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Attention: Lydia Potter

CERTIFICATE OF ANALYSIS

Date of report Generation: 16 October 2025
Customer: ARCADIS UK Ltd
Sample Delivery Group (SDG): 251009-31
Your Reference: 30224140-1.8
Location: Ford Bridgend
Report No: 780468
Order Number: 30224140 1.8

We received 1 sample on Thursday October 09, 2025 and 1 of these samples were scheduled for analysis which was completed on Thursday October 16, 2025. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden.

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.

Incorrect sampling dates and/or sample information will affect the validity of results.

The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

Justin Keeton
Business Unit Leader - Land



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CERTIFICATE OF ANALYSIS

Validated

SDG: 251009-31
Client Ref.: 30224140-1.8

Report Number: 780468
Location: Ford Bridgend

Superseded Report:

Received Sample Overview

| Lab Sample No(s) | Customer Sample Ref. | AGS Ref. | Depth (m) | Sampled Date |
|------------------|----------------------|----------|-----------|--------------|
| 32266053 | SIGMA WEST | | | 08/10/2025 |

Only received samples which have had analysis scheduled will be shown on the following pages.



CERTIFICATE OF ANALYSIS

Validated

SDG: 251009-31
Client Ref.: 30224140-1.8

Report Number: 780468
Location: Ford Bridgend

Superseded Report:

| | | | | |
|--|--------------------------------------|----------------------------|---------------------|---|
| Results Legend <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="width: 15px; height: 15px; background-color: yellow; border: 1px solid black; margin-right: 5px;"></div> Test </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="width: 15px; height: 15px; background-color: red; color: white; border: 1px solid black; margin-right: 5px; display: flex; align-items: center; justify-content: center;">N</div> No Determination Possible </div> Sample Types - S - Soil/Solid UNS - Unspecified Solid GW - Ground Water SW - Surface Water LE - Land Leachate PL - Prepared Leachate PR - Process Water SA - Saline Water TE - Trade Effluent TS - Treated Sewage US - Untreated Sewage RE - Recreational Water DW - Drinking Water Non-regulatory UNL - Unspecified Liquid SL - Sludge G - Gas OTH - Other | Lab Sample No(s) | 32266053 | | |
| | Customer Sample Reference | SIGMA WEST | | |
| | AGS Reference | | | |
| | Depth (m) | | | |
| | Container | 0.5l glass bottle (ALEZ27) | Vial (ALEZ97) | |
| | Sample Type | GW | GW | |
| | EPH and CWG (Filtered) by FID | All | NDPs: 0 Tests: 1 | X |
| GRO by GC-FID (W) | All | NDPs: 0 Tests: 1 | X | |
| PAH in waters by GC-MS (diss.filt) | All | NDPs: 0 Tests: 1 | X | |
| TPH CWG Filtered (W) | All | NDPs: 0 Tests: 1 | X | |
| VOC MS (W) | All | NDPs: 0 Tests: 1 | X | |



CERTIFICATE OF ANALYSIS

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SDG: 251009-31
Client Ref.: 30224140-1.8

Report Number: 780468
Location: Ford Bridgend

Superseded Report:

TPH CWG (W)

| Results Legend | | Customer Sample Ref. | SIGMA WEST | | | | |
|---|--|--|--|--------|--|--|--|
| # | ISO17025 accredited. | Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference | Ground Water (GW) 08/10/2025 09/10/2025 251009-31 32266053 | | | | |
| M | mCERTS accredited. | | | | | | |
| aq | Aqueous / settled sample. | | | | | | |
| diss.filt | Dissolved / filtered sample. | | | | | | |
| tot.unfilt | Total / unfiltered sample. | | | | | | |
| * | Subcontracted - refer to subcontractor report for accreditation status. | | | | | | |
| ** | % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery | | | | | | |
| *** | 6:2 FTAB (see appendix) | | | | | | |
| 1-4*6@ | Sample deviation (see appendix) | | | | | | |
| Component | LOD/Units | | | Method | | | |
| GRO Surrogate % recovery** | % | TM245 | 101 | | | | |
| GRO >C5-C12 (HS_1D_TOTAL) | <50 µg/l | TM245 | <50 | # | | | |
| Aliphatics >C5-C6 (HS_1D_AL) | <10 µg/l | TM245 | <10 | | | | |
| Aliphatics >C6-C8 (HS_1D_AL) | <10 µg/l | TM245 | <10 | | | | |
| Aliphatics >C8-C10 (HS_1D_AL) | <10 µg/l | TM245 | <10 | | | | |
| Aliphatics >C10-C12 (HS_1D_AL) | <10 µg/l | TM245 | <10 | | | | |
| Aliphatics >C12-C16 (diss.filt) (EH_2D_AL) | <10 µg/l | TM439 | <10 | | | | |
| Aliphatics >C16-C21 (diss.filt) (EH_2D_AL) | <10 µg/l | TM439 | <10 | | | | |
| Aliphatics >C21-C35 (diss.filt) (EH_2D_AL) | <10 µg/l | TM439 | <10 | | | | |
| Total Aliphatics >C12-C35 (diss.filt) (EH_2D_AL) | <10 µg/l | TM439 | <10 | | | | |
| Aromatics >EC5-EC7 (HS_1D_AR) | <10 µg/l | TM245 | <10 | | | | |
| Aromatics >EC7-EC8 (HS_1D_AR) | <10 µg/l | TM245 | <10 | | | | |
| Aromatics >EC8-EC10 | <10 µg/l | TM245 | <10 | | | | |
| Aromatics >EC10-EC12 | <10 µg/l | TM245 | <10 | | | | |
| Aromatics >EC12-EC16 (diss.filt) (EH_2D_AR_#1) | <10 µg/l | TM439 | <10 | | | | |
| Aromatics >EC16-EC21 (diss.filt) (EH_2D_AR_#1) | <10 µg/l | TM439 | <10 | | | | |
| Aromatics >EC21-EC35 (diss.filt) (EH_2D_AR_#1) | <10 µg/l | TM439 | <10 | | | | |
| Total Aromatics >EC12-EC35 (diss.filt) (EH_2D_AR_#1) | <10 µg/l | TM439 | <10 | | | | |
| Total Aliphatics & Aromatics >C5-35 (diss. filt) (HS_1D_TOTAL_EH_2D_TOTAL_#1) | <10 µg/l | TM439 | <10 | | | | |



CERTIFICATE OF ANALYSIS

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SDG: 251009-31
Client Ref.: 30224140-1.8

Report Number: 780468
Location: Ford Bridgend

Superseded Report:

VOC MS (W)

| Results Legend | | Customer Sample Ref. | SIGMA WEST | | | | | |
|------------------------------------|--|--|-------------------|---|--|--|--|--|
| # | ISO17025 accredited. | Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference | Ground Water (GW) | | | | | |
| M | mCERTS accredited. | | 08/10/2025 | | | | | |
| aq | Aqueous / settled sample. | | 09/10/2025 | | | | | |
| diss,filtr | Dissolved / filtered sample. | | 251009-31 | | | | | |
| tot.unfiltr | Total / unfiltered sample. | | 32266053 | | | | | |
| * | Subcontracted - refer to subcontractor report for accreditation status. | | | | | | | |
| ** | % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery | | | | | | | |
| *** | 6:2 FTAB (see appendix) | | | | | | | |
| 1-4*6@ | Sample deviation (see appendix) | | | | | | | |
| Component | LOD/Units | | Method | | | | | |
| Dibromofluoromethane** | % | TM208 | 111 | | | | | |
| Toluene-d8** | % | TM208 | 99.5 | | | | | |
| 4-Bromofluorobenzene** | % | TM208 | 102 | | | | | |
| Dichlorodifluoromethane | <1 µg/l | TM208 | <1 | | | | | |
| Chloromethane | <1 µg/l | TM208 | <1 | # | | | | |
| Vinyl chloride | <1 µg/l | TM208 | <1 | # | | | | |
| Bromomethane | <1 µg/l | TM208 | <1 | # | | | | |
| Chloroethane | <1 µg/l | TM208 | <1 | # | | | | |
| Trichlorofluoromethane | <1 µg/l | TM208 | <1 | # | | | | |
| 1,1-Dichloroethene | <1 µg/l | TM208 | <1 | # | | | | |
| Carbon disulphide | <1 µg/l | TM208 | <1 | # | | | | |
| Dichloromethane | <3 µg/l | TM208 | <3 | # | | | | |
| Methyl tertiary butyl ether (MTBE) | <1 µg/l | TM208 | <1 | # | | | | |
| trans-1,2-Dichloroethene | <1 µg/l | TM208 | <1 | # | | | | |
| 1,1-Dichloroethane | <1 µg/l | TM208 | <1 | # | | | | |
| cis-1,2-Dichloroethene | <1 µg/l | TM208 | <1 | # | | | | |
| 2,2-Dichloropropane | <1 µg/l | TM208 | <1 | # | | | | |
| Bromochloromethane | <1 µg/l | TM208 | <1 | # | | | | |
| Chloroform | <1 µg/l | TM208 | <1 | # | | | | |
| 1,1,1-Trichloroethane | <1 µg/l | TM208 | <1 | # | | | | |
| 1,1-Dichloropropene | <1 µg/l | TM208 | <1 | # | | | | |
| Carbontetrachloride | <1 µg/l | TM208 | <1 | # | | | | |
| 1,2-Dichloroethane | <1 µg/l | TM208 | <1 | # | | | | |
| Benzene | <1 µg/l | TM208 | <1 | # | | | | |
| Trichloroethene | <1 µg/l | TM208 | <1 | # | | | | |
| 1,2-Dichloropropane | <1 µg/l | TM208 | <1 | # | | | | |
| Dibromomethane | <1 µg/l | TM208 | <1 | # | | | | |
| Bromodichloromethane | <1 µg/l | TM208 | <1 | # | | | | |
| cis-1,3-Dichloropropene | <1 µg/l | TM208 | <1 | # | | | | |
| Toluene | <1 µg/l | TM208 | <1 | # | | | | |
| trans-1,3-Dichloropropene | <1 µg/l | TM208 | <1 | # | | | | |
| 1,1,2-Trichloroethane | <1 µg/l | TM208 | <1 | # | | | | |



CERTIFICATE OF ANALYSIS

Validated

SDG: 251009-31
Client Ref.: 30224140-1.8

Report Number: 780468
Location: Ford Bridgend

Superseded Report:

VOC MS (W)

| Results Legend | | Customer Sample Ref. | SIGMA WEST | | | | | |
|-------------------------------|--|--|--|--------|--|--|--|--|
| # | ISO17025 accredited. | Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference | Ground Water (GW) 08/10/2025 09/10/2025 251009-31 32266053 | | | | | |
| M | mCERTS accredited. | | | | | | | |
| aq | Aqueous / settled sample. | | | | | | | |
| dis.filt | Dissolved / filtered sample. | | | | | | | |
| tot.unfilt | Total / unfiltered sample. | | | | | | | |
| * | Subcontracted - refer to subcontractor report for accreditation status. | | | | | | | |
| ** | % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery | | | | | | | |
| *** | 6:2 FTAB (see appendix) | | | | | | | |
| 1-4&@ | Sample deviation (see appendix) | | | | | | | |
| Component | LOD/Units | | | Method | | | | |
| 1,3-Dichloropropane | <1 µg/l | TM208 | <1 | # | | | | |
| Tetrachloroethene | <1 µg/l | TM208 | <1 | # | | | | |
| Dibromochloromethane | <1 µg/l | TM208 | <1 | # | | | | |
| 1,2-Dibromoethane | <1 µg/l | TM208 | <1 | # | | | | |
| Chlorobenzene | <1 µg/l | TM208 | <1 | # | | | | |
| 1,1,1,2-Tetrachloroethane | <1 µg/l | TM208 | <1 | # | | | | |
| Ethylbenzene | <1 µg/l | TM208 | <1 | # | | | | |
| m,p-Xylene | <1 µg/l | TM208 | <1 | # | | | | |
| o-Xylene | <1 µg/l | TM208 | <1 | # | | | | |
| Styrene | <1 µg/l | TM208 | <1 | # | | | | |
| Bromoform | <1 µg/l | TM208 | <1 | # | | | | |
| Isopropylbenzene | <1 µg/l | TM208 | <1 | # | | | | |
| 1,1,2,2-Tetrachloroethane | <1 µg/l | TM208 | <1 | # | | | | |
| 1,2,3-Trichloropropane | <1 µg/l | TM208 | <1 | # | | | | |
| Bromobenzene | <1 µg/l | TM208 | <1 | # | | | | |
| Propylbenzene | <1 µg/l | TM208 | <1 | # | | | | |
| 2-Chlorotoluene | <1 µg/l | TM208 | <1 | # | | | | |
| 1,3,5-Trimethylbenzene | <1 µg/l | TM208 | <1 | # | | | | |
| 4-Chlorotoluene | <1 µg/l | TM208 | <1 | # | | | | |
| tert-Butylbenzene | <1 µg/l | TM208 | <1 | # | | | | |
| 1,2,4-Trimethylbenzene | <1 µg/l | TM208 | <1 | # | | | | |
| sec-Butylbenzene | <1 µg/l | TM208 | <1 | # | | | | |
| 4-iso-Propyltoluene | <1 µg/l | TM208 | <1 | # | | | | |
| 1,3-Dichlorobenzene | <1 µg/l | TM208 | <1 | # | | | | |
| 1,4-Dichlorobenzene | <1 µg/l | TM208 | <1 | # | | | | |
| n-Butylbenzene | <1 µg/l | TM208 | <1 | # | | | | |
| 1,2-Dichlorobenzene | <1 µg/l | TM208 | <1 | # | | | | |
| 1,2-Dibromo-3-chloropropane | <1 µg/l | TM208 | <1 | # | | | | |
| 1,2,4-Trichlorobenzene | <1 µg/l | TM208 | <1 | # | | | | |
| Hexachlorobutadiene | <1 µg/l | TM208 | <1 | # | | | | |
| tert-Amyl methyl ether (TAME) | <1 µg/l | TM208 | <1 | # | | | | |
| Naphthalene | <1 µg/l | TM208 | <1 | # | | | | |



CERTIFICATE OF ANALYSIS

Validated

SDG: 251009-31
Client Ref.: 30224140-1.8

Report Number: 780468
Location: Ford Bridgend

Superseded Report:

Table of Results - Appendix

| Method No | Description |
|-----------|--|
| TM208 | Determination of Volatile Organic Compounds by Headspace / GC-MS in Waters |
| TM245 | Determination of GRO by Headspace in waters |
| TM178 | Determination of Polynuclear Aromatic Hydrocarbons (PAH) by GC-MS in Waters |
| TM439 | Determination of Extractable Petroleum Hydrocarbons (EPH) CWG banding by GC-FID on liquids |

NA = not applicable.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden (Method codes TM).



CERTIFICATE OF ANALYSIS

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Client Ref.: 30224140-1.8

Report Number: 780468
Location: Ford Bridgend

Superseded Report:

Test Completion Dates

| | |
|-----------------------------|--------------|
| Lab Sample No(s) | 32266053 |
| Customer Sample Ref. | SIGMA WEST |
| AGS Ref. | |
| Depth | |
| Type | Ground Water |

| | |
|------------------------------------|-------------|
| EPH and CWG (Filtered) by FID | 11-Oct-2025 |
| GRO by GC-FID (W) | 14-Oct-2025 |
| PAH in waters by GC-MS (diss.filt) | 16-Oct-2025 |
| TPH CWG Filtered (W) | 14-Oct-2025 |
| VOC MS (W) | 14-Oct-2025 |



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Superseded Report:

ASSOCIATED AQC DATA

EPH and CWG (Filtered) by FID

| Component | Method Code | QC 3260 |
|-------------------------------|-------------|---------------------------------|
| Total Aliphatics >C12-C35 (a) | TM439 | 104.52 83.35 : 119.27 |
| Total Aromatics >C12-C35 (a) | TM439 | 109.27 79.82 : 126.88 |
| Total EPH >C10-C40 | TM439 | 93.64 69.36 : 112.84 |

GRO by GC-FID (W)

| Component | Method Code | QC 3292 |
|--------------------|-------------|---------------------------------|
| Benzene by GC | TM245 | 90.05 79.13 : 118.84 |
| Ethylbenzene by GC | TM245 | 94.0 79.54 : 115.99 |
| m & p Xylene by GC | TM245 | 92.47 78.44 : 116.32 |
| MTBE GC-FID | TM245 | 90.35 78.79 : 117.79 |
| o Xylene by GC | TM245 | 92.9 76.85 : 120.29 |
| QC | TM245 | 112.19 74.52 : 122.16 |
| Toluene by GC | TM245 | 95.45 79.00 : 121.96 |

PAH in waters by GC-MS (diss.filt)

| Component | Method Code | QC 3252 |
|------------------------------------|-------------|---------------------------------|
| Acenaphthene (diss.filt) | TM178 | 105.0 94.40 : 118.40 |
| Acenaphthylene (diss.filt) | TM178 | 102.99 89.20 : 120.40 |
| Anthracene (diss.filt) | TM178 | 101.07 92.40 : 118.80 |
| Benzo(a)anthracene (diss.filt) | TM178 | 98.89 85.60 : 116.80 |
| Benzo(a)pyrene (diss.filt) | TM178 | 93.68 84.80 : 113.60 |
| Benzo(b)fluoranthene (diss.filt) | TM178 | 97.59 82.00 : 120.40 |
| Benzo(g,h,i)perylene (diss.filt) | TM178 | 101.04 88.00 : 114.40 |
| Benzo(k)fluoranthene (diss.filt) | TM178 | 108.35 94.40 : 128.00 |
| Chrysene (diss.filt) | TM178 | 99.0 90.00 : 118.80 |
| Dibenzo(a,h)anthracene (diss.filt) | TM178 | 102.29 89.60 : 118.40 |
| Fluoranthene (diss.filt) | TM178 | 103.56 90.40 : 121.60 |
| Fluorene (diss.filt) | TM178 | 106.17 91.60 : 120.40 |



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Superseded Report:

PAH in waters by GC-MS (diss.filt)

| | | QC 3252 |
|------------------------------------|-------|---------------------------------|
| Indeno(1,2,3-cd)pyrene (diss.filt) | TM178 | 93.16 84.40 : 113.20 |
| Naphthalene (diss.filt) | TM178 | 101.02 89.60 : 118.40 |
| Phenanthrene (diss.filt) | TM178 | 100.59 92.40 : 118.80 |
| Pyrene (diss.filt) | TM178 | 105.62 90.80 : 126.80 |

VOC MS (W)

| Component | Method Code | QC 3244 |
|---------------------------|-------------|--------------------------------|
| 1,1,1,2-Tetrachloroethane | TM208 | 95.51 87.71 : 111.59 |
| 1,1,1-Trichloroethane | TM208 | 94.19 85.14 : 112.83 |
| 1,1,2-Tetrachloroethane | TM208 | 94.62 80.56 : 121.81 |
| 1,1,2-Trichloroethane | TM208 | 96.11 85.97 : 117.98 |
| 1,1-Dichloroethane | TM208 | 96.17 79.99 : 118.57 |
| 1,1-Dichloroethene | TM208 | 94.46 81.89 : 114.29 |
| 1,1-Dichloropropene | TM208 | 94.67 81.02 : 114.56 |
| 1,2,3-Trichlorobenzene | TM208 | 94.81 83.21 : 114.98 |
| 1,2,3-Trichloropropane | TM208 | 95.2 81.37 : 123.55 |
| 1,2,4-Trichlorobenzene | TM208 | 91.86 77.32 : 107.26 |
| 1,2,4-Trimethylbenzene | TM208 | 92.72 82.62 : 110.58 |
| 1,2-Dibromoethane | TM208 | 95.86 85.06 : 119.11 |
| 1,2-Dichlorobenzene | TM208 | 95.2 86.40 : 117.30 |
| 1,2-Dichloroethane | TM208 | 93.69 79.35 : 124.02 |
| 1,2-Dichloropropane | TM208 | 95.54 82.54 : 115.78 |
| 1,3,5-Trimethylbenzene | TM208 | 91.3 83.07 : 111.39 |
| 1,3-Dichlorobenzene | TM208 | 95.44 85.41 : 117.06 |
| 1,3-Dichloropropane | TM208 | 95.85 86.50 : 115.72 |
| 1,4-Dichlorobenzene | TM208 | 95.54 85.68 : 118.32 |
| 2-Chlorotoluene | TM208 | 93.97 85.10 : 113.21 |
| 4-Chlorotoluene | TM208 | 94.57 84.98 : 114.32 |



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VOC MS (W)

| | | QC 3244 |
|-------------------------|-------|--------------------------------|
| 4-Isopropyltoluene | TM208 | 95.18 84.46 : 116.71 |
| Benzene | TM208 | 95.0 82.83 : 120.87 |
| Bromobenzene | TM208 | 95.8 87.67 : 117.37 |
| Bromochloromethane | TM208 | 95.72 84.25 : 119.65 |
| Bromodichloromethane | TM208 | 97.22 89.43 : 117.36 |
| Bromoform | TM208 | 95.02 80.80 : 129.10 |
| Bromomethane | TM208 | 95.13 78.77 : 123.20 |
| Carbon Disulphide | TM208 | 94.05 75.05 : 120.92 |
| Carbontetrachloride | TM208 | 94.0 85.94 : 115.37 |
| Chlorobenzene | TM208 | 93.95 88.28 : 110.81 |
| Chloroethane | TM208 | 95.98 74.79 : 127.71 |
| Chloroform | TM208 | 95.83 82.31 : 120.71 |
| Chloromethane | TM208 | 92.64 64.89 : 129.36 |
| Cis-1,2-Dichloroethene | TM208 | 97.26 83.75 : 118.91 |
| Cis-1,3-Dichloropropene | TM208 | 95.78 64.52 : 116.21 |
| Dibromochloromethane | TM208 | 95.95 87.30 : 118.77 |
| Dibromomethane | TM208 | 96.28 85.15 : 120.70 |
| Dichloromethane | TM208 | 95.83 81.20 : 120.83 |
| Ethylbenzene | TM208 | 91.43 80.54 : 112.31 |
| Hexachlorobutadiene | TM208 | 89.11 69.97 : 112.81 |
| Isopropylbenzene | TM208 | 91.42 82.88 : 108.77 |
| Naphthalene | TM208 | 95.52 78.42 : 117.36 |
| n-Butylbenzene | TM208 | 90.68 77.73 : 109.53 |
| o-Xylene | TM208 | 93.7 85.23 : 109.86 |
| p/m-Xylene | TM208 | 92.84 84.35 : 108.80 |
| Propylbenzene | TM208 | 91.63 82.31 : 110.12 |
| Sec-Butylbenzene | TM208 | 95.61 85.17 : 116.61 |



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Superseded Report:

VOC MS (W)

| | | QC 3244 |
|---------------------------|-------|--------------------------------|
| Styrene | TM208 | 94.87 85.12 : 111.55 |
| Tert-amyl methyl ether | TM208 | 92.35 65.39 : 121.76 |
| Tert-butyl methyl ether | TM208 | 92.28 72.07 : 122.11 |
| Tert-Butylbenzene | TM208 | 91.66 83.25 : 110.46 |
| Tetrachloroethene | TM208 | 94.33 83.87 : 115.22 |
| Toluene | TM208 | 93.59 85.59 : 110.19 |
| Trans-1,2-Dichloroethene | TM208 | 96.38 82.77 : 119.04 |
| Trans-1,3-Dichloropropene | TM208 | 94.81 61.41 : 120.96 |
| Trichloroethene | TM208 | 94.56 87.31 : 112.54 |
| Trichlorofluoromethane | TM208 | 94.22 81.11 : 119.21 |
| Vinyl Chloride | TM208 | 93.38 70.24 : 123.07 |

The above information details the reference name of the analytical quality control sample (AQC) that has been run with the samples contained in this report for the different methods of analysis.

The figure detailed is the percentage recovery result for the AQC.

The subscript numbers below are the percentage recovery lower control limit (LCL) and the upper control limit (UCL). The percentage recovery result for the AQC should be between these limits to be statistically in control.



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Report Number: 780468
Location: Ford Bridgend

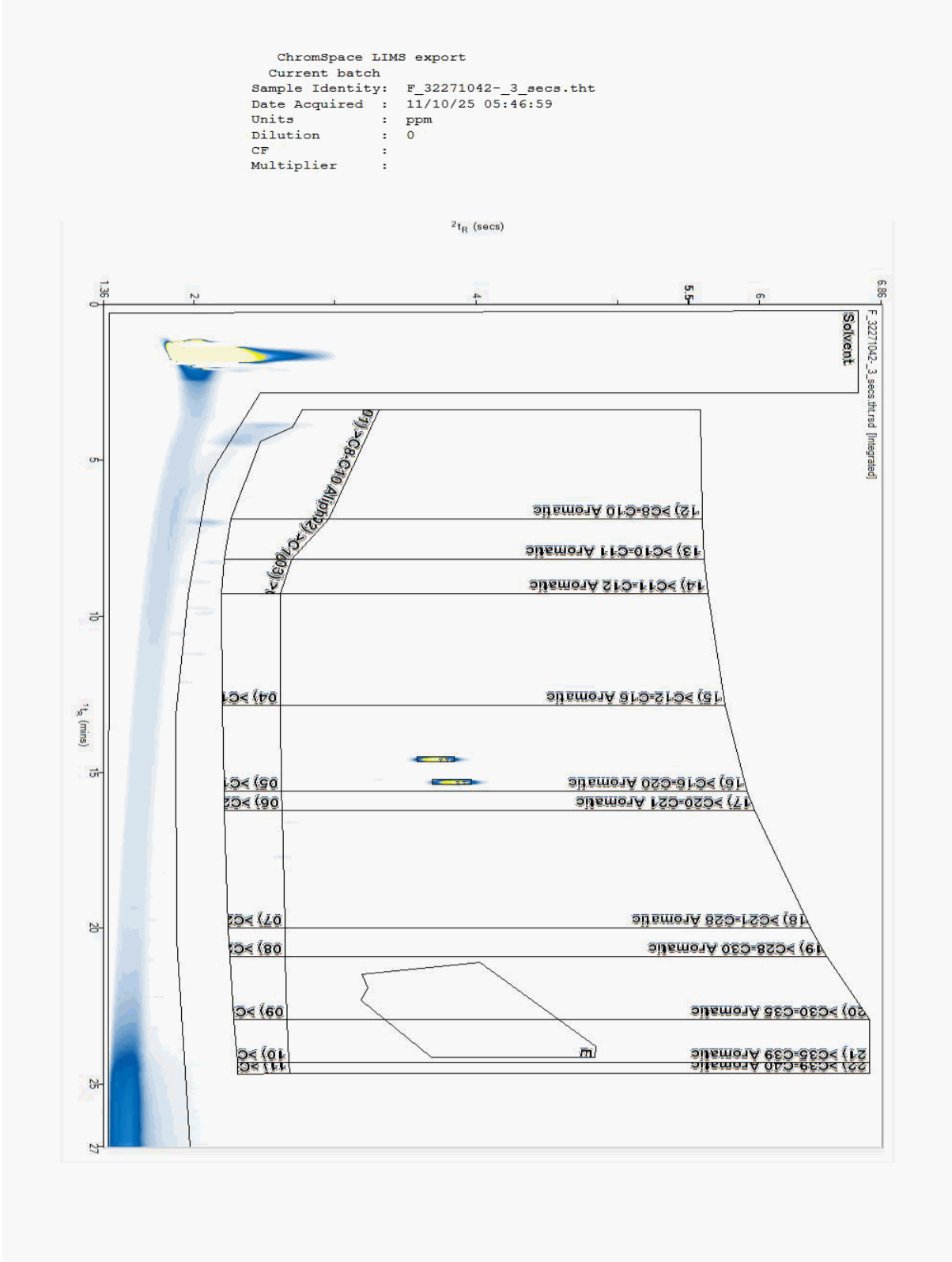
Superseded Report:

Chromatogram

Analysis: EPH and CWG (Filtered) by FID

Sample No : 32271042
Sample ID : SIGMA WEST

Depth :





CERTIFICATE OF ANALYSIS

Validated

SDG: 251009-31
Client Ref.: 30224140-1.8

Report Number: 780468
Location: Ford Bridgend

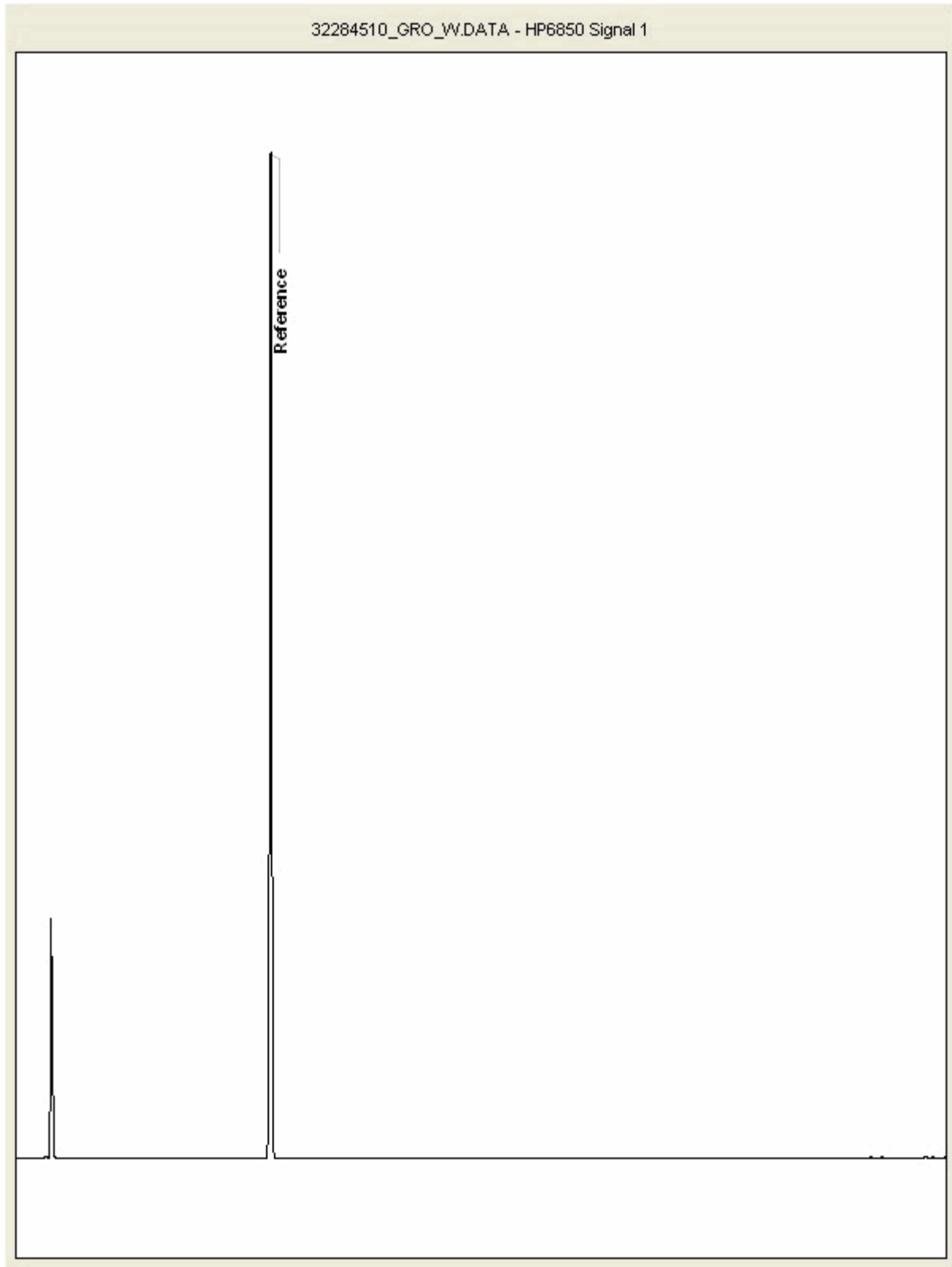
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 32284510
Sample ID : SIGMA WEST

Depth :





CERTIFICATE OF ANALYSIS

SDG: 251009-31
Client Ref: 30224140-1.8

Report Number: 780468
Location: Ford Bridgend

Superseded Report:

Appendix

General

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH₄ by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 15 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of 15 days after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. For dried and crushed preparations of soils volatile loss may occur - e.g volatile mercury.

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

17 Data retention. All records, communications and reports pertaining to the analysis are archived for seven years from the date of issue of the final report.

18. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

19. Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

| | |
|---|---|
| 1 | Container with Headspace provided for volatiles analysis |
| 2 | Incorrect container received |
| 3 | Deviation from method |
| 4 | Matrix interference |
| ◆ | Sample holding time exceeded in laboratory |
| @ | Sample holding time exceeded due to late arrival of instructions or samples |
| § | Sampled on date not provided |

20. Asbestos

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2021), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

If during the search of the two 'pinch' samples by PLM only 1 or 2 fibres or fibre bundles are seen and identified as asbestos, the term 'trace asbestos identified' is reported.

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials and soils are obtained from supplied bulk materials and soils which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2021).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining.

| Asbestos Type | Common Name |
|-------------------------|----------------|
| Chrysotile | White Asbestos |
| Amosite | Brown Asbestos |
| Crocidolite | Blue Asbestos |
| Fibrous Actinolite | - |
| Fibrous Anorthophyllite | - |
| Fibrous Tremolite | - |

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung.

Potentially respirable fibres are identified by using a Phase Contrast Microscope.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

21. 6:2 FTAB

Recovery of 6:2 FTAB in the quality control samples has been observed to be <50% of the target value. Please note the 6:2 FTAB result is supplied as indicative only.