabolite 3,5-Dichloroaniline	ug/l	0.1	N	(278) <0.1

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Concept Life Sciences

Certificate of Analysis

Unit 2
The Links
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Report Number : 868550 008
Date of Issue : 29-Jul-2020

Customer : Pam Brown Associates
Contact : Dr Melissa Morales
Address : 2 Needwood House, Lancaster Park, Newborough Road, Needwood Burton on Trent, DE13 9PD

Samples Received : 23-Jul-2020
Analysis Started : 24-Jul-2020
Concept Job Reference : 868550-1
Analysis Requested : MRPS by LC (CSOPP603), MRPS by GC (CSOPP611)
Variety : Groundwater
Date Sampled : 23-JUL-2020
Customer Reference : WS102
Location : Wheathampstead
Sample Description : Water

Results Summary

Analyte	Level Found	Units	LOD	EU MRL mg/kg	CODEX MRL mg/kg	Symbol
MRPS by LC (CSOPP603)	**No residue detected above the limit of detection.**					
MRPS by GC (CSOPP611)	**No residue detected above the limit of detection.**					

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.
Customers are responsible for information provided where, if incorrect, it could affect the validity of the results.
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 Concept Life Sciences SOPs
All results have been reviewed in accordance with QMSection 15 of the Concept Life Sciences, Analytical Services Quality Manual
All samples prepared in accordance with the CODEX alimentarius

Report checked
and authorised by :
Matt Line
Section Manager - Pesticides

Issued by :
Naomi Woodward
Customer Service Advisor

Index to symbols used in this report

Value	Description
62	LOD was raised due to the method performance of the analytical procedure used
147	Result has been Recovery corrected.
278	Data reported is qualitative as recovery is outside the 60 to 140% range
N	Analysis is not UKAS accredited

Report Number : 868550 008
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 23-JUL-2020
Customer Reference : WS102
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
2-(1-Naphthyl)acetamide	ug/l	0.1	N	<0.1
3-hydroxycarbofuran	ug/l	0.1	N	<0.1
6-Benzyladenine	ug/l	0.1	N	<0.1
Acephate	ug/l	0.1	N	<0.1
Acetamiprid	ug/l	0.1	N	<0.1
Acibenzolar-S-methyl	ug/l	0.1	N	<0.1
Aldicarb	ug/l	0.1	N	<0.1
Aldicarb sulphone	ug/l	0.1	N	<0.1
Aldicarb sulphoxide	ug/l	0.1	N	<0.1
Aminocarb	ug/l	0.1	N	<0.1
Azadirachtin	ug/l	0.1	N	<0.1
Azinphos ethyl	ug/l	0.1	N	<0.1
Azinphos methyl	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Bendiocarb	ug/l	0.1	N	<0.1
Benfuracarb	ug/l	0.1	N	(278) <0.1
Butralin	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbendazim	ug/l	0.1	N	<0.1
Carbetamide	ug/l	0.1	N	<0.1
Carbofuran	ug/l	0.1	N	<0.1
Carbosulfan	ug/l	0.1	N	(278) <0.1
Carpropamid	ug/l	0.1	N	<0.1
Chinomethionat	ug/l	0.1	N	<0.1
Chlorantraniliprole	ug/l	0.1	N	<0.1
Chlorbromuron	ug/l	0.1	N	<0.1
Chlorfluazuron	ug/l	0.1	N	<0.1
Chloridazon	ug/l	0.1	N	<0.1
Chlorotoluron	ug/l	0.1	N	<0.1
Chlorpropham	ug/l	0.1	N	<0.1
Clofentezine	ug/l	0.1	N	<0.1
Clothianidin	ug/l	0.1	N	<0.1
Cyanazine	ug/l	0.1	N	<0.1
Cyazofamid	ug/l	0.1	N	<0.1
Cycluron	ug/l	0.1	N	<0.1
Cymoxanil	ug/l	0.1	N	<0.1
Cythioate	ug/l	0.1	N	<0.1
Demeton	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Demeton-s-methyl	ug/l	0.1	N	<0.1
Demeton-s-methyl sulphone	ug/l	0.1	N	<0.1
Dichlofluanid	ug/l	0.1	N	<0.1
Dicrotophos	ug/l	0.1	N	<0.1
Diethofencarb	ug/l	0.1	N	<0.1
Diflubenzuron	ug/l	0.1	N	<0.1
Dimefuron	ug/l	0.1	N	<0.1
Dimethoate	ug/l	0.1	N	<0.1
Diniconazole	ug/l	0.1	N	<0.1
Dinotefuran	ug/l	0.1	N	<0.1
Dioxacarb	ug/l	0.1	N	(278) <0.1
Disulfoton sulfoxide	ug/l	0.1	N	<0.1
Disulfoton sulphone	ug/l	0.1	N	<0.1
Diuron	ug/l	0.1	N	<0.1
DMSA	ug/l	0.1	N	<0.1
DMST	ug/l	0.1	N	<0.1
Dodemorph	ug/l	0.1	N	(278) <0.1
Dodine	ug/l	0.1	N	<0.1
Emamectin	ug/l	0.1	N	(278) <0.1
Ethidimuron	ug/l	0.1	N	<0.1
Ethiofencarb	ug/l	0.1	N	<0.1
Ethiofencarb sulfone	ug/l	0.1	N	<0.1
Ethiofencarb sulfoxide	ug/l	0.1	N	<0.1
Ethiprole	ug/l	0.1	N	<0.1
Ethirimol	ug/l	0.1	N	<0.1
Fenamiphos sulfone	ug/l	0.1	N	<0.1
Fenamiphos sulfoxide	ug/l	0.1	N	<0.1
Fenazaquin	ug/l	0.1	N	<0.1
Fenchlorphos oxon	ug/l	0.1	N	<0.1
Fenhexamid	ug/l	0.1	N	<0.1
Fenoxycarb	ug/l	0.1	N	<0.1
Fenpropidin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenpyroximate	ug/l	0.1	N	<0.1
Fenthion Sulphone	ug/l	0.1	N	<0.1
Fenthion Sulphoxide	ug/l	0.1	N	<0.1
Fenuron	ug/l	0.1	N	<0.1
Flonicamid	ug/l	0.1	N	<0.1

Report Number : 868550 008
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 23-JUL-2020
Customer Reference : WS102
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Fluazinam	ug/l	0.1	N	<0.1
Flufenoxuron	ug/l	0.1	N	<0.1
Fluometuron	ug/l	0.1	N	<0.1
Fluopicolide	ug/l	0.1	N	<0.1
Fluorochloridone	ug/l	0.1	N	<0.1
Fluoxastrobin	ug/l	0.1	N	<0.1
Flurtamone	ug/l	0.1	N	<0.1
Flutriafol	ug/l	0.1	N	<0.1
Forchlorfenuron	ug/l	0.1	N	<0.1
Fosthiasate	ug/l	0.1	N	<0.1
Fuberidazole	ug/l	0.1	N	<0.1
Furathiocarb	ug/l	0.1	N	<0.1
Hexaflumuron	ug/l	0.1	N	<0.1
Hexythiazox	ug/l	0.1	N	<0.1
Imazalil	ug/l	0.1	N	(278) <0.1
Imibenconazole	ug/l	0.1	N	<0.1
Imidacloprid	ug/l	0.1	N	<0.1
Indoxacarb	ug/l	0.1	N	<0.1
Iprovalicarb	ug/l	0.1	N	<0.1
Isoprocarb	ug/l	0.1	N	<0.1
Isoproturon	ug/l	0.1	N	<0.1
Isoxaben	ug/l	0.1	N	<0.1
Karbutilate	ug/l	0.1	N	<0.1
Linuron	ug/l	0.1	N	<0.1
Lufenuron	ug/l	0.1	N	<0.1
Malaoxon	ug/l	0.1	N	<0.1
Mandipropamid	ug/l	0.1	N	<0.1
Mefenacet	ug/l	0.1	N	<0.1
Metamitron	ug/l	0.1	N	<0.1
Metconazole	ug/l	0.1	N	<0.1
Methabenzthiazuron	ug/l	0.1	N	<0.1
Methamidophos	ug/l	0.1	N	<0.1
Methiocarb	ug/l	0.1	N	<0.1
Methiocarb Sulfone	ug/l	0.1	N	<0.1
Methiocarb Sulfoxide	ug/l	0.1	N	<0.1
Methomyl	ug/l	0.1	N	<0.1
Methoxyfenozide	ug/l	0.1	N	<0.1
Metobromuron	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Metoxuron	ug/l	0.1	N	<0.1
Monocrotophos	ug/l	0.1	N	<0.1
Monolinuron	ug/l	0.1	N	<0.1
Monuron	ug/l	0.1	N	<0.1
Neburon	ug/l	0.1	N	<0.1
Nicotine	ug/l	0.1	N	<0.1
Nitenpyram	ug/l	0.1	N	<0.1
Novaluron	ug/l	0.1	N	<0.1
Omethoate	ug/l	0.1	N	<0.1
Oxadiargyl	ug/l	0.1	N	<0.1
Oxamyl	ug/l	0.1	N	<0.1
Oxycarboxin	ug/l	0.1	N	<0.1
Oxydemeton-Methyl	ug/l	0.1	N	<0.1
Pencycuron	ug/l	0.1	N	<0.1
Phorate sulfone	ug/l	0.1	N	<0.1
Phorate sulfoxide	ug/l	0.1	N	<0.1
Phosmet	ug/l	0.1	N	<0.1
Phosphamidon	ug/l	0.1	N	<0.1
Phoxim	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	<0.1
Prochloraz	ug/l	0.1	N	<0.1
Promecarb	ug/l	0.1	N	<0.1
Propamocarb	ug/l	0.1	N	<0.1
Propaquizafop	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	<0.1
Propoxur	ug/l	0.1	N	<0.1
Pymetrozine	ug/l	0.1	N	<0.1
Pyrifenox	ug/l	0.1	N	<0.1
Resmethrin	ug/l	0.1	N	<0.1
Rotenone	ug/l	0.1	N	<0.1
Spinosad	ug/l	0.1	N	<0.1
Spirodiclofen	ug/l	0.1	N	<0.1
Spiromesifen	ug/l	0.1	N	<0.1
Spiroxamine	ug/l	0.1	N	<0.1
Tebufenozide	ug/l	0.1	N	<0.1
Teflubenzuron	ug/l	0.1	N	<0.1
Temephos	ug/l	0.1	N	<0.1
Terbufos sulfone	ug/l	0.1	N	<0.1

Report Number : 868550 008
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 23-JUL-2020
Customer Reference : WS102
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Terbufos sulfoxide	ug/l	0.1	N	<0.1
Thiabendazole	ug/l	0.1	N	<0.1
Thiacloprid	ug/l	0.1	N	<0.1
Thiazafluron	ug/l	0.1	N	<0.1
Thiodicarb	ug/l	0.1	N	<0.1
Thiofanox	ug/l	0.1	N	<0.1
Thiophanate Methyl	ug/l	0.1	N	<0.1
Tolylfluanid	ug/l	0.1	N	<0.1
Trichlorfon	ug/l	0.1	N	<0.1
Tridemorph	ug/l	0.1	N	<0.1
Trifloxysulfuron	ug/l	0.1	N	<0.1
Triflumuron	ug/l	0.1	N	<0.1
Triflusulfuron-methyl	ug/l	0.1	N	<0.1
Triticonazole	ug/l	0.1	N	<0.1
Vamidothion	ug/l	0.1	N	<0.1
Vernolate	ug/l	0.1	N	<0.1
Zoxamide	ug/l	0.1	N	<0.1

Report Number : 868550 008
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 23-JUL-2020
Customer Reference : WS102
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
2,4,6-Trichlorophenol	ug/l	0.1	N	<0.1
2-Phenylphenol	ug/l	0.1	N	<0.1
Acetochlor	ug/l	0.1	N	<0.1
Aclonifen	ug/l	0.1	N	<0.1
Acrinathrin	ug/l	0.1	N	<0.1
Alachlor	ug/l	0.1	N	<0.1
Aldrin	ug/l	0.1	N	<0.1
Ametryn	ug/l	0.1	N	<0.1
Atraton	ug/l	0.1	N	<0.1
Atrazine	ug/l	0.1	N	<0.1
Azaconazole	ug/l	0.1	N	<0.1
Azobenzene	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Benalaxyl	ug/l	0.1	N	<0.1
Benfluralin	ug/l	0.1	N	<0.1
Bifenox	ug/l	0.1	N	<0.1
Bifenthrin	ug/l	0.1	N	<0.1
Binapacryl	ug/l	0.1	N	(278) <0.1
Biphenyl	ug/l	1.2	N	(278, 62) <1.2
Bitertanol	ug/l	0.1	N	<0.1
Boscalid	ug/l	0.1	N	<0.1
Bromacil	ug/l	0.1	N	<0.1
Bromophos	ug/l	0.1	N	<0.1
Bromophos-Ethyl	ug/l	0.1	N	<0.1
Bromopropylate	ug/l	0.1	N	<0.1
Bupirimate	ug/l	0.1	N	<0.1
Buprofezine	ug/l	0.1	N	<0.1
Butachlor	ug/l	0.1	N	<0.1
Cadusafos	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbophenothion	ug/l	0.1	N	<0.1
Carboxine	ug/l	0.1	N	(278) <0.1
Carfentrazone Ethyl	ug/l	0.1	N	<0.1
Chlorobenzilate	ug/l	0.1	N	(278) <0.1
Chlordane (sum of cis and trans isomers)	ug/l	0.1	N	<0.1
Chlordimeform	ug/l	0.1	N	(278) <0.1
Chlorethoxyfos	ug/l	0.1	N	<0.1
Chlorfenapyr	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Chlorfenvinphos	ug/l	0.1	N	<0.1
Chlormephos	ug/l	0.1	N	<0.1
Chloropropylate	ug/l	0.1	N	<0.1
Chlorothalonil	ug/l	0.1	N	<0.1
Chlorpropham	ug/l	0.1	N	<0.1
Chlorpyrifos	ug/l	0.1	N	<0.1
Chlorpyrifos methyl	ug/l	0.1	N	<0.1
Chlorthal Dimethyl	ug/l	0.1	N	<0.1
Chlorthion	ug/l	0.1	N	<0.1
Chlorthiophos	ug/l	0.1	N	<0.1
Chlozolinate	ug/l	0.1	N	<0.1
Clodinafop Propargyl	ug/l	0.1	N	<0.1
Clomazone	ug/l	0.1	N	<0.1
Cloquintocet mexyl	ug/l	0.1	N	<0.1
Coumaphos	ug/l	0.1	N	<0.1
Cyflufenamid	ug/l	0.1	N	<0.1
Cyfluthrin	ug/l	0.1	N	<0.1
Cypermethrin	ug/l	0.1	N	<0.1
Cyphenothrin	ug/l	0.1	N	<0.1
Cyproconazole	ug/l	0.1	N	<0.1
Cyprodinil	ug/l	0.1	N	<0.1
Deltamethrin	ug/l	0.1	N	<0.1
Desmetryn	ug/l	0.1	N	<0.1
Diafenthiuron	ug/l	0.1	N	<0.1
Dialifos	ug/l	0.1	N	<0.1
Diazinon	ug/l	0.1	N	<0.1
Dichlobenil	ug/l	0.1	N	<0.1
Dichlofenthion	ug/l	0.1	N	<0.1
Dichlorvos	ug/l	0.1	N	<0.1
Diclobutrazol	ug/l	0.1	N	<0.1
Dicloran	ug/l	0.1	N	<0.1
Dicofol	ug/l	0.1	N	<0.1
Dieldrin	ug/l	0.1	N	<0.1
Difenoconazole	ug/l	0.1	N	<0.1
Diflufenican	ug/l	0.1	N	<0.1
Dimethenamid	ug/l	0.1	N	<0.1
Dimethomorph	ug/l	0.1	N	<0.1
Dimoxystrobin	ug/l	0.1	N	<0.1

Report Number : 868550 008
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 23-JUL-2020
Customer Reference : WS102
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Dioxabenzofos	ug/l	0.1	N	(278) <0.1
Diphenamid	ug/l	0.1	N	<0.1
Diphenylamine	ug/l	0.1	N	<0.1
Disulfoton	ug/l	0.1	N	<0.1
Ditalimfos	ug/l	0.1	N	<0.1
Edifenphos	ug/l	0.1	N	<0.1
Endosulphan alpha	ug/l	0.1	N	<0.1
Endosulphan beta	ug/l	0.1	N	<0.1
Endosulphan sulphate	ug/l	0.1	N	<0.1
Endrin	ug/l	0.1	N	<0.1
EPN	ug/l	0.1	N	<0.1
Epoxiconazole	ug/l	0.1	N	<0.1
EPTC	ug/l	0.1	N	<0.1
Etaconazole	ug/l	0.1	N	<0.1
Ethion	ug/l	0.1	N	<0.1
Ethofumesate	ug/l	0.1	N	<0.1
Ethoprophos	ug/l	0.1	N	<0.1
Ethoxyquin	ug/l	0.1	N	(278) <0.1
Etofenprox	ug/l	0.1	N	<0.1
Etoxazole	ug/l	0.1	N	<0.1
Etridiazole	ug/l	0.1	N	<0.1
Etrimfos	ug/l	0.1	N	<0.1
Famoxadone	ug/l	0.1	N	<0.1
Famphur	ug/l	0.1	N	<0.1
Fenamidone	ug/l	0.1	N	<0.1
Fenamiphos	ug/l	0.1	N	<0.1
Fenarimol	ug/l	0.1	N	<0.1
Fenbuconazole	ug/l	0.1	N	<0.1
Fenchlorphos	ug/l	0.1	N	<0.1
Fenitrothion	ug/l	0.1	N	<0.1
Fenpiclonil	ug/l	0.1	N	<0.1
Fenpropathrin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenson	ug/l	0.1	N	<0.1
Fensulfothion	ug/l	0.1	N	<0.1
Fenthion	ug/l	0.1	N	<0.1
Fenvalerate	ug/l	0.1	N	<0.1
Fipronil	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Fipronil sulphone	ug/l	0.1	N	<0.1
Flamprop isopropyl	ug/l	0.1	N	<0.1
Fluazifop-P-Butyl	ug/l	0.1	N	<0.1
Flucythrinate	ug/l	0.1	N	<0.1
Fludioxonil	ug/l	0.1	N	<0.1
Flufenacet	ug/l	0.1	N	<0.1
Flumetralin	ug/l	0.1	N	<0.1
Flumioxazin	ug/l	0.1	N	<0.1
Flumorph	ug/l	0.1	N	<0.1
Fluopyram	ug/l	0.1	N	<0.1
Fluquinconazole	ug/l	0.1	N	<0.1
Fluroxypyr-1-methylheptyl ester	ug/l	0.1	N	<0.1
Flusilazole	ug/l	0.1	N	<0.1
Flutolanil	ug/l	0.1	N	<0.1
Fluxapyroxad	ug/l	0.1	N	<0.1
Fonophos	ug/l	0.1	N	<0.1
Formothion	ug/l	0.1	N	<0.1
Furalaxyl	ug/l	0.1	N	<0.1
Haloxyfop etotyl	ug/l	0.1	N	<0.1
Haloxyfop Methyl	ug/l	0.1	N	<0.1
Heptachlor	ug/l	0.1	N	<0.1
Heptachlor epoxide	ug/l	0.1	N	<0.1
Heptachlor exo Epoxide	ug/l	0.1	N	<0.1
Heptenophos	ug/l	0.1	N	<0.1
Hexachlorobenzene	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (alpha)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (beta)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (delta)	ug/l	0.1	N	<0.1
Hexaconazole	ug/l	0.1	N	<0.1
Hexazinone	ug/l	0.1	N	<0.1
Iodofenphos	ug/l	0.1	N	<0.1
Iprodione	ug/l	0.1	N	<0.1
Isazofos	ug/l	0.1	N	<0.1
Isocarbophos	ug/l	0.1	N	<0.1
Isodrin	ug/l	0.1	N	<0.1
Isofenphos	ug/l	0.1	N	<0.1
Isofenphos Methyl	ug/l	0.1	N	<0.1
Isomethiozin	ug/l	0.1	N	<0.1

Report Number : 868550 008
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 23-JUL-2020
Customer Reference : WS102
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result	Determinand	Units	LOD	Symbol	Result
Isoprothiolane	ug/l	0.1	N	<0.1	Oxadixyl	ug/l	0.1	N	<0.1
Isopyrazam	ug/l	0.1	N	<0.1	Oxyfluorfen	ug/l	0.1	N	<0.1
Kresoxim Methyl	ug/l	0.1	N	<0.1	p,p-DDD	ug/l	0.1	N	<0.1
Lambda Cyhalothrin	ug/l	0.1	N	<0.1	p,p-DDE	ug/l	0.1	N	<0.1
Lenacil	ug/l	0.1	N	<0.1	p,p-DDT	ug/l	0.1	N	<0.1
Leptophos	ug/l	0.1	N	<0.1	Paclobutrazol	ug/l	0.1	N	<0.1
Lindane	ug/l	0.1	N	<0.1	Paraoxon	ug/l	0.1	N	<0.1
Malathion	ug/l	0.1	N	<0.1	Parathion	ug/l	0.1	N	<0.1
MCPA-thioethyl	ug/l	0.1	N	<0.1	Parathion methyl	ug/l	0.1	N	<0.1
Mecarbam	ug/l	0.1	N	<0.1	Penconazole	ug/l	0.1	N	<0.1
Mepanipyrim	ug/l	0.1	N	<0.1	Pendimethalin	ug/l	0.1	N	<0.1
Mephosfolan	ug/l	0.1	N	<0.1	Pentachloroaniline	ug/l	0.1	N	<0.1
Mepronil	ug/l	0.1	N	<0.1	Pentachlorophenol	ug/l	0.1	N	(278) <0.1
Metalaxyl	ug/l	0.1	N	<0.1	Pentanochlor	ug/l	0.1	N	<0.1
Metazachlor	ug/l	0.1	N	<0.1	Permethrin	ug/l	0.1	N	<0.1
Methacrifos	ug/l	0.1	N	<0.1	Pethoxamid	ug/l	0.1	N	<0.1
Methidathion	ug/l	0.1	N	<0.1	Phenothrin	ug/l	0.1	N	<0.1
Methoxychlor	ug/l	0.1	N	<0.1	Phenthoate	ug/l	0.1	N	<0.1
Methyl Paraoxon	ug/l	0.1	N	<0.1	Phorate	ug/l	0.1	N	<0.1
Metolachlor	ug/l	0.1	N	<0.1	Phosalone	ug/l	0.1	N	<0.1
Metolcarb	ug/l	0.1	N	<0.1	Phosfolan	ug/l	0.1	N	<0.1
Metrafenone	ug/l	0.1	N	<0.1	Picoxystrobin	ug/l	0.1	N	<0.1
Metribuzin	ug/l	0.1	N	<0.1	Piperonyl Butoxide	ug/l	0.1	N	<0.1
Mevinphos	ug/l	0.1	N	<0.1	Pirimicarb	ug/l	0.1	N	<0.1
Mirex	ug/l	0.1	N	<0.1	Pirimiphos Ethyl	ug/l	0.1	N	<0.1
Molinate	ug/l	0.1	N	<0.1	Pirimiphos methyl	ug/l	0.1	N	<0.1
Myclobutanil	ug/l	0.1	N	<0.1	Pretilachlor	ug/l	0.1	N	<0.1
Napropamide	ug/l	0.1	N	<0.1	Procymidone	ug/l	0.1	N	<0.1
Nitrofen	ug/l	0.1	N	<0.1	Profenofos	ug/l	0.1	N	<0.1
Nitrothal isopropyl	ug/l	0.1	N	<0.1	Prometon	ug/l	0.1	N	<0.1
Nuarimol	ug/l	0.1	N	<0.1	Prometryn	ug/l	0.1	N	<0.1
o,p'-DDT	ug/l	0.1	N	<0.1	Propachlor	ug/l	0.1	N	<0.1
o,p-DDD	ug/l	0.1	N	<0.1	Propanil	ug/l	0.1	N	<0.1
o,p-DDE	ug/l	0.1	N	<0.1	Propaphos	ug/l	0.1	N	<0.1
Octylisothiazolon	ug/l	0.1	N	<0.1	Propargite	ug/l	0.1	N	<0.1
Ofurace	ug/l	0.1	N	<0.1	Propazine	ug/l	0.1	N	<0.1
Orysastrobin	ug/l	0.1	N	<0.1	Propetamphos	ug/l	0.1	N	<0.1
Oxadiazon	ug/l	0.1	N	<0.1	Propham	ug/l	0.1	N	<0.1

Report Number : 868550 008
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 23-JUL-2020
Customer Reference : WS102
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Propiconazole	ug/l	0.1	N	<0.1
Propyzamide	ug/l	0.1	N	<0.1
Proquinazid	ug/l	0.1	N	<0.1
Prosulfocarb	ug/l	0.1	N	<0.1
Prothiofos	ug/l	0.1	N	<0.1
Pyraclostrobin	ug/l	0.1	N	<0.1
Pyraflufen ethyl	ug/l	0.1	N	<0.1
Pyrazophos	ug/l	0.1	N	<0.1
Pyridaben	ug/l	0.1	N	<0.1
Pyridaphenthion	ug/l	0.1	N	<0.1
Pyrimethanil	ug/l	0.1	N	<0.1
Pyriproxyfen	ug/l	0.1	N	<0.1
Quinalphos	ug/l	0.1	N	<0.1
Quinoxyfen	ug/l	0.1	N	<0.1
Quintozene	ug/l	0.1	N	<0.1
Quizalofop-ethyl	ug/l	0.1	N	<0.1
Secbumeton	ug/l	0.1	N	<0.1
Silafluofen	ug/l	0.1	N	<0.1
Simazine	ug/l	0.1	N	<0.1
Simeconazole	ug/l	0.1	N	<0.1
Sulfallate	ug/l	0.1	N	<0.1
Sulprofos	ug/l	0.1	N	<0.1
Tebuconazole	ug/l	0.1	N	<0.1
Tebufenpyrad	ug/l	0.1	N	<0.1
Tebupirimiphos	ug/l	0.1	N	<0.1
Tecnazene	ug/l	0.1	N	<0.1
Tefluthrin	ug/l	0.1	N	<0.1
Terbacil	ug/l	0.1	N	<0.1
Terbufos	ug/l	0.1	N	<0.1
Terbumeton	ug/l	0.1	N	<0.1
Terbuthylazine	ug/l	0.1	N	<0.1
Terbutryn	ug/l	0.1	N	<0.1
Tetrachlorvinphos	ug/l	0.1	N	<0.1
Tetraconazole	ug/l	0.1	N	<0.1
Tetradifon	ug/l	0.1	N	<0.1
tetraethyl dithiopyrophosphate	ug/l	0.1	N	<0.1
Tetramethrin	ug/l	0.1	N	<0.1
Tetrasul	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Thiamethoxam	ug/l	0.1	N	<0.1
Thiobencarb	ug/l	0.1	N	<0.1
Tolclofos-methyl	ug/l	0.1	N	<0.1
Triadimefon	ug/l	0.1	N	<0.1
Triadimenol	ug/l	0.1	N	<0.1
Triallate	ug/l	0.1	N	<0.1
Triazamate	ug/l	0.1	N	<0.1
Triazophos	ug/l	0.1	N	<0.1
Trifloxystrobin	ug/l	0.1	N	<0.1
Triflumizole	ug/l	0.1	N	(278) <0.1
Trifluralin	ug/l	0.1	N	<0.1
Vinclozolin	ug/l	0.1	N	<0.1
Vinclozolin metabolite 3,5-Dichloroaniline	ug/l	0.1	N	(278) <0.1

CONCEPT LIFE SCIENCES
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Concept Life Sciences

Certificate of Analysis

Unit 2
The Links
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CB23 8UD
Tel : 01954 782791
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Report Number : 868550 009
Date of Issue : 29-Jul-2020

Customer : Pam Brown Associates
Contact : Dr Melissa Morales
Address : 2 Needwood House, Lancaster Park, Newborough Road, Needwood Burton on Trent, DE13 9PD

Samples Received : 23-Jul-2020
Analysis Started : 24-Jul-2020
Concept Job Reference : 868550-1
Analysis Requested : MRPS by LC (CSOPP603), MRPS by GC (CSOPP611)
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : WS103
Location : Wheathampstead
Sample Description : Water

Results Summary

Analyte	Level Found	Units	LOD	EU MRL mg/kg	CODEX MRL mg/kg	Symbol
MRPS by LC (CSOPP603)						
Imidacloprid	**0.1**	ug/l	0.1			N
MRPS by GC (CSOPP611)	**No residue detected above the limit of detection.**					

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.
Customers are responsible for information provided where, if incorrect, it could affect the validity of the results.
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 Concept Life Sciences SOPs
All results have been reviewed in accordance with QMSection 15 of the Concept Life Sciences, Analytical Services Quality Manual
All samples prepared in accordance with the CODEX alimentarius

Report checked
and authorised by :
Matt Line
Section Manager - Pesticides

Issued by :
Naomi Woodward
Customer Service Advisor

Index to symbols used in this report

Value	Description
62	LOD was raised due to the method performance of the analytical procedure used
147	Result has been Recovery corrected.
278	Data reported is qualitative as recovery is outside the 60 to 140% range
N	Analysis is not UKAS accredited

Report Number : 868550 009
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : WS103
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
2-(1-Naphthyl)acetamide	ug/l	0.1	N	<0.1
3-hydroxycarbofuran	ug/l	0.1	N	<0.1
6-Benzyladenine	ug/l	0.1	N	<0.1
Acephate	ug/l	0.1	N	<0.1
Acetamiprid	ug/l	0.1	N	<0.1
Acibenzolar-S-methyl	ug/l	0.1	N	<0.1
Aldicarb	ug/l	0.1	N	<0.1
Aldicarb sulphone	ug/l	0.1	N	<0.1
Aldicarb sulphoxide	ug/l	0.1	N	<0.1
Aminocarb	ug/l	0.1	N	<0.1
Azadirachtin	ug/l	0.1	N	<0.1
Azinphos ethyl	ug/l	0.1	N	<0.1
Azinphos methyl	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Bendiocarb	ug/l	0.1	N	<0.1
Benfuracarb	ug/l	0.1	N	(278) <0.1
Butralin	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbendazim	ug/l	0.1	N	<0.1
Carbetamide	ug/l	0.1	N	<0.1
Carbofuran	ug/l	0.1	N	<0.1
Carbosulfan	ug/l	0.1	N	(278) <0.1
Carpropamid	ug/l	0.1	N	<0.1
Chinomethionat	ug/l	0.1	N	<0.1
Chlorantraniliprole	ug/l	0.1	N	<0.1
Chlorbromuron	ug/l	0.1	N	<0.1
Chlorfluazuron	ug/l	0.1	N	<0.1
Chloridazon	ug/l	0.1	N	<0.1
Chlorotoluron	ug/l	0.1	N	<0.1
Chlorpropham	ug/l	0.1	N	<0.1
Clofentezine	ug/l	0.1	N	<0.1
Clothianidin	ug/l	0.1	N	<0.1
Cyanazine	ug/l	0.1	N	<0.1
Cyazofamid	ug/l	0.1	N	<0.1
Cycluron	ug/l	0.1	N	<0.1
Cymoxanil	ug/l	0.1	N	<0.1
Cythioate	ug/l	0.1	N	<0.1
Demeton	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Demeton-s-methyl	ug/l	0.1	N	<0.1
Demeton-s-methyl sulphone	ug/l	0.1	N	<0.1
Dichlofluanid	ug/l	0.1	N	<0.1
Dicrotophos	ug/l	0.1	N	<0.1
Diethofencarb	ug/l	0.1	N	<0.1
Diflubenzuron	ug/l	0.1	N	<0.1
Dimefuron	ug/l	0.1	N	<0.1
Dimethoate	ug/l	0.1	N	<0.1
Diniconazole	ug/l	0.1	N	<0.1
Dinotefuran	ug/l	0.1	N	<0.1
Dioxacarb	ug/l	0.1	N	(278) <0.1
Disulfoton sulfoxide	ug/l	0.1	N	<0.1
Disulfoton sulphone	ug/l	0.1	N	<0.1
Diuron	ug/l	0.1	N	<0.1
DMSA	ug/l	0.1	N	<0.1
DMST	ug/l	0.1	N	<0.1
Dodemorph	ug/l	0.1	N	(278) <0.1
Dodine	ug/l	0.1	N	<0.1
Emamectin	ug/l	0.1	N	(278) <0.1
Ethidimuron	ug/l	0.1	N	<0.1
Ethiofencarb	ug/l	0.1	N	<0.1
Ethiofencarb sulfone	ug/l	0.1	N	<0.1
Ethiofencarb sulfoxide	ug/l	0.1	N	<0.1
Ethiprole	ug/l	0.1	N	<0.1
Ethirimol	ug/l	0.1	N	<0.1
Fenamiphos sulfone	ug/l	0.1	N	<0.1
Fenamiphos sulfoxide	ug/l	0.1	N	<0.1
Fenazaquin	ug/l	0.1	N	<0.1
Fenchlorphos oxon	ug/l	0.1	N	<0.1
Fenhexamid	ug/l	0.1	N	<0.1
Fenoxycarb	ug/l	0.1	N	<0.1
Fenpropidin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenpyroximate	ug/l	0.1	N	<0.1
Fenthion Sulphone	ug/l	0.1	N	<0.1
Fenthion Sulphoxide	ug/l	0.1	N	<0.1
Fenuron	ug/l	0.1	N	<0.1
Flonicamid	ug/l	0.1	N	<0.1

Report Number : 868550 009
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : WS103
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Fluazinam	ug/l	0.1	N	<0.1
Flufenoxuron	ug/l	0.1	N	<0.1
Fluometuron	ug/l	0.1	N	<0.1
Fluopicolide	ug/l	0.1	N	<0.1
Fluorochloridone	ug/l	0.1	N	<0.1
Fluoxastrobin	ug/l	0.1	N	<0.1
Flurtamone	ug/l	0.1	N	<0.1
Flutriafol	ug/l	0.1	N	<0.1
Forchlorfenuron	ug/l	0.1	N	<0.1
Fosthiasate	ug/l	0.1	N	<0.1
Fuberidazole	ug/l	0.1	N	<0.1
Furathiocarb	ug/l	0.1	N	<0.1
Hexaflumuron	ug/l	0.1	N	<0.1
Hexythiazox	ug/l	0.1	N	<0.1
Imazalil	ug/l	0.1	N	(278) <0.1
Imibenconazole	ug/l	0.1	N	<0.1
Imidacloprid	**ug/l**	**0.1**	**N**	**0.1**
Indoxacarb	ug/l	0.1	N	<0.1
Iprovalicarb	ug/l	0.1	N	<0.1
Isoprocarb	ug/l	0.1	N	<0.1
Isoproturon	ug/l	0.1	N	<0.1
Isoxaben	ug/l	0.1	N	<0.1
Karbutilate	ug/l	0.1	N	<0.1
Linuron	ug/l	0.1	N	<0.1
Lufenuron	ug/l	0.1	N	<0.1
Malaoxon	ug/l	0.1	N	<0.1
Mandipropamid	ug/l	0.1	N	<0.1
Mefenacet	ug/l	0.1	N	<0.1
Metamitron	ug/l	0.1	N	<0.1
Metconazole	ug/l	0.1	N	<0.1
Methabenzthiazuron	ug/l	0.1	N	<0.1
Methamidophos	ug/l	0.1	N	<0.1
Methiocarb	ug/l	0.1	N	<0.1
Methiocarb Sulfone	ug/l	0.1	N	<0.1
Methiocarb Sulfoxide	ug/l	0.1	N	<0.1
Methomyl	ug/l	0.1	N	<0.1
Methoxyfenozide	ug/l	0.1	N	<0.1
Metobromuron	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Metoxuron	ug/l	0.1	N	<0.1
Monocrotophos	ug/l	0.1	N	<0.1
Monolinuron	ug/l	0.1	N	<0.1
Monuron	ug/l	0.1	N	<0.1
Neburon	ug/l	0.1	N	<0.1
Nicotine	ug/l	0.1	N	<0.1
Nitenpyram	ug/l	0.1	N	<0.1
Novaluron	ug/l	0.1	N	<0.1
Omethoate	ug/l	0.1	N	<0.1
Oxadiargyl	ug/l	0.1	N	<0.1
Oxamyl	ug/l	0.1	N	<0.1
Oxycarboxin	ug/l	0.1	N	<0.1
Oxydemeton-Methyl	ug/l	0.1	N	<0.1
Pencycuron	ug/l	0.1	N	<0.1
Phorate sulfone	ug/l	0.1	N	<0.1
Phorate sulfoxide	ug/l	0.1	N	<0.1
Phosmet	ug/l	0.1	N	<0.1
Phosphamidon	ug/l	0.1	N	<0.1
Phoxim	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	<0.1
Prochloraz	ug/l	0.1	N	<0.1
Promecarb	ug/l	0.1	N	<0.1
Propamocarb	ug/l	0.1	N	<0.1
Propaquizafop	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	<0.1
Propoxur	ug/l	0.1	N	<0.1
Pymetrozine	ug/l	0.1	N	<0.1
Pyrifenox	ug/l	0.1	N	<0.1
Resmethrin	ug/l	0.1	N	<0.1
Rotenone	ug/l	0.1	N	<0.1
Spinosad	ug/l	0.1	N	<0.1
Spirodiclofen	ug/l	0.1	N	<0.1
Spiromesifen	ug/l	0.1	N	<0.1
Spiroxamine	ug/l	0.1	N	<0.1
Tebufenozide	ug/l	0.1	N	<0.1
Teflubenzuron	ug/l	0.1	N	<0.1
Temephos	ug/l	0.1	N	<0.1
Terbufos sulfone	ug/l	0.1	N	<0.1

Report Number : 868550 009
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : WS103
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Terbufos sulfoxide	ug/l	0.1	N	<0.1
Thiabendazole	ug/l	0.1	N	<0.1
Thiacloprid	ug/l	0.1	N	<0.1
Thiazafluron	ug/l	0.1	N	<0.1
Thiodicarb	ug/l	0.1	N	<0.1
Thiofanox	ug/l	0.1	N	<0.1
Thiophanate Methyl	ug/l	0.1	N	<0.1
Tolylfluanid	ug/l	0.1	N	<0.1
Trichlorfon	ug/l	0.1	N	<0.1
Tridemorph	ug/l	0.1	N	<0.1
Trifloxysulfuron	ug/l	0.1	N	<0.1
Triflumuron	ug/l	0.1	N	<0.1
Triflusulfuron-methyl	ug/l	0.1	N	<0.1
Triticonazole	ug/l	0.1	N	<0.1
Vamidothion	ug/l	0.1	N	<0.1
Vernolate	ug/l	0.1	N	<0.1
Zoxamide	ug/l	0.1	N	<0.1

Report Number : 868550 009
Client : Pam Brown Associates
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Date Sampled : 22-JUL-2020
Customer Reference : WS103
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
2,4,6-Trichlorophenol	ug/l	0.1	N	<0.1
2-Phenylphenol	ug/l	0.1	N	<0.1
Acetochlor	ug/l	0.1	N	<0.1
Aclonifen	ug/l	0.1	N	<0.1
Acrinathrin	ug/l	0.1	N	<0.1
Alachlor	ug/l	0.1	N	<0.1
Aldrin	ug/l	0.1	N	<0.1
Ametryn	ug/l	0.1	N	<0.1
Atraton	ug/l	0.1	N	<0.1
Atrazine	ug/l	0.1	N	<0.1
Azaconazole	ug/l	0.1	N	<0.1
Azobenzene	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Benalaxyl	ug/l	0.1	N	<0.1
Benfluralin	ug/l	0.1	N	<0.1
Bifenox	ug/l	0.1	N	<0.1
Bifenthrin	ug/l	0.1	N	<0.1
Binapacryl	ug/l	0.1	N	(278) <0.1
Biphenyl	ug/l	1.2	N	(62, 278) <1.2
Bitertanol	ug/l	0.1	N	<0.1
Boscalid	ug/l	0.1	N	<0.1
Bromacil	ug/l	0.1	N	<0.1
Bromophos	ug/l	0.1	N	<0.1
Bromophos-Ethyl	ug/l	0.1	N	<0.1
Bromopropylate	ug/l	0.1	N	<0.1
Bupirimate	ug/l	0.1	N	<0.1
Buprofezine	ug/l	0.1	N	<0.1
Butachlor	ug/l	0.1	N	<0.1
Cadusafos	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbophenothion	ug/l	0.1	N	<0.1
Carboxine	ug/l	0.1	N	(278) <0.1
Carfentrazone Ethyl	ug/l	0.1	N	<0.1
Chlorobenzilate	ug/l	0.1	N	(278) <0.1
Chlordane (sum of cis and trans isomers)	ug/l	0.1	N	<0.1
Chlordimeform	ug/l	0.1	N	(278) <0.1
Chlorethoxyfos	ug/l	0.1	N	<0.1
Chlorfenapyr	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Chlorfenvinphos	ug/l	0.1	N	<0.1
Chlormephos	ug/l	0.1	N	<0.1
Chloropropylate	ug/l	0.1	N	<0.1
Chlorothalonil	ug/l	0.1	N	<0.1
Chlorpropham	ug/l	0.1	N	<0.1
Chlorpyrifos	ug/l	0.1	N	<0.1
Chlorpyrifos methyl	ug/l	0.1	N	<0.1
Chlorthal Dimethyl	ug/l	0.1	N	<0.1
Chlorthion	ug/l	0.1	N	<0.1
Chlorthiophos	ug/l	0.1	N	<0.1
Chlozolinate	ug/l	0.1	N	<0.1
Clodinafop Propargyl	ug/l	0.1	N	<0.1
Clomazone	ug/l	0.1	N	<0.1
Cloquintocet mexyl	ug/l	0.1	N	<0.1
Coumaphos	ug/l	0.1	N	<0.1
Cyflufenamid	ug/l	0.1	N	<0.1
Cyfluthrin	ug/l	0.1	N	<0.1
Cypermethrin	ug/l	0.1	N	<0.1
Cyphenothrin	ug/l	0.1	N	<0.1
Cyproconazole	ug/l	0.1	N	<0.1
Cyprodinil	ug/l	0.1	N	<0.1
Deltamethrin	ug/l	0.1	N	<0.1
Desmetryn	ug/l	0.1	N	<0.1
Diafenthiuron	ug/l	0.1	N	<0.1
Dialifos	ug/l	0.1	N	<0.1
Diazinon	ug/l	0.1	N	<0.1
Dichlobenil	ug/l	0.1	N	<0.1
Dichlofenthion	ug/l	0.1	N	<0.1
Dichlorvos	ug/l	0.1	N	<0.1
Diclobutrazol	ug/l	0.1	N	<0.1
Dicloran	ug/l	0.1	N	<0.1
Dicofol	ug/l	0.1	N	<0.1
Dieldrin	ug/l	0.1	N	<0.1
Difenoconazole	ug/l	0.1	N	<0.1
Diflufenican	ug/l	0.1	N	<0.1
Dimethenamid	ug/l	0.1	N	<0.1
Dimethomorph	ug/l	0.1	N	<0.1
Dimoxystrobin	ug/l	0.1	N	<0.1

Report Number : 868550 009
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : WS103
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Dioxabenzofos	ug/l	0.1	N	(278) <0.1
Diphenamid	ug/l	0.1	N	<0.1
Diphenylamine	ug/l	0.1	N	<0.1
Disulfoton	ug/l	0.1	N	<0.1
Ditalimfos	ug/l	0.1	N	<0.1
Edifenphos	ug/l	0.1	N	<0.1
Endosulphan alpha	ug/l	0.1	N	<0.1
Endosulphan beta	ug/l	0.1	N	<0.1
Endosulphan sulphate	ug/l	0.1	N	<0.1
Endrin	ug/l	0.1	N	<0.1
EPN	ug/l	0.1	N	<0.1
Epoxiconazole	ug/l	0.1	N	<0.1
EPTC	ug/l	0.1	N	<0.1
Etaconazole	ug/l	0.1	N	<0.1
Ethion	ug/l	0.1	N	<0.1
Ethofumesate	ug/l	0.1	N	<0.1
Ethoprophos	ug/l	0.1	N	<0.1
Ethoxyquin	ug/l	0.1	N	(278) <0.1
Etofenprox	ug/l	0.1	N	<0.1
Etoxazole	ug/l	0.1	N	<0.1
Etridiazole	ug/l	0.1	N	<0.1
Etrimfos	ug/l	0.1	N	<0.1
Famoxadone	ug/l	0.1	N	<0.1
Famphur	ug/l	0.1	N	<0.1
Fenamidone	ug/l	0.1	N	<0.1
Fenamiphos	ug/l	0.1	N	<0.1
Fenarimol	ug/l	0.1	N	<0.1
Fenbuconazole	ug/l	0.1	N	<0.1
Fenchlorphos	ug/l	0.1	N	<0.1
Fenitrothion	ug/l	0.1	N	<0.1
Fenpiclonil	ug/l	0.1	N	<0.1
Fenpropathrin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenson	ug/l	0.1	N	<0.1
Fensulfothion	ug/l	0.1	N	<0.1
Fenthion	ug/l	0.1	N	<0.1
Fenvalerate	ug/l	0.1	N	<0.1
Fipronil	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Fipronil sulphone	ug/l	0.1	N	<0.1
Flamprop isopropyl	ug/l	0.1	N	<0.1
Fluazifop-P-Butyl	ug/l	0.1	N	<0.1
Flucythrinate	ug/l	0.1	N	<0.1
Fludioxonil	ug/l	0.1	N	<0.1
Flufenacet	ug/l	0.1	N	<0.1
Flumetralin	ug/l	0.1	N	<0.1
Flumioxazin	ug/l	0.1	N	<0.1
Flumorph	ug/l	0.1	N	<0.1
Fluopyram	ug/l	0.1	N	<0.1
Fluquinconazole	ug/l	0.1	N	<0.1
Fluroxypyr-1-methylheptyl ester	ug/l	0.1	N	<0.1
Flusilazole	ug/l	0.1	N	<0.1
Flutolanil	ug/l	0.1	N	<0.1
Fluxapyroxad	ug/l	0.1	N	<0.1
Fonophos	ug/l	0.1	N	<0.1
Formothion	ug/l	0.1	N	<0.1
Furalaxyl	ug/l	0.1	N	<0.1
Haloxyfop etotyl	ug/l	0.1	N	<0.1
Haloxyfop Methyl	ug/l	0.1	N	<0.1
Heptachlor	ug/l	0.1	N	<0.1
Heptachlor epoxide	ug/l	0.1	N	<0.1
Heptachlor exo Epoxide	ug/l	0.1	N	<0.1
Heptenophos	ug/l	0.1	N	<0.1
Hexachlorobenzene	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (alpha)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (beta)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (delta)	ug/l	0.1	N	<0.1
Hexaconazole	ug/l	0.1	N	<0.1
Hexazinone	ug/l	0.1	N	<0.1
Iodofenphos	ug/l	0.1	N	<0.1
Iprodione	ug/l	0.1	N	<0.1
Isazofos	ug/l	0.1	N	<0.1
Isocarbophos	ug/l	0.1	N	<0.1
Isodrin	ug/l	0.1	N	<0.1
Isofenphos	ug/l	0.1	N	<0.1
Isofenphos Methyl	ug/l	0.1	N	<0.1
Isomethiozin	ug/l	0.1	N	<0.1

Report Number : 868550 009
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : WS103
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result	Determinand	Units	LOD	Symbol	Result
Isoprothiolane	ug/l	0.1	N	<0.1	Oxadixyl	ug/l	0.1	N	<0.1
Isopyrazam	ug/l	0.1	N	<0.1	Oxyfluorfen	ug/l	0.1	N	<0.1
Kresoxim Methyl	ug/l	0.1	N	<0.1	p,p-DDD	ug/l	0.1	N	<0.1
Lambda Cyhalothrin	ug/l	0.1	N	<0.1	p,p-DDE	ug/l	0.1	N	<0.1
Lenacil	ug/l	0.1	N	<0.1	p,p-DDT	ug/l	0.1	N	<0.1
Leptophos	ug/l	0.1	N	<0.1	Paclobutrazol	ug/l	0.1	N	<0.1
Lindane	ug/l	0.1	N	<0.1	Paraoxon	ug/l	0.1	N	<0.1
Malathion	ug/l	0.1	N	<0.1	Parathion	ug/l	0.1	N	<0.1
MCPA-thioethyl	ug/l	0.1	N	<0.1	Parathion methyl	ug/l	0.1	N	<0.1
Mecarbam	ug/l	0.1	N	<0.1	Penconazole	ug/l	0.1	N	<0.1
Mepanipyrim	ug/l	0.1	N	<0.1	Pendimethalin	ug/l	0.1	N	<0.1
Mephosfolan	ug/l	0.1	N	<0.1	Pentachloroaniline	ug/l	0.1	N	<0.1
Mepronil	ug/l	0.1	N	<0.1	Pentachlorophenol	ug/l	0.1	N	(278) <0.1
Metalaxyl	ug/l	0.1	N	<0.1	Pentanochlor	ug/l	0.1	N	<0.1
Metazachlor	ug/l	0.1	N	<0.1	Permethrin	ug/l	0.1	N	<0.1
Methacrifos	ug/l	0.1	N	<0.1	Pethoxamid	ug/l	0.1	N	<0.1
Methidathion	ug/l	0.1	N	<0.1	Phenothrin	ug/l	0.1	N	<0.1
Methoxychlor	ug/l	0.1	N	<0.1	Phenthoate	ug/l	0.1	N	<0.1
Methyl Paraoxon	ug/l	0.1	N	<0.1	Phorate	ug/l	0.1	N	<0.1
Metolachlor	ug/l	0.1	N	<0.1	Phosalone	ug/l	0.1	N	<0.1
Metolcarb	ug/l	0.1	N	<0.1	Phosfolan	ug/l	0.1	N	<0.1
Metrafenone	ug/l	0.1	N	<0.1	Picoxystrobin	ug/l	0.1	N	<0.1
Metribuzin	ug/l	0.1	N	<0.1	Piperonyl Butoxide	ug/l	0.1	N	<0.1
Mevinphos	ug/l	0.1	N	<0.1	Pirimicarb	ug/l	0.1	N	<0.1
Mirex	ug/l	0.1	N	<0.1	Pirimiphos Ethyl	ug/l	0.1	N	<0.1
Molinate	ug/l	0.1	N	<0.1	Pirimiphos methyl	ug/l	0.1	N	<0.1
Myclobutanil	ug/l	0.1	N	<0.1	Pretilachlor	ug/l	0.1	N	<0.1
Napropamide	ug/l	0.1	N	<0.1	Procymidone	ug/l	0.1	N	<0.1
Nitrofen	ug/l	0.1	N	<0.1	Profenofos	ug/l	0.1	N	<0.1
Nitrothal isopropyl	ug/l	0.1	N	<0.1	Prometon	ug/l	0.1	N	<0.1
Nuarimol	ug/l	0.1	N	<0.1	Prometryn	ug/l	0.1	N	<0.1
o,p'-DDT	ug/l	0.1	N	<0.1	Propachlor	ug/l	0.1	N	<0.1
o,p-DDD	ug/l	0.1	N	<0.1	Propanil	ug/l	0.1	N	<0.1
o,p-DDE	ug/l	0.1	N	<0.1	Propaphos	ug/l	0.1	N	<0.1
Octylisothiazolon	ug/l	0.1	N	<0.1	Propargite	ug/l	0.1	N	<0.1
Ofurace	ug/l	0.1	N	<0.1	Propazine	ug/l	0.1	N	<0.1
Orysastrobin	ug/l	0.1	N	<0.1	Propetamphos	ug/l	0.1	N	<0.1
Oxadiazon	ug/l	0.1	N	<0.1	Propham	ug/l	0.1	N	<0.1

Report Number : 868550 009
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : WS103
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Propiconazole	ug/l	0.1	N	<0.1
Propyzamide	ug/l	0.1	N	<0.1
Proquinazid	ug/l	0.1	N	<0.1
Prosulfocarb	ug/l	0.1	N	<0.1
Prothiofos	ug/l	0.1	N	<0.1
Pyraclostrobin	ug/l	0.1	N	<0.1
Pyraflufen ethyl	ug/l	0.1	N	<0.1
Pyrazophos	ug/l	0.1	N	<0.1
Pyridaben	ug/l	0.1	N	<0.1
Pyridaphenthion	ug/l	0.1	N	<0.1
Pyrimethanil	ug/l	0.1	N	<0.1
Pyriproxyfen	ug/l	0.1	N	<0.1
Quinalphos	ug/l	0.1	N	<0.1
Quinoxyfen	ug/l	0.1	N	<0.1
Quintozene	ug/l	0.1	N	<0.1
Quizalofop-ethyl	ug/l	0.1	N	<0.1
Secbumeton	ug/l	0.1	N	<0.1
Silafluofen	ug/l	0.1	N	<0.1
Simazine	ug/l	0.1	N	<0.1
Simeconazole	ug/l	0.1	N	<0.1
Sulfallate	ug/l	0.1	N	<0.1
Sulprofos	ug/l	0.1	N	<0.1
Tebuconazole	ug/l	0.1	N	<0.1
Tebufenpyrad	ug/l	0.1	N	<0.1
Tebupirimiphos	ug/l	0.1	N	<0.1
Tecnazene	ug/l	0.1	N	<0.1
Tefluthrin	ug/l	0.1	N	<0.1
Terbacil	ug/l	0.1	N	<0.1
Terbufos	ug/l	0.1	N	<0.1
Terbumeton	ug/l	0.1	N	<0.1
Terbuthylazine	ug/l	0.1	N	<0.1
Terbutryn	ug/l	0.1	N	<0.1
Tetrachlorvinphos	ug/l	0.1	N	<0.1
Tetraconazole	ug/l	0.1	N	<0.1
Tetradifon	ug/l	0.1	N	<0.1
tetraethyl dithiopyrophosphate	ug/l	0.1	N	<0.1
Tetramethrin	ug/l	0.1	N	<0.1
Tetrasul	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Thiamethoxam	ug/l	0.1	N	<0.1
Thiobencarb	ug/l	0.1	N	<0.1
Tolclofos-methyl	ug/l	0.1	N	<0.1
Triadimefon	ug/l	0.1	N	<0.1
Triadimenol	ug/l	0.1	N	<0.1
Triallate	ug/l	0.1	N	<0.1
Triazamate	ug/l	0.1	N	<0.1
Triazophos	ug/l	0.1	N	<0.1
Trifloxystrobin	ug/l	0.1	N	<0.1
Triflumizole	ug/l	0.1	N	(278) <0.1
Trifluralin	ug/l	0.1	N	<0.1
Vinclozolin	ug/l	0.1	N	<0.1
Vinclozolin metabolite 3,5-Dichloroaniline	ug/l	0.1	N	(278) <0.1

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Concept Life Sciences

Certificate of Analysis

Unit 2
The Links
Bar Hill
Cambridgeshire
CB23 8UD
Tel : 01954 782791
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Report Number : 868550 010
Date of Issue : 29-Jul-2020

Customer : Pam Brown Associates
Contact : Dr Melissa Morales
Address : 2 Needwood House, Lancaster Park, Newborough Road, Needwood Burton on Trent, DE13 9PD

Samples Received : 23-Jul-2020
Analysis Started : 24-Jul-2020
Concept Job Reference : 868550-1
Analysis Requested : MRPS by LC (CSOPP603), MRPS by GC (CSOPP611)
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : S1
Location : Wheathampstead
Sample Description : Water

Results Summary

Analyte	Level Found	Units	LOD	EU MRL mg/kg	CODEX MRL mg/kg	Symbol
MRPS by LC (CSOPP603)						
Imidacloprid	**0.1**	ug/l	0.1			N
MRPS by GC (CSOPP611)	**No residue detected above the limit of detection.**					

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.
Customers are responsible for information provided where, if incorrect, it could affect the validity of the results.
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 Concept Life Sciences SOPs
All results have been reviewed in accordance with QMSection 15 of the Concept Life Sciences, Analytical Services Quality Manual
All samples prepared in accordance with the CODEX alimentarius

Report checked
and authorised by :
Matt Line
Section Manager - Pesticides

Issued by :
Naomi Woodward
Customer Service Advisor

Index to symbols used in this report

Value	Description
62	LOD was raised due to the method performance of the analytical procedure used
147	Result has been Recovery corrected.
278	Data reported is qualitative as recovery is outside the 60 to 140% range
N	Analysis is not UKAS accredited

Report Number : 868550 010
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : S1
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
2-(1-Naphthyl)acetamide	ug/l	0.1	N	<0.1
3-hydroxycarbofuran	ug/l	0.1	N	<0.1
6-Benzyladenine	ug/l	0.1	N	<0.1
Acephate	ug/l	0.1	N	<0.1
Acetamiprid	ug/l	0.1	N	<0.1
Acibenzolar-S-methyl	ug/l	0.1	N	<0.1
Aldicarb	ug/l	0.1	N	<0.1
Aldicarb sulphone	ug/l	0.1	N	<0.1
Aldicarb sulphoxide	ug/l	0.1	N	<0.1
Aminocarb	ug/l	0.1	N	<0.1
Azadirachtin	ug/l	0.1	N	<0.1
Azinphos ethyl	ug/l	0.1	N	<0.1
Azinphos methyl	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Bendiocarb	ug/l	0.1	N	<0.1
Benfuracarb	ug/l	0.1	N	(278) <0.1
Butralin	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbendazim	ug/l	0.1	N	<0.1
Carbetamide	ug/l	0.1	N	<0.1
Carbofuran	ug/l	0.1	N	<0.1
Carbosulfan	ug/l	0.1	N	(278) <0.1
Carpropamid	ug/l	0.1	N	<0.1
Chinomethionat	ug/l	0.1	N	<0.1
Chlorantraniliprole	ug/l	0.1	N	<0.1
Chlorbromuron	ug/l	0.1	N	<0.1
Chlorfluazuron	ug/l	0.1	N	<0.1
Chloridazon	ug/l	0.1	N	<0.1
Chlorotoluron	ug/l	0.1	N	<0.1
Chlorpropham	ug/l	0.1	N	<0.1
Clofentezine	ug/l	0.1	N	<0.1
Clothianidin	ug/l	0.1	N	<0.1
Cyanazine	ug/l	0.1	N	<0.1
Cyazofamid	ug/l	0.1	N	<0.1
Cycluron	ug/l	0.1	N	<0.1
Cymoxanil	ug/l	0.1	N	<0.1
Cythioate	ug/l	0.1	N	<0.1
Demeton	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Demeton-s-methyl	ug/l	0.1	N	<0.1
Demeton-s-methyl sulphone	ug/l	0.1	N	<0.1
Dichlofluanid	ug/l	0.1	N	<0.1
Dicrotophos	ug/l	0.1	N	<0.1
Diethofencarb	ug/l	0.1	N	<0.1
Diflubenzuron	ug/l	0.1	N	<0.1
Dimefuron	ug/l	0.1	N	<0.1
Dimethoate	ug/l	0.1	N	<0.1
Diniconazole	ug/l	0.1	N	<0.1
Dinotefuran	ug/l	0.1	N	<0.1
Dioxacarb	ug/l	0.1	N	(278) <0.1
Disulfoton sulfoxide	ug/l	0.1	N	<0.1
Disulfoton sulphone	ug/l	0.1	N	<0.1
Diuron	ug/l	0.1	N	<0.1
DMSA	ug/l	0.1	N	<0.1
DMST	ug/l	0.1	N	<0.1
Dodemorph	ug/l	0.1	N	(278) <0.1
Dodine	ug/l	0.1	N	<0.1
Emamectin	ug/l	0.1	N	(278) <0.1
Ethidimuron	ug/l	0.1	N	<0.1
Ethiofencarb	ug/l	0.1	N	<0.1
Ethiofencarb sulfone	ug/l	0.1	N	<0.1
Ethiofencarb sulfoxide	ug/l	0.1	N	<0.1
Ethiprole	ug/l	0.1	N	<0.1
Ethirimol	ug/l	0.1	N	<0.1
Fenamiphos sulfone	ug/l	0.1	N	<0.1
Fenamiphos sulfoxide	ug/l	0.1	N	<0.1
Fenazaquin	ug/l	0.1	N	<0.1
Fenchlorphos oxon	ug/l	0.1	N	<0.1
Fenhexamid	ug/l	0.1	N	<0.1
Fenoxycarb	ug/l	0.1	N	<0.1
Fenpropidin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenpyroximate	ug/l	0.1	N	<0.1
Fenthion Sulphone	ug/l	0.1	N	<0.1
Fenthion Sulphoxide	ug/l	0.1	N	<0.1
Fenuron	ug/l	0.1	N	<0.1
Flonicamid	ug/l	0.1	N	<0.1

Report Number : 868550 010
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : S1
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Fluazinam	ug/l	0.1	N	<0.1
Flufenoxuron	ug/l	0.1	N	<0.1
Fluometuron	ug/l	0.1	N	<0.1
Fluopicolide	ug/l	0.1	N	<0.1
Fluorochloridone	ug/l	0.1	N	<0.1
Fluoxastrobin	ug/l	0.1	N	<0.1
Flurtamone	ug/l	0.1	N	<0.1
Flutriafol	ug/l	0.1	N	<0.1
Forchlorfenuron	ug/l	0.1	N	<0.1
Fosthiasate	ug/l	0.1	N	<0.1
Fuberidazole	ug/l	0.1	N	<0.1
Furathiocarb	ug/l	0.1	N	<0.1
Hexaflumuron	ug/l	0.1	N	<0.1
Hexythiazox	ug/l	0.1	N	<0.1
Imazalil	ug/l	0.1	N	(278) <0.1
Imibenconazole	ug/l	0.1	N	<0.1
Imidacloprid	**ug/l**	**0.1**	**N**	**0.1**
Indoxacarb	ug/l	0.1	N	<0.1
Iprovalicarb	ug/l	0.1	N	<0.1
Isoprocarb	ug/l	0.1	N	<0.1
Isoproturon	ug/l	0.1	N	<0.1
Isoxaben	ug/l	0.1	N	<0.1
Karbutilate	ug/l	0.1	N	<0.1
Linuron	ug/l	0.1	N	<0.1
Lufenuron	ug/l	0.1	N	<0.1
Malaoxon	ug/l	0.1	N	<0.1
Mandipropamid	ug/l	0.1	N	<0.1
Mefenacet	ug/l	0.1	N	<0.1
Metamitron	ug/l	0.1	N	<0.1
Metconazole	ug/l	0.1	N	<0.1
Methabenzthiazuron	ug/l	0.1	N	<0.1
Methamidophos	ug/l	0.1	N	<0.1
Methiocarb	ug/l	0.1	N	<0.1
Methiocarb Sulfone	ug/l	0.1	N	<0.1
Methiocarb Sulfoxide	ug/l	0.1	N	<0.1
Methomyl	ug/l	0.1	N	<0.1
Methoxyfenozide	ug/l	0.1	N	<0.1
Metobromuron	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Metoxuron	ug/l	0.1	N	<0.1
Monocrotophos	ug/l	0.1	N	<0.1
Monolinuron	ug/l	0.1	N	<0.1
Monuron	ug/l	0.1	N	<0.1
Neburon	ug/l	0.1	N	<0.1
Nicotine	ug/l	0.1	N	<0.1
Nitenpyram	ug/l	0.1	N	<0.1
Novaluron	ug/l	0.1	N	<0.1
Omethoate	ug/l	0.1	N	<0.1
Oxadiargyl	ug/l	0.1	N	<0.1
Oxamyl	ug/l	0.1	N	<0.1
Oxycarboxin	ug/l	0.1	N	<0.1
Oxydemeton-Methyl	ug/l	0.1	N	<0.1
Pencycuron	ug/l	0.1	N	<0.1
Phorate sulfone	ug/l	0.1	N	<0.1
Phorate sulfoxide	ug/l	0.1	N	<0.1
Phosmet	ug/l	0.1	N	<0.1
Phosphamidon	ug/l	0.1	N	<0.1
Phoxim	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	<0.1
Prochloraz	ug/l	0.1	N	<0.1
Promecarb	ug/l	0.1	N	<0.1
Propamocarb	ug/l	0.1	N	<0.1
Propaquizafop	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	<0.1
Propoxur	ug/l	0.1	N	<0.1
Pymetrozine	ug/l	0.1	N	<0.1
Pyrifenox	ug/l	0.1	N	<0.1
Resmethrin	ug/l	0.1	N	<0.1
Rotenone	ug/l	0.1	N	<0.1
Spinosad	ug/l	0.1	N	<0.1
Spirodiclofen	ug/l	0.1	N	<0.1
Spiromesifen	ug/l	0.1	N	<0.1
Spiroxamine	ug/l	0.1	N	<0.1
Tebufenozide	ug/l	0.1	N	<0.1
Teflubenzuron	ug/l	0.1	N	<0.1
Temephos	ug/l	0.1	N	<0.1
Terbufos sulfone	ug/l	0.1	N	<0.1

Report Number : 868550 010
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : S1
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Terbufos sulfoxide	ug/l	0.1	N	<0.1
Thiabendazole	ug/l	0.1	N	<0.1
Thiacloprid	ug/l	0.1	N	<0.1
Thiazafluron	ug/l	0.1	N	<0.1
Thiodicarb	ug/l	0.1	N	<0.1
Thiofanox	ug/l	0.1	N	<0.1
Thiophanate Methyl	ug/l	0.1	N	<0.1
Tolylfluanid	ug/l	0.1	N	<0.1
Trichlorfon	ug/l	0.1	N	<0.1
Tridemorph	ug/l	0.1	N	<0.1
Trifloxysulfuron	ug/l	0.1	N	<0.1
Triflumuron	ug/l	0.1	N	<0.1
Triflusulfuron-methyl	ug/l	0.1	N	<0.1
Triticonazole	ug/l	0.1	N	<0.1
Vamidothion	ug/l	0.1	N	<0.1
Vernolate	ug/l	0.1	N	<0.1
Zoxamide	ug/l	0.1	N	<0.1

Report Number : 868550 010
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : S1
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
2,4,6-Trichlorophenol	ug/l	0.1	N	<0.1
2-Phenylphenol	ug/l	0.1	N	<0.1
Acetochlor	ug/l	0.1	N	<0.1
Aclonifen	ug/l	0.1	N	<0.1
Acrinathrin	ug/l	0.1	N	<0.1
Alachlor	ug/l	0.1	N	<0.1
Aldrin	ug/l	0.1	N	<0.1
Ametryn	ug/l	0.1	N	<0.1
Atraton	ug/l	0.1	N	<0.1
Atrazine	ug/l	0.1	N	<0.1
Azaconazole	ug/l	0.1	N	<0.1
Azobenzene	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Benalaxyl	ug/l	0.1	N	<0.1
Benfluralin	ug/l	0.1	N	<0.1
Bifenox	ug/l	0.1	N	<0.1
Bifenthrin	ug/l	0.1	N	<0.1
Binapacryl	ug/l	0.1	N	(278) <0.1
Biphenyl	ug/l	1.2	N	(62, 278) <1.2
Bitertanol	ug/l	0.1	N	<0.1
Boscalid	ug/l	0.1	N	<0.1
Bromacil	ug/l	0.1	N	<0.1
Bromophos	ug/l	0.1	N	<0.1
Bromophos-Ethyl	ug/l	0.1	N	<0.1
Bromopropylate	ug/l	0.1	N	<0.1
Bupirimate	ug/l	0.1	N	<0.1
Buprofezine	ug/l	0.1	N	<0.1
Butachlor	ug/l	0.1	N	<0.1
Cadusafos	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbophenothion	ug/l	0.1	N	<0.1
Carboxine	ug/l	0.1	N	(278) <0.1
Carfentrazone Ethyl	ug/l	0.1	N	<0.1
Chlorobenzilate	ug/l	0.1	N	(278) <0.1
Chlordane (sum of cis and trans isomers)	ug/l	0.1	N	<0.1
Chlordimeform	ug/l	0.1	N	(278) <0.1
Chlorethoxyfos	ug/l	0.1	N	<0.1
Chlorfenapyr	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Chlorfenvinphos	ug/l	0.1	N	<0.1
Chlormephos	ug/l	0.1	N	<0.1
Chloropropylate	ug/l	0.1	N	<0.1
Chlorothalonil	ug/l	0.1	N	<0.1
Chlorpropham	ug/l	0.1	N	<0.1
Chlorpyrifos	ug/l	0.1	N	<0.1
Chlorpyrifos methyl	ug/l	0.1	N	<0.1
Chlorthal Dimethyl	ug/l	0.1	N	<0.1
Chlorthion	ug/l	0.1	N	<0.1
Chlorthiophos	ug/l	0.1	N	<0.1
Chlozolinate	ug/l	0.1	N	<0.1
Clodinafop Propargyl	ug/l	0.1	N	<0.1
Clomazone	ug/l	0.1	N	<0.1
Cloquintocet mexyl	ug/l	0.1	N	<0.1
Coumaphos	ug/l	0.1	N	<0.1
Cyflufenamid	ug/l	0.1	N	<0.1
Cyfluthrin	ug/l	0.1	N	<0.1
Cypermethrin	ug/l	0.1	N	<0.1
Cyphenothrin	ug/l	0.1	N	<0.1
Cyproconazole	ug/l	0.1	N	<0.1
Cyprodinil	ug/l	0.1	N	<0.1
Deltamethrin	ug/l	0.1	N	<0.1
Desmetryn	ug/l	0.1	N	<0.1
Diafenthiuron	ug/l	0.1	N	<0.1
Dialifos	ug/l	0.1	N	<0.1
Diazinon	ug/l	0.1	N	<0.1
Dichlobenil	ug/l	0.1	N	<0.1
Dichlofenthion	ug/l	0.1	N	<0.1
Dichlorvos	ug/l	0.1	N	<0.1
Diclobutrazol	ug/l	0.1	N	<0.1
Dicloran	ug/l	0.1	N	<0.1
Dicofol	ug/l	0.1	N	<0.1
Dieldrin	ug/l	0.1	N	<0.1
Difenoconazole	ug/l	0.1	N	<0.1
Diflufenican	ug/l	0.1	N	<0.1
Dimethenamid	ug/l	0.1	N	<0.1
Dimethomorph	ug/l	0.1	N	<0.1
Dimoxystrobin	ug/l	0.1	N	<0.1

Report Number : 868550 010
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : S1
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Dioxabenzofos	ug/l	0.1	N	(278) <0.1
Diphenamid	ug/l	0.1	N	<0.1
Diphenylamine	ug/l	0.1	N	<0.1
Disulfoton	ug/l	0.1	N	<0.1
Ditalimfos	ug/l	0.1	N	<0.1
Edifenphos	ug/l	0.1	N	<0.1
Endosulphan alpha	ug/l	0.1	N	<0.1
Endosulphan beta	ug/l	0.1	N	<0.1
Endosulphan sulphate	ug/l	0.1	N	<0.1
Endrin	ug/l	0.1	N	<0.1
EPN	ug/l	0.1	N	<0.1
Epoxiconazole	ug/l	0.1	N	<0.1
EPTC	ug/l	0.1	N	<0.1
Etaconazole	ug/l	0.1	N	<0.1
Ethion	ug/l	0.1	N	<0.1
Ethofumesate	ug/l	0.1	N	<0.1
Ethoprophos	ug/l	0.1	N	<0.1
Ethoxyquin	ug/l	0.1	N	(278) <0.1
Etofenprox	ug/l	0.1	N	<0.1
Etoxazole	ug/l	0.1	N	<0.1
Etridiazole	ug/l	0.1	N	<0.1
Etrimfos	ug/l	0.1	N	<0.1
Famoxadone	ug/l	0.1	N	<0.1
Famphur	ug/l	0.1	N	<0.1
Fenamidone	ug/l	0.1	N	<0.1
Fenamiphos	ug/l	0.1	N	<0.1
Fenarimol	ug/l	0.1	N	<0.1
Fenbuconazole	ug/l	0.1	N	<0.1
Fenchlorphos	ug/l	0.1	N	<0.1
Fenitrothion	ug/l	0.1	N	<0.1
Fenpiclonil	ug/l	0.1	N	<0.1
Fenpropathrin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenson	ug/l	0.1	N	<0.1
Fensulfothion	ug/l	0.1	N	<0.1
Fenthion	ug/l	0.1	N	<0.1
Fenvalerate	ug/l	0.1	N	<0.1
Fipronil	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Fipronil sulphone	ug/l	0.1	N	<0.1
Flamprop isopropyl	ug/l	0.1	N	<0.1
Fluazifop-P-Butyl	ug/l	0.1	N	<0.1
Flucythrinate	ug/l	0.1	N	<0.1
Fludioxonil	ug/l	0.1	N	<0.1
Flufenacet	ug/l	0.1	N	<0.1
Flumetralin	ug/l	0.1	N	<0.1
Flumioxazin	ug/l	0.1	N	<0.1
Flumorph	ug/l	0.1	N	<0.1
Fluopyram	ug/l	0.1	N	<0.1
Fluquinconazole	ug/l	0.1	N	<0.1
Fluroxypyr-1-methylheptyl ester	ug/l	0.1	N	<0.1
Flusilazole	ug/l	0.1	N	<0.1
Flutolanil	ug/l	0.1	N	<0.1
Fluxapyroxad	ug/l	0.1	N	<0.1
Fonophos	ug/l	0.1	N	<0.1
Formothion	ug/l	0.1	N	<0.1
Furalaxyl	ug/l	0.1	N	<0.1
Haloxyfop etotyl	ug/l	0.1	N	<0.1
Haloxyfop Methyl	ug/l	0.1	N	<0.1
Heptachlor	ug/l	0.1	N	<0.1
Heptachlor epoxide	ug/l	0.1	N	<0.1
Heptachlor exo Epoxide	ug/l	0.1	N	<0.1
Heptenophos	ug/l	0.1	N	<0.1
Hexachlorobenzene	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (alpha)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (beta)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (delta)	ug/l	0.1	N	<0.1
Hexaconazole	ug/l	0.1	N	<0.1
Hexazinone	ug/l	0.1	N	<0.1
Iodofenphos	ug/l	0.1	N	<0.1
Iprodione	ug/l	0.1	N	<0.1
Isazofos	ug/l	0.1	N	<0.1
Isocarbophos	ug/l	0.1	N	<0.1
Isodrin	ug/l	0.1	N	<0.1
Isofenphos	ug/l	0.1	N	<0.1
Isofenphos Methyl	ug/l	0.1	N	<0.1
Isomethiozin	ug/l	0.1	N	<0.1

Report Number : 868550 010
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : S1
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result	Determinand	Units	LOD	Symbol	Result
Isoprothiolane	ug/l	0.1	N	<0.1	Oxadixyl	ug/l	0.1	N	<0.1
Isopyrazam	ug/l	0.1	N	<0.1	Oxyfluorfen	ug/l	0.1	N	<0.1
Kresoxim Methyl	ug/l	0.1	N	<0.1	p,p-DDD	ug/l	0.1	N	<0.1
Lambda Cyhalothrin	ug/l	0.1	N	<0.1	p,p-DDE	ug/l	0.1	N	<0.1
Lenacil	ug/l	0.1	N	<0.1	p,p-DDT	ug/l	0.1	N	<0.1
Leptophos	ug/l	0.1	N	<0.1	Paclobutrazol	ug/l	0.1	N	<0.1
Lindane	ug/l	0.1	N	<0.1	Paraoxon	ug/l	0.1	N	<0.1
Malathion	ug/l	0.1	N	<0.1	Parathion	ug/l	0.1	N	<0.1
MCPA-thioethyl	ug/l	0.1	N	<0.1	Parathion methyl	ug/l	0.1	N	<0.1
Mecarbam	ug/l	0.1	N	<0.1	Penconazole	ug/l	0.1	N	<0.1
Mepanipyrim	ug/l	0.1	N	<0.1	Pendimethalin	ug/l	0.1	N	<0.1
Mephosfolan	ug/l	0.1	N	<0.1	Pentachloroaniline	ug/l	0.1	N	<0.1
Mepronil	ug/l	0.1	N	<0.1	Pentachlorophenol	ug/l	0.1	N	(278) <0.1
Metalaxyl	ug/l	0.1	N	<0.1	Pentanochlor	ug/l	0.1	N	<0.1
Metazachlor	ug/l	0.1	N	<0.1	Permethrin	ug/l	0.1	N	<0.1
Methacrifos	ug/l	0.1	N	<0.1	Pethoxamid	ug/l	0.1	N	<0.1
Methidathion	ug/l	0.1	N	<0.1	Phenothrin	ug/l	0.1	N	<0.1
Methoxychlor	ug/l	0.1	N	<0.1	Phenthoate	ug/l	0.1	N	<0.1
Methyl Paraoxon	ug/l	0.1	N	<0.1	Phorate	ug/l	0.1	N	<0.1
Metolachlor	ug/l	0.1	N	<0.1	Phosalone	ug/l	0.1	N	<0.1
Metolcarb	ug/l	0.1	N	<0.1	Phosfolan	ug/l	0.1	N	<0.1
Metrafenone	ug/l	0.1	N	<0.1	Picoxystrobin	ug/l	0.1	N	<0.1
Metribuzin	ug/l	0.1	N	<0.1	Piperonyl Butoxide	ug/l	0.1	N	<0.1
Mevinphos	ug/l	0.1	N	<0.1	Pirimicarb	ug/l	0.1	N	<0.1
Mirex	ug/l	0.1	N	<0.1	Pirimiphos Ethyl	ug/l	0.1	N	<0.1
Molinate	ug/l	0.1	N	<0.1	Pirimiphos methyl	ug/l	0.1	N	<0.1
Myclobutanil	ug/l	0.1	N	<0.1	Pretilachlor	ug/l	0.1	N	<0.1
Napropamide	ug/l	0.1	N	<0.1	Procymidone	ug/l	0.1	N	<0.1
Nitrofen	ug/l	0.1	N	<0.1	Profenofos	ug/l	0.1	N	<0.1
Nitrothal isopropyl	ug/l	0.1	N	<0.1	Prometon	ug/l	0.1	N	<0.1
Nuarimol	ug/l	0.1	N	<0.1	Prometryn	ug/l	0.1	N	<0.1
o,p'-DDT	ug/l	0.1	N	<0.1	Propachlor	ug/l	0.1	N	<0.1
o,p-DDD	ug/l	0.1	N	<0.1	Propanil	ug/l	0.1	N	<0.1
o,p-DDE	ug/l	0.1	N	<0.1	Propaphos	ug/l	0.1	N	<0.1
Octylisothiazolon	ug/l	0.1	N	<0.1	Propargite	ug/l	0.1	N	<0.1
Ofurace	ug/l	0.1	N	<0.1	Propazine	ug/l	0.1	N	<0.1
Orysastrobin	ug/l	0.1	N	<0.1	Propetamphos	ug/l	0.1	N	<0.1
Oxadiazon	ug/l	0.1	N	<0.1	Propham	ug/l	0.1	N	<0.1

Report Number : 868550 010
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : S1
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Propiconazole	ug/l	0.1	N	<0.1
Propyzamide	ug/l	0.1	N	<0.1
Proquinazid	ug/l	0.1	N	<0.1
Prosulfocarb	ug/l	0.1	N	<0.1
Prothiofos	ug/l	0.1	N	<0.1
Pyraclostrobin	ug/l	0.1	N	<0.1
Pyraflufen ethyl	ug/l	0.1	N	<0.1
Pyrazophos	ug/l	0.1	N	<0.1
Pyridaben	ug/l	0.1	N	<0.1
Pyridaphenthion	ug/l	0.1	N	<0.1
Pyrimethanil	ug/l	0.1	N	<0.1
Pyriproxyfen	ug/l	0.1	N	<0.1
Quinalphos	ug/l	0.1	N	<0.1
Quinoxyfen	ug/l	0.1	N	<0.1
Quintozene	ug/l	0.1	N	<0.1
Quizalofop-ethyl	ug/l	0.1	N	<0.1
Secbumeton	ug/l	0.1	N	<0.1
Silafluofen	ug/l	0.1	N	<0.1
Simazine	ug/l	0.1	N	<0.1
Simeconazole	ug/l	0.1	N	<0.1
Sulfallate	ug/l	0.1	N	<0.1
Sulprofos	ug/l	0.1	N	<0.1
Tebuconazole	ug/l	0.1	N	<0.1
Tebufenpyrad	ug/l	0.1	N	<0.1
Tebupirimiphos	ug/l	0.1	N	<0.1
Tecnazene	ug/l	0.1	N	<0.1
Tefluthrin	ug/l	0.1	N	<0.1
Terbacil	ug/l	0.1	N	<0.1
Terbufos	ug/l	0.1	N	<0.1
Terbumeton	ug/l	0.1	N	<0.1
Terbuthylazine	ug/l	0.1	N	<0.1
Terbutryn	ug/l	0.1	N	<0.1
Tetrachlorvinphos	ug/l	0.1	N	<0.1
Tetraconazole	ug/l	0.1	N	<0.1
Tetradifon	ug/l	0.1	N	<0.1
tetraethyl dithiopyrophosphate	ug/l	0.1	N	<0.1
Tetramethrin	ug/l	0.1	N	<0.1
Tetrasul	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Thiamethoxam	ug/l	0.1	N	<0.1
Thiobencarb	ug/l	0.1	N	<0.1
Tolclofos-methyl	ug/l	0.1	N	<0.1
Triadimefon	ug/l	0.1	N	<0.1
Triadimenol	ug/l	0.1	N	<0.1
Triallate	ug/l	0.1	N	<0.1
Triazamate	ug/l	0.1	N	<0.1
Triazophos	ug/l	0.1	N	<0.1
Trifloxystrobin	ug/l	0.1	N	<0.1
Triflumizole	ug/l	0.1	N	(278) <0.1
Trifluralin	ug/l	0.1	N	<0.1
Vinclozolin	ug/l	0.1	N	<0.1
Vinclozolin metabolite 3,5-Dichloroaniline	ug/l	0.1	N	(278) <0.1

CONCEPT LIFE SCIENCES
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Concept Life Sciences

Certificate of Analysis

Unit 2
The Links
Bar Hill
Cambridgeshire
CB23 8UD
Tel : 01954 782791
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Report Number : 868550 011
Date of Issue : 29-Jul-2020

Customer : Pam Brown Associates
Contact : Dr Melissa Morales
Address : 2 Needwood House, Lancaster Park, Newborough Road, Needwood Burton on Trent, DE13 9PD

Samples Received : 23-Jul-2020
Analysis Started : 24-Jul-2020
Concept Job Reference : 868550-1
Analysis Requested : MRPS by LC (CSOPP603), MRPS by GC (CSOPP611)
Variety : Groundwater
Date Sampled : 23-JUL-2020
Customer Reference : BH22
Location : Wheathampstead
Sample Description : Water

Results Summary

Analyte	Level Found	Units	LOD	EU MRL mg/kg	CODEX MRL mg/kg	Symbol
MRPS by LC (CSOPP603)	**No residue detected above the limit of detection.**					
MRPS by GC (CSOPP611)	**No residue detected above the limit of detection.**					

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.
Customers are responsible for information provided where, if incorrect, it could affect the validity of the results.
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 Concept Life Sciences SOPs
All results have been reviewed in accordance with QMSection 15 of the Concept Life Sciences, Analytical Services Quality Manual
All samples prepared in accordance with the CODEX alimentarius

Report checked
and authorised by :
Matt Line
Section Manager - Pesticides

Issued by :
Naomi Woodward
Customer Service Advisor

Index to symbols used in this report

Value	Description
62	LOD was raised due to the method performance of the analytical procedure used
147	Result has been Recovery corrected.
278	Data reported is qualitative as recovery is outside the 60 to 140% range
N	Analysis is not UKAS accredited

Report Number : 868550 011
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 23-JUL-2020
Customer Reference : BH22
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
2-(1-Naphthyl)acetamide	ug/l	0.1	N	<0.1
3-hydroxycarbofuran	ug/l	0.1	N	<0.1
6-Benzyladenine	ug/l	0.1	N	<0.1
Acephate	ug/l	0.1	N	<0.1
Acetamiprid	ug/l	0.1	N	<0.1
Acibenzolar-S-methyl	ug/l	0.1	N	<0.1
Aldicarb	ug/l	0.1	N	<0.1
Aldicarb sulphone	ug/l	0.1	N	<0.1
Aldicarb sulphoxide	ug/l	0.1	N	<0.1
Aminocarb	ug/l	0.1	N	<0.1
Azadirachtin	ug/l	0.1	N	<0.1
Azinphos ethyl	ug/l	0.1	N	<0.1
Azinphos methyl	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Bendiocarb	ug/l	0.1	N	<0.1
Benfuracarb	ug/l	0.1	N	(278) <0.1
Butralin	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbendazim	ug/l	0.1	N	<0.1
Carbetamide	ug/l	0.1	N	<0.1
Carbofuran	ug/l	0.1	N	<0.1
Carbosulfan	ug/l	0.1	N	(278) <0.1
Carpropamid	ug/l	0.1	N	<0.1
Chinomethionat	ug/l	0.1	N	<0.1
Chlorantraniliprole	ug/l	0.1	N	<0.1
Chlorbromuron	ug/l	0.1	N	<0.1
Chlorfluazuron	ug/l	0.1	N	<0.1
Chloridazon	ug/l	0.1	N	<0.1
Chlorotoluron	ug/l	0.1	N	<0.1
Chlorpropham	ug/l	0.1	N	<0.1
Clofentezine	ug/l	0.1	N	<0.1
Clothianidin	ug/l	0.1	N	<0.1
Cyanazine	ug/l	0.1	N	<0.1
Cyazofamid	ug/l	0.1	N	<0.1
Cycluron	ug/l	0.1	N	<0.1
Cymoxanil	ug/l	0.1	N	<0.1
Cythioate	ug/l	0.1	N	<0.1
Demeton	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Demeton-s-methyl	ug/l	0.1	N	<0.1
Demeton-s-methyl sulphone	ug/l	0.1	N	<0.1
Dichlofluanid	ug/l	0.1	N	<0.1
Dicrotophos	ug/l	0.1	N	<0.1
Diethofencarb	ug/l	0.1	N	<0.1
Diflubenzuron	ug/l	0.1	N	<0.1
Dimefuron	ug/l	0.1	N	<0.1
Dimethoate	ug/l	0.1	N	<0.1
Diniconazole	ug/l	0.1	N	<0.1
Dinotefuran	ug/l	0.1	N	<0.1
Dioxacarb	ug/l	0.1	N	(278) <0.1
Disulfoton sulfoxide	ug/l	0.1	N	<0.1
Disulfoton sulphone	ug/l	0.1	N	<0.1
Diuron	ug/l	0.1	N	<0.1
DMSA	ug/l	0.1	N	<0.1
DMST	ug/l	0.1	N	<0.1
Dodemorph	ug/l	0.1	N	(278) <0.1
Dodine	ug/l	0.1	N	<0.1
Emamectin	ug/l	0.1	N	(278) <0.1
Ethidimuron	ug/l	0.1	N	<0.1
Ethiofencarb	ug/l	0.1	N	<0.1
Ethiofencarb sulfone	ug/l	0.1	N	<0.1
Ethiofencarb sulfoxide	ug/l	0.1	N	<0.1
Ethiprole	ug/l	0.1	N	<0.1
Ethirimol	ug/l	0.1	N	<0.1
Fenamiphos sulfone	ug/l	0.1	N	<0.1
Fenamiphos sulfoxide	ug/l	0.1	N	<0.1
Fenazaquin	ug/l	0.1	N	<0.1
Fenchlorphos oxon	ug/l	0.1	N	<0.1
Fenhexamid	ug/l	0.1	N	<0.1
Fenoxycarb	ug/l	0.1	N	<0.1
Fenpropidin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenpyroximate	ug/l	0.1	N	<0.1
Fenthion Sulphone	ug/l	0.1	N	<0.1
Fenthion Sulphoxide	ug/l	0.1	N	<0.1
Fenuron	ug/l	0.1	N	<0.1
Flonicamid	ug/l	0.1	N	<0.1

Report Number : 868550 011
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 23-JUL-2020
Customer Reference : BH22
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Fluazinam	ug/l	0.1	N	<0.1
Flufenoxuron	ug/l	0.1	N	<0.1
Fluometuron	ug/l	0.1	N	<0.1
Fluopicolide	ug/l	0.1	N	<0.1
Fluorochloridone	ug/l	0.1	N	<0.1
Fluoxastrobin	ug/l	0.1	N	<0.1
Flurtamone	ug/l	0.1	N	<0.1
Flutriafol	ug/l	0.1	N	<0.1
Forchlorfenuron	ug/l	0.1	N	<0.1
Fosthiasate	ug/l	0.1	N	<0.1
Fuberidazole	ug/l	0.1	N	<0.1
Furathiocarb	ug/l	0.1	N	<0.1
Hexaflumuron	ug/l	0.1	N	<0.1
Hexythiazox	ug/l	0.1	N	<0.1
Imazalil	ug/l	0.1	N	(278) <0.1
Imibenconazole	ug/l	0.1	N	<0.1
Imidacloprid	ug/l	0.1	N	<0.1
Indoxacarb	ug/l	0.1	N	<0.1
Iprovalicarb	ug/l	0.1	N	<0.1
Isoprocarb	ug/l	0.1	N	<0.1
Isoproturon	ug/l	0.1	N	<0.1
Isoxaben	ug/l	0.1	N	<0.1
Karbutilate	ug/l	0.1	N	<0.1
Linuron	ug/l	0.1	N	<0.1
Lufenuron	ug/l	0.1	N	<0.1
Malaoxon	ug/l	0.1	N	<0.1
Mandipropamid	ug/l	0.1	N	<0.1
Mefenacet	ug/l	0.1	N	<0.1
Metamitron	ug/l	0.1	N	<0.1
Metconazole	ug/l	0.1	N	<0.1
Methabenzthiazuron	ug/l	0.1	N	<0.1
Methamidophos	ug/l	0.1	N	<0.1
Methiocarb	ug/l	0.1	N	<0.1
Methiocarb Sulfone	ug/l	0.1	N	<0.1
Methiocarb Sulfoxide	ug/l	0.1	N	<0.1
Methomyl	ug/l	0.1	N	<0.1
Methoxyfenozide	ug/l	0.1	N	<0.1
Metobromuron	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Metoxuron	ug/l	0.1	N	<0.1
Monocrotophos	ug/l	0.1	N	<0.1
Monolinuron	ug/l	0.1	N	<0.1
Monuron	ug/l	0.1	N	<0.1
Neburon	ug/l	0.1	N	<0.1
Nicotine	ug/l	0.1	N	<0.1
Nitenpyram	ug/l	0.1	N	<0.1
Novaluron	ug/l	0.1	N	<0.1
Omethoate	ug/l	0.1	N	<0.1
Oxadiargyl	ug/l	0.1	N	<0.1
Oxamyl	ug/l	0.1	N	<0.1
Oxycarboxin	ug/l	0.1	N	<0.1
Oxydemeton-Methyl	ug/l	0.1	N	<0.1
Pencycuron	ug/l	0.1	N	<0.1
Phorate sulfone	ug/l	0.1	N	<0.1
Phorate sulfoxide	ug/l	0.1	N	<0.1
Phosmet	ug/l	0.1	N	<0.1
Phosphamidon	ug/l	0.1	N	<0.1
Phoxim	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	<0.1
Prochloraz	ug/l	0.1	N	<0.1
Promecarb	ug/l	0.1	N	<0.1
Propamocarb	ug/l	0.1	N	<0.1
Propaquizafop	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	<0.1
Propoxur	ug/l	0.1	N	<0.1
Pymetrozine	ug/l	0.1	N	<0.1
Pyrifenox	ug/l	0.1	N	<0.1
Resmethrin	ug/l	0.1	N	<0.1
Rotenone	ug/l	0.1	N	<0.1
Spinosad	ug/l	0.1	N	<0.1
Spirodiclofen	ug/l	0.1	N	<0.1
Spiromesifen	ug/l	0.1	N	<0.1
Spiroxamine	ug/l	0.1	N	<0.1
Tebufenozide	ug/l	0.1	N	<0.1
Teflubenzuron	ug/l	0.1	N	<0.1
Temephos	ug/l	0.1	N	<0.1
Terbufos sulfone	ug/l	0.1	N	<0.1

Report Number : 868550 011
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 23-JUL-2020
Customer Reference : BH22
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Terbufos sulfoxide	ug/l	0.1	N	<0.1
Thiabendazole	ug/l	0.1	N	<0.1
Thiacloprid	ug/l	0.1	N	<0.1
Thiazafluron	ug/l	0.1	N	<0.1
Thiodicarb	ug/l	0.1	N	<0.1
Thiofanox	ug/l	0.1	N	<0.1
Thiophanate Methyl	ug/l	0.1	N	<0.1
Tolylfluanid	ug/l	0.1	N	<0.1
Trichlorfon	ug/l	0.1	N	<0.1
Tridemorph	ug/l	0.1	N	<0.1
Trifloxysulfuron	ug/l	0.1	N	<0.1
Triflumuron	ug/l	0.1	N	<0.1
Triflusulfuron-methyl	ug/l	0.1	N	<0.1
Triticonazole	ug/l	0.1	N	<0.1
Vamidothion	ug/l	0.1	N	<0.1
Vernolate	ug/l	0.1	N	<0.1
Zoxamide	ug/l	0.1	N	<0.1

Report Number : 868550 011
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 23-JUL-2020
Customer Reference : BH22
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
2,4,6-Trichlorophenol	ug/l	0.1	N	<0.1
2-Phenylphenol	ug/l	0.1	N	<0.1
Acetochlor	ug/l	0.1	N	<0.1
Aclonifen	ug/l	0.1	N	<0.1
Acrinathrin	ug/l	0.1	N	<0.1
Alachlor	ug/l	0.1	N	<0.1
Aldrin	ug/l	0.1	N	<0.1
Ametryn	ug/l	0.1	N	<0.1
Atraton	ug/l	0.1	N	<0.1
Atrazine	ug/l	0.1	N	<0.1
Azaconazole	ug/l	0.1	N	<0.1
Azobenzene	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Benalaxyl	ug/l	0.1	N	<0.1
Benfluralin	ug/l	0.1	N	<0.1
Bifenox	ug/l	0.1	N	<0.1
Bifenthrin	ug/l	0.1	N	<0.1
Binapacryl	ug/l	0.1	N	(278) <0.1
Biphenyl	ug/l	1.2	N	(62, 278) <1.2
Bitertanol	ug/l	0.1	N	<0.1
Boscalid	ug/l	0.1	N	<0.1
Bromacil	ug/l	0.1	N	<0.1
Bromophos	ug/l	0.1	N	<0.1
Bromophos-Ethyl	ug/l	0.1	N	<0.1
Bromopropylate	ug/l	0.1	N	<0.1
Bupirimate	ug/l	0.1	N	<0.1
Buprofezine	ug/l	0.1	N	<0.1
Butachlor	ug/l	0.1	N	<0.1
Cadusafos	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbophenothion	ug/l	0.1	N	<0.1
Carboxine	ug/l	0.1	N	(278) <0.1
Carfentrazone Ethyl	ug/l	0.1	N	<0.1
Chlorobenzilate	ug/l	0.1	N	(278) <0.1
Chlordane (sum of cis and trans isomers)	ug/l	0.1	N	<0.1
Chlordimeform	ug/l	0.1	N	(278) <0.1
Chlorethoxyfos	ug/l	0.1	N	<0.1
Chlorfenapyr	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Chlorfenvinphos	ug/l	0.1	N	<0.1
Chlormephos	ug/l	0.1	N	<0.1
Chloropropylate	ug/l	0.1	N	<0.1
Chlorothalonil	ug/l	0.1	N	<0.1
Chlorpropham	ug/l	0.1	N	<0.1
Chlorpyrifos	ug/l	0.1	N	<0.1
Chlorpyrifos methyl	ug/l	0.1	N	<0.1
Chlorthal Dimethyl	ug/l	0.1	N	<0.1
Chlorthion	ug/l	0.1	N	<0.1
Chlorthiophos	ug/l	0.1	N	<0.1
Chlozolinate	ug/l	0.1	N	<0.1
Clodinafop Propargyl	ug/l	0.1	N	<0.1
Clomazone	ug/l	0.1	N	<0.1
Cloquintocet mexyl	ug/l	0.1	N	<0.1
Coumaphos	ug/l	0.1	N	<0.1
Cyflufenamid	ug/l	0.1	N	<0.1
Cyfluthrin	ug/l	0.1	N	<0.1
Cypermethrin	ug/l	0.1	N	<0.1
Cyphenothrin	ug/l	0.1	N	<0.1
Cyproconazole	ug/l	0.1	N	<0.1
Cyprodinil	ug/l	0.1	N	<0.1
Deltamethrin	ug/l	0.1	N	<0.1
Desmetryn	ug/l	0.1	N	<0.1
Diafenthiuron	ug/l	0.1	N	<0.1
Dialifos	ug/l	0.1	N	<0.1
Diazinon	ug/l	0.1	N	<0.1
Dichlobenil	ug/l	0.1	N	<0.1
Dichlofenthion	ug/l	0.1	N	<0.1
Dichlorvos	ug/l	0.1	N	<0.1
Diclobutrazol	ug/l	0.1	N	<0.1
Dicloran	ug/l	0.1	N	<0.1
Dicofol	ug/l	0.1	N	<0.1
Dieldrin	ug/l	0.1	N	<0.1
Difenoconazole	ug/l	0.1	N	<0.1
Diflufenican	ug/l	0.1	N	<0.1
Dimethenamid	ug/l	0.1	N	<0.1
Dimethomorph	ug/l	0.1	N	<0.1
Dimoxystrobin	ug/l	0.1	N	<0.1

Report Number : 868550 011
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 23-JUL-2020
Customer Reference : BH22
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Dioxabenzofos	ug/l	0.1	N	(278) <0.1
Diphenamid	ug/l	0.1	N	<0.1
Diphenylamine	ug/l	0.1	N	<0.1
Disulfoton	ug/l	0.1	N	<0.1
Ditalimfos	ug/l	0.1	N	<0.1
Edifenphos	ug/l	0.1	N	<0.1
Endosulphan alpha	ug/l	0.1	N	<0.1
Endosulphan beta	ug/l	0.1	N	<0.1
Endosulphan sulphate	ug/l	0.1	N	<0.1
Endrin	ug/l	0.1	N	<0.1
EPN	ug/l	0.1	N	<0.1
Epoxiconazole	ug/l	0.1	N	<0.1
EPTC	ug/l	0.1	N	<0.1
Etaconazole	ug/l	0.1	N	<0.1
Ethion	ug/l	0.1	N	<0.1
Ethofumesate	ug/l	0.1	N	<0.1
Ethoprophos	ug/l	0.1	N	<0.1
Ethoxyquin	ug/l	0.1	N	(278) <0.1
Etofenprox	ug/l	0.1	N	<0.1
Etoxazole	ug/l	0.1	N	<0.1
Etridiazole	ug/l	0.1	N	<0.1
Etrimfos	ug/l	0.1	N	<0.1
Famoxadone	ug/l	0.1	N	<0.1
Famphur	ug/l	0.1	N	<0.1
Fenamidone	ug/l	0.1	N	<0.1
Fenamiphos	ug/l	0.1	N	<0.1
Fenarimol	ug/l	0.1	N	<0.1
Fenbuconazole	ug/l	0.1	N	<0.1
Fenchlorphos	ug/l	0.1	N	<0.1
Fenitrothion	ug/l	0.1	N	<0.1
Fenpiclonil	ug/l	0.1	N	<0.1
Fenpropathrin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenson	ug/l	0.1	N	<0.1
Fensulfothion	ug/l	0.1	N	<0.1
Fenthion	ug/l	0.1	N	<0.1
Fenvalerate	ug/l	0.1	N	<0.1
Fipronil	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Fipronil sulphone	ug/l	0.1	N	<0.1
Flamprop isopropyl	ug/l	0.1	N	<0.1
Fluazifop-P-Butyl	ug/l	0.1	N	<0.1
Flucythrinate	ug/l	0.1	N	<0.1
Fludioxonil	ug/l	0.1	N	<0.1
Flufenacet	ug/l	0.1	N	<0.1
Flumetralin	ug/l	0.1	N	<0.1
Flumioxazin	ug/l	0.1	N	<0.1
Flumorph	ug/l	0.1	N	<0.1
Fluopyram	ug/l	0.1	N	<0.1
Fluquinconazole	ug/l	0.1	N	<0.1
Fluroxypyr-1-methylheptyl ester	ug/l	0.1	N	<0.1
Flusilazole	ug/l	0.1	N	<0.1
Flutolanil	ug/l	0.1	N	<0.1
Fluxapyroxad	ug/l	0.1	N	<0.1
Fonophos	ug/l	0.1	N	<0.1
Formothion	ug/l	0.1	N	<0.1
Furalaxyl	ug/l	0.1	N	<0.1
Haloxyfop etotyl	ug/l	0.1	N	<0.1
Haloxyfop Methyl	ug/l	0.1	N	<0.1
Heptachlor	ug/l	0.1	N	<0.1
Heptachlor epoxide	ug/l	0.1	N	<0.1
Heptachlor exo Epoxide	ug/l	0.1	N	<0.1
Heptenophos	ug/l	0.1	N	<0.1
Hexachlorobenzene	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (alpha)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (beta)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (delta)	ug/l	0.1	N	<0.1
Hexaconazole	ug/l	0.1	N	<0.1
Hexazinone	ug/l	0.1	N	<0.1
Iodofenphos	ug/l	0.1	N	<0.1
Iprodione	ug/l	0.1	N	<0.1
Isazofos	ug/l	0.1	N	<0.1
Isocarbophos	ug/l	0.1	N	<0.1
Isodrin	ug/l	0.1	N	<0.1
Isofenphos	ug/l	0.1	N	<0.1
Isofenphos Methyl	ug/l	0.1	N	<0.1
Isomethiozin	ug/l	0.1	N	<0.1

Report Number : 868550 011
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 23-JUL-2020
Customer Reference : BH22
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result	Determinand	Units	LOD	Symbol	Result
Isoprothiolane	ug/l	0.1	N	<0.1	Oxadixyl	ug/l	0.1	N	<0.1
Isopyrazam	ug/l	0.1	N	<0.1	Oxyfluorfen	ug/l	0.1	N	<0.1
Kresoxim Methyl	ug/l	0.1	N	<0.1	p,p-DDD	ug/l	0.1	N	<0.1
Lambda Cyhalothrin	ug/l	0.1	N	<0.1	p,p-DDE	ug/l	0.1	N	<0.1
Lenacil	ug/l	0.1	N	<0.1	p,p-DDT	ug/l	0.1	N	<0.1
Leptophos	ug/l	0.1	N	<0.1	Paclobutrazol	ug/l	0.1	N	<0.1
Lindane	ug/l	0.1	N	<0.1	Paraoxon	ug/l	0.1	N	<0.1
Malathion	ug/l	0.1	N	<0.1	Parathion	ug/l	0.1	N	<0.1
MCPA-thioethyl	ug/l	0.1	N	<0.1	Parathion methyl	ug/l	0.1	N	<0.1
Mecarbam	ug/l	0.1	N	<0.1	Penconazole	ug/l	0.1	N	<0.1
Mepanipyrim	ug/l	0.1	N	<0.1	Pendimethalin	ug/l	0.1	N	<0.1
Mephosfolan	ug/l	0.1	N	<0.1	Pentachloroaniline	ug/l	0.1	N	<0.1
Mepronil	ug/l	0.1	N	<0.1	Pentachlorophenol	ug/l	0.1	N	(278) <0.1
Metalaxyl	ug/l	0.1	N	<0.1	Pentanochlor	ug/l	0.1	N	<0.1
Metazachlor	ug/l	0.1	N	<0.1	Permethrin	ug/l	0.1	N	<0.1
Methacrifos	ug/l	0.1	N	<0.1	Pethoxamid	ug/l	0.1	N	<0.1
Methidathion	ug/l	0.1	N	<0.1	Phenothrin	ug/l	0.1	N	<0.1
Methoxychlor	ug/l	0.1	N	<0.1	Phenthoate	ug/l	0.1	N	<0.1
Methyl Paraoxon	ug/l	0.1	N	<0.1	Phorate	ug/l	0.1	N	<0.1
Metolachlor	ug/l	0.1	N	<0.1	Phosalone	ug/l	0.1	N	<0.1
Metolcarb	ug/l	0.1	N	<0.1	Phosfolan	ug/l	0.1	N	<0.1
Metrafenone	ug/l	0.1	N	<0.1	Picoxystrobin	ug/l	0.1	N	<0.1
Metribuzin	ug/l	0.1	N	<0.1	Piperonyl Butoxide	ug/l	0.1	N	<0.1
Mevinphos	ug/l	0.1	N	<0.1	Pirimicarb	ug/l	0.1	N	<0.1
Mirex	ug/l	0.1	N	<0.1	Pirimiphos Ethyl	ug/l	0.1	N	<0.1
Molinate	ug/l	0.1	N	<0.1	Pirimiphos methyl	ug/l	0.1	N	<0.1
Myclobutanil	ug/l	0.1	N	<0.1	Pretilachlor	ug/l	0.1	N	<0.1
Napropamide	ug/l	0.1	N	<0.1	Procymidone	ug/l	0.1	N	<0.1
Nitrofen	ug/l	0.1	N	<0.1	Profenofos	ug/l	0.1	N	<0.1
Nitrothal isopropyl	ug/l	0.1	N	<0.1	Prometon	ug/l	0.1	N	<0.1
Nuarimol	ug/l	0.1	N	<0.1	Prometryn	ug/l	0.1	N	<0.1
o,p'-DDT	ug/l	0.1	N	<0.1	Propachlor	ug/l	0.1	N	<0.1
o,p-DDD	ug/l	0.1	N	<0.1	Propanil	ug/l	0.1	N	<0.1
o,p-DDE	ug/l	0.1	N	<0.1	Propaphos	ug/l	0.1	N	<0.1
Octylisothiazolon	ug/l	0.1	N	<0.1	Propargite	ug/l	0.1	N	<0.1
Ofurace	ug/l	0.1	N	<0.1	Propazine	ug/l	0.1	N	<0.1
Orysastrobin	ug/l	0.1	N	<0.1	Propetamphos	ug/l	0.1	N	<0.1
Oxadiazon	ug/l	0.1	N	<0.1	Propham	ug/l	0.1	N	<0.1

Report Number : 868550 011
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 23-JUL-2020
Customer Reference : BH22
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Propiconazole	ug/l	0.1	N	<0.1
Propyzamide	ug/l	0.1	N	<0.1
Proquinazid	ug/l	0.1	N	<0.1
Prosulfocarb	ug/l	0.1	N	<0.1
Prothiofos	ug/l	0.1	N	<0.1
Pyraclostrobin	ug/l	0.1	N	<0.1
Pyraflufen ethyl	ug/l	0.1	N	<0.1
Pyrazophos	ug/l	0.1	N	<0.1
Pyridaben	ug/l	0.1	N	<0.1
Pyridaphenthion	ug/l	0.1	N	<0.1
Pyrimethanil	ug/l	0.1	N	<0.1
Pyriproxyfen	ug/l	0.1	N	<0.1
Quinalphos	ug/l	0.1	N	<0.1
Quinoxyfen	ug/l	0.1	N	<0.1
Quintozene	ug/l	0.1	N	<0.1
Quizalofop-ethyl	ug/l	0.1	N	<0.1
Secbumeton	ug/l	0.1	N	<0.1
Silafluofen	ug/l	0.1	N	<0.1
Simazine	ug/l	0.1	N	<0.1
Simeconazole	ug/l	0.1	N	<0.1
Sulfallate	ug/l	0.1	N	<0.1
Sulprofos	ug/l	0.1	N	<0.1
Tebuconazole	ug/l	0.1	N	<0.1
Tebufenpyrad	ug/l	0.1	N	<0.1
Tebupirimiphos	ug/l	0.1	N	<0.1
Tecnazene	ug/l	0.1	N	<0.1
Tefluthrin	ug/l	0.1	N	<0.1
Terbacil	ug/l	0.1	N	<0.1
Terbufos	ug/l	0.1	N	<0.1
Terbumeton	ug/l	0.1	N	<0.1
Terbuthylazine	ug/l	0.1	N	<0.1
Terbutryn	ug/l	0.1	N	<0.1
Tetrachlorvinphos	ug/l	0.1	N	<0.1
Tetraconazole	ug/l	0.1	N	<0.1
Tetradifon	ug/l	0.1	N	<0.1
tetraethyl dithiopyrophosphate	ug/l	0.1	N	<0.1
Tetramethrin	ug/l	0.1	N	<0.1
Tetrasul	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Thiamethoxam	ug/l	0.1	N	<0.1
Thiobencarb	ug/l	0.1	N	<0.1
Tolclofos-methyl	ug/l	0.1	N	<0.1
Triadimefon	ug/l	0.1	N	<0.1
Triadimenol	ug/l	0.1	N	<0.1
Triallate	ug/l	0.1	N	<0.1
Triazamate	ug/l	0.1	N	<0.1
Triazophos	ug/l	0.1	N	<0.1
Trifloxystrobin	ug/l	0.1	N	<0.1
Triflumizole	ug/l	0.1	N	(278) <0.1
Trifluralin	ug/l	0.1	N	<0.1
Vinclozolin	ug/l	0.1	N	<0.1
Vinclozolin metabolite 3,5-Dichloroaniline	ug/l	0.1	N	(278) <0.1

CONCEPT LIFE SCIENCES
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Concept Life Sciences

Certificate of Analysis

Unit 2
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Tel : 01954 782791
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Report Number : 868550 012
Date of Issue : 29-Jul-2020

Customer : Pam Brown Associates
Contact : Dr Melissa Morales
Address : 2 Needwood House, Lancaster Park, Newborough Road, Needwood Burton on Trent, DE13 9PD

Samples Received : 23-Jul-2020
Analysis Started : 24-Jul-2020
Concept Job Reference : 868550-1
Analysis Requested : MRPS by LC (CSOPP603), MRPS by GC (CSOPP611)
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : S2
Location : Wheathampstead
Sample Description : Water

Results Summary

Analyte	Level Found	Units	LOD	EU MRL mg/kg	CODEX MRL mg/kg	Symbol
MRPS by LC (CSOPP603)						
Imidacloprid	**0.1**	ug/l	0.1			N
MRPS by GC (CSOPP611)						
Mecarbam	**0.1**	ug/l	0.1			N

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.
Customers are responsible for information provided where, if incorrect, it could affect the validity of the results.
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 Concept Life Sciences SOPs
All results have been reviewed in accordance with QMSection 15 of the Concept Life Sciences, Analytical Services Quality Manual
All samples prepared in accordance with the CODEX alimentarius

Report checked
and authorised by :
Matt Line
Section Manager - Pesticides

Issued by :
Naomi Woodward
Customer Service Advisor

Index to symbols used in this report

Value	Description
62	LOD was raised due to the method performance of the analytical procedure used
147	Result has been Recovery corrected.
278	Data reported is qualitative as recovery is outside the 60 to 140% range
N	Analysis is not UKAS accredited

Report Number : 868550 012
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : S2
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
2-(1-Naphthyl)acetamide	ug/l	0.1	N	<0.1
3-hydroxycarbofuran	ug/l	0.1	N	<0.1
6-Benzyladenine	ug/l	0.1	N	<0.1
Acephate	ug/l	0.1	N	<0.1
Acetamiprid	ug/l	0.1	N	<0.1
Acibenzolar-S-methyl	ug/l	0.1	N	<0.1
Aldicarb	ug/l	0.1	N	<0.1
Aldicarb sulphone	ug/l	0.1	N	<0.1
Aldicarb sulphoxide	ug/l	0.1	N	<0.1
Aminocarb	ug/l	0.1	N	<0.1
Azadirachtin	ug/l	0.1	N	<0.1
Azinphos ethyl	ug/l	0.1	N	<0.1
Azinphos methyl	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Bendiocarb	ug/l	0.1	N	<0.1
Benfuracarb	ug/l	0.1	N	(278) <0.1
Butralin	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbendazim	ug/l	0.1	N	<0.1
Carbetamide	ug/l	0.1	N	<0.1
Carbofuran	ug/l	0.1	N	<0.1
Carbosulfan	ug/l	0.1	N	(278) <0.1
Carpropamid	ug/l	0.1	N	<0.1
Chinomethionat	ug/l	0.1	N	<0.1
Chlorantraniliprole	ug/l	0.1	N	<0.1
Chlorbromuron	ug/l	0.1	N	<0.1
Chlorfluazuron	ug/l	0.1	N	<0.1
Chloridazon	ug/l	0.1	N	<0.1
Chlorotoluron	ug/l	0.1	N	<0.1
Chlorpropham	ug/l	0.1	N	<0.1
Clofentezine	ug/l	0.1	N	<0.1
Clothianidin	ug/l	0.1	N	<0.1
Cyanazine	ug/l	0.1	N	<0.1
Cyazofamid	ug/l	0.1	N	<0.1
Cycluron	ug/l	0.1	N	<0.1
Cymoxanil	ug/l	0.1	N	<0.1
Cythioate	ug/l	0.1	N	<0.1
Demeton	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Demeton-s-methyl	ug/l	0.1	N	<0.1
Demeton-s-methyl sulphone	ug/l	0.1	N	<0.1
Dichlofluanid	ug/l	0.1	N	<0.1
Dicrotophos	ug/l	0.1	N	<0.1
Diethofencarb	ug/l	0.1	N	<0.1
Diflubenzuron	ug/l	0.1	N	<0.1
Dimefuron	ug/l	0.1	N	<0.1
Dimethoate	ug/l	0.1	N	<0.1
Diniconazole	ug/l	0.1	N	<0.1
Dinotefuran	ug/l	0.1	N	<0.1
Dioxacarb	ug/l	0.1	N	(278) <0.1
Disulfoton sulfoxide	ug/l	0.1	N	<0.1
Disulfoton sulphone	ug/l	0.1	N	<0.1
Diuron	ug/l	0.1	N	<0.1
DMSA	ug/l	0.1	N	<0.1
DMST	ug/l	0.1	N	<0.1
Dodemorph	ug/l	0.1	N	(278) <0.1
Dodine	ug/l	0.1	N	<0.1
Emamectin	ug/l	0.1	N	(278) <0.1
Ethidimuron	ug/l	0.1	N	<0.1
Ethiofencarb	ug/l	0.1	N	<0.1
Ethiofencarb sulfone	ug/l	0.1	N	<0.1
Ethiofencarb sulfoxide	ug/l	0.1	N	<0.1
Ethiprole	ug/l	0.1	N	<0.1
Ethirimol	ug/l	0.1	N	<0.1
Fenamiphos sulfone	ug/l	0.1	N	<0.1
Fenamiphos sulfoxide	ug/l	0.1	N	<0.1
Fenazaquin	ug/l	0.1	N	<0.1
Fenchlorphos oxon	ug/l	0.1	N	<0.1
Fenhexamid	ug/l	0.1	N	<0.1
Fenoxycarb	ug/l	0.1	N	<0.1
Fenpropidin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenpyroximate	ug/l	0.1	N	<0.1
Fenthion Sulphone	ug/l	0.1	N	<0.1
Fenthion Sulphoxide	ug/l	0.1	N	<0.1
Fenuron	ug/l	0.1	N	<0.1
Flonicamid	ug/l	0.1	N	<0.1

Report Number : 868550 012
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : S2
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Fluazinam	ug/l	0.1	N	<0.1
Flufenoxuron	ug/l	0.1	N	<0.1
Fluometuron	ug/l	0.1	N	<0.1
Fluopicolide	ug/l	0.1	N	<0.1
Fluorochloridone	ug/l	0.1	N	<0.1
Fluoxastrobin	ug/l	0.1	N	<0.1
Flurtamone	ug/l	0.1	N	<0.1
Flutriafol	ug/l	0.1	N	<0.1
Forchlorfenuron	ug/l	0.1	N	<0.1
Fosthiasate	ug/l	0.1	N	<0.1
Fuberidazole	ug/l	0.1	N	<0.1
Furathiocarb	ug/l	0.1	N	<0.1
Hexaflumuron	ug/l	0.1	N	<0.1
Hexythiazox	ug/l	0.1	N	<0.1
Imazalil	ug/l	0.1	N	(278) <0.1
Imibenconazole	ug/l	0.1	N	<0.1
Imidacloprid	**ug/l**	**0.1**	**N**	**0.1**
Indoxacarb	ug/l	0.1	N	<0.1
Iprovalicarb	ug/l	0.1	N	<0.1
Isoprocarb	ug/l	0.1	N	<0.1
Isoproturon	ug/l	0.1	N	<0.1
Isoxaben	ug/l	0.1	N	<0.1
Karbutilate	ug/l	0.1	N	<0.1
Linuron	ug/l	0.1	N	<0.1
Lufenuron	ug/l	0.1	N	<0.1
Malaoxon	ug/l	0.1	N	<0.1
Mandipropamid	ug/l	0.1	N	<0.1
Mefenacet	ug/l	0.1	N	<0.1
Metamitron	ug/l	0.1	N	<0.1
Metconazole	ug/l	0.1	N	<0.1
Methabenzthiazuron	ug/l	0.1	N	<0.1
Methamidophos	ug/l	0.1	N	<0.1
Methiocarb	ug/l	0.1	N	<0.1
Methiocarb Sulfone	ug/l	0.1	N	<0.1
Methiocarb Sulfoxide	ug/l	0.1	N	<0.1
Methomyl	ug/l	0.1	N	<0.1
Methoxyfenozide	ug/l	0.1	N	<0.1
Metobromuron	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Metoxuron	ug/l	0.1	N	<0.1
Monocrotophos	ug/l	0.1	N	<0.1
Monolinuron	ug/l	0.1	N	<0.1
Monuron	ug/l	0.1	N	<0.1
Neburon	ug/l	0.1	N	<0.1
Nicotine	ug/l	0.1	N	<0.1
Nitenpyram	ug/l	0.1	N	<0.1
Novaluron	ug/l	0.1	N	<0.1
Omethoate	ug/l	0.1	N	<0.1
Oxadiargyl	ug/l	0.1	N	<0.1
Oxamyl	ug/l	0.1	N	<0.1
Oxycarboxin	ug/l	0.1	N	<0.1
Oxydemeton-Methyl	ug/l	0.1	N	<0.1
Pencycuron	ug/l	0.1	N	<0.1
Phorate sulfone	ug/l	0.1	N	<0.1
Phorate sulfoxide	ug/l	0.1	N	<0.1
Phosmet	ug/l	0.1	N	<0.1
Phosphamidon	ug/l	0.1	N	<0.1
Phoxim	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	<0.1
Prochloraz	ug/l	0.1	N	<0.1
Promecarb	ug/l	0.1	N	<0.1
Propamocarb	ug/l	0.1	N	<0.1
Propaquizafop	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	<0.1
Propoxur	ug/l	0.1	N	<0.1
Pymetrozine	ug/l	0.1	N	<0.1
Pyrifenox	ug/l	0.1	N	<0.1
Resmethrin	ug/l	0.1	N	<0.1
Rotenone	ug/l	0.1	N	<0.1
Spinosad	ug/l	0.1	N	<0.1
Spirodiclofen	ug/l	0.1	N	<0.1
Spiromesifen	ug/l	0.1	N	<0.1
Spiroxamine	ug/l	0.1	N	<0.1
Tebufenozide	ug/l	0.1	N	<0.1
Teflubenzuron	ug/l	0.1	N	<0.1
Temephos	ug/l	0.1	N	<0.1
Terbufos sulfone	ug/l	0.1	N	<0.1

Report Number : 868550 012
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : S2
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Terbufos sulfoxide	ug/l	0.1	N	<0.1
Thiabendazole	ug/l	0.1	N	<0.1
Thiacloprid	ug/l	0.1	N	<0.1
Thiazafluron	ug/l	0.1	N	<0.1
Thiodicarb	ug/l	0.1	N	<0.1
Thiofanox	ug/l	0.1	N	<0.1
Thiophanate Methyl	ug/l	0.1	N	<0.1
Tolylfluanid	ug/l	0.1	N	<0.1
Trichlorfon	ug/l	0.1	N	<0.1
Tridemorph	ug/l	0.1	N	<0.1
Trifloxysulfuron	ug/l	0.1	N	<0.1
Triflumuron	ug/l	0.1	N	<0.1
Triflusulfuron-methyl	ug/l	0.1	N	<0.1
Triticonazole	ug/l	0.1	N	<0.1
Vamidothion	ug/l	0.1	N	<0.1
Vernolate	ug/l	0.1	N	<0.1
Zoxamide	ug/l	0.1	N	<0.1

Report Number : 868550 012
Client : Pam Brown Associates
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Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : S2
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
2,4,6-Trichlorophenol	ug/l	0.1	N	<0.1
2-Phenylphenol	ug/l	0.1	N	<0.1
Acetochlor	ug/l	0.1	N	<0.1
Aclonifen	ug/l	0.1	N	<0.1
Acrinathrin	ug/l	0.1	N	<0.1
Alachlor	ug/l	0.1	N	<0.1
Aldrin	ug/l	0.1	N	<0.1
Ametryn	ug/l	0.1	N	<0.1
Atraton	ug/l	0.1	N	<0.1
Atrazine	ug/l	0.1	N	<0.1
Azaconazole	ug/l	0.1	N	<0.1
Azobenzene	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Benalaxyl	ug/l	0.1	N	<0.1
Benfluralin	ug/l	0.1	N	<0.1
Bifenox	ug/l	0.1	N	<0.1
Bifenthrin	ug/l	0.1	N	<0.1
Binapacryl	ug/l	0.1	N	(278) <0.1
Biphenyl	ug/l	1.2	N	(62, 278) <1.2
Bitertanol	ug/l	0.1	N	<0.1
Boscalid	ug/l	0.1	N	<0.1
Bromacil	ug/l	0.1	N	<0.1
Bromophos	ug/l	0.1	N	<0.1
Bromophos-Ethyl	ug/l	0.1	N	<0.1
Bromopropylate	ug/l	0.1	N	<0.1
Bupirimate	ug/l	0.1	N	<0.1
Buprofezine	ug/l	0.1	N	<0.1
Butachlor	ug/l	0.1	N	<0.1
Cadusafos	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbophenothion	ug/l	0.1	N	<0.1
Carboxine	ug/l	0.1	N	(278) <0.1
Carfentrazone Ethyl	ug/l	0.1	N	<0.1
Chlorobenzilate	ug/l	0.1	N	(278) <0.1
Chlordane (sum of cis and trans isomers)	ug/l	0.1	N	<0.1
Chlordimeform	ug/l	0.1	N	(278) <0.1
Chlorethoxyfos	ug/l	0.1	N	<0.1
Chlorfenapyr	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Chlorfenvinphos	ug/l	0.1	N	<0.1
Chlormephos	ug/l	0.1	N	<0.1
Chloropropylate	ug/l	0.1	N	<0.1
Chlorothalonil	ug/l	0.1	N	<0.1
Chlorpropham	ug/l	0.1	N	<0.1
Chlorpyrifos	ug/l	0.1	N	<0.1
Chlorpyrifos methyl	ug/l	0.1	N	<0.1
Chlorthal Dimethyl	ug/l	0.1	N	<0.1
Chlorthion	ug/l	0.1	N	<0.1
Chlorthiophos	ug/l	0.1	N	<0.1
Chlozolinate	ug/l	0.1	N	<0.1
Clodinafop Propargyl	ug/l	0.1	N	<0.1
Clomazone	ug/l	0.1	N	<0.1
Cloquintocet mexyl	ug/l	0.1	N	<0.1
Coumaphos	ug/l	0.1	N	<0.1
Cyflufenamid	ug/l	0.1	N	<0.1
Cyfluthrin	ug/l	0.1	N	<0.1
Cypermethrin	ug/l	0.1	N	<0.1
Cyphenothrin	ug/l	0.1	N	<0.1
Cyproconazole	ug/l	0.1	N	<0.1
Cyprodinil	ug/l	0.1	N	<0.1
Deltamethrin	ug/l	0.1	N	<0.1
Desmetryn	ug/l	0.1	N	<0.1
Diafenthiuron	ug/l	0.1	N	<0.1
Dialifos	ug/l	0.1	N	<0.1
Diazinon	ug/l	0.1	N	<0.1
Dichlobenil	ug/l	0.1	N	<0.1
Dichlofenthion	ug/l	0.1	N	<0.1
Dichlorvos	ug/l	0.1	N	<0.1
Diclobutrazol	ug/l	0.1	N	<0.1
Dicloran	ug/l	0.1	N	<0.1
Dicofol	ug/l	0.1	N	<0.1
Dieldrin	ug/l	0.1	N	<0.1
Difenoconazole	ug/l	0.1	N	<0.1
Diflufenican	ug/l	0.1	N	<0.1
Dimethenamid	ug/l	0.1	N	<0.1
Dimethomorph	ug/l	0.1	N	<0.1
Dimoxystrobin	ug/l	0.1	N	<0.1

Report Number : 868550 012
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : S2
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Dioxabenzofos	ug/l	0.1	N	(278) <0.1
Diphenamid	ug/l	0.1	N	<0.1
Diphenylamine	ug/l	0.1	N	<0.1
Disulfoton	ug/l	0.1	N	<0.1
Ditalimfos	ug/l	0.1	N	<0.1
Edifenphos	ug/l	0.1	N	<0.1
Endosulphan alpha	ug/l	0.1	N	<0.1
Endosulphan beta	ug/l	0.1	N	<0.1
Endosulphan sulphate	ug/l	0.1	N	<0.1
Endrin	ug/l	0.1	N	<0.1
EPN	ug/l	0.1	N	<0.1
Epoxiconazole	ug/l	0.1	N	<0.1
EPTC	ug/l	0.1	N	<0.1
Etaconazole	ug/l	0.1	N	<0.1
Ethion	ug/l	0.1	N	<0.1
Ethofumesate	ug/l	0.1	N	<0.1
Ethoprophos	ug/l	0.1	N	<0.1
Ethoxyquin	ug/l	0.1	N	(278) <0.1
Etofenprox	ug/l	0.1	N	<0.1
Etoxazole	ug/l	0.1	N	<0.1
Etridiazole	ug/l	0.1	N	<0.1
Etrimfos	ug/l	0.1	N	<0.1
Famoxadone	ug/l	0.1	N	<0.1
Famphur	ug/l	0.1	N	<0.1
Fenamidone	ug/l	0.1	N	<0.1
Fenamiphos	ug/l	0.1	N	<0.1
Fenarimol	ug/l	0.1	N	<0.1
Fenbuconazole	ug/l	0.1	N	<0.1
Fenchlorphos	ug/l	0.1	N	<0.1
Fenitrothion	ug/l	0.1	N	<0.1
Fenpiclonil	ug/l	0.1	N	<0.1
Fenpropathrin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenson	ug/l	0.1	N	<0.1
Fensulfothion	ug/l	0.1	N	<0.1
Fenthion	ug/l	0.1	N	<0.1
Fenvalerate	ug/l	0.1	N	<0.1
Fipronil	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Fipronil sulphone	ug/l	0.1	N	<0.1
Flamprop isopropyl	ug/l	0.1	N	<0.1
Fluazifop-P-Butyl	ug/l	0.1	N	<0.1
Flucythrinate	ug/l	0.1	N	<0.1
Fludioxonil	ug/l	0.1	N	<0.1
Flufenacet	ug/l	0.1	N	<0.1
Flumetralin	ug/l	0.1	N	<0.1
Flumioxazin	ug/l	0.1	N	<0.1
Flumorph	ug/l	0.1	N	<0.1
Fluopyram	ug/l	0.1	N	<0.1
Fluquinconazole	ug/l	0.1	N	<0.1
Fluroxypyr-1-methylheptyl ester	ug/l	0.1	N	<0.1
Flusilazole	ug/l	0.1	N	<0.1
Flutolanil	ug/l	0.1	N	<0.1
Fluxapyroxad	ug/l	0.1	N	<0.1
Fonophos	ug/l	0.1	N	<0.1
Formothion	ug/l	0.1	N	<0.1
Furalaxyl	ug/l	0.1	N	<0.1
Haloxyfop etotyl	ug/l	0.1	N	<0.1
Haloxyfop Methyl	ug/l	0.1	N	<0.1
Heptachlor	ug/l	0.1	N	<0.1
Heptachlor epoxide	ug/l	0.1	N	<0.1
Heptachlor exo Epoxide	ug/l	0.1	N	<0.1
Heptenophos	ug/l	0.1	N	<0.1
Hexachlorobenzene	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (alpha)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (beta)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (delta)	ug/l	0.1	N	<0.1
Hexaconazole	ug/l	0.1	N	<0.1
Hexazinone	ug/l	0.1	N	<0.1
Iodofenphos	ug/l	0.1	N	<0.1
Iprodione	ug/l	0.1	N	<0.1
Isazofos	ug/l	0.1	N	<0.1
Isocarbophos	ug/l	0.1	N	<0.1
Isodrin	ug/l	0.1	N	<0.1
Isofenphos	ug/l	0.1	N	<0.1
Isofenphos Methyl	ug/l	0.1	N	<0.1
Isomethiozin	ug/l	0.1	N	<0.1

Report Number : 868550 012
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Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Isoprothiolane	ug/l	0.1	N	<0.1
Isopyrazam	ug/l	0.1	N	<0.1
Kresoxim Methyl	ug/l	0.1	N	<0.1
Lambda Cyhalothrin	ug/l	0.1	N	<0.1
Lenacil	ug/l	0.1	N	<0.1
Leptophos	ug/l	0.1	N	<0.1
Lindane	ug/l	0.1	N	<0.1
Malathion	ug/l	0.1	N	<0.1
MCPA-thioethyl	ug/l	0.1	N	<0.1
Mecarbam	**ug/l**	**0.1**	**N**	**0.1**
Mepanipyrim	ug/l	0.1	N	<0.1
Mephosfolan	ug/l	0.1	N	<0.1
Mepronil	ug/l	0.1	N	<0.1
Metalaxyl	ug/l	0.1	N	<0.1
Metazachlor	ug/l	0.1	N	<0.1
Methacrifos	ug/l	0.1	N	<0.1
Methidathion	ug/l	0.1	N	<0.1
Methoxychlor	ug/l	0.1	N	<0.1
Methyl Paraoxon	ug/l	0.1	N	<0.1
Metolachlor	ug/l	0.1	N	<0.1
Metolcarb	ug/l	0.1	N	<0.1
Metrafenone	ug/l	0.1	N	<0.1
Metribuzin	ug/l	0.1	N	<0.1
Mevinphos	ug/l	0.1	N	<0.1
Mirex	ug/l	0.1	N	<0.1
Molinate	ug/l	0.1	N	<0.1
Myclobutanil	ug/l	0.1	N	<0.1
Napropamide	ug/l	0.1	N	<0.1
Nitrofen	ug/l	0.1	N	<0.1
Nitrothal isopropyl	ug/l	0.1	N	<0.1
Nuarimol	ug/l	0.1	N	<0.1
o,p'-DDT	ug/l	0.1	N	<0.1
o,p-DDD	ug/l	0.1	N	<0.1
o,p-DDE	ug/l	0.1	N	<0.1
Octylisothiazolon	ug/l	0.1	N	<0.1
Ofurace	ug/l	0.1	N	<0.1
Orysastrobin	ug/l	0.1	N	<0.1
Oxadiazon	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Oxadixyl	ug/l	0.1	N	<0.1
Oxyfluorfen	ug/l	0.1	N	<0.1
p,p-DDD	ug/l	0.1	N	<0.1
p,p-DDE	ug/l	0.1	N	<0.1
p,p-DDT	ug/l	0.1	N	<0.1
Paclobutrazol	ug/l	0.1	N	<0.1
Paraoxon	ug/l	0.1	N	<0.1
Parathion	ug/l	0.1	N	<0.1
Parathion methyl	ug/l	0.1	N	<0.1
Penconazole	ug/l	0.1	N	<0.1
Pendimethalin	ug/l	0.1	N	<0.1
Pentachloroaniline	ug/l	0.1	N	<0.1
Pentachlorophenol	ug/l	0.1	N	(278) <0.1
Pentanochlor	ug/l	0.1	N	<0.1
Permethrin	ug/l	0.1	N	<0.1
Pethoxamid	ug/l	0.1	N	<0.1
Phenothrin	ug/l	0.1	N	<0.1
Phenthoate	ug/l	0.1	N	<0.1
Phorate	ug/l	0.1	N	<0.1
Phosalone	ug/l	0.1	N	<0.1
Phosfolan	ug/l	0.1	N	<0.1
Picoxystrobin	ug/l	0.1	N	<0.1
Piperonyl Butoxide	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	<0.1
Pirimiphos Ethyl	ug/l	0.1	N	<0.1
Pirimiphos methyl	ug/l	0.1	N	<0.1
Pretilachlor	ug/l	0.1	N	<0.1
Procymidone	ug/l	0.1	N	<0.1
Profenofos	ug/l	0.1	N	<0.1
Prometon	ug/l	0.1	N	<0.1
Prometryn	ug/l	0.1	N	<0.1
Propachlor	ug/l	0.1	N	<0.1
Propanil	ug/l	0.1	N	<0.1
Propaphos	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	<0.1
Propazine	ug/l	0.1	N	<0.1
Propetamphos	ug/l	0.1	N	<0.1
Propham	ug/l	0.1	N	<0.1

Report Number : 868550 012
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : S2
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Propiconazole	ug/l	0.1	N	<0.1
Propyzamide	ug/l	0.1	N	<0.1
Proquinazid	ug/l	0.1	N	<0.1
Prosulfocarb	ug/l	0.1	N	<0.1
Prothiofos	ug/l	0.1	N	<0.1
Pyraclostrobin	ug/l	0.1	N	<0.1
Pyraflufen ethyl	ug/l	0.1	N	<0.1
Pyrazophos	ug/l	0.1	N	<0.1
Pyridaben	ug/l	0.1	N	<0.1
Pyridaphenthion	ug/l	0.1	N	<0.1
Pyrimethanil	ug/l	0.1	N	<0.1
Pyriproxyfen	ug/l	0.1	N	<0.1
Quinalphos	ug/l	0.1	N	<0.1
Quinoxyfen	ug/l	0.1	N	<0.1
Quintozene	ug/l	0.1	N	<0.1
Quizalofop-ethyl	ug/l	0.1	N	<0.1
Secbumeton	ug/l	0.1	N	<0.1
Silafluofen	ug/l	0.1	N	<0.1
Simazine	ug/l	0.1	N	<0.1
Simeconazole	ug/l	0.1	N	<0.1
Sulfallate	ug/l	0.1	N	<0.1
Sulprofos	ug/l	0.1	N	<0.1
Tebuconazole	ug/l	0.1	N	<0.1
Tebufenpyrad	ug/l	0.1	N	<0.1
Tebupirimiphos	ug/l	0.1	N	<0.1
Tecnazene	ug/l	0.1	N	<0.1
Tefluthrin	ug/l	0.1	N	<0.1
Terbacil	ug/l	0.1	N	<0.1
Terbufos	ug/l	0.1	N	<0.1
Terbumeton	ug/l	0.1	N	<0.1
Terbuthylazine	ug/l	0.1	N	<0.1
Terbutryn	ug/l	0.1	N	<0.1
Tetrachlorvinphos	ug/l	0.1	N	<0.1
Tetraconazole	ug/l	0.1	N	<0.1
Tetradifon	ug/l	0.1	N	<0.1
tetraethyl dithiopyrophosphate	ug/l	0.1	N	<0.1
Tetramethrin	ug/l	0.1	N	<0.1
Tetrasul	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Thiamethoxam	ug/l	0.1	N	<0.1
Thiobencarb	ug/l	0.1	N	<0.1
Tolclofos-methyl	ug/l	0.1	N	<0.1
Triadimefon	ug/l	0.1	N	<0.1
Triadimenol	ug/l	0.1	N	<0.1
Triallate	ug/l	0.1	N	<0.1
Triazamate	ug/l	0.1	N	<0.1
Triazophos	ug/l	0.1	N	<0.1
Trifloxystrobin	ug/l	0.1	N	<0.1
Triflumizole	ug/l	0.1	N	(278) <0.1
Trifluralin	ug/l	0.1	N	<0.1
Vinclozolin	ug/l	0.1	N	<0.1
Vinclozolin metabolite 3,5-Dichloroaniline	ug/l	0.1	N	(278) <0.1

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Concept Life Sciences

Certificate of Analysis

Unit 2
The Links
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CB23 8UD
Tel : 01954 782791
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Report Number : 868550 013
Date of Issue : 29-Jul-2020

Customer : Pam Brown Associates
Contact : Dr Melissa Morales
Address : 2 Needwood House, Lancaster Park, Newborough Road, Needwood Burton on Trent, DE13 9PD

Samples Received : 23-Jul-2020
Analysis Started : 24-Jul-2020
Concept Job Reference : 868550-1
Analysis Requested : MRPS by LC (CSOPP603), MRPS by GC (CSOPP611)
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : SWS03
Location : Wheathampstead
Sample Description : Water

Results Summary

Analyte	Level Found	Units	LOD	EU MRL mg/kg	CODEX MRL mg/kg	Symbol
MRPS by LC (CSOPP603)	**No residue detected above the limit of detection.**					
MRPS by GC (CSOPP611)	**No residue detected above the limit of detection.**					

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.
Customers are responsible for information provided where, if incorrect, it could affect the validity of the results.
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 Concept Life Sciences SOPs
All results have been reviewed in accordance with QMSection 15 of the Concept Life Sciences, Analytical Services Quality Manual
All samples prepared in accordance with the CODEX alimentarius

Report checked
and authorised by :
Matt Line
Section Manager - Pesticides

Issued by :
Naomi Woodward
Customer Service Advisor

Index to symbols used in this report

Value	Description
62	LOD was raised due to the method performance of the analytical procedure used
147	Result has been Recovery corrected.
278	Data reported is qualitative as recovery is outside the 60 to 140% range
N	Analysis is not UKAS accredited

Report Number : 868550 013
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : SWS03
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
2-(1-Naphthyl)acetamide	ug/l	0.1	N	<0.1
3-hydroxycarbofuran	ug/l	0.1	N	<0.1
6-Benzyladenine	ug/l	0.1	N	<0.1
Acephate	ug/l	0.1	N	<0.1
Acetamiprid	ug/l	0.1	N	<0.1
Acibenzolar-S-methyl	ug/l	0.1	N	<0.1
Aldicarb	ug/l	0.1	N	<0.1
Aldicarb sulphone	ug/l	0.1	N	<0.1
Aldicarb sulphoxide	ug/l	0.1	N	<0.1
Aminocarb	ug/l	0.1	N	<0.1
Azadirachtin	ug/l	0.1	N	<0.1
Azinphos ethyl	ug/l	0.1	N	<0.1
Azinphos methyl	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Bendiocarb	ug/l	0.1	N	<0.1
Benfuracarb	ug/l	0.1	N	(278) <0.1
Butralin	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbendazim	ug/l	0.1	N	<0.1
Carbetamide	ug/l	0.1	N	<0.1
Carbofuran	ug/l	0.1	N	<0.1
Carbosulfan	ug/l	0.1	N	(278) <0.1
Carpropamid	ug/l	0.1	N	<0.1
Chinomethionat	ug/l	0.1	N	<0.1
Chlorantraniliprole	ug/l	0.1	N	<0.1
Chlorbromuron	ug/l	0.1	N	<0.1
Chlorfluazuron	ug/l	0.1	N	<0.1
Chloridazon	ug/l	0.1	N	<0.1
Chlorotoluron	ug/l	0.1	N	<0.1
Chlorpropham	ug/l	0.1	N	<0.1
Clofentezine	ug/l	0.1	N	<0.1
Clothianidin	ug/l	0.1	N	<0.1
Cyanazine	ug/l	0.1	N	<0.1
Cyazofamid	ug/l	0.1	N	<0.1
Cycluron	ug/l	0.1	N	<0.1
Cymoxanil	ug/l	0.1	N	<0.1
Cythioate	ug/l	0.1	N	<0.1
Demeton	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Demeton-s-methyl	ug/l	0.1	N	<0.1
Demeton-s-methyl sulphone	ug/l	0.1	N	<0.1
Dichlofluanid	ug/l	0.1	N	<0.1
Dicrotophos	ug/l	0.1	N	<0.1
Diethofencarb	ug/l	0.1	N	<0.1
Diflubenzuron	ug/l	0.1	N	<0.1
Dimefuron	ug/l	0.1	N	<0.1
Dimethoate	ug/l	0.1	N	<0.1
Diniconazole	ug/l	0.1	N	<0.1
Dinotefuran	ug/l	0.1	N	<0.1
Dioxacarb	ug/l	0.1	N	(278) <0.1
Disulfoton sulfoxide	ug/l	0.1	N	<0.1
Disulfoton sulphone	ug/l	0.1	N	<0.1
Diuron	ug/l	0.1	N	<0.1
DMSA	ug/l	0.1	N	<0.1
DMST	ug/l	0.1	N	<0.1
Dodemorph	ug/l	0.1	N	(278) <0.1
Dodine	ug/l	0.1	N	<0.1
Emamectin	ug/l	0.1	N	(278) <0.1
Ethidimuron	ug/l	0.1	N	<0.1
Ethiofencarb	ug/l	0.1	N	<0.1
Ethiofencarb sulfone	ug/l	0.1	N	<0.1
Ethiofencarb sulfoxide	ug/l	0.1	N	<0.1
Ethiprole	ug/l	0.1	N	<0.1
Ethirimol	ug/l	0.1	N	<0.1
Fenamiphos sulfone	ug/l	0.1	N	<0.1
Fenamiphos sulfoxide	ug/l	0.1	N	<0.1
Fenazaquin	ug/l	0.1	N	<0.1
Fenchlorphos oxon	ug/l	0.1	N	<0.1
Fenhexamid	ug/l	0.1	N	<0.1
Fenoxycarb	ug/l	0.1	N	<0.1
Fenpropidin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenpyroximate	ug/l	0.1	N	<0.1
Fenthion Sulphone	ug/l	0.1	N	<0.1
Fenthion Sulphoxide	ug/l	0.1	N	<0.1
Fenuron	ug/l	0.1	N	<0.1
Flonicamid	ug/l	0.1	N	<0.1

Report Number : 868550 013
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : SWS03
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Fluazinam	ug/l	0.1	N	<0.1
Flufenoxuron	ug/l	0.1	N	<0.1
Fluometuron	ug/l	0.1	N	<0.1
Fluopicolide	ug/l	0.1	N	<0.1
Fluorochloridone	ug/l	0.1	N	<0.1
Fluoxastrobin	ug/l	0.1	N	<0.1
Flurtamone	ug/l	0.1	N	<0.1
Flutriafol	ug/l	0.1	N	<0.1
Forchlorfenuron	ug/l	0.1	N	<0.1
Fosthiasate	ug/l	0.1	N	<0.1
Fuberidazole	ug/l	0.1	N	<0.1
Furathiocarb	ug/l	0.1	N	<0.1
Hexaflumuron	ug/l	0.1	N	<0.1
Hexythiazox	ug/l	0.1	N	<0.1
Imazalil	ug/l	0.1	N	(278) <0.1
Imibenconazole	ug/l	0.1	N	<0.1
Imidacloprid	ug/l	0.1	N	<0.1
Indoxacarb	ug/l	0.1	N	<0.1
Iprovalicarb	ug/l	0.1	N	<0.1
Isoprocarb	ug/l	0.1	N	<0.1
Isoproturon	ug/l	0.1	N	<0.1
Isoxaben	ug/l	0.1	N	<0.1
Karbutilate	ug/l	0.1	N	<0.1
Linuron	ug/l	0.1	N	<0.1
Lufenuron	ug/l	0.1	N	<0.1
Malaoxon	ug/l	0.1	N	<0.1
Mandipropamid	ug/l	0.1	N	<0.1
Mefenacet	ug/l	0.1	N	<0.1
Metamitron	ug/l	0.1	N	<0.1
Metconazole	ug/l	0.1	N	<0.1
Methabenzthiazuron	ug/l	0.1	N	<0.1
Methamidophos	ug/l	0.1	N	<0.1
Methiocarb	ug/l	0.1	N	<0.1
Methiocarb Sulfone	ug/l	0.1	N	<0.1
Methiocarb Sulfoxide	ug/l	0.1	N	<0.1
Methomyl	ug/l	0.1	N	<0.1
Methoxyfenozide	ug/l	0.1	N	<0.1
Metobromuron	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Metoxuron	ug/l	0.1	N	<0.1
Monocrotophos	ug/l	0.1	N	<0.1
Monolinuron	ug/l	0.1	N	<0.1
Monuron	ug/l	0.1	N	<0.1
Neburon	ug/l	0.1	N	<0.1
Nicotine	ug/l	0.1	N	<0.1
Nitenpyram	ug/l	0.1	N	<0.1
Novaluron	ug/l	0.1	N	<0.1
Omethoate	ug/l	0.1	N	<0.1
Oxadiargyl	ug/l	0.1	N	<0.1
Oxamyl	ug/l	0.1	N	<0.1
Oxycarboxin	ug/l	0.1	N	<0.1
Oxydemeton-Methyl	ug/l	0.1	N	<0.1
Pencycuron	ug/l	0.1	N	<0.1
Phorate sulfone	ug/l	0.1	N	<0.1
Phorate sulfoxide	ug/l	0.1	N	<0.1
Phosmet	ug/l	0.1	N	<0.1
Phosphamidon	ug/l	0.1	N	<0.1
Phoxim	ug/l	0.1	N	<0.1
Pirimicarb	ug/l	0.1	N	<0.1
Prochloraz	ug/l	0.1	N	<0.1
Promecarb	ug/l	0.1	N	<0.1
Propamocarb	ug/l	0.1	N	<0.1
Propaquizafop	ug/l	0.1	N	<0.1
Propargite	ug/l	0.1	N	<0.1
Propoxur	ug/l	0.1	N	<0.1
Pymetrozine	ug/l	0.1	N	<0.1
Pyrifenox	ug/l	0.1	N	<0.1
Resmethrin	ug/l	0.1	N	<0.1
Rotenone	ug/l	0.1	N	<0.1
Spinosad	ug/l	0.1	N	<0.1
Spirodiclofen	ug/l	0.1	N	<0.1
Spiromesifen	ug/l	0.1	N	<0.1
Spiroxamine	ug/l	0.1	N	<0.1
Tebufenozide	ug/l	0.1	N	<0.1
Teflubenzuron	ug/l	0.1	N	<0.1
Temephos	ug/l	0.1	N	<0.1
Terbufos sulfone	ug/l	0.1	N	<0.1

Report Number : 868550 013
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : SWS03
Location : Wheathampstead
Sample Description : Water

MRPS by LC (CSOPP603)

Determinand	Units	LOD	Symbol	Result
Terbufos sulfoxide	ug/l	0.1	N	<0.1
Thiabendazole	ug/l	0.1	N	<0.1
Thiacloprid	ug/l	0.1	N	<0.1
Thiazafluron	ug/l	0.1	N	<0.1
Thiodicarb	ug/l	0.1	N	<0.1
Thiofanox	ug/l	0.1	N	<0.1
Thiophanate Methyl	ug/l	0.1	N	<0.1
Tolylfluanid	ug/l	0.1	N	<0.1
Trichlorfon	ug/l	0.1	N	<0.1
Tridemorph	ug/l	0.1	N	<0.1
Trifloxysulfuron	ug/l	0.1	N	<0.1
Triflumuron	ug/l	0.1	N	<0.1
Triflusulfuron-methyl	ug/l	0.1	N	<0.1
Triticonazole	ug/l	0.1	N	<0.1
Vamidothion	ug/l	0.1	N	<0.1
Vernolate	ug/l	0.1	N	<0.1
Zoxamide	ug/l	0.1	N	<0.1

Report Number : 868550 013
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : SWS03
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
2,4,6-Trichlorophenol	ug/l	0.1	N	<0.1
2-Phenylphenol	ug/l	0.1	N	<0.1
Acetochlor	ug/l	0.1	N	<0.1
Aclonifen	ug/l	0.1	N	<0.1
Acrinathrin	ug/l	0.1	N	<0.1
Alachlor	ug/l	0.1	N	<0.1
Aldrin	ug/l	0.1	N	<0.1
Ametryn	ug/l	0.1	N	<0.1
Atraton	ug/l	0.1	N	<0.1
Atrazine	ug/l	0.1	N	<0.1
Azaconazole	ug/l	0.1	N	<0.1
Azobenzene	ug/l	0.1	N	<0.1
Azoxystrobin	ug/l	0.1	N	<0.1
Benalaxyl	ug/l	0.1	N	<0.1
Benfluralin	ug/l	0.1	N	<0.1
Bifenox	ug/l	0.1	N	<0.1
Bifenthrin	ug/l	0.1	N	<0.1
Binapacryl	ug/l	0.1	N	(278) <0.1
Biphenyl	ug/l	1.2	N	(62, 278) <1.2
Bitertanol	ug/l	0.1	N	<0.1
Boscalid	ug/l	0.1	N	<0.1
Bromacil	ug/l	0.1	N	<0.1
Bromophos	ug/l	0.1	N	<0.1
Bromophos-Ethyl	ug/l	0.1	N	<0.1
Bromopropylate	ug/l	0.1	N	<0.1
Bupirimate	ug/l	0.1	N	<0.1
Buprofezine	ug/l	0.1	N	<0.1
Butachlor	ug/l	0.1	N	<0.1
Cadusafos	ug/l	0.1	N	<0.1
Carbaryl	ug/l	0.1	N	<0.1
Carbophenothion	ug/l	0.1	N	<0.1
Carboxine	ug/l	0.1	N	(278) <0.1
Carfentrazone Ethyl	ug/l	0.1	N	<0.1
Chlorobenzilate	ug/l	0.1	N	(278) <0.1
Chlordane (sum of cis and trans isomers)	ug/l	0.1	N	<0.1
Chlordimeform	ug/l	0.1	N	(278) <0.1
Chlorethoxyfos	ug/l	0.1	N	<0.1
Chlorfenapyr	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Chlorfenvinphos	ug/l	0.1	N	<0.1
Chlormephos	ug/l	0.1	N	<0.1
Chloropropylate	ug/l	0.1	N	<0.1
Chlorothalonil	ug/l	0.1	N	<0.1
Chlorpropham	ug/l	0.1	N	<0.1
Chlorpyrifos	ug/l	0.1	N	<0.1
Chlorpyrifos methyl	ug/l	0.1	N	<0.1
Chlorthal Dimethyl	ug/l	0.1	N	<0.1
Chlorthion	ug/l	0.1	N	<0.1
Chlorthiophos	ug/l	0.1	N	<0.1
Chlozolinate	ug/l	0.1	N	<0.1
Clodinafop Propargyl	ug/l	0.1	N	<0.1
Clomazone	ug/l	0.1	N	<0.1
Cloquintocet mexyl	ug/l	0.1	N	<0.1
Coumaphos	ug/l	0.1	N	<0.1
Cyflufenamid	ug/l	0.1	N	<0.1
Cyfluthrin	ug/l	0.1	N	<0.1
Cypermethrin	ug/l	0.1	N	<0.1
Cyphenothrin	ug/l	0.1	N	<0.1
Cyproconazole	ug/l	0.1	N	<0.1
Cyprodinil	ug/l	0.1	N	<0.1
Deltamethrin	ug/l	0.1	N	<0.1
Desmetryn	ug/l	0.1	N	<0.1
Diafenthiuron	ug/l	0.1	N	<0.1
Dialifos	ug/l	0.1	N	<0.1
Diazinon	ug/l	0.1	N	<0.1
Dichlobenil	ug/l	0.1	N	<0.1
Dichlofenthion	ug/l	0.1	N	<0.1
Dichlorvos	ug/l	0.1	N	<0.1
Diclobutrazol	ug/l	0.1	N	<0.1
Dicloran	ug/l	0.1	N	<0.1
Dicofol	ug/l	0.1	N	<0.1
Dieldrin	ug/l	0.1	N	<0.1
Difenoconazole	ug/l	0.1	N	<0.1
Diflufenican	ug/l	0.1	N	<0.1
Dimethenamid	ug/l	0.1	N	<0.1
Dimethomorph	ug/l	0.1	N	<0.1
Dimoxystrobin	ug/l	0.1	N	<0.1

Report Number : 868550 013
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : SWS03
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Dioxabenzofos	ug/l	0.1	N	(278) <0.1
Diphenamid	ug/l	0.1	N	<0.1
Diphenylamine	ug/l	0.1	N	<0.1
Disulfoton	ug/l	0.1	N	<0.1
Ditalimfos	ug/l	0.1	N	<0.1
Edifenphos	ug/l	0.1	N	<0.1
Endosulphan alpha	ug/l	0.1	N	<0.1
Endosulphan beta	ug/l	0.1	N	<0.1
Endosulphan sulphate	ug/l	0.1	N	<0.1
Endrin	ug/l	0.1	N	<0.1
EPN	ug/l	0.1	N	<0.1
Epoxiconazole	ug/l	0.1	N	<0.1
EPTC	ug/l	0.1	N	<0.1
Etaconazole	ug/l	0.1	N	<0.1
Ethion	ug/l	0.1	N	<0.1
Ethofumesate	ug/l	0.1	N	<0.1
Ethoprophos	ug/l	0.1	N	<0.1
Ethoxyquin	ug/l	0.1	N	(278) <0.1
Etofenprox	ug/l	0.1	N	<0.1
Etoxazole	ug/l	0.1	N	<0.1
Etridiazole	ug/l	0.1	N	<0.1
Etrimfos	ug/l	0.1	N	<0.1
Famoxadone	ug/l	0.1	N	<0.1
Famphur	ug/l	0.1	N	<0.1
Fenamidone	ug/l	0.1	N	<0.1
Fenamiphos	ug/l	0.1	N	<0.1
Fenarimol	ug/l	0.1	N	<0.1
Fenbuconazole	ug/l	0.1	N	<0.1
Fenchlorphos	ug/l	0.1	N	<0.1
Fenitrothion	ug/l	0.1	N	<0.1
Fenpiclonil	ug/l	0.1	N	<0.1
Fenpropathrin	ug/l	0.1	N	<0.1
Fenpropimorph	ug/l	0.1	N	<0.1
Fenson	ug/l	0.1	N	<0.1
Fensulfothion	ug/l	0.1	N	<0.1
Fenthion	ug/l	0.1	N	<0.1
Fenvalerate	ug/l	0.1	N	<0.1
Fipronil	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Fipronil sulphone	ug/l	0.1	N	<0.1
Flamprop isopropyl	ug/l	0.1	N	<0.1
Fluazifop-P-Butyl	ug/l	0.1	N	<0.1
Flucythrinate	ug/l	0.1	N	<0.1
Fludioxonil	ug/l	0.1	N	<0.1
Flufenacet	ug/l	0.1	N	<0.1
Flumetralin	ug/l	0.1	N	<0.1
Flumioxazin	ug/l	0.1	N	<0.1
Flumorph	ug/l	0.1	N	<0.1
Fluopyram	ug/l	0.1	N	<0.1
Fluquinconazole	ug/l	0.1	N	<0.1
Fluroxypyr-1-methylheptyl ester	ug/l	0.1	N	<0.1
Flusilazole	ug/l	0.1	N	<0.1
Flutolanil	ug/l	0.1	N	<0.1
Fluxapyroxad	ug/l	0.1	N	<0.1
Fonophos	ug/l	0.1	N	<0.1
Formothion	ug/l	0.1	N	<0.1
Furalaxyl	ug/l	0.1	N	<0.1
Haloxyfop etotyl	ug/l	0.1	N	<0.1
Haloxyfop Methyl	ug/l	0.1	N	<0.1
Heptachlor	ug/l	0.1	N	<0.1
Heptachlor epoxide	ug/l	0.1	N	<0.1
Heptachlor exo Epoxide	ug/l	0.1	N	<0.1
Heptenophos	ug/l	0.1	N	<0.1
Hexachlorobenzene	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (alpha)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (beta)	ug/l	0.1	N	<0.1
Hexachlorocyclohexane (delta)	ug/l	0.1	N	<0.1
Hexaconazole	ug/l	0.1	N	<0.1
Hexazinone	ug/l	0.1	N	<0.1
Iodofenphos	ug/l	0.1	N	<0.1
Iprodione	ug/l	0.1	N	<0.1
Isazofos	ug/l	0.1	N	<0.1
Isocarbophos	ug/l	0.1	N	<0.1
Isodrin	ug/l	0.1	N	<0.1
Isofenphos	ug/l	0.1	N	<0.1
Isofenphos Methyl	ug/l	0.1	N	<0.1
Isomethiozin	ug/l	0.1	N	<0.1

Report Number : 868550 013
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : SWS03
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result	Determinand	Units	LOD	Symbol	Result
Isoprothiolane	ug/l	0.1	N	<0.1	Oxadixyl	ug/l	0.1	N	<0.1
Isopyrazam	ug/l	0.1	N	<0.1	Oxyfluorfen	ug/l	0.1	N	<0.1
Kresoxim Methyl	ug/l	0.1	N	<0.1	p,p-DDD	ug/l	0.1	N	<0.1
Lambda Cyhalothrin	ug/l	0.1	N	<0.1	p,p-DDE	ug/l	0.1	N	<0.1
Lenacil	ug/l	0.1	N	<0.1	p,p-DDT	ug/l	0.1	N	<0.1
Leptophos	ug/l	0.1	N	<0.1	Paclobutrazol	ug/l	0.1	N	<0.1
Lindane	ug/l	0.1	N	<0.1	Paraoxon	ug/l	0.1	N	<0.1
Malathion	ug/l	0.1	N	<0.1	Parathion	ug/l	0.1	N	<0.1
MCPA-thioethyl	ug/l	0.1	N	<0.1	Parathion methyl	ug/l	0.1	N	<0.1
Mecarbam	ug/l	0.1	N	<0.1	Penconazole	ug/l	0.1	N	<0.1
Mepanipyrim	ug/l	0.1	N	<0.1	Pendimethalin	ug/l	0.1	N	<0.1
Mephosfolan	ug/l	0.1	N	<0.1	Pentachloroaniline	ug/l	0.1	N	<0.1
Mepronil	ug/l	0.1	N	<0.1	Pentachlorophenol	ug/l	0.1	N	(278) <0.1
Metalaxyl	ug/l	0.1	N	<0.1	Pentanochlor	ug/l	0.1	N	<0.1
Metazachlor	ug/l	0.1	N	<0.1	Permethrin	ug/l	0.1	N	<0.1
Methacrifos	ug/l	0.1	N	<0.1	Pethoxamid	ug/l	0.1	N	<0.1
Methidathion	ug/l	0.1	N	<0.1	Phenothrin	ug/l	0.1	N	<0.1
Methoxychlor	ug/l	0.1	N	<0.1	Phenthoate	ug/l	0.1	N	<0.1
Methyl Paraoxon	ug/l	0.1	N	<0.1	Phorate	ug/l	0.1	N	<0.1
Metolachlor	ug/l	0.1	N	<0.1	Phosalone	ug/l	0.1	N	<0.1
Metolcarb	ug/l	0.1	N	<0.1	Phosfolan	ug/l	0.1	N	<0.1
Metrafenone	ug/l	0.1	N	<0.1	Picoxystrobin	ug/l	0.1	N	<0.1
Metribuzin	ug/l	0.1	N	<0.1	Piperonyl Butoxide	ug/l	0.1	N	<0.1
Mevinphos	ug/l	0.1	N	<0.1	Pirimicarb	ug/l	0.1	N	<0.1
Mirex	ug/l	0.1	N	<0.1	Pirimiphos Ethyl	ug/l	0.1	N	<0.1
Molinate	ug/l	0.1	N	<0.1	Pirimiphos methyl	ug/l	0.1	N	<0.1
Myclobutanil	ug/l	0.1	N	<0.1	Pretilachlor	ug/l	0.1	N	<0.1
Napropamide	ug/l	0.1	N	<0.1	Procymidone	ug/l	0.1	N	<0.1
Nitrofen	ug/l	0.1	N	<0.1	Profenofos	ug/l	0.1	N	<0.1
Nitrothal isopropyl	ug/l	0.1	N	<0.1	Prometon	ug/l	0.1	N	<0.1
Nuarimol	ug/l	0.1	N	<0.1	Prometryn	ug/l	0.1	N	<0.1
o,p'-DDT	ug/l	0.1	N	<0.1	Propachlor	ug/l	0.1	N	<0.1
o,p-DDD	ug/l	0.1	N	<0.1	Propanil	ug/l	0.1	N	<0.1
o,p-DDE	ug/l	0.1	N	<0.1	Propaphos	ug/l	0.1	N	<0.1
Octylisothiazolon	ug/l	0.1	N	<0.1	Propargite	ug/l	0.1	N	<0.1
Ofurace	ug/l	0.1	N	<0.1	Propazine	ug/l	0.1	N	<0.1
Orysastrobin	ug/l	0.1	N	<0.1	Propetamphos	ug/l	0.1	N	<0.1
Oxadiazon	ug/l	0.1	N	<0.1	Propham	ug/l	0.1	N	<0.1

Report Number : 868550 013
Client : Pam Brown Associates
Samples Received : 23-Jul-2020
Variety : Groundwater
Date Sampled : 22-JUL-2020
Customer Reference : SWS03
Location : Wheathampstead
Sample Description : Water

MRPS by GC (CSOPP611)

Determinand	Units	LOD	Symbol	Result
Propiconazole	ug/l	0.1	N	<0.1
Propyzamide	ug/l	0.1	N	<0.1
Proquinazid	ug/l	0.1	N	<0.1
Prosulfocarb	ug/l	0.1	N	<0.1
Prothiofos	ug/l	0.1	N	<0.1
Pyraclostrobin	ug/l	0.1	N	<0.1
Pyraflufen ethyl	ug/l	0.1	N	<0.1
Pyrazophos	ug/l	0.1	N	<0.1
Pyridaben	ug/l	0.1	N	<0.1
Pyridaphenthion	ug/l	0.1	N	<0.1
Pyrimethanil	ug/l	0.1	N	<0.1
Pyriproxyfen	ug/l	0.1	N	<0.1
Quinalphos	ug/l	0.1	N	<0.1
Quinoxyfen	ug/l	0.1	N	<0.1
Quintozene	ug/l	0.1	N	<0.1
Quizalofop-ethyl	ug/l	0.1	N	<0.1
Secbumeton	ug/l	0.1	N	<0.1
Silafluofen	ug/l	0.1	N	<0.1
Simazine	ug/l	0.1	N	<0.1
Simeconazole	ug/l	0.1	N	<0.1
Sulfallate	ug/l	0.1	N	<0.1
Sulprofos	ug/l	0.1	N	<0.1
Tebuconazole	ug/l	0.1	N	<0.1
Tebufenpyrad	ug/l	0.1	N	<0.1
Tebupirimiphos	ug/l	0.1	N	<0.1
Tecnazene	ug/l	0.1	N	<0.1
Tefluthrin	ug/l	0.1	N	<0.1
Terbacil	ug/l	0.1	N	<0.1
Terbufos	ug/l	0.1	N	<0.1
Terbumeton	ug/l	0.1	N	<0.1
Terbuthylazine	ug/l	0.1	N	<0.1
Terbutryn	ug/l	0.1	N	<0.1
Tetrachlorvinphos	ug/l	0.1	N	<0.1
Tetraconazole	ug/l	0.1	N	<0.1
Tetradifon	ug/l	0.1	N	<0.1
tetraethyl dithiopyrophosphate	ug/l	0.1	N	<0.1
Tetramethrin	ug/l	0.1	N	<0.1
Tetrasul	ug/l	0.1	N	<0.1

Determinand	Units	LOD	Symbol	Result
Thiamethoxam	ug/l	0.1	N	<0.1
Thiobencarb	ug/l	0.1	N	<0.1
Tolclofos-methyl	ug/l	0.1	N	<0.1
Triadimefon	ug/l	0.1	N	<0.1
Triadimenol	ug/l	0.1	N	<0.1
Triallate	ug/l	0.1	N	<0.1
Triazamate	ug/l	0.1	N	<0.1
Triazophos	ug/l	0.1	N	<0.1
Trifloxystrobin	ug/l	0.1	N	<0.1
Triflumizole	ug/l	0.1	N	(278) <0.1
Trifluralin	ug/l	0.1	N	<0.1
Vinclozolin	ug/l	0.1	N	<0.1
Vinclozolin metabolite 3,5-Dichloroaniline	ug/l	0.1	N	(278) <0.1

Appendix D

Regulatory Correspondence

From: Adam Selby
To: theresa.cory@environment-agency.gov.uk
Cc: Padley, Chris; Shaun Tolfree; Emily Cooke; melissamorales@pambrownassociates.co.uk; Andrew Driver
Date: 01 April 2020 16:39:24
Attachments: image003.png
In Situ Monitoring Data Summary.xlsx
image004.png

Good afternoon Theresa,

Thank you for your comments received via planning on the 14th February, and thank you for taking the practical view of allowing works to start whilst we discuss and agree the details of the groundwater monitoring programme. I am writing to you directly to hopefully encourage a more open discussion so that we can agree the details before I issue a revised version of our Baseline Groundwater and River Quality Report to ensure that it meets your expectations, and so hopefully save us both time in the long run.

Groundwater Monitoring Programme
We did confirm in the September meeting that weekly *in situ* monitoring would be carried out during any works occurring below the water table. For all other works the monitoring of *in situ* parameters will be carried out at fortnightly frequency. The results will be assessed within 2-working days

Collection of groundwater samples and chemical laboratory analysis will remain on a monthly basis unless a trigger condition becomes actioned. In support of this proposed frequency Sanctus has assessed groundwater velocity and the transit time from the sentinel wells to the River Lea and the P20 models previously submitted calculated a groundwater velocity of 0.84m/day, which indicates a transit time of 14.3 days between the sentinel wells and the river (a distance of 12m). The Pam Brown Associates (PBA) turnaround time from sampling to receipt of results is 10-days (not including bank holidays), and PBA/Sanctus will commit to reviewing these within 2-working days from receipt using the trigger levels discussed below i.e. a total time of 12-days and within the groundwater transit time. This will allow groundwater quality to be assessed within the groundwater transit time and the implementation the proposed trigger actions if required.

Groundwater and Trigger Levels
Following the EAs request for a trigger level for groundwater conductivity as a potential indicator of pollution, Sanctus has assessed the results of the conductivity data (see attached excel worksheet) for its applicability. Sanctus would have expected hydrocarbons to impede conductivity where present and therefore for the wells on the northern boundary where gross hydrocarbon contamination was detected to have returned lower conductivities than those on the southern boundary where generally no hydrocarbons were detected. However Sanctus notes that the average conductivity along the northern boundary boreholes is 1237.7uS/cm and 1211.9uS/cm on the southern boundary boreholes. We therefore do not consider that there is sufficient difference in conductivity for it to be used an indicator of potential pollution and so do not propose to derive a trigger level. Please note that we have now received and compiled all *in situ* data since our original report issue, including monitoring carried out between sampling rounds, so there has been a change of Sampling Round Numbers to those stated in Table 4 of the Baseline Groundwater and River Quality Report. The monitoring round dates and numbers will be clarified in the revised document.

For the groundwater quality trigger levels proposed in our Report, we derived single trigger levels for each contaminant for the sake of simplicity – we felt that this was suitable and appropriate as the boreholes along the southern boundary had all recorded consistently low concentrations for all contaminants regardless of well screen depth. The only indication that well screen depth is a factor is indicated in water temperature results for WS103 (screen depth 1.0-3.0m bgl), which showed a correlation with atmospheric temperature going into the winter months with temperature steadily dropping from 17.2oC to 9.8oC. The remaining wells (screen depths >3.0m bgl) returned relatively steady temperatures of 12-14oC during the same monitoring period, which Sanctus considers to be representative of deeper groundwater in the chalk.

Our original calculations for the trigger levels were based on the maximum detected concentrations, as we were concerned that the true maximums had not yet been detected as an increasing trend appeared to be continuing on the northern boundary when our monitoring was concluded and that this might lead to an underestimation of the trigger levels. Due to this uncertainty of the data Sanctus selected robust thresholds whilst considering 25% and 50% not to be beyond reasonableness. Sanctus included the laboratory error data to eliminate any spurious results reported and as a crude estimate of tolerable uncertainty within the monitoring regime, so that we could identify significant deviations from the norm that could potentially be associated with our works – but we have now reconsidered this approach. Whilst under-reporting could potentially happen, these would not have the consequence of causing us reporting an incident to the EA. Sanctus considers this to be a conservative estimate as we are not able to estimate the level of uncertainty arising from random fluctuations and bias in the sampling and measurement systems. Despite the increasing trend observed in the northern boundary wells, the same trend was not apparent on the southern boundary, and a complimentary monitoring round in February 2020 (historically when worst-case concentrations have been detected) also did not indicate an increase in concentrations and so Sanctus is more confident in the data we have from the southern boundary.

We have also reconsidered applying the lab error data, as by using the maximum detected concentrations we have effectively taken laboratory error into account. Our new proposed triggers are based on nominal values of 10% and 20% respectively, which are more precautionary than those previously proposed. We have used the maximum detected concentrations rather than an average concentrations as by doing so we would detect naturally varying concentrations occurring above the average so potentially causing undue concern for our works. We have also not referred to the EQS as these are not site-specific and most of our contaminants of concern do not have an EQS value. Please note that even when the Trigger 1 and 2 factors are applied, many of the trigger concentrations are still only marginally above laboratory LODs, hence representing low concentrations that we consider protective of the river.

The new Trigger Levels are summarised in the Table below.

	Southern Boundary (BH22D, WS102, WS103, BH305, & WS306)			**River Lea** (S1 & S2)		
Contaminant	Detected Concentration (DC)	Trigger 1 (DC +10%)	Trigger 2 (DC +20%)	Detected Concentration (DC)	Trigger 1 (DC +10%)	Trigger 2 (DC +20%)
Aliphatic >C8-C10 [a]	0.10	0.12	0.14	0.10	0.11	0.12
Aliphatic >C10-C12 [a]	0.10	0.12	0.14	0.10	0.11	0.12
Aliphatic >C12-C16 [b]	6.50	8.03	8.83	0.10	0.11	0.12
Aliphatic >C16-C21 [a]	0.10	0.12	0.14	0.10	0.11	0.12
Aromatic >C8-C10 [b]	71.0	87.7	96.5	0.10	0.11	0.12
Aromatic >C10-C12 [b]	52.0	64.2	70.6	0.10	0.11	0.12
Aromatic >C12-C16 [b]	64.0	79.0	86.9	0.10	0.11	0.12
Aromatic >C16-C21 [a]	0.10	0.12	0.14	0.10	0.11	0.12
Total Petroleum Hydrocarbons [b]	220	272	299	10.00	11.00	12.00

Naphthalene [b]	41.0	53.3	58.6	0.10	0.11	0.12
Benzo(a)pyrene [a]	0.10	0.13	0.14	0.10	0.11	0.12
2- Phenylphenol [a]	0.40	0.49	0.54	0.10	0.11	0.12
EPTC [a]	0.10	0.12	0.14	0.10	0.11	0.12
Fenson [b]	0.30	0.37	0.41	1.60	1.76	1.92
Mecarbam [a]	0.10	0.12	0.14	0.10	0.11	0.12
Total Pesticides [b]	0.50	0.62	0.68	0.20	0.22	0.24
Turbidity [a]	6125	6738	7350	Not Recorded	-	-

Table Notes
a Limit of Detection
b Maximum recorded value
LOD Limit of Detection
All units in µg/l, except Turbidity reported in NTU
Units

With regard to the trigger actions we have stated in Table 10 in our Baseline Report that monitoring will be increased to a weekly basis should Trigger 1 levels be exceeded. This increased monitoring would commence as soon as reasonably practical following identification of a potential exceedance to verify the result and indicate how rapidly/significant, if proven, any deterioration is happening. We will report to the EA within 3-days should a Trigger 2 exceedance occur. With regard to the River monitoring we will only action a trigger point if the exceedance is recorded downstream of the site only and thus indicating the site to be the source.

Surface Water (River Lea)
I have summarised the historical river monitoring data completed by others in the table below for your reference. The monitoring was carried out quarterly between 2004 and 2014, but it appears not all contaminants were scheduled on every monitoring visit hence differing sample numbers.

	Upstream		Downstream		EQS
Contaminant	Number of detections >LOD / Number of Samples	Maximum concentration (ug/l)	Number of detections >LOD / Number of Samples	Maximum concentration (ug/l)	EQS ug/l
Fenson	1 / 31	0.30	2 / 31	1.60	NA
Propyzamide	2 / 25	0.30	6 / 25	0.30	NA
Atrazine	1 / 31	0.10	1 / 31	0.10	0.60
Diphenylamine	1 / 25	0.30	0 / 25	<0.10	NA
BHC (Beta)	0 / 25	<0.10	1 / 25	0.20	NA
Pyraclostrobin	0 / 25	<0.10	1 / 25	0.30	NA

As you can see the pesticide detections in the river were sporadic and of low concentrations, with no obvious difference between upstream and downstream results to suggest that the site is impacting on the river. Of the pesticides detected only one EQS is available for Atrazine (a pesticide still in use) and the two detections recorded were both below the long-term freshwater EQS.

Also with regard your recommended visual checks of the river for hydrocarbon sheens, I can confirm that Sanctus is already carrying out such checks as detailed in our Method Statement and Site Working Plan for our Discharge Consent and Environmental Permit, respective.

We believe that these clarifications and revised Trigger Levels offer the precautionary approach required whilst still being protective of the river but not overly stringent to lead to over-reporting and loss of time for us and the Environment Agency. We are equally happy to discuss the above proposals, and should these be agreeable then we will issue an updated Baseline Plan.

Best regards

Adam Selby, Senior Environmental Engineer

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