



GROUNDWATER - IN SITU ANALYSIS & SAMPLING

Site: LHR042 Thorney Lane DC1

Job No.: 25/4047

Date: 25/03/2025

Technician: IJ & AD

Sampling method: Low Flow (peristaltic)

Water Quality Meter No:

Turbidity Meter No:

	BH No.		Base of well (mbgl)	Depth to GW Start (mbgl)	Depth to GW End (mbgl)	Weather / Temperature (°C) / Comments:				
	CP105		26.48	1.39	1.40	Cloudy, 15°C PFAS control measures were followed.				
Purge Volume (L)	Time	Temp (°C)	DO (mg/L)	DO (%)	SPC (mS/cm)	pH	pH (mv)	Redox Potential (mV)	Turbidity (NTU)	Colour / Odour
2.0	14:38	11.6	0.6	6.00	0.81	7.65	-57.8	-49.2		Clear
4.0	14:42	11.7	0.5	4.70	0.80	7.60	-58.3	-47.8		Clear
6.0	14:46	11.8	0.4	4.10	0.80	7.67	-58.9	-68.2		Clear
8.0	14:50	11.8	0.4	3.70	0.80	7.67	-59.2	-74.0		Clear
10.0	14:54	11.8	0.4	3.70	0.80	7.68	-59.2	-74.7		Clear
12.0	14:58	11.8	0.4	3.60	0.80	7.68	-59.7	-77.5		Clear
14.0	15:02	11.8	0.4	3.50	0.80	7.68	-59.8	-79.1		Clear

GROUNDWATER - IN SITU ANALYSIS & SAMPLING

Site: LHR042 Thorney Lane DC1

Job No.: 25/4047

Date: 31/03/2025

Technician: AD & MB

Sampling method: Low Flow (peristaltic)

Water Quality Meter No:

Turbidity Meter No:

	BH No.		Base of well (mbgl)	Depth to GW Start (mbgl)	Depth to GW End (mbgl)	Weather / Temperature (°C) / Comments:				
	BH25-05		4.11	1.18	1.20	Sunny, 15°C, putrid smell PFAS control measures were followed.				
Purge Volume (L)	Time	Temp (°C)	DO (mg/L)	DO (%)	SPC (mS/cm)	pH	pH (mv)	Redox Potential (mV)	Turbidity (NTU)	Colour / Odour
2.0	12:20	11.4	1.1	9.80	0.94	9.95	-182.7	-62.9		Clear and Yellow
4.0	12:24	11.6	1.0	8.60	0.94	9.92	-182.2	-63.9		Clear and Yellow
6.0	12:28	11.6	0.8	8.00	0.936	9.91	-183.0	-68.0		Clear and Yellow
8.0	12:32	11.6	0.8	7.50	0.94	9.91	-181.8	-70.0		Clear and Yellow
10.0	12:36	11.6	0.8	7.20	0.94	9.89	-180.8	-68.5		Clear and Yellow
12.0	12:40	11.7	0.8	6.90	0.93	9.89	-180.9	-68.2		Clear and Yellow
14.0	12:44	11.8	0.8	6.70	0.93	9.89	-181.6	-72.2		Muddy
16.0	12:48	11.8	0.8	6.40	0.93	9.88	-180.8	-75.8		Clear and Yellow
18.0	12:52	11.6	0.71	6.6	0.935	9.88	-180.8	-73.6		Clear and Yellow
20.0	12:56	11.8	0.67	6.3	0.934	9.88	-180.6	-76.3		Clear and Yellow
22.0	13:00	11.8	0.7	6.2	0.94	9.99	-186.6	-85.4		Clear and Yellow
24.0	13:04	11.8	0.65	6.2	0.937	9.97	-185.9	-85.4		Clear and Yellow

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GROUNDWATER - IN SITU ANALYSIS & SAMPLING

Site: LHR042 Thorney Lane DC1

Job No.: 25/4047

Date: 31/03/2025

Technician: AD & MB

Sampling method: Low Flow (peristaltic)

Water Quality Meter No:

Turbidity Meter No:

**Base of
well
(mbgl)**

**Depth to
GW Start
(mbgl)**

**Depth to
GW End
(mbgl)**

Weather / Temperature (°C) / Comments:
Sunny, 17°C

PFAS control measures were followed.

BH No.

DS25-09

2.73

1.32

**Purge
Volume
(L)**

Time

Temp (°C)

**DO
(mg/L)**

DO (%)

**SPC
(mS/cm)**

pH

pH (mv)

**Redox
Potential
(mV)**

**Turbidity
(NTU)**

Colour / Odour

2.0

16:46

10.3

2.1

18.80

0.53

7.69

-61.2

-5.5

Clear

4.0

16:50

10.4

2.0

17.80

0.53

7.66

-59.3

-6.2

Clear

6.0

16:54

10.4

1.9

16.70

0.53

7.62

-57.0

-5.1

Clear

8.0

16:58

10.4

1.8

16.10

0.53

7.59

-54.9

-3.5

Clear

10.0

17:02

10.5

1.8

16.20

0.53

7.57

-53.7

-1.7

Clear

12.0

17:04

10.4

1.8

15.70

0.54

7.56

-52.9

-1.8

Clear

14.0

17:08

10.4

1.8

15.50

0.54

7.53

-52.3

-1.5

Clear

16.0

17:12

10.3

1.7

15.30

0.54

7.52

-51.9

-0.5

Clear

GROUNDWATER - IN SITU ANALYSIS & SAMPLING

Site: LHR042 Thorney Lane DC1

Job No.: 25/4047

Date: 01/04/2025

Technician: AZ

Sampling method: Low Flow (peristaltic)

Water Quality Meter No:

Turbidity Meter No:

**Base of
well
(mbgl)**

**Depth to
GW Start
(mbgl)**

**Depth to
GW End
(mbgl)**

Weather / Temperature (°C) / Comments:
13°C, Borehole ran Dry

PFAS control measures were followed.

BH No.

BH25-02

2.00

1.55

Dry

**Purge
Volume
(L)**

Time

Temp (°C)

**DO
(mg/L)**

DO (%)

**SPC
(mS/cm)**

pH

pH (mv)

**Redox
Potential
(mV)**

**Turbidity
(NTU)**

Colour / Odour

2.0

14:32

19.0

11.7

130.20

2.50

8.79

-123.2

69.0

Clear

4.0

14:36

17.5

8.8

102.30

2.30

8.72

-119.3

-31.8

Clear

GROUNDWATER - IN SITU ANALYSIS & SAMPLING

Site: LHR042 Thorney Lane DC1

Job No.: 25/4047

Date: 01/04/2025

Technician: EP & AD

Sampling method: Low Flow (peristaltic)

Water Quality Meter No:

Turbidity Meter No:

**Base of
well
(mbgl)**

**Depth to
GW Start
(mbgl)**

**Depth to
GW End
(mbgl)**

Weather / Temperature (°C) / Comments:
Sunny, 13°C

PFAS control measures were followed.

BH No.

BH25-03

3.45

1.96

**Purge
Volume
(L)**

Time

Temp (°C)

**DO
(mg/L)**

DO (%)

**SPC
(mS/cm)**

pH

pH (mv)

**Redox
Potential
(mV)**

**Turbidity
(NTU)**

Colour / Odour

6.0

12:38

11.2

1.5

13.30

1.06

6.90

-18.2

-45.6

Clear

8.0

12:42

11.2

1.3

12.00

1.06

6.90

-18.3

-50.2

Clear

10.0

12:46

11.1

1.2

10.60

1.06

6.91

-18.8

-55.6

Clear

12.0

12:50

11.1

1.1

10.20

1.06

6.90

-18.6

-57.1

Clear

1.0

12:54

11.2

1.1

9.90

1.05

6.91

-18.9

-59.2

Clear

16.0

13:00

11.2

1.0

9.40

1.06

6.91

-18.9

-61.0

Clear

GROUNDWATER - IN SITU ANALYSIS & SAMPLING

Site: LHR042 Thorney Lane DC1

Job No.: 25/4047

Date: 01/04/2025

Technician: AZ & FT

Sampling method: Low Flow (peristaltic)

Water Quality Meter No:

Turbidity Meter No:

**Base of
well
(mbgl)**

**Depth to
GW Start
(mbgl)**

**Depth to
GW End
(mbgl)**

Weather / Temperature (°C) / Comments:
Cloudy, 13°C

PFAS control measures were followed.

BH No.

BH25-04

2.94

0.83

0.86

**Purge
Volume
(L)**

Time

Temp (°C)

**DO
(mg/L)**

DO (%)

**SPC
(mS/cm)**

pH

pH (mv)

**Redox
Potential
(mV)**

**Turbidity
(NTU)**

Colour / Odour

4.0

10:28

11.9

12.1

116.30

1.40

6.73

-7.3

132.0

Clear

8.0

10:36

11.0

12.5

113.50

1.90

6.65

-5.1

119.8

Clear

12.0

10:44

10.3

10.4

92.90

2.30

6.63

-4.0

112.0

Clear

16.0

10:48

10.5

9.5

85.30

2.30

6.63

-3.5

89.8

Clear

20.0

10:52

10.5

9.4

84.20

2.40

6.61

-3.2

88.2

Clear

24.0

10:58

10.5

9.3

83.10

2.50

6.62

-3.2

87.1

Clear

GROUNDWATER - IN SITU ANALYSIS & SAMPLING

Site: LHR042 Thorney Lane DC1

Job No.: 25/4047

Date: 01/04/2025

Technician: AZ

Sampling method: Low Flow (peristaltic)

Water Quality Meter No:

Turbidity Meter No:

**Base of
well
(mbgl)**

**Depth to
GW Start
(mbgl)**

**Depth to
GW End
(mbgl)**

Weather / Temperature (°C) / Comments:
Sunny, 13°C

PFAS control measures were followed.

BH No.

DS25-02

2.03

1.24

1.32

**Purge
Volume
(L)**

Time

Temp (°C)

**DO
(mg/L)**

DO (%)

**SPC
(mS/cm)**

pH

pH (mv)

**Redox
Potential
(mV)**

**Turbidity
(NTU)**

Colour / Odour

7.0

13:46

18.2

4.9

52.20

4.40

7.05

26.3

79.7

Clear

4.0

13:50

16.6

6.1

62.60

4.00

6.90

-18.7

77.6

Clear

6.0

13:54

16.5

6.0

62.30

4.00

6.85

-18.9

77.4

Clear

8.0

13:58

16.5

6.0

62.23

4.00

6.83

-18.7

77.4

Clear

GROUNDWATER - IN SITU ANALYSIS & SAMPLING

Site: LHR042 Thorney Lane DC1

Job No.: 25/4047

Date: 01/04/2025

Technician: AZ

Sampling method: Low Flow (peristaltic)

Water Quality Meter No:

Turbidity Meter No:

	BH No.		Base of well (mbgl)	Depth to GW Start (mbgl)	Depth to GW End (mbgl)	Weather / Temperature (°C) / Comments: Sunny, 13°C				
	DS25-03		2.82	0.82	0.83	PFAS control measures were followed.				
Purge Volume (L)	Time	Temp (°C)	DO (mg/L)	DO (%)	SPC (mS/cm)	pH	pH (mv)	Redox Potential (mV)	Turbidity (NTU)	Colour / Odour
2.0	12:52	12.9	10.1	95.20	4.40	8.65	-112.3	4.5		Clear
4.0	12:56	12.6	8.4	79.00	6.10	7.55	-53.1	13.0		Clear
6.0	13:00	12.3	8.3	75.50	7.40	7.23	-36.0	23.0		Clear
8.0	13:04	12.2	7.5	71.40	7.80	7.10	-29.3	25.3		Clear
10.0	13:08	12.1	7.1	89.80	7.70	7.03	-28.9	24.7		Clear

GROUNDWATER - IN SITU ANALYSIS & SAMPLING

Site: LHR042 Thorney Lane DC1

Job No.: 25/4047

Date: 01/04/2025

Technician: AZ

Sampling method: Low Flow (peristaltic)

Water Quality Meter No:

Turbidity Meter No:

**Base of
well
(mbgl)**

**Depth to
GW Start
(mbgl)**

**Depth to
GW End
(mbgl)**

Weather / Temperature (°C) / Comments:
Sunny, 13°C

PFAS control measures were followed.

BH No.

DS25-04

2.66

1.55

1.55

**Purge
Volume
(L)**

Time

Temp (°C)

**DO
(mg/L)**

DO (%)

**SPC
(mS/cm)**

pH

pH (mv)

**Redox
Potential
(mV)**

**Turbidity
(NTU)**

Colour / Odour

4.0	11:39	10.6	12.0	108.40	6.20	10.03	-187.3	32.1		Clear
8.0	11:43	10.4	11.7	104.80	6.30	10.01	-186.7	24.9		Clear
12.0	11:47	10.2	11.3	110.60	6.00	10.06	-189.8	-22.7		Clear
16.0	11:51	10.1	10.9	96.30	6.10	10.05	-189.5	28.7		Clear
20.0	11:55	10.1	10.9	95.80	6.00	10.05	-188.7	25.4		Clear

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GROUNDWATER - IN SITU ANALYSIS & SAMPLING

Site: LHR042 Thorney Lane DC1

Job No.: 25/4047

Date: 01/04/2025

Technician: EP & AD

Sampling method: Low Flow (peristaltic)

Water Quality Meter No:

Turbidity Meter No:

**Base of
well
(mbgl)**

**Depth to
GW Start
(mbgl)**

**Depth to
GW End
(mbgl)**

Weather / Temperature (°C) / Comments:
Sunny, 14°C, putrid smell

PFAS control measures were followed.

BH No.

DS25-10

1.82

1.54

**Purge
Volume
(L)**

Time

Temp (°C)

**DO
(mg/L)**

DO (%)

**SPC
(mS/cm)**

pH

pH (mv)

**Redox
Potential
(mV)**

**Turbidity
(NTU)**

Colour / Odour

6.0

14:53

10.7

1.1

9.90

0.56

9.68

-169.3

-96.1

Clear

8.0

14:57

10.8

1.0

9.00

0.56

9.68

-169.4

-102.1

Clear

10.0

15:01

10.8

0.9

8.00

0.57

9.68

-168.8

-107.1

Clear

12.0

15:05

10.9

0.9

7.80

0.57

9.67

-168.7

-109.7

Clear

14.0

15:09

11.0

0.8

7.30

0.57

9.66

-168.4

-110.5

Clear

16.0

15:13

10.9

0.8

7.20

0.57

9.66

-168.4

-112.0

Clear

GROUNDWATER - IN SITU ANALYSIS & SAMPLING

Site: LHR042 Thorney Lane DC1

Job No.: 25/4047

Date: 07/04/2025

Technician: AD & MS

Sampling method: Low Flow (peristaltic)

Water Quality Meter No:

Turbidity Meter No:

**Base of
well
(mbgl)**

**Depth to
GW Start
(mbgl)**

**Depth to
GW End
(mbgl)**

Weather / Temperature (°C) / Comments:
Sunny, 16°C, Borehole ran Dry

PFAS control measures were followed.

BH No.

BH25-02

1.99

1.58

Dry

**Purge
Volume
(L)**

Time

Temp (°C)

**DO
(mg/L)**

DO (%)

**SPC
(mS/cm)**

pH

pH (mv)

**Redox
Potential
(mV)**

**Turbidity
(NTU)**

Colour / Odour

2.0 16:15 11.6 1.3 12.20 0.51 9.53 -163.9 73.3 Clear

GROUNDWATER - IN SITU ANALYSIS & SAMPLING

Site: LHR042 Thorney Lane DC1

Job No.: 25/4047

Date: 08/04/2025

Technician: AD & MS

Sampling method: Low Flow (peristaltic)

Water Quality Meter No:

Turbidity Meter No:

**Base of
well
(mbgl)**

**Depth to
GW Start
(mbgl)**

**Depth to
GW End
(mbgl)**

Weather / Temperature (°C) / Comments:
Sunny, 16°C

PFAS control measures were followed.

BH No.

BH25-03

3.48

2.01

2.01

**Purge
Volume
(L)**

Time

Temp (°C)

**DO
(mg/L)**

DO (%)

**SPC
(mS/cm)**

pH

pH (mv)

**Redox
Potential
(mV)**

**Turbidity
(NTU)**

Colour / Odour

2.0

14:54

12.1

1.3

13.30

1.07

6.99

-23.1

-82.6

Slightly cloudy

4.0

14:58

12.1

0.7

6.80

1.07

6.99

-23.3

-84.0

Slightly cloudy

6.0

15:02

12.1

0.6

5.40

1.07

6.99

-23.2

-84.2

Slightly cloudy

8.0

15:06

12.0

0.5

4.20

1.07

6.99

-23.2

-84.9

Slightly cloudy

10.0

15:10

12.1

0.5

4.30

1.06

6.99

-23.2

-95.6

Clear

12.0

15:14

12.0

0.4

4.20

1.06

6.99

-23.2

-85.2

Clear

14.0

15:18

12.2

0.4

4.00

1.06

6.99

-23.1

-85.1

Clear

GROUNDWATER - IN SITU ANALYSIS & SAMPLING

Site: LHR042 Thorney Lane DC1

Job No.: 25/4047

Date: 08/04/2025

Technician: AD & MS

Sampling method: Low Flow (peristaltic)

Water Quality Meter No:

Turbidity Meter No:

**Base of
well
(mbgl)**

**Depth to
GW Start
(mbgl)**

**Depth to
GW End
(mbgl)**

Weather / Temperature (°C) / Comments:
Cloudy, 12°C

PFAS control measures were followed.

BH No.

BH25-04

2.90

0.86

0.87

**Purge
Volume
(L)**

Time

Temp (°C)

**DO
(mg/L)**

DO (%)

**SPC
(mS/cm)**

pH

pH (mv)

**Redox
Potential
(mV)**

**Turbidity
(NTU)**

Colour / Odour

2.0

11:10

9.6

0.7

5.80

1.11

6.67

-5.5

118.4

Cloudy

4.0

11:14

9.6

0.5

4.60

1.10

6.67

-5.3

119.5

Clear

6.0

11:18

9.6

0.5

4.50

1.10

6.67

-5.1

119.3

Clear

8.0

11:22

9.6

0.5

4.30

1.10

6.66

-4.9

120.0

Clear

10.0

11:26

9.7

0.4

4.10

1.10

6.66

-5.0

120.0

Clear

12.0

11:30

9.7

0.4

4.00

1.09

6.67

-5.1

120.5

Clear

GROUNDWATER - IN SITU ANALYSIS & SAMPLING

Site: LHR042 Thorney Lane DC1

Job No.: 25/4047

Date: 07/04/2025

Technician: AD & MS

Sampling method: Low Flow (peristaltic)

Water Quality Meter No:

Turbidity Meter No:

	BH No.		Base of well (mbgl)	Depth to GW Start (mbgl)	Depth to GW End (mbgl)	Weather / Temperature (°C) / Comments: Sunny, 15°C				
	DS25-03		2.80	0.86	0.85	PFAS control measures were followed.				
Purge Volume (L)	Time	Temp (°C)	DO (mg/L)	DO (%)	SPC (mS/cm)	pH	pH (mv)	Redox Potential (mV)	Turbidity (NTU)	Colour / Odour
2.0	13:02	10.7	0.5	4.80	1.11	6.65	-4.3	91.7		Clear
4.0	13:04	10.9	0.4	4.00	1.11	6.63	-3.1	97.7		Clear
6.0	13:08	10.9	0.4	3.70	1.10	6.62	-2.5	101.6		Clear
8.0	13:12	10.9	0.4	3.40	1.10	6.62	-2.2	103.9		Clear
10.0	13:16	10.8	0.4	3.50	1.10	6.61	-2.1	104.0		Clear
12.0	13:20	10.8	0.4	3.50	1.10	6.62	-2.2	104.6		Clear
14.0	13:24	10.9	0.4	3.40	1.10	6.61	-2.1	104.9		Slightly cloudy

GROUNDWATER - IN SITU ANALYSIS & SAMPLING

Site: LHR042 Thorney Lane DC1

Job No.: 25/4047

Date: 08/04/2025

Technician: FT & MS

Sampling method: Low Flow (peristaltic)

Water Quality Meter No:

Turbidity Meter No:

Purge Volume (L)	BH No.		Base of well (mbgl)	Depth to GW Start (mbgl)	Depth to GW End (mbgl)	Weather / Temperature (°C) / Comments:				
	DS25-05		2.15	1.77	1.77	Sunny, 16°C PFAS control measures were followed.				
Purge Volume (L)	Time	Temp (°C)	DO (mg/L)	DO (%)	SPC (mS/cm)	pH	pH (mv)	Redox Potential (mV)	Turbidity (NTU)	Colour / Odour
2.0	15:06	13.9	9.3	89.40	0.44	7.33	-41.7	79.3		Clear
4.0	15:10	14.2	9.4	91.20	0.43	7.37	-44.3	81.5		Clear
6.0	15:14	14.5	9.4	92.50	0.43	7.41	-46.2	84.1		Clear
8.0	15:18	11.1	1.4	12.90	0.58	7.16	-32.2	85.1		Clear
10.0	15:22	11.2	0.9	8.50	0.57	7.11	-29.3	76.3		Clear
12.0	15:26	11.1	0.8	7.80	0.57	7.10	-29.1	72.7		Clear
14.0	15:30	11.1	1.1	9.50	0.57	7.09	-28.7	69.9		Clear
16.0	15:34	10.9	1.3	11.90	0.57	7.09	-28.4	68.3		Clear
18.0	15:38	11.3	1.67	15.1	0.57	7.08	-28.1	66.3		Clear
20.0	15:42	11.2	1.55	14.4	0.57	7.08	-28.1	65.3		Clear
22.0	15:46	11.6	1.21	11.1	0.57	7.08	-27.8	63.7		Clear

GROUNDWATER - IN SITU ANALYSIS & SAMPLING

Site: LHR042 Thorney Lane DC1

Job No.: 25/4047

Date: 08/04/2025

Technician: AD & MS

Sampling method: Low Flow (peristaltic)

Water Quality Meter No:

Turbidity Meter No:

**Base of
well
(mbgl)**

**Depth to
GW Start
(mbgl)**

**Depth to
GW End
(mbgl)**

Weather / Temperature (°C) / Comments:
Sunny, 10°C

PFAS control measures were followed.

BH No.

DS25-06

2.81

1.40

1.40

**Purge
Volume
(L)**

Time

Temp (°C)

**DO
(mg/L)**

DO (%)

**SPC
(mS/cm)**

pH

pH (mv)

**Redox
Potential
(mV)**

**Turbidity
(NTU)**

Colour / Odour

2.0

10:15

11.4

0.7

6.70

0.75

6.86

-15.9

146.8

Clear

4.0

10:19

11.4

0.6

5.00

0.75

6.82

-13.3

121.6

Clear

6.0

10:23

11.5

0.5

4.50

0.74

6.80

-12.6

109.6

Clear

8.0

10:27

11.5

0.5

4.20

0.74

6.80

-12.2

103.6

Clear

10.0

10:31

11.6

0.4

3.90

0.74

6.79

-11.5

91.0

Clear

12.0

10:35

11.7

0.4

3.90

0.74

6.78

-11.1

84.6

Clear

14.0

10:39

11.7

0.4

3.50

0.74

6.77

-10.8

77.7

Clear



Job No.:	25/4047

Date:	07/04/2025

Technician:	AD & MS

Sampling method:	<i>Low Flow (peristaltic)</i>

Water Quality Meter No:

Turbidity Meter No:

Weather / Temperature (°C) / Comments:
Sunny, 16°C

PFAS control measures were followed.

[illegible]

GROUNDWATER - IN SITU ANALYSIS & SAMPLING

Site: LHR042 Thorney Lane DC1

Job No.: 25/4047

Date: 07/04/2025

Technician: AD & MS

Sampling method: Low Flow (peristaltic)

Water Quality Meter No:

Turbidity Meter No:

	BH No.		Base of well (mbgl)	Depth to GW Start (mbgl)	Depth to GW End (mbgl)	Weather / Temperature (°C) / Comments: Sunny, 13°C				
	DS25-09		2.73	1.37	1.38	PFAS control measures were followed.				
Purge Volume (L)	Time	Temp (°C)	DO (mg/L)	DO (%)	SPC (mS/cm)	pH	pH (mv)	Redox Potential (mV)	Turbidity (NTU)	Colour / Odour
2.0	11:38	10.9	1.3	11.20	0.59	7.58	-55.1	-41.2		Clear
4.0	11:42	11.0	1.9	17.40	0.59	7.55	-53.5	-42.1		Clear
6.0	11:46	11.0	1.6	14.70	0.59	7.53	-52.8	-39.2		Clear
8.0	11:50	11.1	1.6	14.60	0.59	7.53	-52.5	-36.7		Clear
10.0	11:54	11.2	1.3	11.60	0.59	7.52	-52.2	-37.7		Clear
12.0	11:58	11.2	1.1	9.80	0.59	7.52	-51.9	-38.2		Clear
14.0	12:02	11.2	1.1	10.60	0.59	7.51	-51.7	-42.9		Clear
16.0	12:06	1.5	1.1	10.40	0.59	7.51	-51.5	-44.9		Clear
18.0	12:10	11.4	1.08	10.1	0.59	7.51	-51.3	-45.3		Clear

TEST DATE AND CONDITIONS			
Date		20/03/2025	
Atmospheric Pressure		1002	mB
Ambient Temperature		22.1	°C
EnviroNics Serial No.		5089	

**GFM436 Final Inspection & Calibration
Check Certificate**

GAS DATA LTD

Unit D

Earlplace Business Park

Fletchamstead Highway

Coventry

CV4 9XL

Tel 02476303311

Fax 02476307711



GAS DATA
LISTEN • ANALYSE • INFORM

Customer	Concept Site Investigations
Certificate Number	125965
Order Number	341132

Serial Number	13240
Software Version	G436-00.0027/0010

Recalibration DUE Date
20/03/26

Instrument Checks					
Keyboard	✓		Display Contrast	✓	
Pump Flow In	500	Accept > 200 cc/min	Pump Flow @ -200mB	300	Accept > 200 cc/min
Clock Set / Running	✓		Labels Fitted	✓	

Gas Checks						
Sensor	CH ₄		CO ₂		O ₂	
	Instrument Gas	True Gas Value %	Instrument Gas	True Gas Value %	Instrument Gas	True Gas Value %
	Readings %		Readings %		Readings %	
	59.7	60	40.0	40	20.9	20.9
	Accept ±3.0		Accept ±3.0		Accept ±0.5	
	5.0	5	5.0	5	6.0	6
	Accept ±0.3		Accept ±0.3		Accept ±0.3	
Zero Reading 100% N ₂	0.0	0	0.0	0	0.0	0
	Accept ±0.0		Accept ±0.0		Accept ±0.1	

Optional Gas Checks						
Applied Gas & Range		Concentration Tested @ (ppm)	Instrument Readings (ppm)			
Gas Type	Range (ppm)		Zero Reading		Instrument Gas Reading	
H ₂ S	5000	1500	0	Accept ±0.0	1500	Accept ±5.0%
CO	2000	1000	0	Accept ±0.0	999	Accept ±5.0%
Hexane	2.0%	2.0%	0	Accept ±0.0	1.99	Accept ±10.0%

Cross Gas Effects									
Applied Gas (ppm)		Instrument Readings (ppm)							
Gas Type	Concentration	Toxic 1:	H2S	Toxic 2:	CO	Toxic 3:	HEX		
H2S	1500	1500		0		0			
CO	1000	70		999		0			
Hexane	2.0%	0		0		1.99			

Pressure Checks			
Atmospheric Pressure [AP] (mB)			
Current Atmospheric Pressure (mB)		Instrument Atmospheric Pressure Reading (mB)	
AP Open Ports		1002	Accept ± 2.0
AP Port (Internal)	+800 mB	800	Accept ± 5.0
	+1200mb	1200	Accept ± 5.0

Flow Checks					
Borehole Flow			Differential Pressure		
Applied Reading (l/h)	Instrument Reading (l/h)		Applied Pressure (Pa)	Instrument Reading (Pa)	
-30	-30.3	Accept ± 3.0	-324	-329	Accept ± 50
-3	-3.0	Accept ± 1.0	-15	-15	Accept ± 6.0
0	0.0	Accept ± 0.0	0	0	Accept ± 0.5
3	3.0	Accept ± 0.5	15	15	Accept ± 3.0
30	30.0	Accept ± 3.0	335	337	Accept ± 50
60	60.0	Accept ± 6.0	987	986	Accept ± 130
90	90.6	Accept ± 9.0	1945	1991	Accept ± 250

Temperature Checks		
Calibration Temperature	Instrument Temperature Reading $^{\circ}\text{C}$	
Applied Temperature $^{\circ}\text{C}$		
-10	-10.0	Accept ± 2.0
0	0.0	Accept ± 1.0
30	30.0	Accept ± 1.0
60	60.0	Accept ± 1.0
100	100.0	Accept ± 1.0

Technician:
Jack Rutland

Date Tested:
20/03/2025

The instrument identified by the serial number stated above has been tested by Gas Data personnel for calibration accuracy on the date and under the ambient conditions stated. Gas Data Ltd internal BS EN ISO9001:2015, BS EN ISO14001:2015, BS EN ISO45001:2018 compliant workshop procedures were followed to apply known calibration test gases, gas flow rates, pressures and temperatures of the values stated. The results displayed on the instrument at each stage are recorded above.

Gas Data Ltd is certified to BS EN ISO9001:2015, BS EN ISO14001:2015, BS EN ISO45001:2018.

TEST DATE AND CONDITIONS			
Date		25/07/2024	
Atmospheric Pressure Ambient Temperature Envionics Serial No.		991	mB
		22.4	°C
		5089	

**GFM436 Final Inspection & Calibration
Check Certificate**

GAS DATA LTD	
Unit D	
Earlplace Business Park	
Fletchamstead Highway	
Coventry	
CV4 9XL	
Tel 02476303311	Fax 02476307711

Customer	Concept Consultants
Certificate Number	125408
Order Number	338919

Serial Number	12224
Software Version	G436-00.0027/0011

Recalibration DUE Date
25/07/25

Instrument Checks					
Keyboard	✓		Display Contrast	✓	
Pump Flow In	500	Accept > 200 cc/min	Pump Flow @ -200mB	250	Accept > 200 cc/min
Clock Set / Running	✓		Labels Fitted	✓	

Gas Checks						
Sensor	CH ₄		CO ₂		O ₂	
	Instrument Gas	True Gas Value %	Instrument Gas	True Gas Value %	Instrument Gas	True Gas Value %
	Readings %		Readings %		Readings %	
	59.7	60	39.7	40	20.9	20.9
	Accept ±3.0		Accept ±3.0		Accept ±0.5	
	5.0	5	5.0	5	6.0	6
Zero Reading 100% N2	0.0	0	0.0	0	0.0	0
	Accept ±0.0		Accept ±0.0		Accept ±0.1	

Optional Gas Checks						
Applied Gas & Range		Concentration Tested @ (ppm)	Instrument Readings (ppm)			
Gas Type	Range (ppm)		Zero Reading		Instrument Gas Reading	
H2S	5000	1500	0	Accept ±0.0	1500	Accept ±5.0%
CO	2000	1000	0	Accept ±0.0	1003	Accept ±5.0%
Hexane	2.0%	2.0%	0	Accept ±0.0	1.99	Accept ±10.0%

Cross Gas Effects									
Applied Gas (ppm)		Instrument Readings (ppm)							
Gas Type	Concentration	Toxic 1:	H2S	Toxic 2:	CO	Toxic 3:	HEX		
H2S	1500	1500		0		0			
CO	1000	90		1003		0			
Hexane	2.0%	0		0		1.99			

Pressure Checks			
Atmospheric Pressure [AP] (mB)			
Current Atmospheric Pressure (mB)		Instrument Atmospheric Pressure Reading (mB)	
AP Open Ports		991	Accept ± 2.0
AP Port (Internal)	+800 mB	800	Accept ± 5.0
	+1200mb	1200	Accept ± 5.0

Flow Checks					
Borehole Flow			Differential Pressure		
Applied Reading (l/h)	Instrument Reading (l/h)		Applied Pressure (Pa)	Instrument Reading (Pa)	
-30	-30.1	Accept ± 3.0	-335	-340	Accept ± 50
-3	-3.0	Accept ± 1.0	-16	-17	Accept ± 6.0
0	0.0	Accept ± 0.0	0	0	Accept ± 0.5
3	3.0	Accept ± 0.5	16	17	Accept ± 3.0
30	30.1	Accept ± 3.0	335	330	Accept ± 50
60	60.7	Accept ± 6.0	930	950	Accept ± 130
90	90.9	Accept ± 9.0	1780	1832	Accept ± 250

Temperature Checks		
Calibration Temperature	Instrument Temperature Reading $^{\circ}\text{C}$	
Applied Temperature $^{\circ}\text{C}$		
-10	-10.0	Accept ± 2.0
0	0.0	Accept ± 1.0
30	30.0	Accept ± 1.0
60	60.0	Accept ± 1.0
100	100.0	Accept ± 1.0

Technician:
<i>Jack Rutland</i>

Date Tested:
<i>25/07/2024</i>

The instrument identified by the serial number stated above has been tested by Gas Data personnel for calibration accuracy on the date and under the ambient conditions stated. Gas Data Ltd internal BS EN ISO9001:2015, BS EN ISO14001:2015, BS EN ISO45001:2018 compliant workshop procedures were followed to apply known calibration test gases, gas flow rates, pressures and temperatures of the values stated. The results displayed on the instrument at each stage are recorded above.

14. CHEMICAL LABORATORY TESTING RESULTS



Amended Report

Report No.:	25-06045-5		
Initial Date of Issue:	08-Apr-2025	Date of Re-Issue:	11-Apr-2025
Re-Issue Details:	This report has been revised and directly supersedes 25-06045-4 in its entirety		
Client	Concept Engineering Consultants		
Client Address:	47 - 49 Brunel Road London W3 7XR		
Contact(s):	Gabriela Mandache Kasia Mazerant Lab		
Project	25/4047- LHR042 Thoney Lane DC1		
Quotation No.:	Q25-36897	Date Received:	20-Feb-2025
Order No.:	104813 (CL6699)	Date Instructed:	21-Feb-2025
No. of Samples:	5		
Turnaround (Wkdays):	12	Results Due:	10-Mar-2025
Date Approved:	09-Apr-2025	Subcon Results Due:	14-Mar-2025
Approved By:			

Details: Simon Wicks, Specialist Chemist

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: 25/4047- LHR042 Thoney Lane DC1

Client: Concept Engineering Consultants		Chemtest Job No.:				25-06045	25-06045	25-06045	25-06045	25-06045
Quotation No.: Q25-36897		Chemtest Sample ID.:				1936405	1936407	1936408	1936409	1936410
		Client Sample ID.:				1	3	4	5	6
		Sample Location:				BH25-03	BH25-04	BH25-04	BH25-01	BH25-01
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				0.30	0.40	0.90	0.30	1.00
		Bottom Depth (m):				0.30	0.40	0.90	0.30	1.00
		Date Sampled:				18-Feb-2025	19-Feb-2025	19-Feb-2025	18-Feb-2025	18-Feb-2025
		Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
ACM Type		N	2192		N/A	-	-	-	-	
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	
Moisture		N	2030	%	0.020	13	12	15	9.2	4.1
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones	Stones
Soil Texture		N	2040		N/A	Clay	Sand	Clay	Clay	Sand
pH at 20C		M	2010		4.0	9.1	10.4	9.0	11.5	9.6
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	1.6	1.8	1.1	1.6	1.1
Cyanide (Total)		M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Arsenic		M	2455	mg/kg	0.5	13	6.5	8.2	10	19
Beryllium		U	2455	mg/kg	0.5	0.8	0.5	0.5	1.0	0.9
Cadmium		M	2455	mg/kg	0.10	0.12	0.10	< 0.10	0.29	0.11
Chromium		M	2455	mg/kg	0.5	17	15	17	26	23
Antimony		N	2455	mg/kg	2.0	33	< 2.0	< 2.0	2.6	< 2.0
Copper		M	2455	mg/kg	0.50	72	20	15	44	13
Mercury		M	2455	mg/kg	0.05	0.17	0.12	0.08	0.06	< 0.05
Nickel		M	2455	mg/kg	0.50	23	12	17	22	21
Lead		M	2455	mg/kg	0.50	1200	62	26	260	22
Selenium		M	2455	mg/kg	0.25	< 0.25	< 0.25	0.60	0.52	< 0.25
Vanadium		U	2455	mg/kg	0.5	25	21	31	38	30
Zinc		M	2455	mg/kg	0.50	67	58	44	77	49
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	2.0	2.2	< 2.0	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	4.6	< 1.0	< 1.0	6.6	< 1.0
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	3.5	< 2.0	< 2.0	32	< 2.0
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	8.5	< 3.0	< 3.0	190	< 3.0
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	< 10	40	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	19	< 5.0	< 5.0	230	< 5.0
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	19	< 10	< 10	270	< 10

Results - Soil

Project: 25/4047- LHR042 Thoney Lane DC1

Client: Concept Engineering Consultants		Chemtest Job No.:	25-06045	25-06045	25-06045	25-06045	25-06045
Quotation No.: Q25-36897		Chemtest Sample ID.:	1936405	1936407	1936408	1936409	1936410
		Client Sample ID.:	1	3	4	5	6
		Sample Location:	BH25-03	BH25-04	BH25-04	BH25-01	BH25-01
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.30	0.40	0.90	0.30	1.00
		Bottom Depth (m):	0.30	0.40	0.90	0.30	1.00
		Date Sampled:	18-Feb-2025	19-Feb-2025	19-Feb-2025	18-Feb-2025	18-Feb-2025
		Asbestos Lab:	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	3.9	16
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	4.7	34
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	2.6	19
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	8.5	51
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	11	70
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	27	280
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	30	340
Total Organic Carbon		M	2625	%	0.20	1.7	4.4
Dichlorodifluoromethane		U	2760	mg/kg	0.0010		< 0.0010
Chloromethane		M	2760	mg/kg	0.0010		< 0.0010
Vinyl Chloride		M	2760	mg/kg	0.0010		< 0.0010
Bromomethane		M	2760	mg/kg	0.020		< 0.020
Chloroethane		U	2760	mg/kg	0.0020		< 0.0020
Trichlorofluoromethane		M	2760	mg/kg	0.0010		< 0.0010
1,1-Dichloroethene		M	2760	mg/kg	0.0010		< 0.0010
Trans 1,2-Dichloroethene		M	2760	mg/kg	0.0010		< 0.0010
1,1-Dichloroethane		M	2760	mg/kg	0.0010		< 0.0010
cis 1,2-Dichloroethene		M	2760	mg/kg	0.0010		< 0.0010
Bromochloromethane		U	2760	mg/kg	0.0050		< 0.0050
Trichloromethane		M	2760	mg/kg	0.0010		< 0.0010
1,1,1-Trichloroethane		M	2760	mg/kg	0.0010		< 0.0010
Tetrachloromethane		M	2760	mg/kg	0.0010		< 0.0010
1,1-Dichloropropene		U	2760	mg/kg	0.0010		< 0.0010
Benzene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010
1,2-Dichloroethane		M	2760	mg/kg	0.0020		< 0.0020
Trichloroethene		N	2760	mg/kg	0.0010		< 0.0010
1,2-Dichloropropane		M	2760	mg/kg	0.0010		< 0.0010
Dibromomethane		M	2760	mg/kg	0.0010		< 0.0010
Bromodichloromethane		M	2760	mg/kg	0.0050		< 0.0050

Results - Soil

Project: 25/4047- LHR042 Thoney Lane DC1

Client: Concept Engineering Consultants		Chemtest Job No.:				25-06045	25-06045	25-06045	25-06045	25-06045
Quotation No.: Q25-36897		Chemtest Sample ID.:				1936405	1936407	1936408	1936409	1936410
		Client Sample ID.:				1	3	4	5	6
		Sample Location:				BH25-03	BH25-04	BH25-04	BH25-01	BH25-01
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				0.30	0.40	0.90	0.30	1.00
		Bottom Depth (m):				0.30	0.40	0.90	0.30	1.00
		Date Sampled:				18-Feb-2025	19-Feb-2025	19-Feb-2025	18-Feb-2025	18-Feb-2025
		Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
cis-1,3-Dichloropropene		N	2760	mg/kg	0.010				< 0.010	
Toluene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Trans-1,3-Dichloropropene		N	2760	mg/kg	0.010				< 0.010	
1,1,2-Trichloroethane		M	2760	mg/kg	0.010				< 0.010	
Tetrachloroethene		M	2760	mg/kg	0.0010				< 0.0010	
1,3-Dichloropropane		U	2760	mg/kg	0.0020				< 0.0020	
Dibromochloromethane		U	2760	mg/kg	0.010				< 0.010	
1,2-Dibromoethane		M	2760	mg/kg	0.0050				< 0.0050	
Chlorobenzene		M	2760	mg/kg	0.0010				< 0.0010	
1,1,1,2-Tetrachloroethane		M	2760	mg/kg	0.0020				< 0.0020	
Ethylbenzene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
m & p-Xylene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
o-Xylene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Styrene		M	2760	mg/kg	0.0010				< 0.0010	
Tribromomethane		U	2760	mg/kg	0.0010				< 0.0010	
Isopropylbenzene		M	2760	mg/kg	0.0010				< 0.0010	
Bromobenzene		M	2760	mg/kg	0.0010				< 0.0010	
1,2,3-Trichloropropane		N	2760	mg/kg	0.050				< 0.050	
N-Propylbenzene		U	2760	mg/kg	0.0010				< 0.0010	
2-Chlorotoluene		M	2760	mg/kg	0.0010				< 0.0010	
1,3,5-Trimethylbenzene		M	2760	mg/kg	0.0010				< 0.0010	
4-Chlorotoluene		U	2760	mg/kg	0.0010				< 0.0010	
Tert-Butylbenzene		U	2760	mg/kg	0.0010				< 0.0010	
1,2,4-Trimethylbenzene		M	2760	mg/kg	0.0010				< 0.0010	
Sec-Butylbenzene		U	2760	mg/kg	0.0010				< 0.0010	
1,3-Dichlorobenzene		M	2760	mg/kg	0.0010				< 0.0010	
4-Isopropyltoluene		N	2760	mg/kg	0.0010				< 0.0010	
1,4-Dichlorobenzene		M	2760	mg/kg	0.0010				< 0.0010	
N-Butylbenzene		U	2760	mg/kg	0.0010				< 0.0010	
1,2-Dichlorobenzene		M	2760	mg/kg	0.0010				< 0.0010	
1,2-Dibromo-3-Chloropropane		U	2760	mg/kg	0.050				< 0.050	
1,2,4-Trichlorobenzene		M	2760	mg/kg	0.0010				< 0.0010	
Hexachlorobutadiene		U	2760	mg/kg	0.0010				< 0.0010	
1,2,3-Trichlorobenzene		U	2760	mg/kg	0.0020				< 0.0020	
Methyl Tert-Butyl Ether		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
N-Nitrosodimethylamine		M	2790	mg/kg	0.50				< 0.50	

Results - Soil

Project: 25/4047- LHR042 Thoney Lane DC1

Client: Concept Engineering Consultants		Chemtest Job No.:				25-06045	25-06045	25-06045	25-06045	25-06045
Quotation No.: Q25-36897		Chemtest Sample ID.:				1936405	1936407	1936408	1936409	1936410
		Client Sample ID.:				1	3	4	5	6
		Sample Location:				BH25-03	BH25-04	BH25-04	BH25-01	BH25-01
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				0.30	0.40	0.90	0.30	1.00
		Bottom Depth (m):				0.30	0.40	0.90	0.30	1.00
		Date Sampled:				18-Feb-2025	19-Feb-2025	19-Feb-2025	18-Feb-2025	18-Feb-2025
		Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
Phenol		M	2790	mg/kg	0.50				< 0.50	
2-Chlorophenol		N	2790	mg/kg	0.50				< 0.50	
Bis-(2-Chloroethyl)Ether		M	2790	mg/kg	0.50				< 0.50	
1,3-Dichlorobenzene		M	2790	mg/kg	0.50				< 0.50	
1,4-Dichlorobenzene		N	2790	mg/kg	0.50				< 0.50	
1,2-Dichlorobenzene		M	2790	mg/kg	0.50				< 0.50	
2-Methylphenol		M	2790	mg/kg	0.50				< 0.50	
Bis(2-Chloroisopropyl)Ether		M	2790	mg/kg	0.50				< 0.50	
Hexachloroethane		N	2790	mg/kg	0.50				< 0.50	
N-Nitrosodi-n-propylamine		M	2790	mg/kg	0.50				< 0.50	
4-Methylphenol		M	2790	mg/kg	0.50				< 0.50	
Nitrobenzene		N	2790	mg/kg	0.50				< 0.50	
Isophorone		M	2790	mg/kg	0.50				< 0.50	
2-Nitrophenol		N	2790	mg/kg	0.50				< 0.50	
2,4-Dimethylphenol		N	2790	mg/kg	0.50				< 0.50	
Bis(2-Chloroethoxy)Methane		M	2790	mg/kg	0.50				< 0.50	
2,4-Dichlorophenol		N	2790	mg/kg	0.50				< 0.50	
1,2,4-Trichlorobenzene		M	2790	mg/kg	0.50				< 0.50	
Naphthalene		M	2790	mg/kg	0.50				< 0.50	
4-Chloroaniline		N	2790	mg/kg	0.50				< 0.50	
Hexachlorobutadiene		M	2790	mg/kg	0.50				< 0.50	
4-Chloro-3-Methylphenol		N	2790	mg/kg	0.50				< 0.50	
2-Methylnaphthalene		M	2790	mg/kg	0.50				< 0.50	
4-Nitrophenol		N	2790	mg/kg	0.50				< 0.50	
2,4,6-Trichlorophenol		N	2790	mg/kg	0.50				< 0.50	
2,4,5-Trichlorophenol		N	2790	mg/kg	0.50				< 0.50	
2-Chloronaphthalene		M	2790	mg/kg	0.50				< 0.50	
2-Nitroaniline		N	2790	mg/kg	0.50				< 0.50	
Acenaphthylene		M	2790	mg/kg	0.50				< 0.50	
Dimethylphthalate		M	2790	mg/kg	0.50				< 0.50	
2,6-Dinitrotoluene		N	2790	mg/kg	0.50				< 0.50	
Acenaphthene		M	2790	mg/kg	0.50				< 0.50	
3-Nitroaniline		N	2790	mg/kg	0.50				< 0.50	
Dibenzofuran		M	2790	mg/kg	0.50				< 0.50	
4-Chlorophenylphenylether		M	2790	mg/kg	0.50				< 0.50	
2,4-Dinitrotoluene		N	2790	mg/kg	0.50				< 0.50	

Results - Soil

Project: 25/4047- LHR042 Thoney Lane DC1

Client: Concept Engineering Consultants		Chemtest Job No.:				25-06045	25-06045	25-06045	25-06045	25-06045
Quotation No.: Q25-36897		Chemtest Sample ID.:				1936405	1936407	1936408	1936409	1936410
		Client Sample ID.:				1	3	4	5	6
		Sample Location:				BH25-03	BH25-04	BH25-04	BH25-01	BH25-01
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				0.30	0.40	0.90	0.30	1.00
		Bottom Depth (m):				0.30	0.40	0.90	0.30	1.00
		Date Sampled:				18-Feb-2025	19-Feb-2025	19-Feb-2025	18-Feb-2025	18-Feb-2025
		Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
Fluorene		M	2790	mg/kg	0.50				< 0.50	
Diethyl Phthalate		M	2790	mg/kg	0.50				< 0.50	
4-Nitroaniline		N	2790	mg/kg	0.50				< 0.50	
Azobenzene		M	2790	mg/kg	0.50				< 0.50	
4-Bromophenylphenyl Ether		M	2790	mg/kg	0.50				< 0.50	
Hexachlorobenzene		M	2790	mg/kg	0.50				< 0.50	
Phenanthrene		M	2790	mg/kg	0.50				< 0.50	
Anthracene		M	2790	mg/kg	0.50				< 0.50	
Carbazole		M	2790	mg/kg	0.50				< 0.50	
Di-N-Butyl Phthalate		N	2790	mg/kg	0.50				< 0.50	
Fluoranthene		M	2790	mg/kg	0.50				1.1	
Pyrene		M	2790	mg/kg	0.50				1.2	
Butylbenzyl Phthalate		N	2790	mg/kg	0.50				< 0.50	
Benzo[a]anthracene		M	2790	mg/kg	0.50				0.64	
Chrysene		M	2790	mg/kg	0.50				0.59	
Bis(2-Ethylhexyl)Phthalate		N	2790	mg/kg	0.50				< 0.50	
Di-N-Octyl Phthalate		N	2790	mg/kg	0.50				< 0.50	
Benzo[b]fluoranthene		M	2790	mg/kg	0.50				0.86	
Benzo[k]fluoranthene		M	2790	mg/kg	0.50				< 0.50	
Benzo[a]pyrene		M	2790	mg/kg	0.50				0.67	
Indeno(1,2,3-c,d)Pyrene		N	2790	mg/kg	0.50				< 0.50	
Dibenz(a,h)Anthracene		N	2790	mg/kg	0.50				< 0.50	
Benzo[g,h,i]perylene		M	2790	mg/kg	0.50				< 0.50	
Naphthalene		M	2800	mg/kg	0.10	0.23	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	0.11	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	0.33	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	0.49	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	5.5	0.91	1.5	0.35	2.4
Anthracene		M	2800	mg/kg	0.10	1.5	0.26	0.40	0.12	1.5
Fluoranthene		M	2800	mg/kg	0.10	6.9	1.3	3.5	0.59	4.1
Pyrene		M	2800	mg/kg	0.10	5.0	1.3	3.4	0.59	3.4
Benzo[a]anthracene		M	2800	mg/kg	0.10	2.5	0.55	1.6	< 0.10	2.8
Chrysene		M	2800	mg/kg	0.10	2.1	0.49	1.5	< 0.10	2.9
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	2.5	0.75	2.2	< 0.10	3.9
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.81	0.24	0.83	< 0.10	1.1
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.6	0.54	1.5	< 0.10	2.9

Results - Soil

Project: 25/4047- LHR042 Thoney Lane DC1

Client: Concept Engineering Consultants		Chemtest Job No.:				25-06045	25-06045	25-06045	25-06045	25-06045
Quotation No.: Q25-36897		Chemtest Sample ID.:				1936405	1936407	1936408	1936409	1936410
		Client Sample ID.:				1	3	4	5	6
		Sample Location:				BH25-03	BH25-04	BH25-04	BH25-01	BH25-01
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				0.30	0.40	0.90	0.30	1.00
		Bottom Depth (m):				0.30	0.40	0.90	0.30	1.00
		Date Sampled:				18-Feb-2025	19-Feb-2025	19-Feb-2025	18-Feb-2025	18-Feb-2025
		Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	1.3	0.39	1.0	< 0.10	2.1
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	0.27	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	1.1	0.42	1.1	< 0.10	1.9
Total Of 16 PAH's		N	2800	mg/kg	2.0	32	7.2	19	< 2.0	29
Total Phenols		M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
PFAS Suite Soils		SN		µg/kg	0.0	See Attached		See Attached	See Attached	

Results - Single Stage WAC

Project: 25/4047- LHR042 Thoney Lane DC1

Chemtest Job No: 25-06045 Chemtest Sample ID: 1936405 Sample Ref: Sample ID: 1 Sample Location: BH25-03 Top Depth(m): 0.30 Bottom Depth(m): 0.30 Sampling Date: 18-Feb-2025						Landfill Waste Acceptance Criteria Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	1.7	3	5	6
Loss On Ignition	2610		M	%	3.1	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	150	500	--	--
Total (Of 17) PAH's	2700		N	mg/kg	41	100	--	--
pH at 20C	2010		M		9.1	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.045	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.017	0.17	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0074	0.074	0.5	10	70
Copper	1455		U	0.0096	0.096	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.023	0.23	0.5	10	30
Nickel	1455		U	0.0018	0.018	0.4	10	40
Lead	1455		U	0.0013	0.013	0.5	10	50
Antimony	1455		U	0.0010	0.0097	0.06	0.7	5
Selenium	1455		U	0.0013	0.013	0.1	0.5	7
Zinc	1455		U	0.004	0.038	4	50	200
Chloride	1220		U	1.7	17	800	15000	25000
Fluoride	1220		U	1.3	13	10	150	500
Sulphate	1220		U	18	180	1000	20000	50000
Total Dissolved Solids	1020		N	87	870	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	4.5	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	16
WAC Sample Weight	3919

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25/4047- LHR042 Thoney Lane DC1

Chemtest Job No: 25-06045 Chemtest Sample ID: 1936408 Sample Ref: Sample ID: 4 Sample Location: BH25-04 Top Depth(m): 0.90 Bottom Depth(m): 0.90 Sampling Date: 19-Feb-2025						Landfill Waste Acceptance Criteria Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	1.2	3	5	6
Loss On Ignition	2610		M	%	3.3	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	< 10	500	--	--
Total (Of 17) PAH's	2700		N	mg/kg	28	100	--	--
pH at 20C	2010		M		9.0	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.031	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0093	0.094	0.5	2	25
Barium	1455		U	0.018	0.18	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0051	0.051	0.5	10	70
Copper	1455		U	0.0093	0.094	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0090	0.090	0.5	10	30
Nickel	1455		U	0.0040	0.040	0.4	10	40
Lead	1455		U	0.0072	0.071	0.5	10	50
Antimony	1455		U	0.0070	0.070	0.06	0.7	5
Selenium	1455		U	0.0029	0.029	0.1	0.5	7
Zinc	1455		U	0.023	0.23	4	50	200
Chloride	1220		U	1.4	14	800	15000	25000
Fluoride	1220		U	0.44	4.4	10	150	500
Sulphate	1220		U	13	130	1000	20000	50000
Total Dissolved Solids	1020		N	65	640	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	5.7	57	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	21
WAC Sample Weight	4155

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25/4047- LHR042 Thoney Lane DC1

Chemtest Job No: 25-06045						Landfill Waste Acceptance Criteria		
Chemtest Sample ID: 1936409						Inert Waste Landfill	Limits	
Sample Ref:							Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID: 5								
Sample Location: BH25-01								
Top Depth(m): 0.30								
Bottom Depth(m): 0.30								
Sampling Date: 18-Feb-2025								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	4.4	3	5	6
Loss On Ignition	2610		M	%	13	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	380	500	--	--
Total (Of 17) PAH's	2700		N	mg/kg	7.1	100	--	--
pH at 20C	2010		M		11.5	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.20	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0020	0.020	0.5	2	25
Barium	1455		U	0.016	0.16	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0062	0.062	0.5	10	70
Copper	1455		U	0.028	0.28	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0020	0.020	0.5	10	30
Nickel	1455		U	0.0033	0.032	0.4	10	40
Lead	1455		U	0.0016	0.016	0.5	10	50
Antimony	1455		U	0.0017	0.017	0.06	0.7	5
Selenium	1455		U	0.0007	0.0065	0.1	0.5	7
Zinc	1455		U	0.007	0.068	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.20	2.0	10	150	500
Sulphate	1220		U	28	280	1000	20000	50000
Total Dissolved Solids	1020		N	200	2000	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	13	130	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	18
WAC Sample Weight	4169

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25/4047- LHR042 Thoney Lane DC1

Chemtest Job No: 25-06045						Landfill Waste Acceptance Criteria		
Chemtest Sample ID: 1936410						Inert Waste Landfill	Limits	
Sample Ref:							Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID: 6								
Sample Location: BH25-01								
Top Depth(m): 1.00								
Bottom Depth(m): 1.00								
Sampling Date: 18-Feb-2025								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	0.60	3	5	6
Loss On Ignition	2610		M	%	2.0	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	130	500	--	--
Total (Of 17) PAH's	2700		N	mg/kg	42	100	--	--
pH at 20C	2010		M		9.6	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.011	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0022	0.023	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0026	0.026	0.5	10	70
Copper	1455		U	0.0021	0.021	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0019	0.019	0.5	10	30
Nickel	1455		U	0.0021	0.021	0.4	10	40
Lead	1455		U	0.0006	0.0060	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.005	0.053	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.22	2.2	10	150	500
Sulphate	1220		U	4.2	42	1000	20000	50000
Total Dissolved Solids	1020		N	44	440	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	4.7	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	9.8
WAC Sample Weight	3499

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity at 25°C and Total Dissolved Solids (TDS) in Waters	Conductivity 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.	RE PW PL LE DW GW
1455	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).	RE PW PL SW DW GW
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation	PL SW GW
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.	
2010	pH Value of Soils	pH at 20°C	pH Meter	
2015	Acid Neutralisation Capacity	Acid Reserve	Titration	
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES	
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry	
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.	
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.	
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.	
2610	Loss on Ignition	loss on ignition (LOI)	Determination of the proportion by mass that is lost from a soil by ignition at 550°C.	
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.	
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenzo[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)	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7, >C7–C8, >C8–C10 Aromatics: >C5–C7, >C7–C8, >C8–C10	Water extraction / Headspace GCxGC FID detection	
2790	Semi-Volatile Organic Compounds (SVOCs) in Soils by GC-MS	Semi-volatile organic compounds(cf. USEPA Method 8270)	Acetone/Hexane extraction / GC-MS	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenzo[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS	
2815	Polychlorinated Biphenyls (PCB) ICES7 Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS. Reported PCB 101 results may contain contributions from PCB 90 due to inseparable chromatography.	
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and Trimethylphenols Note: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.	
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	Compliance Test for Leaching of Granular Waste Material and Sludge	
650	Characterisation of Waste (Leaching WAC)	Waste material including soil, sludges and granular waste	Compliance Test for Leaching of Granular Waste Material and Sludge	

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"
SOP	Standard operating procedure
LOD	Limit of detection

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

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 EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ 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.

NEW_ASB	Eurofins Chemtest Limited, 11 Depot Road, Newmarket, CB8 0AL
DURHAM	Eurofins Chemtest Limited, Unit A North Wing, Prospect Business Park, Crookhall Lane, Consett, Co Durham, DH8 7PW

Sample Deviation Codes

As a result of any of the below deviations applying, the test results may be unreliable

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 - The required amount of sample for analysis was not received

H - Appropriate cooling measures were not taken for sample transportation

Sample Retention and Disposal

All soil samples will be retained for a period of 30 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.

Report Information

Water Sample Category Key for Accreditation

DW - Drinking Water
GW - Ground Water
LE - Land Leachate
NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

Asbestos Tests LOD = LOQ

Limit of Detection = Limit of Quantification for asbestos results only

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



Final Report

Report No.: 25-06361-1

Initial Date of Issue: 29-Apr-2025

Re-Issue Details:

Client Concept Engineering Consultants

Client Address: 47 - 49 Brunel Road
London
W3 7XR

Contact(s): Gabriela Mandache
Kasia Mazerant
Lab

Project 25/4047 - LHR042 Thorney Lane DC1

Quotation No.: Q25-36897 **Date Received:** 24-Feb-2025

Order No.: 104869 (CL6718) **Date Instructed:** 26-Feb-2025

No. of Samples: 2

Turnaround (Wkdays): 5 **Results Due:** 04-Mar-2025

Date Approved: 29-Apr-2025 **Subcon Results Due:** 19-Mar-2025

Approved By:

Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: 25/4047 - LHR042 Thorney Lane DC1

Client: Concept Engineering Consultants		Chemtest Job No.:				25-06361	25-06361
Quotation No.: Q25-36897		Chemtest Sample ID.:				1937620	1937621
		Sample Location:				BH25-02	BH25-02
		Sample Type:				SOIL	SOIL
		Top Depth (m):				0.40	0.90
		Bottom Depth (m):				0.40	0.90
		Date Sampled:				20-Feb-2025	20-Feb-2025
		Asbestos Lab:				NEW-ASB	NEW-ASB
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
ACM Type		N	2192		N/A	-	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected
Moisture		N	2030	%	0.020	11	9.9
Soil Colour		N	2040		N/A	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones
Soil Texture		N	2040		N/A	Sand	Clay
pH at 20C		M	2010		4.0	10.2	9.7
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	1.5	0.75
Cyanide (Total)		M	2300	mg/kg	0.50	< 0.50	< 0.50
Arsenic		M	2455	mg/kg	0.5	7.7	11
Beryllium		U	2455	mg/kg	0.5	0.6	0.7
Cadmium		M	2455	mg/kg	0.10	0.26	0.14
Chromium		M	2455	mg/kg	0.5	20	21
Antimony		N	2455	mg/kg	2.0	< 2.0	< 2.0
Copper		M	2455	mg/kg	0.50	20	18
Mercury		M	2455	mg/kg	0.05	0.07	0.14
Nickel		M	2455	mg/kg	0.50	15	15
Lead		M	2455	mg/kg	0.50	51	250
Selenium		M	2455	mg/kg	0.25	0.67	0.66
Vanadium		U	2455	mg/kg	0.5	28	28
Zinc		M	2455	mg/kg	0.50	84	58
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	3.4
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	4.9	130
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	25	520
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	120	250
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	16	31
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	150	900
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	160	930
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05

Results - Soil

Project: 25/4047 - LHR042 Thorney Lane DC1

Client: Concept Engineering Consultants		Chemtest Job No.:				25-06361	25-06361
Quotation No.: Q25-36897		Chemtest Sample ID.:				1937620	1937621
		Sample Location:				BH25-02	BH25-02
		Sample Type:				SOIL	SOIL
		Top Depth (m):				0.40	0.90
		Bottom Depth (m):				0.40	0.90
		Date Sampled:				20-Feb-2025	20-Feb-2025
		Asbestos Lab:				NEW-ASB	NEW-ASB
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	1.3	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	32
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	11	35
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	35	24
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	12	12
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	48	91
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	60	100
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	200	990
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	220	1000
Total Organic Carbon		M	2625	%	0.20	2.1	0.89
Benzene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010
Toluene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010
Ethylbenzene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010
m & p-Xylene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010
o-Xylene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010
Methyl Tert-Butyl Ether		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010
Naphthalene		M	2800	mg/kg	0.10	0.14	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	0.19	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	0.32	< 0.10
Fluorene		M	2800	mg/kg	0.10	0.35	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	3.7	0.97
Anthracene		M	2800	mg/kg	0.10	1.1	0.29
Fluoranthene		M	2800	mg/kg	0.10	5.8	1.7
Pyrene		M	2800	mg/kg	0.10	4.8	1.7
Benzo[a]anthracene		M	2800	mg/kg	0.10	2.6	0.83
Chrysene		M	2800	mg/kg	0.10	2.7	0.77
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	3.2	1.3
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	1.1	0.45
Benzo[a]pyrene		M	2800	mg/kg	0.10	2.5	0.99
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	1.5	0.97
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.32	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	1.7	1.2
Total Of 16 PAH's		N	2800	mg/kg	2.0	32	11

Results - Soil

Project: 25/4047 - LHR042 Thorney Lane DC1

Client: Concept Engineering Consultants		Chemtest Job No.:				25-06361	25-06361
Quotation No.: Q25-36897		Chemtest Sample ID.:				1937620	1937621
		Sample Location:				BH25-02	BH25-02
		Sample Type:				SOIL	SOIL
		Top Depth (m):				0.40	0.90
		Bottom Depth (m):				0.40	0.90
		Date Sampled:				20-Feb-2025	20-Feb-2025
		Asbestos Lab:				NEW-ASB	NEW-ASB
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
Total Phenols		M	2920	mg/kg	0.10	< 0.10	< 0.10
PFAS Suite Soils		SN		µg/kg	0.0		See Attached

Results - Single Stage WAC

Project: 25/4047 - LHR042 Thorney Lane DC1

Project: 2016-17 Enviro-Phoney Lake DC						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-06361 Chemtest Sample ID: 1937620 Sample Ref: Sample ID: Sample Location: BH25-02 Top Depth(m): 0.40 Bottom Depth(m): 0.40 Sampling Date: 20-Feb-2025						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	2.1	3	5	6
Loss On Ignition	2610		M	%	2.8	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	260	500	--	--
Total (Of 17) PAH's	2700		N	mg/kg	40	100	--	--
pH at 20C	2010		M		10.2	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.082	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0020	0.020	0.5	2	25
Barium	1455		U	0.011	0.11	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0019	0.019	0.5	10	70
Copper	1455		U	0.0085	0.085	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0026	0.026	0.5	10	30
Nickel	1455		U	0.0011	0.011	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	0.0020	0.020	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.012	0.12	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.19	1.9	10	150	500
Sulphate	1220		U	31	310	1000	20000	50000
Total Dissolved Solids	1020		N	150	1500	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	4.8	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	20
WAC Sample Weight	[E] 2330

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request. The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

Sample:	Sample Ref:	Sample ID:	Sample Location:	Sampled Date:	Deviation Code(s):	Containers Received:
1937620			BH25-02	#####	E	Amber Glass 250ml
1937620			BH25-02	#####	E	Amber Glass 60ml
1937620			BH25-02	#####	E	Miscellaneous
1937620			BH25-02	#####	E	Plastic Tub 1000g

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity at 25°C and Total Dissolved Solids (TDS) in Waters	Conductivity 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.	RE PW PL LE DW GW
1455	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).	RE PW PL SW DW GW
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation	PL SW GW
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.	
2010	pH Value of Soils	pH at 20°C	pH Meter	
2015	Acid Neutralisation Capacity	Acid Reserve	Titration	
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES	
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry	
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.	
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.	
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazine.	
2610	Loss on Ignition	loss on ignition (LOI)	Determination of the proportion by mass that is lost from a soil by ignition at 550°C.	
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.	
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenzo[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)	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8-C10 Aromatics: >C5–C7,>C7-C8,>C8–C10	Water extraction / Headspace GCxGC FID detection	

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	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-MS	
2815	Polychlorinated Biphenyls (PCB) ICES7Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS. Reported PCB 101 results may contain contributions from PCB 90 due to inseparable chromatography.	
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.	
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge	
650	Characterisation of Waste (Leaching WAC)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge	

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"
SOP	Standard operating procedure
LOD	Limit of detection

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

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 EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ 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.

NEW_ASB	Eurofins Chemtest Limited, 11 Depot Road, Newmarket, CB8 0AL
DURHAM	Eurofins Chemtest Limited, Unit A North Wing, Prospect Business Park, Crookhall Lane, Consett, Co Durham, DH8 7PW

Sample Deviation Codes

As a result of any of the below deviations applying, the test results may be unreliable

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 - The required amount of sample for analysis was not received

H - Appropriate cooling measures were not taken for sample transportation

Sample Retention and Disposal

All soil samples will be retained for a period of 30 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.

Report Information

Water Sample Category Key for Accreditation

DW - Drinking Water
GW - Ground Water
LE - Land Leachate
NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

Asbestos Tests LOD = LOQ

Limit of Detection = Limit of Quantification for asbestos results only

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

C E R T I F I C A T E

Project code : 1886001
Your Project Description : 25-06361
Client : Eurofins Chemtest Ltd

Your Sample identification
8684247 = 1936621 BH25-02

Client sampling date : 20/02/2025
Date of receipt : 04/03/2025
Startdate : 10/03/2025
Reference number : 8684247
Your Matrix : Soil

Sample preparation

S AS3000 (steekmonster)		done
cryogenic grinding		grinded
S weight of artifact	g	n.a.
S type of artifact		n.v.t.
S sample preparation		done

General analysis - physics

S dry weight	%	86,4

C E R T I F I C A T E

Project code : 1886001
Your Project Description : 25-06361
Client : Eurofins Chemtest Ltd

Your Sample identification
8684247 = 1936621 BH25-02

Client sampling date : 20/02/2025
Date of receipt : 04/03/2025
Startdate : 10/03/2025
Reference number : 8684247
Your Matrix : Soil

Organic compounds - per- and polyfluoroalkylsubstances (PFAS) HPLC-MS/MS
Perfluorinated carboxylic acids:

S PFBA	µg/kg dw	< 0,1
S PFPeA	µg/kg dw	< 0,1
S PFHxA	µg/kg dw	< 0,1
S PFHpA	µg/kg dw	< 0,1
S PFOA linear	µg/kg dw	< 0,1
S PFOA branched	µg/kg dw	< 0,1
S PFNA	µg/kg dw	< 0,1
S PFDA	µg/kg dw	< 0,1
S PFUnDA	µg/kg dw	< 0,1
S PFDoDA	µg/kg dw	< 0,1
S PFTTrDA	µg/kg dw	< 0,1
S PFTeDA	µg/kg dw	< 0,1
S PFHxDA	µg/kg dw	< 0,1
S PFODA	µg/kg dw	< 0,1

Perfluorinated sulfonic acids:

S PFBS	µg/kg dw	< 0,1
S PFPeS	µg/kg dw	< 0,1
S PFHxS	µg/kg dw	< 0,1
S PFHpS	µg/kg dw	< 0,1
S PFOS linear	µg/kg dw	< 0,1
S PFOS branched	µg/kg dw	< 0,1
S PFDS	µg/kg dw	< 0,1

Perfluorinated alkyl substances - precursors:

S 4:2 FTS	µg/kg dw	< 0,1
S 6:2 FTS	µg/kg dw	< 0,1
S 8:2 FTS	µg/kg dw	< 0,1
S 10:2 FTS	µg/kg dw	< 0,1
S PFOSA	µg/kg dw	< 0,1

Perfluorinated alkyl substances - remainder:

HPFHpA	µg/kg dw	< 0,4
4H-PFUnDA	µg/kg dw	< 0,4
8:2 FTUCA	µg/kg dw	< 0,4
Q 9CI-PF3ONS (F53-B)	µg/kg dw	< 0,1
Q ADONA	µg/kg dw	< 0,1
Q EtFOSA	µg/kg dw	< 0,1
S EtFOSAA	µg/kg dw	< 0,1
MeFBSA	µg/kg dw	< 0,4
S MeFOSAA	µg/kg dw	< 0,1
Q P37DMOA	µg/kg dw	< 1
Q PFBSA	µg/kg dw	< 0,1
S MeFOSA	µg/kg dw	< 0,1
Q MeFBSAA	µg/kg dw	< 0,1
S 8:2 DiPAP	µg/kg dw	< 0,1
S HFPO-DA (GenX)	µg/kg dw	< 0,1

- The frontpage and, where applicable, appendices of this document are integral parts of this certificate.

- Analyses marked with a 'Q' are part of the RvA accreditation certificate L086.

- Analyses marked with a 'S' are part of the AS 3000 accreditation certificate.

Verificationcode: WNEQ-HRED-ZVJB-CVRP

Ref.: 1886001_certificaat_v1

CERTIFICATE

Project code : 1886001
Your Project Description : 25-06361
Client : Eurofins Chemtest Ltd

Your Sample identification
8684247 = 1936621 BH25-02

Client sampling date : 20/02/2025
Date of receipt : 04/03/2025
Startdate : 10/03/2025
Reference number : 8684247
Your Matrix : Soil

S	som PFOA	µg/kg dw	0,1
S	sum PFOS	µg/kg dw	0,1

C E R T I F I C A T E

Project code : 1886001
Your Project Description : 25-06361
Client : Eurofins Chemtest Ltd

Notes related to analyses

General comments

The following information has been provided by the client if applicable:

Project description, Sample identification, Client sampling date, Client Matrix, Sample depth, Pot number (Barcode), Field data, Field observations and sampling data. The client sampling date can affect the validity of the results.

Quantification of branched PFOS/POA is based on DIN 38414-14.

Summation of concentrations for group parameters

Summation is calculated according to AS3000 protocol, paragraph 2.5.2 and appendix 3.

Project Note(s): - Quantification of HFPO-DA (GenX) is based on 2,3,3,3-tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-propanoic acid (CAS nr. 13252-13-6). Another name of GenX is perfluoro-2-propoxyrpropanoic acid (PFPrOPrA).

C E R T I F I C A T E

Project code : 1886001
Your Project Description : 25-06361
Client : Eurofins Chemtest Ltd

Appendix Index PFAS

PFAS component	Full name PFAS component
10:2 FTS	10:2 FTS (10:2 Fluorotelomer sulfonic acid)
4:2 FTS	4:2 FTS (4:2 Fluorotelomer sulfonic acid)
4H-PFUnDA	4H-PFUnDA (2H,2H,3H,3H-Perfluoroundecanoic acid)
6:2 FTS	6:2 FTS (6:2 Fluorotelomer sulfonic acid)
8:2 DiPAP	8:2 DiPAP (8:2 Fluorotelomer phosphate diester)
8:2 FTS	8:2 FTS (8:2 Fluorotelomer sulfonic acid)
8:2 FTUCA	8:2 FTUCA (8:2 Fluorotelomer unsaturated carboxylic acid)
9Cl-PF3ONS (F53-B)	9Cl-PF3ONS (F53-B) (9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid)
ADONA	ADONA (ammonium 4,8-dioxa-3H-perfluorononanoate)
EtFOSA	EtFOSA (N-ethyl perfluorooctanesulfonamide)
EtFOSAA	EtFOSAA (perfluorooctanesulfonylamide(N-ethyl)acetate)
HPFHpA	HPFHpA (7H-perfluoroheptanoic acid)
MeFBSA	MeFBSA (N-methylperfluorobutanesulfonylamide)
MeFBSAA	MeFBSAA (perfluorobutanesulfonylamide(N-methyl)acetate)
MeFOSA	MeFOSA (N-methyl perfluorooctanesulfonamide)
MeFOSAA	MeFOSAA (N-methyl perfluorooctanesulfonamidoacetic acid)
P37DMOA	P37DMOA (perfluoro-3,7-dimethyloctanoic acid)
PFBA	PFBA (perfluorobutanoic acid)
PFBS	PFBS (perfluorobutanesulfonic acid)
PFBSA	PFBSA (perfluorobutanesulfonamide)
PFDA	PFDA (perfluorodecanoic acid)
PFDoDA	PFDoDA (perfluorododecanoic acid)
PFDS	PFDS (perfluorodecanesulfonic acid)
PFHpA	PFHpA (perfluoroheptanoic acid)
PFHpS	PFHpS (perfluoroheptanesulfonic acid)
PFHxA	PFHxA (perfluorohexanoic acid)
PFHxDA	PFHxDA (perfluorohexadecanoic acid)
PFHxS	PFHxS (perfluorohexanesulfonic acid)
PFNA	PFNA (perfluorononanoic acid)
PFOA branched	PFOA branched (perfluorooctanoic acid)
PFOA linear	PFOA linear (perfluorooctanoic acid)
PFODA	PFODA (perfluorooctadecanoic acid)
PFOS branched	PFOS branched (perfluorooctanesulfonic acid)
PFOS linear	PFOS linear (perfluorooctanesulfonic acid)
PFOSA	PFOSA (perfluorooctanesulfonamide)
PFPeA	PFPeA (perfluoropentanoic acid)
PFPeS	PFPeS (perfluoropentanesulfonic acid)
PFTeDA	PFTeDA (perfluorotetradecanoic acid)
PFTTrDA	PFTTrDA (perfluorotridecanoic acid)
PFUnDA	PFUnDA (perfluoroundecanoic acid)

C E R T I F I C A T E

Project code : 1886001
Your Project Description : 25-06361
Client : Eurofins Chemtest Ltd

Methodology Soil (AS3000)

AS3000

In dit analysecertificaat zijn de met 'S' gemerkte analyses uitgevoerd volgens de analysemethoden beschreven in het "Accreditatieschema Laboratoriumanalyses voor grond-, waterbodemonderzoek en grondwateronderzoek (AS SIKB 3000)". Het laboratoriumonderzoek is uitgevoerd volgens de onderstaande analysemethoden. Deze analyses zijn vastgelegd in het geldende accreditatie-certificaat met bijbehorende verrichtingenlijst L086 van Eurofins Omegam BV.

Samplemate : Conform AS3000 en NEN-EN 16179
Dry weight : Conform AS3010 prestatieblad 2
PFAS : Conform AS3080 prestatieblad 1
GenX : Conform AS3080 prestatieblad 2

In this certificate of analysis, the analysis marked with 'Q' have been carried out according to the analysis methods below. The analysis are registered in the current accreditation certificate with associated annex to declaration of accreditation (scope of accreditation) L086 of Eurofins Omegam BV.

PFAS : In house method



Final Report

Report No.: 25-06385-1

Initial Date of Issue: 20-Mar-2025

Re-Issue Details:

Client Concept Engineering Consultants

Client Address: 47 - 49 Brunel Road
London
W3 7XR

Contact(s): Gabriela Mandache
Kasia Mazerant
Lab

Project 25/4047 - LHR042 Thorney Lane DC1

Quotation No.: Q25-36897 **Date Received:** 24-Feb-2025

Order No.: 104869 (CL6718) **Date Instructed:** 26-Feb-2025

No. of Samples: 14

Turnaround (Wkdays): 5 **Results Due:** 04-Mar-2025

Date Approved: 20-Mar-2025 **Subcon Results Due:** 19-Mar-2025

Approved By:

Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: 25/4047 - LHR042 Thorney Lane DC1

Client: Concept Engineering Consultants		Chemtest Job No.:				25-06385	25-06385	25-06385	25-06385	25-06385	25-06385	25-06385
Quotation No.: Q25-36897		Chemtest Sample ID.:				1937726	1937729	1937731	1937732	1937733	1937735	1937736
Order No.: 104869 (CL6718)		Client Sample Ref.:				10	13	15	16	17	19	20
		Sample Location:				BH25-04	BH25-03	DS25-11	DS25-11	BH25-05	BH25-05	BH25-05
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				2.10	3.70	0.30	1.00	0.30	2.00	3.00
		Bottom Depth (m):				2.10	3.70	0.30	1.00	0.30	2.00	3.00
		Date Sampled:				20-Feb-2025	20-Feb-2025	20-Feb-2025	20-Feb-2025	20-Feb-2025	20-Feb-2025	20-Feb-2025
		Asbestos Lab:						NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
ACM Type		N	2192		N/A			-	-	-	-	
Asbestos Identification		U	2192		N/A			No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	
Moisture		N	2030	%	0.020	8.2	20	9.5	6.3	8.5	16	6.6
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture		N	2040		N/A	Other	Clay	Loam	Other	Sand	Clay	Other
pH at 20C		M	2010		4.0		7.8	8.4	8.6	9.6	9.2	9.1
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40		< 0.40	0.76	1.7	1.4	1.4	< 0.40
Cyanide (Total)		M	2300	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Ammoniacal Nitrogen		M	2425	mg/kg	0.50							47
Arsenic		M	2455	mg/kg	0.5		15	12	14	8.5	11	9.3
Beryllium		U	2455	mg/kg	0.5		1.0	0.7	0.8	0.9	0.9	< 0.5
Cadmium		M	2455	mg/kg	0.10		0.60	0.24	0.15	0.21	0.12	< 0.10
Chromium		M	2455	mg/kg	0.5		35	22	20	22	22	15
Antimony		N	2455	mg/kg	2.0		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Copper		M	2455	mg/kg	0.50		29	38	26	27	28	5.3
Mercury		M	2455	mg/kg	0.05		< 0.05	0.11	0.07	0.27	0.39	< 0.05
Nickel		M	2455	mg/kg	0.50		49	19	17	14	18	13
Lead		M	2455	mg/kg	0.50		17	87	70	120	87	4.3
Selenium		M	2455	mg/kg	0.25		3.8	0.73	0.62	0.72	0.66	0.39
Vanadium		U	2455	mg/kg	0.5		54	33	28	32	34	13
Zinc		M	2455	mg/kg	0.50		83	100	69	110	69	16
Chromium (Hexavalent)		N	2490	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	< 2.0	< 2.0	< 2.0	2.4	< 2.0	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	< 1.0	< 1.0	18	10	45	< 1.0	15
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	< 2.0	53	32	240	< 2.0	67
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	5.5	21	140	70	160	4.4	190
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	15	70	30	28	< 10	42
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	5.5	21	210	110	450	< 5.0	270

Results - Soil

Project: 25/4047 - LHR042 Thorney Lane DC1

Client: Concept Engineering Consultants		Chemtest Job No.:				25-06385	25-06385	25-06385	25-06385	25-06385	25-06385	25-06385
Quotation No.: Q25-36897		Chemtest Sample ID.:				1937726	1937729	1937731	1937732	1937733	1937735	1937736
Order No.: 104869 (CL6718)		Client Sample Ref.:				10	13	15	16	17	19	20
		Sample Location:				BH25-04	BH25-03	DS25-11	DS25-11	BH25-05	BH25-05	BH25-05
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				2.10	3.70	0.30	1.00	0.30	2.00	3.00
		Bottom Depth (m):				2.10	3.70	0.30	1.00	0.30	2.00	3.00
		Date Sampled:				20-Feb-2025	20-Feb-2025	20-Feb-2025	20-Feb-2025	20-Feb-2025	20-Feb-2025	20-Feb-2025
		Asbestos Lab:						NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	36	280	140	470	< 10	320
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	3.9	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	25	< 1.0	12	< 1.0	2.4
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	< 2.0	< 2.0	140	27	74	< 2.0	32
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	< 2.0	3.3	220	51	29	< 2.0	36
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	6.3	6.2	48	24	9.6	1.8	34
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	< 5.0	< 5.0	390	77	120	< 5.0	70
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	< 10	< 10	440	100	130	< 10	100
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	< 10	25	600	190	560	< 10	340
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	< 10	47	710	240	600	< 10	420
Total Organic Carbon		M	2625	%	0.20		0.21	1.2	0.93	1.2	1.5	< 0.20
Dichlorodifluoromethane		U	2760	mg/kg	0.0010				< 0.0010		< 0.0010	
Chloromethane		M	2760	mg/kg	0.0010				< 0.0010		< 0.0010	
Vinyl Chloride		M	2760	mg/kg	0.0010				< 0.0010		< 0.0010	
Bromomethane		M	2760	mg/kg	0.020				< 0.020		< 0.020	
Chloroethane		U	2760	mg/kg	0.0020				< 0.0020		< 0.0020	
Trichlorofluoromethane		M	2760	mg/kg	0.0010				< 0.0010		< 0.0010	
1,1-Dichloroethene		M	2760	mg/kg	0.0010				< 0.0010		< 0.0010	
Trans 1,2-Dichloroethene		M	2760	mg/kg	0.0010				< 0.0010		< 0.0010	
1,1-Dichloroethane		M	2760	mg/kg	0.0010				< 0.0010		< 0.0010	
cis 1,2-Dichloroethene		M	2760	mg/kg	0.0010				< 0.0010		< 0.0010	
Bromochloromethane		U	2760	mg/kg	0.0050				< 0.0050		< 0.0050	
Trichloromethane		M	2760	mg/kg	0.0010				< 0.0010		< 0.0010	
1,1,1-Trichloroethane		M	2760	mg/kg	0.0010				< 0.0010		< 0.0010	
Tetrachloromethane		M	2760	mg/kg	0.0010				< 0.0010		< 0.0010	
1,1-Dichloropropene		U	2760	mg/kg	0.0010				< 0.0010		< 0.0010	
Benzene		M	2760	mg/kg	0.0010		< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
1,2-Dichloroethane		M	2760	mg/kg	0.0020				< 0.0020		< 0.0020	
Trichloroethene		N	2760	mg/kg	0.0010				< 0.0010		< 0.0010	
1,2-Dichloropropane		M	2760	mg/kg	0.0010				< 0.0010		< 0.0010	
Dibromomethane		M	2760	mg/kg	0.0010				< 0.0010		< 0.0010	

Results - Soil

Project: 25/4047 - LHR042 Thorney Lane DC1

Client: Concept Engineering Consultants		Chemtest Job No.:				25-06385	25-06385	25-06385	25-06385	25-06385	25-06385	25-06385
Quotation No.: Q25-36897		Chemtest Sample ID.:				1937726	1937729	1937731	1937732	1937733	1937735	1937736
Order No.: 104869 (CL6718)		Client Sample Ref.:				10	13	15	16	17	19	20
		Sample Location:				BH25-04	BH25-03	DS25-11	DS25-11	BH25-05	BH25-05	BH25-05
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				2.10	3.70	0.30	1.00	0.30	2.00	3.00
		Bottom Depth (m):				2.10	3.70	0.30	1.00	0.30	2.00	3.00
		Date Sampled:				20-Feb-2025	20-Feb-2025	20-Feb-2025	20-Feb-2025	20-Feb-2025	20-Feb-2025	20-Feb-2025
		Asbestos Lab:						NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Bromodichloromethane		M	2760	mg/kg	0.0050				< 0.0050		< 0.0050	
cis-1,3-Dichloropropene		N	2760	mg/kg	0.010				< 0.010		< 0.010	
Toluene		M	2760	mg/kg	0.0010		< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Trans-1,3-Dichloropropene		N	2760	mg/kg	0.010				< 0.010		< 0.010	
1,1,2-Trichloroethane		M	2760	mg/kg	0.010				< 0.010		< 0.010	
Tetrachloroethene		M	2760	mg/kg	0.0010				< 0.0010		< 0.0010	
1,3-Dichloropropane		U	2760	mg/kg	0.0020				< 0.0020		< 0.0020	
Dibromochloromethane		U	2760	mg/kg	0.010				< 0.010		< 0.010	
1,2-Dibromoethane		M	2760	mg/kg	0.0050				< 0.0050		< 0.0050	
Chlorobenzene		M	2760	mg/kg	0.0010				< 0.0010		< 0.0010	
1,1,1,2-Tetrachloroethane		M	2760	mg/kg	0.0020				< 0.0020		< 0.0020	
Ethylbenzene		M	2760	mg/kg	0.0010		< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
m & p-Xylene		M	2760	mg/kg	0.0010		< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
o-Xylene		M	2760	mg/kg	0.0010		< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Styrene		M	2760	mg/kg	0.0010				< 0.0010		< 0.0010	
Tribromomethane		U	2760	mg/kg	0.0010				< 0.0010		< 0.0010	
Isopropylbenzene		M	2760	mg/kg	0.0010				< 0.0010		< 0.0010	
Bromobenzene		M	2760	mg/kg	0.0010				< 0.0010		< 0.0010	
1,2,3-Trichloropropane		N	2760	mg/kg	0.050				< 0.050		< 0.050	
N-Propylbenzene		U	2760	mg/kg	0.0010				< 0.0010		< 0.0010	
2-Chlorotoluene		M	2760	mg/kg	0.0010				< 0.0010		< 0.0010	
1,3,5-Trimethylbenzene		M	2760	mg/kg	0.0010				< 0.0010		< 0.0010	
4-Chlorotoluene		U	2760	mg/kg	0.0010				< 0.0010		< 0.0010	
Tert-Butylbenzene		U	2760	mg/kg	0.0010				< 0.0010		< 0.0010	
1,2,4-Trimethylbenzene		M	2760	mg/kg	0.0010				< 0.0010		< 0.0010	
Sec-Butylbenzene		U	2760	mg/kg	0.0010				< 0.0010		< 0.0010	
1,3-Dichlorobenzene		M	2760	mg/kg	0.0010				< 0.0010		< 0.0010	
4-Isopropyltoluene		N	2760	mg/kg	0.0010				< 0.0010		< 0.0010	
1,4-Dichlorobenzene		M	2760	mg/kg	0.0010				0.0011		< 0.0010	
N-Butylbenzene		U	2760	mg/kg	0.0010				< 0.0010		< 0.0010	
1,2-Dichlorobenzene		M	2760	mg/kg	0.0010				< 0.0010		0.0027	
1,2-Dibromo-3-Chloropropane		U	2760	mg/kg	0.050				< 0.050		< 0.050	
1,2,4-Trichlorobenzene		M	2760	mg/kg	0.0010				< 0.0010		< 0.0010	
Hexachlorobutadiene		U	2760	mg/kg	0.0010				< 0.0010		< 0.0010	
1,2,3-Trichlorobenzene		U	2760	mg/kg	0.0020				< 0.0020		< 0.0020	
Methyl Tert-Butyl Ether		M	2760	mg/kg	0.0010		< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010

Results - Soil

Project: 25/4047 - LHR042 Thorney Lane DC1

Client: Concept Engineering Consultants		Chemtest Job No.:				25-06385	25-06385	25-06385	25-06385	25-06385	25-06385	25-06385
Quotation No.: Q25-36897		Chemtest Sample ID.:				1937726	1937729	1937731	1937732	1937733	1937735	1937736
Order No.: 104869 (CL6718)		Client Sample Ref.:				10	13	15	16	17	19	20
		Sample Location:				BH25-04	BH25-03	DS25-11	DS25-11	BH25-05	BH25-05	BH25-05
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				2.10	3.70	0.30	1.00	0.30	2.00	3.00
		Bottom Depth (m):				2.10	3.70	0.30	1.00	0.30	2.00	3.00
		Date Sampled:				20-Feb-2025	20-Feb-2025	20-Feb-2025	20-Feb-2025	20-Feb-2025	20-Feb-2025	20-Feb-2025
		Asbestos Lab:						NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
N-Nitrosodimethylamine		M	2790	mg/kg	0.50				< 0.50		< 0.50	
Phenol		M	2790	mg/kg	0.50				< 0.50		< 0.50	
2-Chlorophenol		N	2790	mg/kg	0.50				< 0.50		< 0.50	
Bis-(2-Chloroethyl)Ether		M	2790	mg/kg	0.50				< 0.50		< 0.50	
1,3-Dichlorobenzene		M	2790	mg/kg	0.50				< 0.50		< 0.50	
1,4-Dichlorobenzene		N	2790	mg/kg	0.50				< 0.50		< 0.50	
1,2-Dichlorobenzene		M	2790	mg/kg	0.50				< 0.50		< 0.50	
2-Methylphenol		M	2790	mg/kg	0.50				< 0.50		< 0.50	
Bis(2-Chloroisopropyl)Ether		M	2790	mg/kg	0.50				< 0.50		< 0.50	
Hexachloroethane		N	2790	mg/kg	0.50				< 0.50		< 0.50	
N-Nitrosodi-n-propylamine		M	2790	mg/kg	0.50				< 0.50		< 0.50	
4-Methylphenol		M	2790	mg/kg	0.50				< 0.50		< 0.50	
Nitrobenzene		N	2790	mg/kg	0.50				< 0.50		< 0.50	
Isophorone		M	2790	mg/kg	0.50				< 0.50		< 0.50	
2-Nitrophenol		N	2790	mg/kg	0.50				< 0.50		< 0.50	
2,4-Dimethylphenol		N	2790	mg/kg	0.50				< 0.50		< 0.50	
Bis(2-Chloroethoxy)Methane		M	2790	mg/kg	0.50				< 0.50		< 0.50	
2,4-Dichlorophenol		N	2790	mg/kg	0.50				< 0.50		< 0.50	
1,2,4-Trichlorobenzene		M	2790	mg/kg	0.50				< 0.50		< 0.50	
Naphthalene		M	2790	mg/kg	0.50				< 0.50		< 0.50	
4-Chloroaniline		N	2790	mg/kg	0.50				< 0.50		< 0.50	
Hexachlorobutadiene		M	2790	mg/kg	0.50				< 0.50		< 0.50	
4-Chloro-3-Methylphenol		N	2790	mg/kg	0.50				< 0.50		< 0.50	
2-Methylnaphthalene		M	2790	mg/kg	0.50				< 0.50		< 0.50	
4-Nitrophenol		N	2790	mg/kg	0.50				< 0.50		< 0.50	
2,4,6-Trichlorophenol		N	2790	mg/kg	0.50				< 0.50		< 0.50	
2,4,5-Trichlorophenol		N	2790	mg/kg	0.50				< 0.50		< 0.50	
2-Chloronaphthalene		M	2790	mg/kg	0.50				< 0.50		< 0.50	
2-Nitroaniline		N	2790	mg/kg	0.50				< 0.50		< 0.50	
Acenaphthylene		M	2790	mg/kg	0.50				< 0.50		< 0.50	
Dimethylphthalate		M	2790	mg/kg	0.50				< 0.50		< 0.50	
2,6-Dinitrotoluene		N	2790	mg/kg	0.50				< 0.50		< 0.50	
Acenaphthene		M	2790	mg/kg	0.50				< 0.50		< 0.50	
3-Nitroaniline		N	2790	mg/kg	0.50				< 0.50		< 0.50	
Dibenzofuran		M	2790	mg/kg	0.50				< 0.50		< 0.50	
4-Chlorophenylphenylether		M	2790	mg/kg	0.50				< 0.50		< 0.50	

Results - Soil

Project: 25/4047 - LHR042 Thorney Lane DC1

Client: Concept Engineering Consultants		Chemtest Job No.:				25-06385	25-06385	25-06385	25-06385	25-06385	25-06385	25-06385
Quotation No.: Q25-36897		Chemtest Sample ID.:				1937726	1937729	1937731	1937732	1937733	1937735	1937736
Order No.: 104869 (CL6718)		Client Sample Ref.:				10	13	15	16	17	19	20
		Sample Location:				BH25-04	BH25-03	DS25-11	DS25-11	BH25-05	BH25-05	BH25-05
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				2.10	3.70	0.30	1.00	0.30	2.00	3.00
		Bottom Depth (m):				2.10	3.70	0.30	1.00	0.30	2.00	3.00
		Date Sampled:				20-Feb-2025	20-Feb-2025	20-Feb-2025	20-Feb-2025	20-Feb-2025	20-Feb-2025	20-Feb-2025
		Asbestos Lab:						NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
2,4-Dinitrotoluene		N	2790	mg/kg	0.50				< 0.50		< 0.50	
Fluorene		M	2790	mg/kg	0.50				< 0.50		< 0.50	
Diethyl Phthalate		M	2790	mg/kg	0.50				< 0.50		< 0.50	
4-Nitroaniline		N	2790	mg/kg	0.50				< 0.50		< 0.50	
Azobenzene		M	2790	mg/kg	0.50				< 0.50		< 0.50	
4-Bromophenylphenyl Ether		M	2790	mg/kg	0.50				< 0.50		< 0.50	
Hexachlorobenzene		M	2790	mg/kg	0.50				< 0.50		< 0.50	
Phenanthrene		M	2790	mg/kg	0.50				0.68		< 0.50	
Anthracene		M	2790	mg/kg	0.50				< 0.50		< 0.50	
Carbazole		M	2790	mg/kg	0.50				< 0.50		< 0.50	
Di-N-Butyl Phthalate		N	2790	mg/kg	0.50				< 0.50		< 0.50	
Fluoranthene		M	2790	mg/kg	0.50				2.3		< 0.50	
Pyrene		M	2790	mg/kg	0.50				2.8		< 0.50	
Butylbenzyl Phthalate		N	2790	mg/kg	0.50				< 0.50		< 0.50	
Benzo[a]anthracene		M	2790	mg/kg	0.50				1.4		< 0.50	
Chrysene		M	2790	mg/kg	0.50				1.3		< 0.50	
Bis(2-Ethylhexyl)Phthalate		N	2790	mg/kg	0.50				< 0.50		< 0.50	
Di-N-Octyl Phthalate		N	2790	mg/kg	0.50				< 0.50		< 0.50	
Benzo[b]fluoranthene		M	2790	mg/kg	0.50				1.7		< 0.50	
Benzo[k]fluoranthene		M	2790	mg/kg	0.50				0.58		< 0.50	
Benzo[a]pyrene		M	2790	mg/kg	0.50				1.3		< 0.50	
Indeno(1,2,3-c,d)Pyrene		N	2790	mg/kg	0.50				0.71		< 0.50	
Dibenz(a,h)Anthracene		N	2790	mg/kg	0.50				< 0.50		< 0.50	
Benzo[g,h,i]perylene		M	2790	mg/kg	0.50				0.83		< 0.50	
Naphthalene		M	2800	mg/kg	0.10	0.26	< 0.10	0.15	< 0.10	< 0.10	0.14	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	0.13	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	0.36	< 0.10	< 0.10	0.15	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	0.18	< 0.10	< 0.10	0.19	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.70	< 0.10	1.8	1.2	1.3	1.3	< 0.10
Anthracene		M	2800	mg/kg	0.10	0.28	< 0.10	0.64	0.44	0.54	0.33	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	1.0	< 0.10	5.6	2.8	4.2	1.4	< 0.10
Pyrene		M	2800	mg/kg	0.10	0.94	< 0.10	4.9	3.2	4.5	1.1	< 0.10
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.47	< 0.10	2.7	1.6	2.1	0.51	< 0.10
Chrysene		M	2800	mg/kg	0.10	0.46	< 0.10	2.7	1.4	2.2	0.52	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	0.54	< 0.10	3.2	1.9	2.6	0.70	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.26	< 0.10	1.2	0.69	0.98	0.26	< 0.10

Results - Soil

Project: 25/4047 - LHR042 Thorney Lane DC1

Client: Concept Engineering Consultants		Chemtest Job No.:				25-06385	25-06385	25-06385	25-06385	25-06385	25-06385	25-06385
Quotation No.: Q25-36897		Chemtest Sample ID.:				1937726	1937729	1937731	1937732	1937733	1937735	1937736
Order No.: 104869 (CL6718)		Client Sample Ref.:				10	13	15	16	17	19	20
		Sample Location:				BH25-04	BH25-03	DS25-11	DS25-11	BH25-05	BH25-05	BH25-05
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				2.10	3.70	0.30	1.00	0.30	2.00	3.00
		Bottom Depth (m):				2.10	3.70	0.30	1.00	0.30	2.00	3.00
		Date Sampled:				20-Feb-2025	20-Feb-2025	20-Feb-2025	20-Feb-2025	20-Feb-2025	20-Feb-2025	20-Feb-2025
		Asbestos Lab:						NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Benzo[a]pyrene		M	2800	mg/kg	0.10	0.45	< 0.10	2.4	1.5	2.3	0.51	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.30	< 0.10	1.6	0.95	1.5	0.33	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.17	< 0.10	0.33	< 0.10	0.37	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.32	< 0.10	1.6	0.95	1.4	0.42	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	6.2	< 2.0	30	17	24	7.9	< 2.0
Total Phenols		M	2920	mg/kg	0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
PFAS Suite Soils		SN		µg/kg	0.0				See Attached	See Attached		

Results - Soil

Project: 25/4047 - LHR042 Thorney Lane DC1

Client: Concept Engineering Consultants		Chemtest Job No.:				25-06385	25-06385	25-06385	25-06385	25-06385	25-06385	25-06385
Quotation No.: Q25-36897		Chemtest Sample ID.:				1937738	1937740	1937741	1937742	1937743	1937744	1937745
Order No.: 104869 (CL6718)		Client Sample Ref.:				22	24	25	26	27	30	31
		Sample Location:				DS25-12	DS25-16	DS25-16	DS25-14	DS25-14	DS25-06	DS25-06
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				0.40	0.30	0.80	0.30	0.80	0.30	0.90
		Bottom Depth (m):				0.40	0.30		0.30	0.80	0.30	0.90
		Date Sampled:				21-Feb-2025	20-Feb-2025	20-Feb-2025	20-Feb-2025	20-Feb-2025	21-Feb-2025	21-Feb-2025
		Asbestos Lab:				NEW-ASB	NEW-ASB		NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
ACM Type		N	2192		N/A	-	-		-	-	-	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected		No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture		N	2030	%	0.020	8.3	9.6	5.6	9.6	13	12	9.0
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture		N	2040		N/A	Loam	Sand	Clay	Sand	Clay	Clay	Clay
pH at 20C		M	2010		4.0	10.8	9.8	9.1	10.8	8.9	9.8	10.3
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	1.4	< 0.40	< 0.40	1.1	1.7	1.6	1.4
Cyanide (Total)		M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Ammoniacal Nitrogen		M	2425	mg/kg	0.50							
Arsenic		M	2455	mg/kg	0.5	12	6.7	14	14	11	8.4	10
Beryllium		U	2455	mg/kg	0.5	0.9	< 0.5	0.8	1.2	0.9	0.6	0.7
Cadmium		M	2455	mg/kg	0.10	0.25	< 0.10	0.10	0.16	0.11	0.23	0.23
Chromium		M	2455	mg/kg	0.5	31	9.6	22	24	22	20	22
Antimony		N	2455	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Copper		M	2455	mg/kg	0.50	28	9.2	12	34	76	27	55
Mercury		M	2455	mg/kg	0.05	0.11	< 0.05	0.05	0.13	0.19	0.14	0.10
Nickel		M	2455	mg/kg	0.50	23	6.3	21	20	21	15	20
Lead		M	2455	mg/kg	0.50	68	9.0	19	68	66	69	62
Selenium		M	2455	mg/kg	0.25	0.77	0.29	0.86	0.78	0.69	0.56	0.48
Vanadium		U	2455	mg/kg	0.5	45	19	31	38	32	30	32
Zinc		M	2455	mg/kg	0.50	85	62	37	85	61	73	75
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	< 2.0	< 2.0	41	< 2.0	< 2.0	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	4.7	< 1.0	< 1.0	370	2.6	9.9	3.4
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	30	< 2.0	< 2.0	790	< 2.0	52	17
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	99	< 3.0	5.3	1400	6.0	340	88
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	72	< 10	10	250	< 10	61	48
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	130	< 5.0	7.4	2600	10	400	110

Results - Soil

Project: 25/4047 - LHR042 Thorney Lane DC1

Client: Concept Engineering Consultants		Chemtest Job No.:				25-06385	25-06385	25-06385	25-06385	25-06385	25-06385	25-06385
Quotation No.: Q25-36897		Chemtest Sample ID.:				1937738	1937740	1937741	1937742	1937743	1937744	1937745
Order No.: 104869 (CL6718)		Client Sample Ref.:				22	24	25	26	27	30	31
		Sample Location:				DS25-12	DS25-16	DS25-16	DS25-14	DS25-14	DS25-06	DS25-06
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				0.40	0.30	0.80	0.30	0.80	0.30	0.90
		Bottom Depth (m):				0.40	0.30		0.30	0.80	0.30	0.90
		Date Sampled:				21-Feb-2025	20-Feb-2025	20-Feb-2025	20-Feb-2025	20-Feb-2025	21-Feb-2025	21-Feb-2025
		Asbestos Lab:				NEW-ASB	NEW-ASB		NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	210	< 10	17	2900	10	460	160
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	11	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	160	< 1.0	46	4.7
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	23	16	4.1	86	2.4	240	42
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	67	7.7	7.0	28	< 2.0	230	55
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	160	6.5	15	9.5	2.2	120	190
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	90	23	11	280	< 5.0	520	100
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	250	30	27	290	< 10	640	290
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	220	24	18	2900	13	920	210
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	460	30	44	3200	16	1100	450
Total Organic Carbon		M	2625	%	0.20	2.7	0.26	0.33	1.8	0.39	2.0	0.57
Dichlorodifluoromethane		U	2760	mg/kg	0.0010							
Chloromethane		M	2760	mg/kg	0.0010							
Vinyl Chloride		M	2760	mg/kg	0.0010							
Bromomethane		M	2760	mg/kg	0.020							
Chloroethane		U	2760	mg/kg	0.0020							
Trichlorofluoromethane		M	2760	mg/kg	0.0010							
1,1-Dichloroethene		M	2760	mg/kg	0.0010							
Trans 1,2-Dichloroethene		M	2760	mg/kg	0.0010							
1,1-Dichloroethane		M	2760	mg/kg	0.0010							
cis 1,2-Dichloroethene		M	2760	mg/kg	0.0010							
Bromochloromethane		U	2760	mg/kg	0.0050							
Trichloromethane		M	2760	mg/kg	0.0010							
1,1,1-Trichloroethane		M	2760	mg/kg	0.0010							
Tetrachloromethane		M	2760	mg/kg	0.0010							
1,1-Dichloropropene		U	2760	mg/kg	0.0010							
Benzene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
1,2-Dichloroethane		M	2760	mg/kg	0.0020							
Trichloroethene		N	2760	mg/kg	0.0010							
1,2-Dichloropropane		M	2760	mg/kg	0.0010							
Dibromomethane		M	2760	mg/kg	0.0010							

Results - Soil

Project: 25/4047 - LHR042 Thorney Lane DC1

Client: Concept Engineering Consultants		Chemtest Job No.:				25-06385	25-06385	25-06385	25-06385	25-06385	25-06385	25-06385
Quotation No.: Q25-36897		Chemtest Sample ID.:				1937738	1937740	1937741	1937742	1937743	1937744	1937745
Order No.: 104869 (CL6718)		Client Sample Ref.:				22	24	25	26	27	30	31
		Sample Location:				DS25-12	DS25-16	DS25-16	DS25-14	DS25-14	DS25-06	DS25-06
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				0.40	0.30	0.80	0.30	0.80	0.30	0.90
		Bottom Depth (m):				0.40	0.30		0.30	0.80	0.30	0.90
		Date Sampled:				21-Feb-2025	20-Feb-2025	20-Feb-2025	20-Feb-2025	20-Feb-2025	21-Feb-2025	21-Feb-2025
		Asbestos Lab:				NEW-ASB	NEW-ASB		NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Bromodichloromethane		M	2760	mg/kg	0.0050							
cis-1,3-Dichloropropene		N	2760	mg/kg	0.010							
Toluene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Trans-1,3-Dichloropropene		N	2760	mg/kg	0.010							
1,1,2-Trichloroethane		M	2760	mg/kg	0.010							
Tetrachloroethene		M	2760	mg/kg	0.0010							
1,3-Dichloropropane		U	2760	mg/kg	0.0020							
Dibromochloromethane		U	2760	mg/kg	0.010							
1,2-Dibromoethane		M	2760	mg/kg	0.0050							
Chlorobenzene		M	2760	mg/kg	0.0010							
1,1,1,2-Tetrachloroethane		M	2760	mg/kg	0.0020							
Ethylbenzene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
m & p-Xylene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
o-Xylene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Styrene		M	2760	mg/kg	0.0010							
Tribromomethane		U	2760	mg/kg	0.0010							
Isopropylbenzene		M	2760	mg/kg	0.0010							
Bromobenzene		M	2760	mg/kg	0.0010							
1,2,3-Trichloropropane		N	2760	mg/kg	0.050							
N-Propylbenzene		U	2760	mg/kg	0.0010							
2-Chlorotoluene		M	2760	mg/kg	0.0010							
1,3,5-Trimethylbenzene		M	2760	mg/kg	0.0010							
4-Chlorotoluene		U	2760	mg/kg	0.0010							
Tert-Butylbenzene		U	2760	mg/kg	0.0010							
1,2,4-Trimethylbenzene		M	2760	mg/kg	0.0010							
Sec-Butylbenzene		U	2760	mg/kg	0.0010							
1,3-Dichlorobenzene		M	2760	mg/kg	0.0010							
4-Isopropyltoluene		N	2760	mg/kg	0.0010							
1,4-Dichlorobenzene		M	2760	mg/kg	0.0010							
N-Butylbenzene		U	2760	mg/kg	0.0010							
1,2-Dichlorobenzene		M	2760	mg/kg	0.0010							
1,2-Dibromo-3-Chloropropane		U	2760	mg/kg	0.050							
1,2,4-Trichlorobenzene		M	2760	mg/kg	0.0010							
Hexachlorobutadiene		U	2760	mg/kg	0.0010							
1,2,3-Trichlorobenzene		U	2760	mg/kg	0.0020							
Methyl Tert-Butyl Ether		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010

Results - Soil

Project: 25/4047 - LHR042 Thorney Lane DC1

Client: Concept Engineering Consultants		Chemtest Job No.:				25-06385	25-06385	25-06385	25-06385	25-06385	25-06385	25-06385
Quotation No.: Q25-36897		Chemtest Sample ID.:				1937738	1937740	1937741	1937742	1937743	1937744	1937745
Order No.: 104869 (CL6718)		Client Sample Ref.:				22	24	25	26	27	30	31
		Sample Location:				DS25-12	DS25-16	DS25-16	DS25-14	DS25-14	DS25-06	DS25-06
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				0.40	0.30	0.80	0.30	0.80	0.30	0.90
		Bottom Depth (m):				0.40	0.30		0.30	0.80	0.30	0.90
		Date Sampled:				21-Feb-2025	20-Feb-2025	20-Feb-2025	20-Feb-2025	20-Feb-2025	21-Feb-2025	21-Feb-2025
		Asbestos Lab:				NEW-ASB	NEW-ASB		NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
N-Nitrosodimethylamine		M	2790	mg/kg	0.50							
Phenol		M	2790	mg/kg	0.50							
2-Chlorophenol		N	2790	mg/kg	0.50							
Bis-(2-Chloroethyl)Ether		M	2790	mg/kg	0.50							
1,3-Dichlorobenzene		M	2790	mg/kg	0.50							
1,4-Dichlorobenzene		N	2790	mg/kg	0.50							
1,2-Dichlorobenzene		M	2790	mg/kg	0.50							
2-Methylphenol		M	2790	mg/kg	0.50							
Bis(2-Chloroisopropyl)Ether		M	2790	mg/kg	0.50							
Hexachloroethane		N	2790	mg/kg	0.50							
N-Nitrosodi-n-propylamine		M	2790	mg/kg	0.50							
4-Methylphenol		M	2790	mg/kg	0.50							
Nitrobenzene		N	2790	mg/kg	0.50							
Isophorone		M	2790	mg/kg	0.50							
2-Nitrophenol		N	2790	mg/kg	0.50							
2,4-Dimethylphenol		N	2790	mg/kg	0.50							
Bis(2-Chloroethoxy)Methane		M	2790	mg/kg	0.50							
2,4-Dichlorophenol		N	2790	mg/kg	0.50							
1,2,4-Trichlorobenzene		M	2790	mg/kg	0.50							
Naphthalene		M	2790	mg/kg	0.50							
4-Chloroaniline		N	2790	mg/kg	0.50							
Hexachlorobutadiene		M	2790	mg/kg	0.50							
4-Chloro-3-Methylphenol		N	2790	mg/kg	0.50							
2-Methylnaphthalene		M	2790	mg/kg	0.50							
4-Nitrophenol		N	2790	mg/kg	0.50							
2,4,6-Trichlorophenol		N	2790	mg/kg	0.50							
2,4,5-Trichlorophenol		N	2790	mg/kg	0.50							
2-Chloronaphthalene		M	2790	mg/kg	0.50							
2-Nitroaniline		N	2790	mg/kg	0.50							
Acenaphthylene		M	2790	mg/kg	0.50							
Dimethylphthalate		M	2790	mg/kg	0.50							
2,6-Dinitrotoluene		N	2790	mg/kg	0.50							
Acenaphthene		M	2790	mg/kg	0.50							
3-Nitroaniline		N	2790	mg/kg	0.50							
Dibenzofuran		M	2790	mg/kg	0.50							
4-Chlorophenylphenylether		M	2790	mg/kg	0.50							

Results - Soil

Project: 25/4047 - LHR042 Thorney Lane DC1

Client: Concept Engineering Consultants		Chemtest Job No.:				25-06385	25-06385	25-06385	25-06385	25-06385	25-06385	25-06385
Quotation No.: Q25-36897		Chemtest Sample ID.:				1937738	1937740	1937741	1937742	1937743	1937744	1937745
Order No.: 104869 (CL6718)		Client Sample Ref.:				22	24	25	26	27	30	31
		Sample Location:				DS25-12	DS25-16	DS25-16	DS25-14	DS25-14	DS25-06	DS25-06
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				0.40	0.30	0.80	0.30	0.80	0.30	0.90
		Bottom Depth (m):				0.40	0.30		0.30	0.80	0.30	0.90
		Date Sampled:				21-Feb-2025	20-Feb-2025	20-Feb-2025	20-Feb-2025	20-Feb-2025	21-Feb-2025	21-Feb-2025
		Asbestos Lab:				NEW-ASB	NEW-ASB		NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
2,4-Dinitrotoluene		N	2790	mg/kg	0.50							
Fluorene		M	2790	mg/kg	0.50							
Diethyl Phthalate		M	2790	mg/kg	0.50							
4-Nitroaniline		N	2790	mg/kg	0.50							
Azobenzene		M	2790	mg/kg	0.50							
4-Bromophenylphenyl Ether		M	2790	mg/kg	0.50							
Hexachlorobenzene		M	2790	mg/kg	0.50							
Phenanthrene		M	2790	mg/kg	0.50							
Anthracene		M	2790	mg/kg	0.50							
Carbazole		M	2790	mg/kg	0.50							
Di-N-Butyl Phthalate		N	2790	mg/kg	0.50							
Fluoranthene		M	2790	mg/kg	0.50							
Pyrene		M	2790	mg/kg	0.50							
Butylbenzyl Phthalate		N	2790	mg/kg	0.50							
Benzo[a]anthracene		M	2790	mg/kg	0.50							
Chrysene		M	2790	mg/kg	0.50							
Bis(2-Ethylhexyl)Phthalate		N	2790	mg/kg	0.50							
Di-N-Octyl Phthalate		N	2790	mg/kg	0.50							
Benzo[b]fluoranthene		M	2790	mg/kg	0.50							
Benzo[k]fluoranthene		M	2790	mg/kg	0.50							
Benzo[a]pyrene		M	2790	mg/kg	0.50							
Indeno(1,2,3-c,d)Pyrene		N	2790	mg/kg	0.50							
Dibenz(a,h)Anthracene		N	2790	mg/kg	0.50							
Benzo[g,h,i]perylene		M	2790	mg/kg	0.50							
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.26	< 0.10	0.12	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	1.8	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.51	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.79	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	1.3	0.57	< 0.10	6.9	0.29	1.5	2.1
Anthracene		M	2800	mg/kg	0.10	0.41	0.17	< 0.10	2.3	< 0.10	0.44	0.77
Fluoranthene		M	2800	mg/kg	0.10	2.6	1.1	0.19	14	0.55	2.8	4.4
Pyrene		M	2800	mg/kg	0.10	3.3	0.86	0.17	12	0.46	3.2	5.1
Benzo[a]anthracene		M	2800	mg/kg	0.10	1.7	< 0.10	< 0.10	5.5	0.26	1.5	2.6
Chrysene		M	2800	mg/kg	0.10	1.4	< 0.10	< 0.10	5.8	0.21	1.1	2.2
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	2.2	< 0.10	< 0.10	9.4	0.37	1.8	3.0
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.81	< 0.10	< 0.10	3.4	0.15	0.77	1.1

Results - Soil

Project: 25/4047 - LHR042 Thorney Lane DC1

Client: Concept Engineering Consultants		Chemtest Job No.:				25-06385	25-06385	25-06385	25-06385	25-06385	25-06385	25-06385
Quotation No.: Q25-36897		Chemtest Sample ID.:				1937738	1937740	1937741	1937742	1937743	1937744	1937745
Order No.: 104869 (CL6718)		Client Sample Ref.:				22	24	25	26	27	30	31
		Sample Location:				DS25-12	DS25-16	DS25-16	DS25-14	DS25-14	DS25-06	DS25-06
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				0.40	0.30	0.80	0.30	0.80	0.30	0.90
		Bottom Depth (m):				0.40	0.30		0.30	0.80	0.30	0.90
		Date Sampled:				21-Feb-2025	20-Feb-2025	20-Feb-2025	20-Feb-2025	20-Feb-2025	21-Feb-2025	21-Feb-2025
		Asbestos Lab:				NEW-ASB	NEW-ASB		NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.6	< 0.10	< 0.10	8.5	0.33	1.5	2.3
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	1.1	< 0.10	< 0.10	5.9	0.25	1.1	1.5
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	1.0	< 0.10	< 0.10	0.31
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	1.1	< 0.10	< 0.10	6.2	0.23	1.1	1.5
Total Of 16 PAH's		N	2800	mg/kg	2.0	18	2.7	< 2.0	84	3.1	17	27
Total Phenols		M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.18
PFAS Suite Soils		SN		µg/kg	0.0	See Attached	See Attached		See Attached		See Attached	

Results - Single Stage WAC

Project: 25/4047 - LHR042 Thorney Lane DC1

Chemtest Job No: 25-06385						Landfill Waste Acceptance Criteria		
Chemtest Sample ID: 1937729						Limits		
Sample Ref: 13						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:								
Sample Location: BH25-03								
Top Depth(m): 3.70								
Bottom Depth(m): 3.70								
Sampling Date: 20-Feb-2025								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	0.21	3	5	6
Loss On Ignition	2610		M	%	4.0	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	< 10	500	--	--
Total (Of 17) PAH's	2700		N	mg/kg	< 2.0	100	--	--
pH at 20C	2010		M		7.8	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.0090	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0007	0.0074	0.5	2	25
Barium	1455		U	0.005	0.053	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0010	0.0098	0.5	10	70
Copper	1455		U	0.0005	0.0053	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0021	0.021	0.5	10	30
Nickel	1455		U	0.0019	0.019	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	0.0011	0.011	0.06	0.7	5
Selenium	1455		U	0.0058	0.058	0.1	0.5	7
Zinc	1455		U	0.011	0.11	4	50	200
Chloride	1220		U	1.7	17	800	15000	25000
Fluoride	1220		U	0.29	2.9	10	150	500
Sulphate	1220		U	16	160	1000	20000	50000
Total Dissolved Solids	1020		N	47	470	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	2.9	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	22
WAC Sample Weight	2734

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25/4047 - LHR042 Thorney Lane DC1

Chemtest Job No: 25-06385						Landfill Waste Acceptance Criteria		
Chemtest Sample ID: 1937732						Limits		
Sample Ref: 16						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:								
Sample Location: DS25-11								
Top Depth(m): 1.00								
Bottom Depth(m): 1.00								
Sampling Date: 20-Feb-2025								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	0.93	3	5	6
Loss On Ignition	2610		M	%	1.8	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	110	500	--	--
Total (Of 17) PAH's	2700		N	mg/kg	21	100	--	--
pH at 20C	2010		M		8.6	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.10	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0013	0.013	0.5	2	25
Barium	1455		U	0.015	0.15	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0026	0.027	0.5	10	70
Copper	1455		U	0.0036	0.036	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0006	0.0064	0.5	10	30
Nickel	1455		U	0.0007	0.0070	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	0.0022	0.022	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.004	0.039	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.21	2.1	10	150	500
Sulphate	1220		U	45	450	1000	20000	50000
Total Dissolved Solids	1020		N	150	1500	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	3.0	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	4.2
WAC Sample Weight	2731

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25/4047 - LHR042 Thorney Lane DC1

Project: 20-04-17 - Enkore Property, Lane 202						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-06385						Limits		
Chemtest Sample ID: 1937733						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample Ref: 17								
Sample ID:								
Sample Location: BH25-05								
Top Depth(m): 0.30								
Bottom Depth(m): 0.30								
Sampling Date: 20-Feb-2025								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	1.2	3	5	6
Loss On Ignition	2610		M	%	2.2	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	150	500	--	--
Total (Of 17) PAH's	2700		N	mg/kg	29	100	--	--
pH at 20C	2010		M		9.6	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.093	--	To evaluate	To evaluate
Eluate Analysis							Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg	
				10:1 Eluate mg/l	10:1 Eluate mg/kg			
Arsenic	1455		U	0.0016	0.016	0.5	2	25
Barium	1455		U	0.019	0.19	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0064	0.064	0.5	10	70
Copper	1455		U	0.0097	0.097	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0018	0.018	0.5	10	30
Nickel	1455		U	0.0012	0.012	0.4	10	40
Lead	1455		U	0.0006	0.0064	0.5	10	50
Antimony	1455		U	0.0032	0.032	0.06	0.7	5
Selenium	1455		U	0.0006	0.0055	0.1	0.5	7
Zinc	1455		U	0.004	0.036	4	50	200
Chloride	1220		U	2.8	28	800	15000	25000
Fluoride	1220		U	0.21	2.1	10	150	500
Sulphate	1220		U	48	480	1000	20000	50000
Total Dissolved Solids	1020		N	230	2300	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	3.9	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	14
WAC Sample Weight	4498

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25/4047 - LHR042 Thorney Lane DC1

Chemtest Job No: 25-06385						Landfill Waste Acceptance Criteria		
Chemtest Sample ID: 1937738						Limits		
Sample Ref: 22						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:								
Sample Location: DS25-12								
Top Depth(m): 0.40								
Bottom Depth(m): 0.40								
Sampling Date: 21-Feb-2025								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	2.7	3	5	6
Loss On Ignition	2610		M	%	2.4	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	820	500	--	--
Total (Of 17) PAH's	2700		N	mg/kg	27	100	--	--
pH at 20C	2010		M		10.8	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.065	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0019	0.019	0.5	2	25
Barium	1455		U	0.009	0.092	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0021	0.021	0.5	10	70
Copper	1455		U	0.0036	0.036	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0005	0.0048	0.5	10	30
Nickel	1455		U	< 0.0005	< 0.0050	0.4	10	40
Lead	1455		U	0.0014	0.014	0.5	10	50
Antimony	1455		U	0.0009	0.0093	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.010	0.10	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.18	1.8	10	150	500
Sulphate	1220		U	20	200	1000	20000	50000
Total Dissolved Solids	1020		N	110	1100	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	< 2.5	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	17
WAC Sample Weight	4573

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25/4047 - LHR042 Thorney Lane DC1

Chemtest Job No: 25-06385						Landfill Waste Acceptance Criteria		
Chemtest Sample ID: 1937741						Limits		
Sample Ref: 25						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:								
Sample Location: DS25-16								
Top Depth(m): 0.80								
Bottom Depth(m):								
Sampling Date: 20-Feb-2025								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	0.33	3	5	6
Loss On Ignition	2610		M	%	0.63	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	< 10	500	--	--
Total (Of 17) PAH's	2700		N	mg/kg	< 2.0	100	--	--
pH at 20C	2010		M		9.1	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.0070	--	To evaluate	To evaluate
Eluate Analysis							Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg	
				10:1 Eluate mg/l	10:1 Eluate mg/kg			
Arsenic	1455		U	0.0036	0.037	0.5	2	25
Barium	1455		U	0.006	0.058	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0028	0.028	0.5	10	70
Copper	1455		U	0.0036	0.036	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0017	0.017	0.5	10	30
Nickel	1455		U	0.0026	0.026	0.4	10	40
Lead	1455		U	0.0032	0.032	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	0.0007	0.0067	0.1	0.5	7
Zinc	1455		U	0.014	0.14	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.14	1.4	10	150	500
Sulphate	1220		U	< 1.0	< 10	1000	20000	50000
Total Dissolved Solids	1020		N	26	260	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	< 2.5	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	19
WAC Sample Weight	3566

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25/4047 - LHR042 Thorney Lane DC1

Chemtest Job No: 25-06385						Landfill Waste Acceptance Criteria		
Chemtest Sample ID: 1937742						Limits		
Sample Ref: 26						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:								
Sample Location: DS25-14								
Top Depth(m): 0.30								
Bottom Depth(m): 0.30								
Sampling Date: 20-Feb-2025								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	1.8	3	5	6
Loss On Ignition	2610		M	%	2.9	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D Total	M	mg/kg	1200	500	--	--
Total (Of 17) PAH's	2700		N	mg/kg	110	100	--	--
pH at 20C	2010		M		10.8	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.072	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0021	0.021	0.5	2	25
Barium	1455		U	0.015	0.15	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0019	0.019	0.5	10	70
Copper	1455		U	0.0063	0.063	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0026	0.026	0.5	10	30
Nickel	1455		U	0.0009	0.0094	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.006	0.059	4	50	200
Chloride	1220		U	6.4	64	800	15000	25000
Fluoride	1220		U	0.22	2.2	10	150	500
Sulphate	1220		U	100	1000	1000	20000	50000
Total Dissolved Solids	1020		N	310	3100	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	8.9	89	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	9.5
WAC Sample Weight	5142

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25/4047 - LHR042 Thorney Lane DC1

Project: 2016-17 Enviro-Phoney Lake DC						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-06385 Chemtest Sample ID: 1937744 Sample Ref: 30 Sample ID: Sample Location: DS25-06 Top Depth(m): 0.30 Bottom Depth(m): 0.30 Sampling Date: 21-Feb-2025						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	2.0	3	5	6
Loss On Ignition	2610		M	%	2.5	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D Total	M	mg/kg	280	500	--	--
Total (Of 17) PAH's	2700		N	mg/kg	23	100	--	--
pH at 20C	2010		M		9.8	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.045	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0021	0.021	0.5	2	25
Barium	1455		U	0.011	0.11	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0056	0.056	0.5	10	70
Copper	1455		U	0.0098	0.098	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0018	0.018	0.5	10	30
Nickel	1455		U	0.0012	0.012	0.4	10	40
Lead	1455		U	0.0010	0.0098	0.5	10	50
Antimony	1455		U	0.0020	0.020	0.06	0.7	5
Selenium	1455		U	0.0010	0.010	0.1	0.5	7
Zinc	1455		U	0.005	0.046	4	50	200
Chloride	1220		U	2.1	21	800	15000	25000
Fluoride	1220		U	0.19	1.9	10	150	500
Sulphate	1220		U	32	320	1000	20000	50000
Total Dissolved Solids	1020		N	190	1900	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	4.5	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	16
WAC Sample Weight	3364

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity at 25°C and Total Dissolved Solids (TDS) in Waters	Conductivity 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.	RE PW PL LE DW GW
1455	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).	RE PW PL SW DW GW
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation	PL SW GW
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.	
2010	pH Value of Soils	pH at 20°C	pH Meter	
2015	Acid Neutralisation Capacity	Acid Reserve	Titration	
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES	
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry	
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.	
2425	Extractable Ammonium in soils	Ammonium	Extraction with potassium chloride solution / analysis by 'Aquakem 600' Discrete Analyser using sodium salicylate and sodium dichloroisocyanurate.	
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.	
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazine.	
2610	Loss on Ignition	loss on ignition (LOI)	Determination of the proportion by mass that is lost from a soil by ignition at 550°C.	
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.	
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil 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)	

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8-C10 Aromatics: >C5–C7,>C7-C8,>C8–C10	Water extraction / Headspace GCxGC FID detection	
2790	Semi-Volatile Organic Compounds (SVOCs) in Soils by GC-MS	Semi-volatile organic compounds(cf. USEPA Method 8270)	Acetone/Hexane extraction / GC-MS	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenzo[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS	
2815	Polychlorinated Biphenyls (PCB) ICES7Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS. Reported PCB 101 results may contain contributions from PCB 90 due to inseparable chromatography.	
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.	
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge	
650	Characterisation of Waste (Leaching WAC)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge	

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"
SOP	Standard operating procedure
LOD	Limit of detection

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

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 EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ 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.

NEW_ASB Eurofins Chemtest Limited, 11 Depot Road, Newmarket, CB8 0AL

DURHAM Eurofins Chemtest Limited, Unit A North Wing, Prospect Business Park, Crookhall Lane, Consett, Co Durham, DH8 7PW

Sample Deviation Codes

As a result of any of the below deviations applying, the test results may be unreliable

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 - The required amount of sample for analysis was not received

H - Appropriate cooling measures were not taken for sample transportation

Sample Retention and Disposal

All soil samples will be retained for a period of 30 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.

Report Information

Water Sample Category Key for Accreditation

DW - Drinking Water
GW - Ground Water
LE - Land Leachate
NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

Asbestos Tests LOD = LOQ

Limit of Detection = Limit of Quantification for asbestos results only

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

C E R T I F I C A T E

Project code : 1886262
Your Project Description : 25-06385
Client : Eurofins Chemtest Ltd

Your Sample identification
8676273 = 1937732 DS25-11
8676274 = 1937733 BH25-05
8676275 = 1937738 DS25-12

Client sampling date	:	20/02/2025	20/02/2025	20/02/2025
Date of receipt	:	04/03/2025	04/03/2025	04/03/2025
Startdate	:	04/03/2025	04/03/2025	04/03/2025
Reference number	:	8676273	8676274	8676275
Your Matrix	:	Soil	Soil	Soil

Sample preparation

S AS3000 (steekmonster)		done	done	done
cryogenic grinding		grinded	grinded	grinded
S weight of artifact	g	n.a.	n.a.	n.a.
S type of artifact		n.v.t.	n.v.t.	n.v.t.
S sample preparation		done	done	done

General analysis - physics

S dry weight	%	90,7	85,9	87,1

CERTIFICATE

Project code : 1886262
 Your Project Description : 25-06385
 Client : Eurofins Chemtest Ltd

Your Sample identification
 8676273 = 1937732 DS25-11
 8676274 = 1937733 BH25-05
 8676275 = 1937738 DS25-12

Client sampling date	:	20/02/2025	20/02/2025	20/02/2025
Date of receipt	:	04/03/2025	04/03/2025	04/03/2025
Startdate	:	04/03/2025	04/03/2025	04/03/2025
Reference number	:	8676273	8676274	8676275
Your Matrix	:	Soil	Soil	Soil

Organic compounds - per- and polyfluoroalkylsubstances (PFAS) HPLC-MS/MS

Perfluorinated carboxylic acids:

S	PFBA	µg/kg dw	< 0,1	< 0,1	< 0,1
S	PFPeA	µg/kg dw	< 0,1	< 0,1	< 0,1
S	PFHxA	µg/kg dw	< 0,1	< 0,1	< 0,1
S	PFHpA	µg/kg dw	< 0,1	< 0,1	< 0,1
S	PFOA linear	µg/kg dw	< 0,1	< 0,1	< 0,1
S	PFOA branched	µg/kg dw	< 0,1	< 0,1	< 0,1
S	PFNA	µg/kg dw	< 0,1	< 0,1	< 0,1
S	PFDA	µg/kg dw	< 0,1	< 0,1	< 0,1
S	PFUnDA	µg/kg dw	< 0,1	< 0,1	< 0,1
S	PFDoDA	µg/kg dw	< 0,1	< 0,1	< 0,1
S	PFTTrDA	µg/kg dw	< 0,1	< 0,1	< 0,1
S	PFTeDA	µg/kg dw	< 0,1	< 0,1	< 0,1
S	PFHxDA	µg/kg dw	< 0,1	< 0,1	< 0,1
S	PFODA	µg/kg dw	< 0,1	< 0,1	< 0,1

Perfluorinated sulfonic acids:

S	PFBS	µg/kg dw	< 0,1	< 0,1	< 0,1
S	PFPeS	µg/kg dw	< 0,1	< 0,1	< 0,1
S	PFHxS	µg/kg dw	< 0,1	< 0,1	< 0,1
S	PFHpS	µg/kg dw	< 0,1	< 0,1	< 0,1
S	PFOS linear	µg/kg dw	< 0,1	0,1	< 0,1
S	PFOS branched	µg/kg dw	< 0,1	< 0,1	< 0,1
S	PFDS	µg/kg dw	< 0,1	< 0,1	< 0,1

Perfluorinated alkyl substances - precursors:

S	4:2 FTS	µg/kg dw	< 0,1	< 0,1	< 0,1
S	6:2 FTS	µg/kg dw	0,2	< 0,1	< 0,1
S	8:2 FTS	µg/kg dw	< 0,1	< 0,1	< 0,1
S	10:2 FTS	µg/kg dw	< 0,1	< 0,1	< 0,1
S	PFOSA	µg/kg dw	< 0,1	< 0,1	< 0,1

Perfluorinated alkyl substances - remainder:

	HPFHpA	µg/kg dw	< 0,4	< 0,4	< 0,4
	4H-PFUnDA	µg/kg dw	< 0,4	< 0,4	< 0,4
	8:2 FTUCA	µg/kg dw	< 0,4	< 0,4	< 0,4
Q	9CI-PF3ONS (F53-B)	µg/kg dw	< 0,1	< 0,1	< 0,1
Q	ADONA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q	EtFOSA	µg/kg dw	< 0,1	< 0,1	< 0,1
S	EtFOSAA	µg/kg dw	< 0,1	< 0,1	< 0,1
	MeFBSA	µg/kg dw	< 0,4	< 0,4	< 0,4
S	MeFOSAA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q	P37DMOA	µg/kg dw	< 1	< 1	< 1
Q	PFBSA	µg/kg dw	< 0,1	< 0,1	< 0,1
S	MeFOSA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q	MeFBSAA	µg/kg dw	< 0,1	< 0,1	< 0,1
S	8:2 DiPAP	µg/kg dw	< 0,1	< 0,1	< 0,1
S	HFPO-DA (GenX)	µg/kg dw	< 0,1	< 0,1	< 0,1

- The frontpage and, where applicable, appendices of this document are integral parts of this certificate.

- Analyses marked with a 'Q' are part of the RvA accreditation certificate L086.

- Analyses marked with a 'S' are part of the AS 3000 accreditation certificate.

Verificationcode: VSAZ-VUHF-PBHU-ZSPJ

Ref.: 1886262_certificaat_v1

CERTIFICATE

Project code : 1886262
Your Project Description : 25-06385
Client : Eurofins Chemtest Ltd

Your Sample identification

8676273 = 1937732 DS25-11

8676274 = 1937733 BH25-05

8676275 = 1937738 DS25-12

Client sampling date	:	20/02/2025	20/02/2025	20/02/2025
Date of receipt	:	04/03/2025	04/03/2025	04/03/2025
Startdate	:	04/03/2025	04/03/2025	04/03/2025
Reference number	:	8676273	8676274	8676275
Your Matrix	:	Soil	Soil	Soil

S som PFOA	µg/kg dw	0,1	0,1	0,1
S sum PFOS	µg/kg dw	0,1	0,2	0,1

C E R T I F I C A T E

Project code : 1886262
Your Project Description : 25-06385
Client : Eurofins Chemtest Ltd

Your Sample identification
8676276 = 1937740 DS25-16
8676277 = 1937742 DS25-14
8676278 = 1937744 DS25-06

Client sampling date	:	20/02/2025	20/02/2025	20/02/2025
Date of receipt	:	04/03/2025	04/03/2025	04/03/2025
Startdate	:	04/03/2025	04/03/2025	04/03/2025
Reference number	:	8676276	8676277	8676278
Your Matrix	:	Soil	Soil	Soil

Sample preparation

S AS3000 (steekmonster)		done	done	done
cryogenic grinding		grinded	grinded	grinded
S weight of artifact	g	n.a.	n.a.	n.a.
S type of artifact		n.v.t.	n.v.t.	n.v.t.
S sample preparation		done	done	done

General analysis - physics

S dry weight	%	89,9	87,1	83,2

CERTIFICATE

Project code : 1886262
 Your Project Description : 25-06385
 Client : Eurofins Chemtest Ltd

Your Sample identification
 8676276 = 1937740 DS25-16
 8676277 = 1937742 DS25-14
 8676278 = 1937744 DS25-06

Client sampling date	:	20/02/2025	20/02/2025	20/02/2025
Date of receipt	:	04/03/2025	04/03/2025	04/03/2025
Startdate	:	04/03/2025	04/03/2025	04/03/2025
Reference number	:	8676276	8676277	8676278
Your Matrix	:	Soil	Soil	Soil

Organic compounds - per- and polyfluoroalkylsubstances (PFAS) HPLC-MS/MS

Perfluorinated carboxylic acids:

S	PFBA	µg/kg dw	< 0,1	0,2	< 0,1
S	PFPeA	µg/kg dw	< 0,1	< 0,1	< 0,1
S	PFHxA	µg/kg dw	< 0,1	< 0,1	< 0,1
S	PFHpA	µg/kg dw	< 0,1	< 0,1	< 0,1
S	PFOA linear	µg/kg dw	< 0,1	< 0,1	< 0,1
S	PFOA branched	µg/kg dw	< 0,1	< 0,1	0,1
S	PFNA	µg/kg dw	< 0,1	< 0,1	< 0,1
S	PFDA	µg/kg dw	< 0,1	< 0,1	< 0,1
S	PFUnDA	µg/kg dw	< 0,1	< 0,1	< 0,1
S	PFDODA	µg/kg dw	< 0,1	< 0,1	< 0,1
S	PFTTrDA	µg/kg dw	< 0,1	< 0,1	< 0,1
S	PFTeDA	µg/kg dw	< 0,1	< 0,1	< 0,1
S	PFHxDA	µg/kg dw	< 0,1	< 0,1	< 0,1
S	PFODA	µg/kg dw	< 0,1	< 0,1	< 0,1

Perfluorinated sulfonic acids:

S	PFBS	µg/kg dw	< 0,1	< 0,1	< 0,1
S	PFPeS	µg/kg dw	< 0,1	< 0,1	< 0,1
S	PFHxS	µg/kg dw	< 0,1	< 0,1	< 0,1
S	PFHpS	µg/kg dw	< 0,1	< 0,1	< 0,1
S	PFOS linear	µg/kg dw	< 0,1	< 0,1	0,2
S	PFOS branched	µg/kg dw	< 0,1	< 0,1	< 0,1
S	PFDS	µg/kg dw	< 0,1	< 0,1	< 0,1

Perfluorinated alkyl substances - precursors:

S	4:2 FTS	µg/kg dw	< 0,1	< 0,1	< 0,1
S	6:2 FTS	µg/kg dw	< 0,1	< 0,1	< 0,1
S	8:2 FTS	µg/kg dw	< 0,1	< 0,1	< 0,1
S	10:2 FTS	µg/kg dw	0,1	< 0,1	< 0,1
S	PFOSA	µg/kg dw	< 0,1	< 0,1	< 0,1

Perfluorinated alkyl substances - remainder:

	HPFHpA	µg/kg dw	< 0,4	< 0,4	< 0,4
	4H-PFUnDA	µg/kg dw	< 0,4	< 0,4	< 0,4
	8:2 FTUCA	µg/kg dw	< 0,4	< 0,4	< 0,4
Q	9CI-PF3ONS (F53-B)	µg/kg dw	< 0,1	< 0,1	< 0,1
Q	ADONA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q	EtFOSA	µg/kg dw	< 0,1	< 0,1	< 0,1
S	EtFOSAA	µg/kg dw	< 0,1	< 0,1	< 0,1
	MeFBSA	µg/kg dw	< 0,4	< 0,4	< 0,4
S	MeFOSAA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q	P37DMOA	µg/kg dw	< 1	< 1	< 1
Q	PFBSA	µg/kg dw	< 0,1	< 0,1	< 0,1
S	MeFOSA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q	MeFBSAA	µg/kg dw	< 0,1	< 0,1	< 0,1
S	8:2 DiPAP	µg/kg dw	< 0,1	< 0,1	< 0,1
S	HFPO-DA (GenX)	µg/kg dw	< 0,1	< 0,1	< 0,1

- The frontpage and, where applicable, appendices of this document are integral parts of this certificate.

- Analyses marked with a 'Q' are part of the RvA accreditation certificate L086.

- Analyses marked with a 'S' are part of the AS 3000 accreditation certificate.

Verificationcode: VSAZ-VUHF-PBHU-ZSPJ

Ref.: 1886262_certificaat_v1

C E R T I F I C A T E

Project code : 1886262
Your Project Description : 25-06385
Client : Eurofins Chemtest Ltd

Your Sample identification
8676276 = 1937740 DS25-16
8676277 = 1937742 DS25-14
8676278 = 1937744 DS25-06

Client sampling date	:	20/02/2025	20/02/2025	20/02/2025
Date of receipt	:	04/03/2025	04/03/2025	04/03/2025
Startdate	:	04/03/2025	04/03/2025	04/03/2025
Reference number	:	8676276	8676277	8676278
Your Matrix	:	Soil	Soil	Soil

S som PFOA	µg/kg dw	0,1	0,1	0,2
S sum PFOS	µg/kg dw	0,1	0,1	0,3

C E R T I F I C A T E

Project code : 1886262
Your Project Description : 25-06385
Client : Eurofins Chemtest Ltd

Notes related to analyses

General comments

The following information has been provided by the client if applicable:

Project description, Sample identification, Client sampling date, Client Matrix, Sample depth, Pot number (Barcode), Field data, Field observations and sampling data. The client sampling date can affect the validity of the results.

Quantification of branched PFOS/POA is based on DIN 38414-14.

Summation of concentrations for group parameters

Summation is calculated according to AS3000 protocol, paragraph 2.5.2 and appendix 3.

Project Note(s): - Quantification of HFPO-DA (GenX) is based on 2,3,3,3-tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-propanoic acid (CAS nr. 13252-13-6). Another name of GenX is perfluoro-2-propoxyrpropanoic acid (PFPrOPrA).

C E R T I F I C A T E

Project code : 1886262
Your Project Description : 25-06385
Client : Eurofins Chemtest Ltd

Appendix Index PFAS

PFAS component	Full name PFAS component
10:2 FTS	10:2 FTS (10:2 Fluorotelomer sulfonic acid)
4:2 FTS	4:2 FTS (4:2 Fluorotelomer sulfonic acid)
4H-PFUnDA	4H-PFUnDA (2H,2H,3H,3H-Perfluoroundecanoic acid)
6:2 FTS	6:2 FTS (6:2 Fluorotelomer sulfonic acid)
8:2 DiPAP	8:2 DiPAP (8:2 Fluorotelomer phosphate diester)
8:2 FTS	8:2 FTS (8:2 Fluorotelomer sulfonic acid)
8:2 FTUCA	8:2 FTUCA (8:2 Fluorotelomer unsaturated carboxylic acid)
9Cl-PF3ONS (F53-B)	9Cl-PF3ONS (F53-B) (9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid)
ADONA	ADONA (ammonium 4,8-dioxa-3H-perfluorononanoate)
EtFOSA	EtFOSA (N-ethyl perfluorooctanesulfonamide)
EtFOSAA	EtFOSAA (perfluorooctanesulfonylamide(N-ethyl)acetate)
HPFHpA	HPFHpA (7H-perfluoroheptanoic acid)
MeFBSA	MeFBSA (N-methylperfluorobutanesulfonylamide)
MeFBSAA	MeFBSAA (perfluorobutanesulfonylamide(N-methyl)acetate)
MeFOSA	MeFOSA (N-methyl perfluorooctanesulfonamide)
MeFOSAA	MeFOSAA (N-methyl perfluorooctanesulfonamidoacetic acid)
P37DMOA	P37DMOA (perfluoro-3,7-dimethyloctanoic acid)
PFBA	PFBA (perfluorobutanoic acid)
PFBS	PFBS (perfluorobutanesulfonic acid)
PFBSA	PFBSA (perfluorobutanesulfonamide)
PFDA	PFDA (perfluorodecanoic acid)
PFDoDA	PFDoDA (perfluorododecanoic acid)
PFDS	PFDS (perfluorodecanesulfonic acid)
PFHpA	PFHpA (perfluoroheptanoic acid)
PFHpS	PFHpS (perfluoroheptanesulfonic acid)
PFHxA	PFHxA (perfluorohexanoic acid)
PFHxDA	PFHxDA (perfluorohexadecanoic acid)
PFHxS	PFHxS (perfluorohexanesulfonic acid)
PFNA	PFNA (perfluorononanoic acid)
PFOA branched	PFOA branched (perfluorooctanoic acid)
PFOA linear	PFOA linear (perfluorooctanoic acid)
PFODA	PFODA (perfluorooctadecanoic acid)
PFOS branched	PFOS branched (perfluorooctanesulfonic acid)
PFOS linear	PFOS linear (perfluorooctanesulfonic acid)
PFOSA	PFOSA (perfluorooctanesulfonamide)
PFPeA	PFPeA (perfluoropentanoic acid)
PFPeS	PFPeS (perfluoropentanesulfonic acid)
PFTeDA	PFTeDA (perfluorotetradecanoic acid)
PFTTrDA	PFTTrDA (perfluorotridecanoic acid)
PFUnDA	PFUnDA (perfluoroundecanoic acid)

C E R T I F I C A T E

Project code : 1886262
Your Project Description : 25-06385
Client : Eurofins Chemtest Ltd

Methodology Soil (AS3000)

AS3000

In dit analysecertificaat zijn de met 'S' gemerkte analyses uitgevoerd volgens de analysemethoden beschreven in het "Accreditatieschema Laboratoriumanalyses voor grond-, waterbodem- en grondwateronderzoek (AS SIKB 3000)". Het laboratoriumonderzoek is uitgevoerd volgens de onderstaande analysemethoden. Deze analyses zijn vastgelegd in het geldende accreditatie-certificaat met bijbehorende verrichtingenlijst L086 van Eurofins Omegam BV.

Samplemate : Conform AS3000 en NEN-EN 16179
Dry weight : Conform AS3010 prestatieblad 2
PFAS : Conform AS3080 prestatieblad 1
GenX : Conform AS3080 prestatieblad 2

In this certificate of analysis, the analysis marked with 'Q' have been carried out according to the analysis methods below. The analysis are registered in the current accreditation certificate with associated annex to declaration of accreditation (scope of accreditation) L086 of Eurofins Omegam BV.

PFAS : In house method



Final Report

Report No.: 25-06427-1

Initial Date of Issue: 21-Mar-2025

Re-Issue Details:

Client Concept Engineering Consultants

Client Address: 47 - 49 Brunel Road
London
W3 7XR

Contact(s): Gabriela Mandache
Kasia Mazerant
Lab

Project 25/4047 - LHR042 Thorney Lane DC1

Quotation No.: Q25-36897

Date Received: 25-Feb-2025

Order No.: 104870 (CL6719)

Date Instructed: 26-Feb-2025

No. of Samples: 5

Turnaround (Wkdays): 5

Results Due: 04-Mar-2025

Date Approved: 21-Mar-2025

Approved By:

Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: 25/4047 - LHR042 Thorney Lane DC1

Client: Concept Engineering Consultants		Chemtest Job No.:		25-06427	25-06427	25-06427	25-06427	25-06427
Quotation No.: Q25-36897		Chemtest Sample ID.:		1937990	1937992	1937993	1937994	1937995
		Client Sample ID.:		32	34	35	36	37
		Sample Location:		BH25-02	DS25-18	DS25-18	DS25-04	DS25-04
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):		1.40	0.40	0.90	0.30	0.90
		Bottom Depth (m):		1.40	0.40	0.90	0.30	0.90
		Date Sampled:		20-Feb-2025	21-Feb-2025	21-Feb-2025	21-Feb-2025	21-Feb-2025
		Asbestos Lab:			DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD			
ACM Type		N	2192		N/A	Fibres/Clumps	-	-
Asbestos Identification		U	2192		N/A	Chrysotile	No Asbestos Detected	No Asbestos Detected
Asbestos by Gravimetry		U	2192	%	0.001	0.001		
Total Asbestos		U	2192	%	0.001	0.001		
Moisture		N	2030	%	0.020	9.0	10	14
Soil Colour		N	2040		N/A	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones
Soil Texture		N	2040		N/A	Sand	Loam	Clay
pH at 20C		M	2010		4.0	8.8	9.0	9.3
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	< 0.40	1.6	1.8
Cyanide (Total)		M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50
Arsenic		M	2455	mg/kg	0.5	6.0	9.6	12
Beryllium		U	2455	mg/kg	0.5	< 0.5	0.9	0.9
Cadmium		M	2455	mg/kg	0.10	< 0.10	0.26	0.33
Chromium		M	2455	mg/kg	0.5	11	23	27
Antimony		N	2455	mg/kg	2.0	< 2.0	< 2.0	< 2.0
Copper		M	2455	mg/kg	0.50	5.3	46	50
Mercury		M	2455	mg/kg	0.05	< 0.05	0.19	0.15
Nickel		M	2455	mg/kg	0.50	11	19	23
Lead		M	2455	mg/kg	0.50	5.1	89	97
Selenium		M	2455	mg/kg	0.25	0.39	0.56	0.76
Vanadium		U	2455	mg/kg	0.5	16	43	47
Zinc		M	2455	mg/kg	0.50	16	86	120
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50
Aliphatic VPH >C5-C6	HS 2D AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS 2D AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS 2D AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS 2D AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS 2D AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS 2D AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH 2D AL #1	M	2690	mg/kg	2.00	< 2.0	2.5	< 2.0
Aliphatic EPH >C12-C16 MC	EH 2D AL #1	M	2690	mg/kg	1.00	< 1.0	7.3	86
Aliphatic EPH >C16-C21 MC	EH 2D AL #1	M	2690	mg/kg	2.00	< 2.0	15	230
Aliphatic EPH >C21-C35 MC	EH 2D AL #1	M	2690	mg/kg	3.00	< 3.0	40	620
Aliphatic EPH >C35-C40 MC	EH 2D AL #1	N	2690	mg/kg	10.00	< 10	28	120
Total Aliphatic EPH >C10-C35 MC	EH 2D AL #1	M	2690	mg/kg	5.00	< 5.0	65	940
Total Aliphatic EPH >C10-C40 MC	EH 2D AL #1	N	2690	mg/kg	10.00	< 10	93	1100
Aromatic VPH >C5-C7	HS 2D AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS 2D AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05

Results - Soil

Project: 25/4047 - LHR042 Thorney Lane DC1

Client: Concept Engineering Consultants		Chemtest Job No.:		25-06427	25-06427	25-06427	25-06427	25-06427
Quotation No.: Q25-36897		Chemtest Sample ID.:		1937990	1937992	1937993	1937994	1937995
		Client Sample ID.:		32	34	35	36	37
		Sample Location:		BH25-02	DS25-18	DS25-18	DS25-04	DS25-04
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):		1.40	0.40	0.90	0.30	0.90
		Bottom Depth (m):		1.40	0.40	0.90	0.30	0.90
		Date Sampled:		20-Feb-2025	21-Feb-2025	21-Feb-2025	21-Feb-2025	21-Feb-2025
		Asbestos Lab:			DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD			
Aromatic VPH >C8-C10	HS 2D AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS 2D AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH 2D AR #1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH 2D AR #1	U	2690	mg/kg	1.00	< 1.0	< 1.0	33
Aromatic EPH >C16-C21 MC	EH 2D AR #1	U	2690	mg/kg	2.00	2.1	18	110
Aromatic EPH >C21-C35 MC	EH 2D AR #1	U	2690	mg/kg	2.00	< 2.0	50	110
Aromatic EPH >C35-C40 MC	EH 2D AR #1	N	2690	mg/kg	1.00	7.8	59	110
Total Aromatic EPH >C10-C35 MC	EH 2D AR #1	U	2690	mg/kg	5.00	< 5.0	68	260
Total Aromatic EPH >C10-C40 MC	EH 2D AR #1	N	2690	mg/kg	10.00	< 10	130	370
Total VPH >C5-C10	HS 2D Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH 2D Total #1	U	2690	mg/kg	10.00	< 10	130	1200
Total EPH >C10-C40 MC	EH 2D Total #1	N	2690	mg/kg	10.00	< 10	220	1400
Total Organic Carbon		M	2625	%	0.20	< 0.20	1.2	1.4
Benzene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010
Toluene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010
Ethylbenzene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010
m & p-Xylene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010
o-Xylene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010
Methyl Tert-Butyl Ether		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010
Naphthalene		M	2800	mg/kg	0.10	< 0.10	0.14	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	0.45	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	0.36	0.19
Fluorene		M	2800	mg/kg	0.10	< 0.10	0.42	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	< 0.10	3.4	1.5
Anthracene		M	2800	mg/kg	0.10	< 0.10	1.2	0.60
Fluoranthene		M	2800	mg/kg	0.10	0.12	6.3	3.0
Pyrene		M	2800	mg/kg	0.10	0.13	6.2	4.4
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	3.1	1.9
Chrysene		M	2800	mg/kg	0.10	< 0.10	2.6	2.2
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	3.5	2.6
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	1.4	1.2
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	3.0	2.0
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	1.8	1.5
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	0.41	0.66
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	1.6	1.3
Total Of 16 PAH's		N	2800	mg/kg	2.0	< 2.0	36	23
Total Phenols		M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10
PFAS Suite Soils		SN		µg/kg	0.0		See Attached	See Attached

Results - Single Stage WAC

Project: 25/4047 - LHR042 Thorney Lane DC1

Chemtest Job No: 25-06427						Landfill Waste Acceptance Criteria		
Chemtest Sample ID: 1937993						Limits		
Sample Ref:						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID: 35								
Sample Location: DS25-18								
Top Depth(m): 0.90								
Bottom Depth(m): 0.90								
Sampling Date: 21-Feb-2025								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	1.4	3	5	6
Loss On Ignition	2610		M	%	4.0	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	680	500	--	--
Total (Of 17) PAH's	2700		N	mg/kg	28	100	--	--
pH at 20C	2010		M		9.0	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.053	--	To evaluate	To evaluate
Eluate Analysis							Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg	
				10:1 Eluate mg/l	10:1 Eluate mg/kg			
Arsenic	1455		U	0.0011	0.011	0.5	2	25
Barium	1455		U	0.011	0.11	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0016	0.016	0.5	10	70
Copper	1455		U	0.0041	0.041	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0006	0.0062	0.5	10	30
Nickel	1455		U	0.0005	0.0054	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	0.0019	0.019	0.06	0.7	5
Selenium	1455		U	0.0006	0.0056	0.1	0.5	7
Zinc	1455		U	0.003	0.035	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.20	2.0	10	150	500
Sulphate	1220		U	27	270	1000	20000	50000
Total Dissolved Solids	1020		N	120	1200	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	< 2.5	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	16
WAC Sample Weight	3859

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25/4047 - LHR042 Thorney Lane DC1

Chemtest Job No: 25-06427						Landfill Waste Acceptance Criteria		
Chemtest Sample ID: 1937994						Limits		
Sample Ref:						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID: 36								
Sample Location: DS25-04								
Top Depth(m): 0.30								
Bottom Depth(m): 0.30								
Sampling Date: 21-Feb-2025								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	0.77	3	5	6
Loss On Ignition	2610		M	%	3.1	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	470	500	--	--
Total (Of 17) PAH's	2700		N	mg/kg	77	100	--	--
pH at 20C	2010		M		9.3	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.040	--	To evaluate	To evaluate
Eluate Analysis							Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg	
				10:1 Eluate mg/l	10:1 Eluate mg/kg			
Arsenic	1455		U	0.0023	0.023	0.5	2	25
Barium	1455		U	0.010	0.10	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0025	0.025	0.5	10	70
Copper	1455		U	0.0061	0.061	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0019	0.019	0.5	10	30
Nickel	1455		U	0.0010	0.0095	0.4	10	40
Lead	1455		U	0.0013	0.013	0.5	10	50
Antimony	1455		U	0.0023	0.023	0.06	0.7	5
Selenium	1455		U	0.0008	0.0082	0.1	0.5	7
Zinc	1455		U	0.008	0.075	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.21	2.1	10	150	500
Sulphate	1220		U	24	240	1000	20000	50000
Total Dissolved Solids	1020		N	120	1200	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	3.8	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	13
WAC Sample Weight	4085

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity at 25°C and Total Dissolved Solids (TDS) in Waters	Conductivity 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.	RE PW PL LE DW GW
1455	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).	RE PW PL SW DW GW
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation	PL SW GW
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.	
2010	pH Value of Soils	pH at 20°C	pH Meter	
2015	Acid Neutralisation Capacity	Acid Reserve	Titration	
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES	
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry	
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.	
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.	
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazine.	
2610	Loss on Ignition	loss on ignition (LOI)	Determination of the proportion by mass that is lost from a soil by ignition at 550°C.	
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.	
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil 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)	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8–C10 Aromatics: >C5–C7,>C7–C8,>C8–C10	Water extraction / Headspace GCxGC FID detection	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	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-MS	

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2815	Polychlorinated Biphenyls (PCB) ICES7 Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS. Reported PCB 101 results may contain contributions from PCB 90 due to inseparable chromatography.	
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and Trimethylphenols Note: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.	
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	Compliance Test for Leaching of Granular Waste Material and Sludge	
650	Characterisation of Waste (Leaching WAC)	Waste material including soil, sludges and granular waste	Compliance Test for Leaching of Granular Waste Material and Sludge	

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"
SOP	Standard operating procedure
LOD	Limit of detection

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

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 EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ 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.

NEW_ASB Eurofins Chemtest Limited, 11 Depot Road, Newmarket, CB8 0AL

DURHAM Eurofins Chemtest Limited, Unit A North Wing, Prospect Business Park, Crookhall Lane, Consett, Co Durham, DH8 7PW

Sample Deviation Codes

As a result of any of the below deviations applying, the test results may be unreliable

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 - The required amount of sample for analysis was not received

H - Appropriate cooling measures were not taken for sample transportation

Sample Retention and Disposal

All soil samples will be retained for a period of 30 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.

Report Information

Water Sample Category Key for Accreditation

DW - Drinking Water
GW - Ground Water
LE - Land Leachate
NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

Asbestos Tests LOD = LOQ

Limit of Detection = Limit of Quantification for asbestos results only

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

CERTIFICATE

Project code : 1886267
Your Project Description : 25-06427
Client : Eurofins Chemtest Ltd

Your Sample identification
8676299 = 1937993 DS25-18
8676300 = 1937994 DS25-04

Client sampling date	:	21/02/2025	21/02/2025
Date of receipt	:	04/03/2025	04/03/2025
Startdate	:	04/03/2025	04/03/2025
Reference number	:	8676299	8676300
Your Matrix	:	Soil	Soil

Sample preparation

S AS3000 (steekmonster)		done	done
cryogenic grinding		grinded	grinded
S weight of artifact	g	n.a.	n.a.
S type of artifact		n.v.t.	n.v.t.
S sample preparation		done	done

General analysis - physics

S dry weight	%	82,0	82,4

- The frontpage and, where applicable, appendices of this document are integral parts of this certificate.

- Analyses marked with a 'Q' are part of the RvA accreditation certificate L086.

- Analyses marked with a 'S' are part of the AS 3000 accreditation certificate.

Verificationcode: CLNA-KVJJ-LNCR-SFDQ

Ref.: 1886267_certificaat_v1

C E R T I F I C A T E

Project code : 1886267
Your Project Description : 25-06427
Client : Eurofins Chemtest Ltd

Your Sample identification
8676299 = 1937993 DS25-18
8676300 = 1937994 DS25-04

Client sampling date	:	21/02/2025	21/02/2025
Date of receipt	:	04/03/2025	04/03/2025
Startdate	:	04/03/2025	04/03/2025
Reference number	:	8676299	8676300
Your Matrix	:	Soil	Soil

Organic compounds - per- and polyfluoroalkylsubstances (PFAS) HPLC-MS/MS
Perfluorinated carboxylic acids:

S	PFBA	µg/kg dw	< 0,1	< 0,1
S	PFPeA	µg/kg dw	< 0,1	< 0,1
S	PFHxA	µg/kg dw	< 0,1	< 0,1
S	PFHpA	µg/kg dw	< 0,1	< 0,1
S	PFOA linear	µg/kg dw	0,1	< 0,1
S	PFOA branched	µg/kg dw	< 0,1	< 0,1
S	PFNA	µg/kg dw	< 0,1	< 0,1
S	PFDA	µg/kg dw	< 0,1	< 0,1
S	PFUnDA	µg/kg dw	< 0,1	< 0,1
S	PFDODA	µg/kg dw	< 0,1	< 0,1
S	PFTTrDA	µg/kg dw	< 0,1	< 0,1
S	PFTeDA	µg/kg dw	< 0,1	< 0,1
S	PFHxDA	µg/kg dw	< 0,1	< 0,1
S	PFODA	µg/kg dw	< 0,1	< 0,1

Perfluorinated sulfonic acids:

S	PFBS	µg/kg dw	< 0,1	< 0,1
S	PFPeS	µg/kg dw	< 0,1	< 0,1
S	PFHxS	µg/kg dw	< 0,1	< 0,1
S	PFHpS	µg/kg dw	< 0,1	< 0,1
S	PFOS linear	µg/kg dw	0,4	0,2
S	PFOS branched	µg/kg dw	< 0,1	< 0,1
S	PFDS	µg/kg dw	< 0,1	< 0,1

Perfluorinated alkyl substances - precursors:

S	4:2 FTS	µg/kg dw	< 0,1	< 0,1
S	6:2 FTS	µg/kg dw	< 0,1	< 0,1
S	8:2 FTS	µg/kg dw	< 0,1	< 0,1
S	10:2 FTS	µg/kg dw	< 0,1	< 0,1
S	PFOSA	µg/kg dw	< 0,1	< 0,1

Perfluorinated alkyl substances - remainder:

	HPFHpA	µg/kg dw	< 0,4	< 0,4
	4H-PFUnDA	µg/kg dw	< 0,4	< 0,4
	8:2 FTUCA	µg/kg dw	< 0,4	< 0,4
Q	9CI-PF3ONS (F53-B)	µg/kg dw	< 0,1	< 0,1
Q	ADONA	µg/kg dw	< 0,1	< 0,1
Q	EtFOSA	µg/kg dw	< 0,1	< 0,1
S	EtFOSAA	µg/kg dw	0,1	< 0,1
	MeFBSA	µg/kg dw	< 0,4	< 0,4
S	MeFOSAA	µg/kg dw	0,1	< 0,1
Q	P37DMOA	µg/kg dw	< 1	< 1
Q	PFBSA	µg/kg dw	< 0,1	< 0,1
S	MeFOSA	µg/kg dw	< 0,1	< 0,1
Q	MeFBSAA	µg/kg dw	< 0,1	< 0,1
S	8:2 DiPAP	µg/kg dw	< 0,1	< 0,1
S	HFPO-DA (GenX)	µg/kg dw	< 0,1	< 0,1

- The frontpage and, where applicable, appendices of this document are integral parts of this certificate.

- Analyses marked with a 'Q' are part of the RvA accreditation certificate L086.

- Analyses marked with a 'S' are part of the AS 3000 accreditation certificate.

Verificationcode: CLNA-KVJJ-LNCR-SFDQ

Ref.: 1886267_certificaat_v1

CERTIFICATE

Project code : 1886267
Your Project Description : 25-06427
Client : Eurofins Chemtest Ltd

Your Sample identification
8676299 = 1937993 DS25-18
8676300 = 1937994 DS25-04

Client sampling date	:	21/02/2025	21/02/2025
Date of receipt	:	04/03/2025	04/03/2025
Startdate	:	04/03/2025	04/03/2025
Reference number	:	8676299	8676300
Your Matrix	:	Soil	Soil

S som PFOA	µg/kg dw	0,2	0,1
S sum PFOS	µg/kg dw	0,5	0,3

C E R T I F I C A T E

Project code	:	1886267
Your Project Description	:	25-06427
Client	:	Eurofins Chemtest Ltd

Notes related to analyses

General comments

The following information has been provided by the client if applicable:

Project description, Sample identification, Client sampling date, Client Matrix, Sample depth, Pot number (Barcode), Field data, Field observations and sampling data. The client sampling date can affect the validity of the results.

Quantification of branched PFOS/POA is based on DIN 38414-14.

Summation of concentrations for group parameters

Summation is calculated according to AS3000 protocol, paragraph 2.5.2 and appendix 3.

Project Note(s):	- Quantification of HFPO-DA (GenX) is based on 2,3,3,3-tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-propanoic acid (CAS nr. 13252-13-6). Another name of GenX is perfluoro-2-propoxyrpropanoic acid (PFPrOPrA).

 CERTIFICATE

Project code : 1886267
 Your Project Description : 25-06427
 Client : Eurofins Chemtest Ltd

Appendix Index PFAS

PFAS component	Full name PFAS component
10:2 FTS	10:2 FTS (10:2 Fluorotelomer sulfonic acid)
4:2 FTS	4:2 FTS (4:2 Fluorotelomer sulfonic acid)
4H-PFUnDA	4H-PFUnDA (2H,2H,3H,3H-Perfluoroundecanoic acid)
6:2 FTS	6:2 FTS (6:2 Fluorotelomer sulfonic acid)
8:2 DiPAP	8:2 DiPAP (8:2 Fluorotelomer phosphate diester)
8:2 FTS	8:2 FTS (8:2 Fluorotelomer sulfonic acid)
8:2 FTUCA	8:2 FTUCA (8:2 Fluorotelomer unsaturated carboxylic acid)
9Cl-PF3ONS (F53-B)	9Cl-PF3ONS (F53-B) (9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid)
ADONA	ADONA (ammonium 4,8-dioxa-3H-perfluorononanoate)
EtFOSA	EtFOSA (N-ethyl perfluorooctanesulfonamide)
EtFOSAA	EtFOSAA (perfluorooctanesulfonylamide(N-ethyl)acetate)
HPFHpA	HPFHpA (7H-perfluoroheptanoic acid)
MeFBSA	MeFBSA (N-methylperfluorobutanesulfonylamide)
MeFBSAA	MeFBSAA (perfluorobutanesulfonylamide(N-methyl)acetate)
MeFOSA	MeFOSA (N-methyl perfluorooctanesulfonamide)
MeFOSAA	MeFOSAA (N-methyl perfluorooctanesulfonamidoacetic acid)
P37DMOA	P37DMOA (perfluoro-3,7-dimethyloctanoic acid)
PFBA	PFBA (perfluorobutanoic acid)
PFBS	PFBS (perfluorobutanesulfonic acid)
PFBSA	PFBSA (perfluorobutanesulfonamide)
PFDA	PFDA (perfluorodecanoic acid)
PFDoDA	PFDoDA (perfluorododecanoic acid)
PFDS	PFDS (perfluorodecanesulfonic acid)
PFHpA	PFHpA (perfluoroheptanoic acid)
PFHpS	PFHpS (perfluoroheptanesulfonic acid)
PFHxA	PFHxA (perfluorohexanoic acid)
PFHxDA	PFHxDA (perfluorohexadecanoic acid)
PFHxS	PFHxS (perfluorohexanesulfonic acid)
PFNA	PFNA (perfluorononanoic acid)
PFOA branched	PFOA branched (perfluorooctanoic acid)
PFOA linear	PFOA linear (perfluorooctanoic acid)
PFODA	PFODA (perfluorooctadecanoic acid)
PFOS branched	PFOS branched (perfluorooctanesulfonic acid)
PFOS linear	PFOS linear (perfluorooctanesulfonic acid)
PFOSA	PFOSA (perfluorooctanesulfonamide)
PFPeA	PFPeA (perfluoropentanoic acid)
PFPeS	PFPeS (perfluoropentanesulfonic acid)
PFTeDA	PFTeDA (perfluorotetradecanoic acid)
PFTTrDA	PFTTrDA (perfluorotridecanoic acid)
PFUnDA	PFUnDA (perfluoroundecanoic acid)

C E R T I F I C A T E

Project code : 1886267
Your Project Description : 25-06427
Client : Eurofins Chemtest Ltd

Methodology Soil (AS3000)**AS3000**

In dit analysecertificaat zijn de met 'S' gemerkte analyses uitgevoerd volgens de analysemethoden beschreven in het "Accreditatieschema Laboratoriumanalyses voor grond-, waterbodem- en grondwateronderzoek (AS SIKB 3000)". Het laboratoriumonderzoek is uitgevoerd volgens de onderstaande analysemethoden. Deze analyses zijn vastgelegd in het geldende accreditatie-certificaat met bijbehorende verrichtingenlijst L086 van Eurofins Omegam BV.

Samplemate : Conform AS3000 en NEN-EN 16179
Dry weight : Conform AS3010 prestatieblad 2
PFAS : Conform AS3080 prestatieblad 1
GenX : Conform AS3080 prestatieblad 2

In this certificate of analysis, the analysis marked with 'Q' have been carried out according to the analysis methods below. The analysis are registrated in the current accreditation certificate with associated annex to declaration of accreditation (scope of accreditation) L086 of Eurofins Omegam BV.

PFAS : In house method



Final Report

Report No.: 25-06759-1

Initial Date of Issue: 19-Mar-2025

Re-Issue Details:

Client Concept Engineering Consultants

Client Address: 47 - 49 Brunel Road
London
W3 7XR

Contact(s): Gabriela Mandache
Kasia Mazerant
Lab

Project 25/4047 - LHR042 Thorney Lane DC1

Quotation No.: Q25-36897 **Date Received:** 26-Feb-2025

Order No.: 104882 (CL6720) **Date Instructed:** 26-Feb-2025

No. of Samples: 6

Turnaround (Wkdays): 12 **Results Due:** 13-Mar-2025

Date Approved: 19-Mar-2025 **Subcon Results Due:** 19-Mar-2025

Approved By:

Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: 25/4047 - LHR042 Thorney Lane DC1

Client: Concept Engineering Consultants		Chemtest Job No.:				25-06759	25-06759	25-06759	25-06759	25-06759	25-06759
Quotation No.: Q25-36897		Chemtest Sample ID.:				1939278	1939284	1939285	1939287	1939288	1939289
		Client Sample ID.:				38	44	45	47	48	49
		Sample Location:				DS25-12	DS25-02	DS25-02	DS25-13	DS25-05	DS25-05
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				1.20	0.30	1.00	1.00	0.30	1.00
		Bottom Depth (m):				2.00	0.30	1.00	1.00	0.30	1.00
		Date Sampled:				24-Feb-2025	24-Feb-2025	24-Feb-2025	24-Feb-2025	24-Feb-2025	24-Feb-2025
		Asbestos Lab:				DURHAM		DURHAM		DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD						
ACM Type		N	2192		N/A	-		-		-	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected		No Asbestos Detected		No Asbestos Detected	No Asbestos Detected
Moisture		N	2030	%	0.020	23		9.3		9.4	9.4
Soil Colour		N	2040		N/A	Brown		Brown		Brown	Brown
Other Material		N	2040		N/A	Stones		Stones		Stones	Stones
Soil Texture		N	2040		N/A	Clay		Loam		Clay	Clay
pH at 20C		M	2010		4.0	9.3		9.6		10.7	8.9
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	0.93		0.47		0.69	< 0.40
Cyanide (Total)		M	2300	mg/kg	0.50	< 0.50		< 0.50		< 0.50	< 0.50
Arsenic		M	2455	mg/kg	0.5	9.4		12		6.7	14
Beryllium		U	2455	mg/kg	0.5	0.8		0.6		0.5	0.8
Cadmium		M	2455	mg/kg	0.10	0.18		0.11		0.13	0.13
Chromium		M	2455	mg/kg	0.5	24		16		18	27
Antimony		N	2455	mg/kg	2.0	< 2.0		< 2.0		< 2.0	< 2.0
Copper		M	2455	mg/kg	0.50	25		23		38	14
Mercury		M	2455	mg/kg	0.05	0.19		0.07		0.09	0.06
Nickel		M	2455	mg/kg	0.50	23		16		15	21
Lead		M	2455	mg/kg	0.50	60		34		42	18
Selenium		M	2455	mg/kg	0.25	1.2		0.90		0.70	0.84
Vanadium		U	2455	mg/kg	0.5	34		26		23	35
Zinc		M	2455	mg/kg	0.50	67		46		59	43
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50		< 0.50		< 0.50	< 0.50
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05		< 0.05		< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05		< 0.05		< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05		< 0.05		< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10		< 0.10		< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05		< 0.05		< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25		< 0.25		< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0		< 2.0		< 2.0	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	< 1.0		15		3.3	< 1.0
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	2.0		280		15	< 2.0
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	< 3.0		100		< 3.0	< 3.0
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	17		11		< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	< 5.0		400		21	< 5.0
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	17		410		21	< 10

Results - Soil

Project: 25/4047 - LHR042 Thorney Lane DC1

Client: Concept Engineering Consultants		Chemtest Job No.:				25-06759	25-06759	25-06759	25-06759	25-06759	25-06759
Quotation No.: Q25-36897		Chemtest Sample ID.:				1939278	1939284	1939285	1939287	1939288	1939289
		Client Sample ID.:				38	44	45	47	48	49
		Sample Location:				DS25-12	DS25-02	DS25-02	DS25-13	DS25-05	DS25-05
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				1.20	0.30	1.00	1.00	0.30	1.00
		Bottom Depth (m):				2.00	0.30	1.00	1.00	0.30	1.00
		Date Sampled:				24-Feb-2025	24-Feb-2025	24-Feb-2025	24-Feb-2025	24-Feb-2025	24-Feb-2025
		Asbestos Lab:				DURHAM		DURHAM		DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD						
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05		< 0.05		< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05		< 0.05		< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05		< 0.05		< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25		< 0.25		< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0		< 1.0		< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0		1.4		< 1.0	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	6.1		35		4.9	3.7
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	< 2.0		< 2.0		< 2.0	< 2.0
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	6.6		2.9		2.9	2.3
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	6.5		38		6.8	< 5.0
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	13		41		< 10	< 10
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50		< 0.50		< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	< 10		430		27	< 10
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	24		450		30	< 10
Total Organic Carbon		M	2625	%	0.20	0.87		< 0.20		0.40	< 0.20
Benzene		M	2760	mg/kg	0.0010	< 0.0010		< 0.0010		< 0.0010	< 0.0010
Toluene		M	2760	mg/kg	0.0010	< 0.0010		< 0.0010		< 0.0010	< 0.0010
Ethylbenzene		M	2760	mg/kg	0.0010	< 0.0010		< 0.0010		< 0.0010	< 0.0010
m & p-Xylene		M	2760	mg/kg	0.0010	< 0.0010		< 0.0010		< 0.0010	< 0.0010
o-Xylene		M	2760	mg/kg	0.0010	< 0.0010		< 0.0010		< 0.0010	< 0.0010
Methyl Tert-Butyl Ether		M	2760	mg/kg	0.0010	< 0.0010		< 0.0010		< 0.0010	< 0.0010
Naphthalene		M	2800	mg/kg	0.10	< 0.10		< 0.10		< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10		< 0.10		< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10		< 0.10		< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10		< 0.10		< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.15		0.24		< 0.10	< 0.10
Anthracene		M	2800	mg/kg	0.10	< 0.10		< 0.10		< 0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	0.21		0.44		0.16	< 0.10
Pyrene		M	2800	mg/kg	0.10	0.19		0.36		0.15	< 0.10
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10		< 0.10		< 0.10	< 0.10
Chrysene		M	2800	mg/kg	0.10	< 0.10		< 0.10		< 0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10		< 0.10		< 0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10		< 0.10		< 0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10		< 0.10		< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10		< 0.10		< 0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10		< 0.10		< 0.10	< 0.10

Results - Soil

Project: 25/4047 - LHR042 Thorney Lane DC1

Client: Concept Engineering Consultants		Chemtest Job No.:				25-06759	25-06759	25-06759	25-06759	25-06759	25-06759
Quotation No.: Q25-36897		Chemtest Sample ID.:				1939278	1939284	1939285	1939287	1939288	1939289
		Client Sample ID.:				38	44	45	47	48	49
		Sample Location:				DS25-12	DS25-02	DS25-02	DS25-13	DS25-05	DS25-05
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				1.20	0.30	1.00	1.00	0.30	1.00
		Bottom Depth (m):				2.00	0.30	1.00	1.00	0.30	1.00
		Date Sampled:				24-Feb-2025	24-Feb-2025	24-Feb-2025	24-Feb-2025	24-Feb-2025	24-Feb-2025
		Asbestos Lab:				DURHAM		DURHAM		DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD						
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10		0.24		< 0.10	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	< 2.0		< 2.0		< 2.0	< 2.0
Total Phenols		M	2920	mg/kg	0.10	< 0.10		< 0.10		< 0.10	< 0.10
PFAS Suite Soils		SN		µg/kg	0.0		See Attached		See Attached		See Attached

Results - Single Stage WAC

Project: 25/4047 - LHR042 Thorney Lane DC1

Chemtest Job No: 25-06759						Landfill Waste Acceptance Criteria		
Chemtest Sample ID: 1939285						Limits		
Sample Ref:						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID: 45								
Sample Location: DS25-02								
Top Depth(m): 1.00								
Bottom Depth(m): 1.00								
Sampling Date: 24-Feb-2025								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	< 0.20	3	5	6
Loss On Ignition	2610		M	%	2.6	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	< 10	500	--	--
Total (Of 17) PAH's	2700		N	mg/kg	2.5	100	--	--
pH at 20C	2010		M		9.6	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.023	--	To evaluate	To evaluate
Eluate Analysis					10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg	
Arsenic	1455		U	0.0013	0.013	0.5	2	25
Barium	1455		U	0.016	0.16	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0026	0.026	0.5	10	70
Copper	1455		U	0.0050	0.050	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0007	0.0070	0.5	10	30
Nickel	1455		U	0.0009	0.0088	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	0.0016	0.016	0.06	0.7	5
Selenium	1455		U	0.0006	0.0065	0.1	0.5	7
Zinc	1455		U	0.006	0.058	4	50	200
Chloride	1220		U	1.5	15	800	15000	25000
Fluoride	1220		U	0.22	2.2	10	150	500
Sulphate	1220		U	38	380	1000	20000	50000
Total Dissolved Solids	1020		N	220	2200	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	2.9	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	8.5
WAC Sample Weight	5641

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25/4047 - LHR042 Thorney Lane DC1

Chemtest Job No: 25-06759						Landfill Waste Acceptance Criteria		
Chemtest Sample ID: 1939288						Limits		
Sample Ref:						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID: 48								
Sample Location: DS25-05								
Top Depth(m): 0.30								
Bottom Depth(m): 0.30								
Sampling Date: 24-Feb-2025								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	0.40	3	5	6
Loss On Ignition	2610		M	%	2.1	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D Total	M	mg/kg	< 10	500	--	--
Total (Of 17) PAH's	2700		N	mg/kg	< 2.0	100	--	--
pH at 20C	2010		M		10.7	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.070	--	To evaluate	To evaluate
Eluate Analysis							Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg	
				10:1 Eluate mg/l	10:1 Eluate mg/kg			
Arsenic	1455		U	0.0012	0.012	0.5	2	25
Barium	1455		U	0.011	0.11	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0063	0.063	0.5	10	70
Copper	1455		U	0.012	0.12	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0005	0.0054	0.5	10	30
Nickel	1455		U	< 0.0005	< 0.0050	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	< 0.003	< 0.025	4	50	200
Chloride	1220		U	1.2	12	800	15000	25000
Fluoride	1220		U	0.21	2.1	10	150	500
Sulphate	1220		U	11	110	1000	20000	50000
Total Dissolved Solids	1020		N	210	2100	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	< 2.5	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	13
WAC Sample Weight	5025

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity at 25°C and Total Dissolved Solids (TDS) in Waters	Conductivity 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.	RE PW PL LE DW GW
1455	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).	RE PW PL SW DW GW
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation	PL SW GW
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.	
2010	pH Value of Soils	pH at 20°C	pH Meter	
2015	Acid Neutralisation Capacity	Acid Reserve	Titration	
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES	
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry	
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.	
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.	
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazine.	
2610	Loss on Ignition	loss on ignition (LOI)	Determination of the proportion by mass that is lost from a soil by ignition at 550°C.	
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.	
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenzo[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)	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8-C10 Aromatics: >C5–C7,>C7-C8,>C8–C10	Water extraction / Headspace GCxGC FID detection	

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	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-MS	
2815	Polychlorinated Biphenyls (PCB) ICES7Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS. Reported PCB 101 results may contain contributions from PCB 90 due to inseparable chromatography.	
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.	
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge	
650	Characterisation of Waste (Leaching WAC)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge	

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"
SOP	Standard operating procedure
LOD	Limit of detection

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

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 EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ 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.

NEW_ASB	Eurofins Chemtest Limited, 11 Depot Road, Newmarket, CB8 0AL
DURHAM	Eurofins Chemtest Limited, Unit A North Wing, Prospect Business Park, Crookhall Lane, Consett, Co Durham, DH8 7PW

Sample Deviation Codes

As a result of any of the below deviations applying, the test results may be unreliable

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 - The required amount of sample for analysis was not received

H - Appropriate cooling measures were not taken for sample transportation

Sample Retention and Disposal

All soil samples will be retained for a period of 30 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.

Report Information

Water Sample Category Key for Accreditation

DW - Drinking Water
GW - Ground Water
LE - Land Leachate
NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

Asbestos Tests LOD = LOQ

Limit of Detection = Limit of Quantification for asbestos results only

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

C E R T I F I C A T E

Project code : 1886270
Your Project Description : 25-06759
Client : Eurofins Chemtest Ltd

Your Sample identification

8676307 = 1939284 - DS25-02 0.30

8676308 = 1939287 - DS25-13 1.00

8676309 = 1939289 - DS25-05 1.00

Client sampling date	:	24/02/2025	24/02/2025	24/02/2025
Date of receipt	:	04/03/2025	04/03/2025	04/03/2025
Startdate	:	04/03/2025	04/03/2025	04/03/2025
Reference number	:	8676307	8676308	8676309
Your Matrix	:	Soil	Soil	Soil

Sample preparation

S AS3000 (steekmonster)		done	done	done
cryogenic grinding		grinded	grinded	
S weight of artifact	g	n.a.	n.a.	n.a.
S type of artifact		n.v.t.	n.v.t.	n.v.t.
S sample preparation		done	done	done

General analysis - physics

S dry weight	%	89,5	82,0	92,9

CERTIFICATE

Project code : 1886270
 Your Project Description : 25-06759
 Client : Eurofins Chemtest Ltd

Your Sample identification

8676307 = 1939284 - DS25-02 0.30

8676308 = 1939287 - DS25-13 1.00

8676309 = 1939289 - DS25-05 1.00

Client sampling date	:	24/02/2025	24/02/2025	24/02/2025
Date of receipt	:	04/03/2025	04/03/2025	04/03/2025
Startdate	:	04/03/2025	04/03/2025	04/03/2025
Reference number	:	8676307	8676308	8676309
Your Matrix	:	Soil	Soil	Soil

Organic compounds - per- and polyfluoroalkylsubstances (PFAS) HPLC-MS/MS

Perfluorinated carboxylic acids:

S PFBA	µg/kg dw	< 0,1	0,2	< 0,1
S PFPeA	µg/kg dw	< 0,1	< 0,1	< 0,1
S PFHxA	µg/kg dw	< 0,1	< 0,1	< 0,1
S PFHpA	µg/kg dw	< 0,1	< 0,1	< 0,1
S PFOA linear	µg/kg dw	< 0,1	< 0,1	< 0,1
S PFOA branched	µg/kg dw	< 0,1	< 0,1	< 0,1
S PFNA	µg/kg dw	< 0,1	< 0,1	< 0,1
S PFDA	µg/kg dw	< 0,1	< 0,1	< 0,1
S PFUnDA	µg/kg dw	< 0,1	< 0,1	< 0,1
S PFDoDA	µg/kg dw	< 0,1	< 0,1	< 0,1
S PFTTrDA	µg/kg dw	< 0,1	< 0,1	< 0,1
S PFTeDA	µg/kg dw	< 0,1	< 0,1	< 0,1
S PFHxDA	µg/kg dw	< 0,1	< 0,1	< 0,1
S PFODA	µg/kg dw	< 0,1	< 0,1	< 0,1

Perfluorinated sulfonic acids:

S PFBS	µg/kg dw	< 0,1	< 0,1	< 0,1
S PFPeS	µg/kg dw	< 0,1	< 0,1	< 0,1
S PFHxS	µg/kg dw	< 0,1	< 0,1	< 0,1
S PFHpS	µg/kg dw	< 0,1	< 0,1	< 0,1
S PFOS linear	µg/kg dw	< 0,1	0,2	< 0,1
S PFOS branched	µg/kg dw	< 0,1	< 0,1	< 0,1
S PFDS	µg/kg dw	< 0,1	< 0,1	< 0,1

Perfluorinated alkyl substances - precursors:

S 4:2 FTS	µg/kg dw	< 0,1	< 0,1	< 0,1
S 6:2 FTS	µg/kg dw	< 0,1	< 0,1	< 0,1
S 8:2 FTS	µg/kg dw	< 0,1	< 0,1	< 0,1
S 10:2 FTS	µg/kg dw	< 0,1	< 0,1	< 0,1
S PFOSA	µg/kg dw	< 0,1	< 0,1	< 0,1

Perfluorinated alkyl substances - remainder:

HPFHpA	µg/kg dw	< 0,4	< 0,4	< 0,4
4H-PFUnDA	µg/kg dw	< 0,4	< 0,4	< 0,4
8:2 FTUCA	µg/kg dw	< 0,4	< 0,4	< 0,4
Q 9CI-PF3ONS (F53-B)	µg/kg dw	< 0,1	< 0,1	< 0,1
Q ADONA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q EtFOSA	µg/kg dw	< 0,1	< 0,1	< 0,1
S EtFOSAA	µg/kg dw	< 0,1	< 0,1	< 0,1
MeFBSA	µg/kg dw	< 0,4	< 0,4	< 0,4
S MeFOSAA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q P37DMOA	µg/kg dw	< 1	< 1	< 1
Q PFBSA	µg/kg dw	< 0,1	< 0,1	< 0,1
S MeFOSA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q MeFBSAA	µg/kg dw	< 0,1	< 0,1	< 0,1
S 8:2 DiPAP	µg/kg dw	< 0,1	< 0,1	< 0,1
S HFPO-DA (GenX)	µg/kg dw	< 0,1	< 0,1	< 0,1

- The frontpage and, where applicable, appendices of this document are integral parts of this certificate.

- Analyses marked with a 'Q' are part of the RvA accreditation certificate L086.

- Analyses marked with a 'S' are part of the AS 3000 accreditation certificate.

Verificationcode: YEVF-XRAE-ZDFT-BSKH

Ref.: 1886270_certificaat_v3

CERTIFICATE

Project code : 1886270
Your Project Description : 25-06759
Client : Eurofins Chemtest Ltd

Your Sample identification

8676307 = 1939284 - DS25-02 0.30

8676308 = 1939287 - DS25-13 1.00

8676309 = 1939289 - DS25-05 1.00

Client sampling date	:	24/02/2025	24/02/2025	24/02/2025
Date of receipt	:	04/03/2025	04/03/2025	04/03/2025
Startdate	:	04/03/2025	04/03/2025	04/03/2025
Reference number	:	8676307	8676308	8676309
Your Matrix	:	Soil	Soil	Soil

S som PFOA	µg/kg dw	0,1	0,1	0,1
S sum PFOS	µg/kg dw	0,1	0,3	0,1

C E R T I F I C A T E

Project code	:	1886270
Your Project Description	:	25-06759
Client	:	Eurofins Chemtest Ltd

Notes related to analyses

General comments

The following information has been provided by the client if applicable:

Project description, Sample identification, Client sampling date, Client Matrix, Sample depth, Pot number (Barcode), Field data, Field observations and sampling data. The client sampling date can affect the validity of the results.

Quantification of branched PFOS/POA is based on DIN 38414-14.

Summation of concentrations for group parameters

Summation is calculated according to AS3000 protocol, paragraph 2.5.2 and appendix 3.

Project Note(s):	- Quantification of HFPO-DA (GenX) is based on 2,3,3,3-tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-propanoic acid (CAS nr. 13252-13-6). Another name of GenX is perfluoro-2-propoxyrpropanoic acid (PFPrOPrA).

C E R T I F I C A T E

Project code : 1886270
Your Project Description : 25-06759
Client : Eurofins Chemtest Ltd

Appendix Index PFAS

PFAS component	Full name PFAS component
10:2 FTS	10:2 FTS (10:2 Fluorotelomer sulfonic acid)
4:2 FTS	4:2 FTS (4:2 Fluorotelomer sulfonic acid)
4H-PFUnDA	4H-PFUnDA (2H,2H,3H,3H-Perfluoroundecanoic acid)
6:2 FTS	6:2 FTS (6:2 Fluorotelomer sulfonic acid)
8:2 DiPAP	8:2 DiPAP (8:2 Fluorotelomer phosphate diester)
8:2 FTS	8:2 FTS (8:2 Fluorotelomer sulfonic acid)
8:2 FTUCA	8:2 FTUCA (8:2 Fluorotelomer unsaturated carboxylic acid)
9Cl-PF3ONS (F53-B)	9Cl-PF3ONS (F53-B) (9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid)
ADONA	ADONA (ammonium 4,8-dioxa-3H-perfluorononanoate)
EtFOSA	EtFOSA (N-ethyl perfluorooctanesulfonamide)
EtFOSAA	EtFOSAA (perfluorooctanesulfonylamide(N-ethyl)acetate)
HPFHpA	HPFHpA (7H-perfluoroheptanoic acid)
MeFBSA	MeFBSA (N-methylperfluorobutanesulfonylamide)
MeFBSAA	MeFBSAA (perfluorobutanesulfonylamide(N-methyl)acetate)
MeFOSA	MeFOSA (N-methyl perfluorooctanesulfonamide)
MeFOSAA	MeFOSAA (N-methyl perfluorooctanesulfonamidoacetic acid)
P37DMOA	P37DMOA (perfluoro-3,7-dimethyloctanoic acid)
PFBA	PFBA (perfluorobutanoic acid)
PFBS	PFBS (perfluorobutanesulfonic acid)
PFBSA	PFBSA (perfluorobutanesulfonamide)
PFDA	PFDA (perfluorodecanoic acid)
PFDoDA	PFDoDA (perfluorododecanoic acid)
PFDS	PFDS (perfluorodecanesulfonic acid)
PFHhA	PFHhA (perfluoroheptanoic acid)
PFHhS	PFHhS (perfluoroheptanesulfonic acid)
PFHxA	PFHxA (perfluorohexanoic acid)
PFHxDA	PFHxDA (perfluorohexadecanoic acid)
PFHxS	PFHxS (perfluorohexanesulfonic acid)
PFNA	PFNA (perfluorononanoic acid)
PFOA branched	PFOA branched (perfluorooctanoic acid)
PFOA linear	PFOA linear (perfluorooctanoic acid)
PFODA	PFODA (perfluorooctadecanoic acid)
PFOS branched	PFOS branched (perfluorooctanesulfonic acid)
PFOS linear	PFOS linear (perfluorooctanesulfonic acid)
PFOSA	PFOSA (perfluorooctanesulfonamide)
PFPeA	PFPeA (perfluoropentanoic acid)
PFPeS	PFPeS (perfluoropentanesulfonic acid)
PFTeDA	PFTeDA (perfluorotetradecanoic acid)
PFTTrDA	PFTTrDA (perfluorotridecanoic acid)
PFUnDA	PFUnDA (perfluoroundecanoic acid)

C E R T I F I C A T E

Project code : 1886270
Your Project Description : 25-06759
Client : Eurofins Chemtest Ltd

Methodology Soil (AS3000)

AS3000

In dit analysecertificaat zijn de met 'S' gemerkte analyses uitgevoerd volgens de analysemethoden beschreven in het "Accreditatieschema Laboratoriumanalyses voor grond-, waterbodem- en grondwateronderzoek (AS SIKB 3000)". Het laboratoriumonderzoek is uitgevoerd volgens de onderstaande analysemethoden. Deze analyses zijn vastgelegd in het geldende accreditatie-certificaat met bijbehorende verrichtingenlijst L086 van Eurofins Omegam BV.

Samplemate : Conform AS3000 en NEN-EN 16179
Dry weight : Conform AS3010 prestatieblad 2
PFAS : Conform AS3080 prestatieblad 1
GenX : Conform AS3080 prestatieblad 2

In this certificate of analysis, the analysis marked with 'Q' have been carried out according to the analysis methods below. The analysis are registered in the current accreditation certificate with associated annex to declaration of accreditation (scope of accreditation) L086 of Eurofins Omegam BV.

PFAS : In house method

Final Report

Report No.: 25-07057-1

Initial Date of Issue: 08-Apr-2025

Re-Issue Details:

Client Concept Engineering Consultants

Client Address: 47 - 49 Brunel Road
London
W3 7XR

Contact(s): Gabriela Mandache
Kasia Mazerant
Lab

Project 25/4047- LHR042 Thorney Lane DC1

Quotation No.: Q25-36897 **Date Received:** 02-Mar-2025

Order No.: 104928 (CL6733) **Date Instructed:** 06-Mar-2025

No. of Samples: 7

Turnaround (Wkdays): 24 **Results Due:** 08-Apr-2025

Date Approved: 08-Apr-2025 **Subcon Results Due:** 08-Apr-2025

Approved By:



Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: 25/4047- LHR042 Thorney Lane DC1

Client: Concept Engineering Consultants		Chemtest Job No.:		25-07057	25-07057	25-07057	25-07057	25-07057	25-07057
Quotation No.: Q25-36897		Chemtest Sample ID.:		1940523	1940524	1940530	1940531	1940532	1940533
		Sample Location:		DS25-13	DS25-13	DS25-07	DS25-03	DS25-03	DS25-11
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):		1.70	2.70	1.00	0.30	1.00	1.50
		Bottom Depth (m):		1.70	2.70	1.00	0.30	1.00	1.50
		Date Sampled:		25-Feb-2025	25-Feb-2025	25-Feb-2025	25-Feb-2025	25-Feb-2025	25-Feb-2025
		Asbestos Lab:		NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
ACM Type		N	2192		N/A	-	-	-	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture		N	2030	%	0.020	16	15	11	14
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones
Soil Texture		N	2040		N/A	Clay	Clay	Sand	Loam
pH at 20C		U	2010		4.0	9.3	9.8	10.6	10.7
Boron (Hot Water Soluble)		U	2120	mg/kg	0.40	0.55	< 0.40	0.68	0.81
Cyanide (Total)		U	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Arsenic		U	2455	mg/kg	0.5	10	7.8	8.1	10
Beryllium		U	2455	mg/kg	0.5	0.9	< 0.5	< 0.5	0.6
Cadmium		U	2455	mg/kg	0.10	0.21	< 0.10	0.10	0.20
Chromium		U	2455	mg/kg	0.5	28	13	18	130
Antimony		N	2455	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0
Copper		U	2455	mg/kg	0.50	20	8.4	15	22
Mercury		U	2455	mg/kg	0.05	0.24	0.07	0.07	0.14
Nickel		U	2455	mg/kg	0.50	24	12	8.7	16
Lead		U	2455	mg/kg	0.50	56	11	21	64
Selenium		U	2455	mg/kg	0.25	0.64	0.33	< 0.25	0.37
Vanadium		U	2455	mg/kg	0.5	34	17	20	35
Zinc		U	2455	mg/kg	0.50	67	26	27	72
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Aliphatic VPH >C5-C6	HS_2D_AL	S	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C6-C8	HS_2D_AL	S	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic Total >C05-C35	HS_2D_AL	SN	2780	mg/kg	19.00	220	57	500	150
Aromatic Total >C05-C35	HS_2D_AL	S	2780	mg/kg	19.00	110	57	1000	150
Ali Aro Total >C05-C35	HS_2D_AL	SN	2780	mg/kg	38.00	330	57	1000	300
Aliphatic VPH >C8-C10	HS_2D_AL	SN	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic EPH >C10-C12	EH_2D_AL_#1	S	2690	mg/kg	0.20	1.1	< 1.00	< 1.00	2.0
Aliphatic EPH >C12-C16	EH_2D_AL_#1	S	2690	mg/kg	4.00	21	< 4.0	17	7.5
Aliphatic EPH >C16-C21	EH_2D_AL_#1	S	2690	mg/kg	7.00	80	18	110	31
Aliphatic EPH >C21-C35	EH_2D_AL_#1	S	2690	mg/kg	7.00	120	35	370	110
Aromatic VPH >C5-C7	HS_2D_AR	S	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic VPH >C7-C8	HS_2D_AR	S	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic VPH >C8-C10	HS_2D_AR	S	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic EPH >C10-C12	EH_2D_AR_#1	S	2690	mg/kg	0.20	< 1.00	< 1.00	1.4	< 1.00

Results - Soil

Project: 25/4047- LHR042 Thorney Lane DC1

Client: Concept Engineering Consultants		Chemtest Job No.:				25-07057	25-07057	25-07057	25-07057	25-07057	25-07057
Quotation No.: Q25-36897		Chemtest Sample ID.:				1940523	1940524	1940530	1940531	1940532	1940533
		Sample Location:				DS25-13	DS25-13	DS25-07	DS25-03	DS25-03	DS25-11
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				1.70	2.70	1.00	0.30	1.00	1.50
		Bottom Depth (m):				1.70	2.70	1.00	0.30	1.00	1.50
		Date Sampled:				25-Feb-2025	25-Feb-2025	25-Feb-2025	25-Feb-2025	25-Feb-2025	25-Feb-2025
		Asbestos Lab:				NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB
Determinand	HWOL Code	Accred.	SOP	Units	LOD						
Aromatic EPH >C12-C16	EH_2D_AR_#1	S	2690	mg/kg	4.00	7.7	< 4.0	21	< 4.0	< 4.0	36
Aromatic EPH >C16-C21	EH_2D_AR_#1	S	2690	mg/kg	7.00	44	< 10.00	100	28	32	410
Aromatic EPH >C21-C35	EH_2D_AR_#1	S	2690	mg/kg	7.00	56	< 10.00	380	120	120	170
Total Organic Carbon		U	2625	%	0.20	0.49	0.34	1.7	0.79	0.90	2.3
Benzene		U	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Toluene		U	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Ethylbenzene		U	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
m & p-Xylene		U	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
o-Xylene		U	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Methyl Tert-Butyl Ether		U	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Naphthalene		U	2800	mg/kg	0.10	< 0.10	< 0.10	0.20	< 0.10	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	0.17	< 0.10	< 0.10	< 0.10
Acenaphthene		U	2800	mg/kg	0.10	< 0.10	< 0.10	0.24	< 0.10	< 0.10	< 0.10
Fluorene		U	2800	mg/kg	0.10	< 0.10	< 0.10	0.26	< 0.10	< 0.10	< 0.10
Phenanthrene		U	2800	mg/kg	0.10	1.6	< 0.10	10	0.71	0.21	1.6
Anthracene		U	2800	mg/kg	0.10	0.24	< 0.10	0.98	0.17	< 0.10	0.15
Fluoranthene		U	2800	mg/kg	0.10	2.2	< 0.10	8.7	1.4	0.46	1.1
Pyrene		U	2800	mg/kg	0.10	1.7	< 0.10	6.5	1.5	0.70	1.1
Benzo[a]anthracene		U	2800	mg/kg	0.10	0.72	< 0.10	2.3	0.69	0.34	0.50
Chrysene		U	2800	mg/kg	0.10	0.61	< 0.10	2.7	0.76	0.33	0.49
Benzo[b]fluoranthene		U	2800	mg/kg	0.10	0.93	< 0.10	2.6	0.99	< 0.10	< 0.10
Benzo[k]fluoranthene		U	2800	mg/kg	0.10	0.36	< 0.10	0.98	0.36	< 0.10	< 0.10
Benzo[a]pyrene		U	2800	mg/kg	0.10	0.64	< 0.10	1.8	0.78	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		U	2800	mg/kg	0.10	0.46	< 0.10	1.3	0.47	< 0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	0.24	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		U	2800	mg/kg	0.10	0.59	< 0.10	1.2	0.42	< 0.10	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	10	< 2.0	40	8.3	2.0	4.9
Total Phenols		U	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
PFAS Suite Soils		SN		µg/kg	0.0			See Attached	See Attached		

Results - Single Stage WAC

Project: 25/4047- LHR042 Thorney Lane DC1

Project: 2016-17 Ennore Thorey Landfill						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-07057 Chemtest Sample ID: 1940522 Sample Ref: Sample ID: Sample Location: DS25-16 Top Depth(m): 1.80 Bottom Depth(m): 1.80 Sampling Date: 25-Feb-2025						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		U	%	0.46	3	5	6
Loss On Ignition	2610		U	%	3.8	--	--	10
Total BTEX	2760		U	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		U	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	U	mg/kg	< 10	500	--	--
Total (Of 17) PAH's	2700		N	mg/kg	< 2.0	100	--	--
pH at 20C	2010		U		8.6	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.015	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0012	0.012	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	< 0.0005	< 0.0050	0.5	10	70
Copper	1455		U	0.0029	0.029	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0011	0.011	0.5	10	30
Nickel	1455		U	0.0010	0.010	0.4	10	40
Lead	1455		U	0.0008	0.0082	0.5	10	50
Antimony	1455		U	0.0009	0.0092	0.06	0.7	5
Selenium	1455		U	0.0090	0.090	0.1	0.5	7
Zinc	1455		U	0.003	0.033	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.26	2.6	10	150	500
Sulphate	1220		U	12	120	1000	20000	50000
Total Dissolved Solids	1020		N	30	300	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	2.6	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	3.0
WAC Sample Weight	[E] 747.0

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25/4047- LHR042 Thorney Lane DC1

Chemtest Job No: 25-07057						Landfill Waste Acceptance Criteria		
Chemtest Sample ID: 1940524						Limits		
Sample Ref:						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:								
Sample Location: DS25-13								
Top Depth(m): 2.70								
Bottom Depth(m): 2.70								
Sampling Date: 25-Feb-2025								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		U	%	0.34	3	5	6
Loss On Ignition	2610		U	%	3.2	--	--	10
Total BTEX	2760		U	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		U	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D Total	U	mg/kg	140	500	--	--
Total (Of 17) PAH's	2700		N	mg/kg	< 2.0	100	--	--
pH at 20C	2010		U		9.8	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.0040	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.022	0.22	0.5	2	25
Barium	1455		U	0.018	0.18	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0007	0.0073	0.5	10	70
Copper	1455		U	0.014	0.14	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0034	0.034	0.5	10	30
Nickel	1455		U	0.0026	0.026	0.4	10	40
Lead	1455		U	0.0018	0.018	0.5	10	50
Antimony	1455		U	0.0026	0.026	0.06	0.7	5
Selenium	1455		U	0.0039	0.039	0.1	0.5	7
Zinc	1455		U	0.005	0.048	4	50	200
Chloride	1220		U	2.2	22	800	15000	25000
Fluoride	1220		U	0.19	1.9	10	150	500
Sulphate	1220		U	11	110	1000	20000	50000
Total Dissolved Solids	1020		N	110	1100	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	8.0	80	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	12
WAC Sample Weight	[E] 1181

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25/4047- LHR042 Thorney Lane DC1

Project: E0104 - ENKORE - Murrey Lane DC						Landfill Waste Acceptance Criteria Limits		
Chemtest Job No: 25-07057		Chemtest Sample ID: 1940532		Inert Waste Landfill		Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill	
Sample Ref:								
Sample ID:								
Sample Location: DS25-03								
Top Depth(m): 1.00								
Bottom Depth(m): 1.00								
Sampling Date: 25-Feb-2025								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		U	%	0.90	3	5	6
Loss On Ignition	2610		U	%	3.5	--	--	10
Total BTEX	2760		U	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		U	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	U	mg/kg	< 10	500	--	--
Total (Of 17) PAH's	2700		N	mg/kg	4.2	100	--	--
pH at 20C	2010		U		10.9	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.018	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0032	0.032	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0007	0.0070	0.5	10	70
Copper	1455		U	0.0029	0.029	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0004	0.0042	0.5	10	30
Nickel	1455		U	< 0.0005	< 0.0050	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	0.0013	0.013	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.003	0.034	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.22	2.2	10	150	500
Sulphate	1220		U	17	170	1000	20000	50000
Total Dissolved Solids	1020		N	95	950	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	3.6	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	9.5
WAC Sample Weight	2512

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request. The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

Sample:	Sample Ref:	Sample ID:	Sample Location:	Sampled Date:	Deviation Code(s):	Containers Received:
1940522			DS25-16	25-Feb-2025	E	Amber Glass 250ml
1940522			DS25-16	25-Feb-2025	E	Amber Glass 60ml
1940522			DS25-16	25-Feb-2025	E	Plastic Tub 1000g
1940524			DS25-13	25-Feb-2025	E	Amber Glass 250ml
1940524			DS25-13	25-Feb-2025	E	Amber Glass 60ml
1940524			DS25-13	25-Feb-2025	E	Plastic Tub 1000g

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity at 25°C and Total Dissolved Solids (TDS) in Waters	Conductivity 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.	RE PW PL LE DW GW
1455	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).	RE PW PL SW DW GW
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation	PL SW GW
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.	
2010	pH Value of Soils	pH at 20°C	pH Meter	
2015	Acid Neutralisation Capacity	Acid Reserve	Titration	
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES	
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry	
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.	
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.	
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazine.	
2610	Loss on Ignition	loss on ignition (LOI)	Determination of the proportion by mass that is lost from a soil by ignition at 550°C.	
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.	
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil 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)	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8-C10 Aromatics: >C5–C7,>C7-C8,>C8–C10	Water extraction / Headspace GCxGC FID detection	

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	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-MS	
2815	Polychlorinated Biphenyls (PCB) ICES7Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS. Reported PCB 101 results may contain contributions from PCB 90 due to inseparable chromatography.	
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.	
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge	
650	Characterisation of Waste (Leaching WAC)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge	

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"
SOP	Standard operating procedure
LOD	Limit of detection

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

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 EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ 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.

NEW_ASB Eurofins Chemtest Limited, 11 Depot Road, Newmarket, CB8 0AL

DURHAM Eurofins Chemtest Limited, Unit A North Wing, Prospect Business Park, Crookhall Lane, Consett, Co Durham, DH8 7PW

Sample Deviation Codes

As a result of any of the below deviations applying, the test results may be unreliable

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 - The required amount of sample for analysis was not received

H - Appropriate cooling measures were not taken for sample transportation

Sample Retention and Disposal

All soil samples will be retained for a period of 30 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.

Report Information

Water Sample Category Key for Accreditation

DW - Drinking Water
GW - Ground Water
LE - Land Leachate
NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

Asbestos Tests LOD = LOQ

Limit of Detection = Limit of Quantification for asbestos results only

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

C E R T I F I C A T E

Project code : 1892466
Your Project Description : 25-07057
Client : Eurofins Chemtest Ltd

Your Sample identification

8694849 = 1940530 DS25-07 at 1.00

8694850 = 1940531 DS25-03 at 0.30

Client sampling date	:	25/02/2025	25/02/2025
Date of receipt	:	14/03/2025	14/03/2025
Startdate	:	14/03/2025	14/03/2025
Reference number	:	8694849	8694850
Your Matrix	:	Soil	Soil

Sample preparation

S AS3000 (steekmonster)		done	done
cryogenic grinding		grinded	grinded
S weight of artifact	g	n.a.	n.a.
S type of artifact		n.v.t.	n.v.t.
S sample preparation		done	done

General analysis - physics

S dry weight	%	83,8	83,8

C E R T I F I C A T E

Project code : 1892466
Your Project Description : 25-07057
Client : Eurofins Chemtest Ltd

Your Sample identification

8694849 = 1940530 DS25-07 at 1.00

8694850 = 1940531 DS25-03 at 0.30

Client sampling date	:	25/02/2025	25/02/2025
Date of receipt	:	14/03/2025	14/03/2025
Startdate	:	14/03/2025	14/03/2025
Reference number	:	8694849	8694850
Your Matrix	:	Soil	Soil

Organic compounds - per- and polyfluoroalkylsubstances (PFAS) HPLC-MS/MS*Perfluorinated carboxylic acids:*

S	PFBA	µg/kg dw	< 0,1	< 0,1
S	PFPeA	µg/kg dw	< 0,1	< 0,1
S	PFHxA	µg/kg dw	< 0,1	< 0,1
S	PFHpA	µg/kg dw	< 0,1	< 0,1
S	PFOA linear	µg/kg dw	< 0,1	< 0,1
S	PFOA branched	µg/kg dw	< 0,1	< 0,1
S	PFNA	µg/kg dw	< 0,1	< 0,1
S	PFDA	µg/kg dw	< 0,1	< 0,1
S	PFUnDA	µg/kg dw	< 0,1	< 0,1
S	PFDODA	µg/kg dw	< 0,1	< 0,1
S	PFTTrDA	µg/kg dw	< 0,1	< 0,1
S	PFTeDA	µg/kg dw	< 0,1	< 0,1
S	PFHxDA	µg/kg dw	< 0,1	< 0,1
S	PFODA	µg/kg dw	< 0,1	< 0,1

Perfluorinated sulfonic acids:

S	PFBS	µg/kg dw	< 0,1	< 0,1
S	PFPeS	µg/kg dw	< 0,1	< 0,1
S	PFHxS	µg/kg dw	< 0,1	< 0,1
S	PFHpS	µg/kg dw	< 0,1	< 0,1
S	PFOS linear	µg/kg dw	< 0,1	0,1
S	PFOS branched	µg/kg dw	< 0,1	< 0,1
S	PFDS	µg/kg dw	< 0,1	< 0,1

Perfluorinated alkyl substances - precursors:

S	4:2 FTS	µg/kg dw	< 0,1	< 0,1
S	6:2 FTS	µg/kg dw	< 0,1	< 0,1
S	8:2 FTS	µg/kg dw	< 0,1	< 0,1
S	10:2 FTS	µg/kg dw	< 0,1	< 0,1
S	PFOSA	µg/kg dw	< 0,1	< 0,1

Perfluorinated alkyl substances - remainder:

	HPFHpA	µg/kg dw	< 0,4	< 0,4
	4H-PFUnDA	µg/kg dw	< 0,4	< 0,4
	8:2 FTUCA	µg/kg dw	< 0,4	< 0,4
Q	9CI-PF3ONS (F53-B)	µg/kg dw	< 0,1	< 0,1
Q	ADONA	µg/kg dw	< 0,1	< 0,1
Q	EtFOSA	µg/kg dw	< 0,1	< 0,1
S	EtFOSAA	µg/kg dw	< 0,1	< 0,1
	MeFBSA	µg/kg dw	< 0,4	< 0,4
S	MeFOSAA	µg/kg dw	< 0,1	< 0,1
Q	P37DMOA	µg/kg dw	< 1	< 1
Q	PFBSA	µg/kg dw	< 0,1	< 0,1
S	MeFOSA	µg/kg dw	< 0,1	< 0,1
Q	MeFBSAA	µg/kg dw	< 0,1	< 0,1
S	8:2 DiPAP	µg/kg dw	< 0,1	< 0,1
S	HFPO-DA (GenX)	µg/kg dw	< 0,1	< 0,1

- The frontpage and, where applicable, appendices of this document are integral parts of this certificate.

- Analyses marked with a 'Q' are part of the RvA accreditation certificate L086.

- Analyses marked with a 'S' are part of the AS 3000 accreditation certificate.

Verificationcode: PGSR-MFAD-VBID-ZZXD

Ref.: 1892466_certificaat_v2

CERTIFICATE

Project code : 1892466
Your Project Description : 25-07057
Client : Eurofins Chemtest Ltd

Your Sample identification

8694849 = 1940530 DS25-07 at 1.00

8694850 = 1940531 DS25-03 at 0.30

Client sampling date	:	25/02/2025	25/02/2025
Date of receipt	:	14/03/2025	14/03/2025
Startdate	:	14/03/2025	14/03/2025
Reference number	:	8694849	8694850
Your Matrix	:	Soil	Soil

S som PFOA	µg/kg dw	0,1	0,1
S sum PFOS	µg/kg dw	0,1	0,2

C E R T I F I C A T E

Project code	:	1892466
Your Project Description	:	25-07057
Client	:	Eurofins Chemtest Ltd

Notes related to analyses

General comments

The following information has been provided by the client if applicable:

Project description, Sample identification, Client sampling date, Client Matrix, Sample depth, Pot number (Barcode), Field data, Field observations and sampling data. The client sampling date can affect the validity of the results.

Quantification of branched PFOS/POA is based on DIN 38414-14.

Summation of concentrations for group parameters

Summation is calculated according to AS3000 protocol, paragraph 2.5.2 and appendix 3.

Project Note(s):	- Quantification of HFPO-DA (GenX) is based on 2,3,3,3-tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-propanoic acid (CAS nr. 13252-13-6). Another name of GenX is perfluoro-2-propoxyrpropanoic acid (PFPrOPrA).

C E R T I F I C A T E

Project code : 1892466
Your Project Description : 25-07057
Client : Eurofins Chemtest Ltd

Appendix Index PFAS

PFAS component	Full name PFAS component
10:2 FTS	10:2 FTS (10:2 Fluorotelomer sulfonic acid)
4:2 FTS	4:2 FTS (4:2 Fluorotelomer sulfonic acid)
4H-PFUnDA	4H-PFUnDA (2H,2H,3H,3H-Perfluoroundecanoic acid)
6:2 FTS	6:2 FTS (6:2 Fluorotelomer sulfonic acid)
8:2 DiPAP	8:2 DiPAP (8:2 Fluorotelomer phosphate diester)
8:2 FTS	8:2 FTS (8:2 Fluorotelomer sulfonic acid)
8:2 FTUCA	8:2 FTUCA (8:2 Fluorotelomer unsaturated carboxylic acid)
9Cl-PF3ONS (F53-B)	9Cl-PF3ONS (F53-B) (9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid)
ADONA	ADONA (ammonium 4,8-dioxa-3H-perfluorononanoate)
EtFOSA	EtFOSA (N-ethyl perfluorooctanesulfonamide)
EtFOSAA	EtFOSAA (perfluorooctanesulfonylamide(N-ethyl)acetate)
HPFHpA	HPFHpA (7H-perfluoroheptanoic acid)
MeFBSA	MeFBSA (N-methylperfluorobutanesulfonylamide)
MeFBSAA	MeFBSAA (perfluorobutanesulfonylamide(N-methyl)acetate)
MeFOSA	MeFOSA (N-methyl perfluorooctanesulfonamide)
MeFOSAA	MeFOSAA (N-methyl perfluorooctanesulfonamidoacetic acid)
P37DMOA	P37DMOA (perfluoro-3,7-dimethyloctanoic acid)
PFBA	PFBA (perfluorobutanoic acid)
PFBS	PFBS (perfluorobutanesulfonic acid)
PFBSA	PFBSA (perfluorobutanesulfonamide)
PFDA	PFDA (perfluorodecanoic acid)
PFDoDA	PFDoDA (perfluorododecanoic acid)
PFDS	PFDS (perfluorodecanesulfonic acid)
PFHhA	PFHhA (perfluoroheptanoic acid)
PFHhS	PFHhS (perfluoroheptanesulfonic acid)
PFHxA	PFHxA (perfluorohexanoic acid)
PFHxDA	PFHxDA (perfluorohexadecanoic acid)
PFHxS	PFHxS (perfluorohexanesulfonic acid)
PFNA	PFNA (perfluorononanoic acid)
PFOA branched	PFOA branched (perfluorooctanoic acid)
PFOA linear	PFOA linear (perfluorooctanoic acid)
PFODA	PFODA (perfluorooctadecanoic acid)
PFOS branched	PFOS branched (perfluorooctanesulfonic acid)
PFOS linear	PFOS linear (perfluorooctanesulfonic acid)
PFOSA	PFOSA (perfluorooctanesulfonamide)
PFPeA	PFPeA (perfluoropentanoic acid)
PFPeS	PFPeS (perfluoropentanesulfonic acid)
PFTeDA	PFTeDA (perfluorotetradecanoic acid)
PFTTrDA	PFTTrDA (perfluorotridecanoic acid)
PFUnDA	PFUnDA (perfluoroundecanoic acid)

C E R T I F I C A T E

Project code : 1892466
Your Project Description : 25-07057
Client : Eurofins Chemtest Ltd

Methodology Soil (AS3000)**AS3000**

In dit analysecertificaat zijn de met 'S' gemerkte analyses uitgevoerd volgens de analysemethoden beschreven in het "Accreditatieschema Laboratoriumanalyses voor grond-, waterbodem- en grondwateronderzoek (AS SIKB 3000)". Het laboratoriumonderzoek is uitgevoerd volgens de onderstaande analysemethoden. Deze analyses zijn vastgelegd in het geldende accreditatie-certificaat met bijbehorende verrichtingenlijst L086 van Eurofins Omegam BV.

Samplemate : Conform AS3000 en NEN-EN 16179
Dry weight : Conform AS3010 prestatieblad 2
PFAS : Conform AS3080 prestatieblad 1
GenX : Conform AS3080 prestatieblad 2

In this certificate of analysis, the analysis marked with 'Q' have been carried out according to the analysis methods below. The analysis are registered in the current accreditation certificate with associated annex to declaration of accreditation (scope of accreditation) L086 of Eurofins Omegam BV.

PFAS : In house method



Final Report

Report No.: 25-06973-1

Initial Date of Issue: 27-Mar-2025

Re-Issue Details:

Client Concept Engineering Consultants

Client Address: 47 - 49 Brunel Road
London
W3 7XR

Contact(s): Kasia Mazerant
Lab
Gabriela Mandache

Project 25/4047- LHR042 Thorney Lane DC1

Quotation No.: Q25-36897 **Date Received:** 28-Feb-2025

Order No.: 104929 (CL6734) **Date Instructed:** 06-Mar-2025

No. of Samples: 5

Turnaround (Wkdays): 9 **Results Due:** 18-Mar-2025

Date Approved: 26-Mar-2025 **Subcon Results Due:** 26-Mar-2025

Approved By:

Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: 25/4047- LHR042 Thorney Lane DC1

Client: Concept Engineering Consultants		Chemtest Job No.:				25-06973	25-06973	25-06973	25-06973	25-06973
Quotation No.: Q25-36897		Chemtest Sample ID.:				1940075	1940077	1940078	1940080	1940084
		Client Sample ID.:				63	65	66	68	72
		Sample Location:				DS25-07	DS25-10	DS25-01	DS25-08	DS25-07
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				1.3	0.3	0.8	0.3	2.3
		Bottom Depth (m):				1.3	0.3	0.8	0.3	2.3
		Date Sampled:				26-Feb-2025	26-Feb-2025	26-Feb-2025	26-Feb-2025	26-Feb-2025
		Asbestos Lab:				NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
ACM Type		N	2192		N/A	-	-	-	-	
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	
Moisture		N	2030	%	0.020	15	17	14	13	16
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones	
Soil Texture		N	2040		N/A	Clay	Sand	Clay	Loam	
pH at 20C		M	2010		4.0	9.2	8.5	9.4	8.7	
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	0.68	0.55	0.84	4.4	
Cyanide (Total)		M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Arsenic		M	2455	mg/kg	0.5	7.2	45	23	10	
Beryllium		U	2455	mg/kg	0.5	< 0.5	4.2	1.0	0.9	
Cadmium		M	2455	mg/kg	0.10	< 0.10	0.35	0.35	0.13	
Chromium		M	2455	mg/kg	0.5	12	25	24	11	
Antimony		N	2455	mg/kg	2.0	< 2.0	13	3.3	< 2.0	
Copper		M	2455	mg/kg	0.50	7.8	140	530	40	
Mercury		M	2455	mg/kg	0.05	< 0.05	1.3	0.91	0.32	
Nickel		M	2455	mg/kg	0.50	14	34	29	19	
Lead		M	2455	mg/kg	0.50	8.1	3700	210	92	
Selenium		M	2455	mg/kg	0.25	0.26	1.1	0.66	0.60	
Vanadium		U	2455	mg/kg	0.5	17	52	36	19	
Zinc		M	2455	mg/kg	0.50	27	200	340	71	
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Aliphatic VPH >C5-C6	HS_2D_AL	S	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C6-C8	HS_2D_AL	S	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic Total >C05-C35	HS_2D_AL	SN	2780	mg/kg	19.00	84	92	460	250	< 19
Aromatic Total >C05-C35	HS_2D_AL	S	2780	mg/kg	19.00	52	< 19	160	99	< 19
Ali Aro Total >C05-C35	HS_2D_AL	SN	2780	mg/kg	38.00	140	110	620	340	< 38
Aliphatic VPH >C8-C10	HS_2D_AL	SN	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic EPH >C10-C12	EH_2D_AL_#1	S	2690	mg/kg	0.20	1.1	< 1.00	1.8	< 1.00	< 1.00
Aliphatic EPH >C12-C16	EH_2D_AL_#1	S	2690	mg/kg	4.00	18	11	26	11	< 4.0
Aliphatic EPH >C16-C21	EH_2D_AL_#1	S	2690	mg/kg	7.00	42	22	110	63	< 8.00
Aliphatic EPH >C21-C35	EH_2D_AL_#1	S	2690	mg/kg	7.00	23	59	320	170	< 8.00
Aromatic VPH >C5-C7	HS_2D_AR	S	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic VPH >C7-C8	HS_2D_AR	S	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic VPH >C8-C10	HS_2D_AR	S	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: 25/4047- LHR042 Thorney Lane DC1

Client: Concept Engineering Consultants		Chemtest Job No.:				25-06973	25-06973	25-06973	25-06973	25-06973
Quotation No.: Q25-36897		Chemtest Sample ID.:				1940075	1940077	1940078	1940080	1940084
		Client Sample ID.:				63	65	66	68	72
		Sample Location:				DS25-07	DS25-10	DS25-01	DS25-08	DS25-07
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				1.3	0.3	0.8	0.3	2.3
		Bottom Depth (m):				1.3	0.3	0.8	0.3	2.3
		Date Sampled:				26-Feb-2025	26-Feb-2025	26-Feb-2025	26-Feb-2025	26-Feb-2025
		Asbestos Lab:				NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
Aromatic EPH >C10-C12	EH_2D_AR_#1	S	2690	mg/kg	0.20	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Aromatic EPH >C12-C16	EH_2D_AR_#1	S	2690	mg/kg	4.00	9.5	< 4.0	5.2	4.0	< 4.0
Aromatic EPH >C16-C21	EH_2D_AR_#1	S	2690	mg/kg	7.00	32	12	52	37	< 10.00
Aromatic EPH >C21-C35	EH_2D_AR_#1	S	2690	mg/kg	7.00	11	< 10.00	110	58	< 10.00
Total Organic Carbon		M	2625	%	0.20	0.89	2.8	0.83	2.4	
Benzene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	
Toluene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	
Ethylbenzene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	
m & p-Xylene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	
o-Xylene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	
Methyl Tert-Butyl Ether		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	
Naphthalene		M	2800	mg/kg	0.10	0.16	0.27	< 0.10	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	0.19	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	0.18	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	1.5	0.87	0.32	1.1	< 0.10
Anthracene		M	2800	mg/kg	0.10	0.35	0.27	< 0.10	0.25	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	1.5	1.8	0.64	2.2	< 0.10
Pyrene		M	2800	mg/kg	0.10	1.2	1.5	0.56	1.8	< 0.10
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.58	0.95	< 0.10	0.82	< 0.10
Chrysene		M	2800	mg/kg	0.10	0.67	1.1	< 0.10	0.81	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	0.68	1.4	< 0.10	1.2	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.24	0.56	< 0.10	0.39	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	0.54	1.0	< 0.10	0.86	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.30	0.71	< 0.10	0.61	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	0.18	< 0.10	0.18	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.29	0.72	< 0.10	0.70	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	8.4	11	< 2.0	11	< 2.0
Total Phenols		M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	
PFAS Suite Soils		SN		µg/kg	0.0		See Attached	See Attached	See Attached	

Results - Single Stage WAC

Project: 25/4047- LHR042 Thorney Lane DC1

Chemtest Job No: 25-06973						Landfill Waste Acceptance Criteria		
Chemtest Sample ID: 1940075						Limits		
Sample Ref:						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID: 63								
Sample Location: DS25-07								
Top Depth(m): 1.3								
Bottom Depth(m): 1.3								
Sampling Date: 26-Feb-2025								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	0.89	3	5	6
Loss On Ignition	2610		M	%	1.5	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	500	500	--	--
Total (Of 17) PAH's	2700		N	mg/kg	10	100	--	--
pH at 20C	2010		M		9.2	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.016	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0093	0.093	0.5	2	25
Barium	1455		U	0.021	0.21	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0042	0.042	0.5	10	70
Copper	1455		U	0.0095	0.096	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0053	0.053	0.5	10	30
Nickel	1455		U	0.0041	0.041	0.4	10	40
Lead	1455		U	0.0079	0.079	0.5	10	50
Antimony	1455		U	0.0009	0.0090	0.06	0.7	5
Selenium	1455		U	0.0009	0.0091	0.1	0.5	7
Zinc	1455		U	0.019	0.19	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.32	3.2	10	150	500
Sulphate	1220		U	1.8	18	1000	20000	50000
Total Dissolved Solids	1020		N	28	280	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	7.7	77	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	7.4
WAC Sample Weight	[E] 1056

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25/4047- LHR042 Thorney Lane DC1

Project: 2016-17 Enkore Honey Lane DC						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-06973 Chemtest Sample ID: 1940077 Sample Ref: Sample ID: 65 Sample Location: DS25-10 Top Depth(m): 0.3 Bottom Depth(m): 0.3 Sampling Date: 26-Feb-2025						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	2.8	3	5	6
Loss On Ignition	2610		M	%	10	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D Total	M	mg/kg	200	500	--	--
Total (Of 17) PAH's	2700		N	mg/kg	14	100	--	--
pH at 20C	2010		M		8.5	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.010	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0077	0.077	0.5	2	25
Barium	1455		U	0.020	0.20	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	< 0.0005	< 0.0050	0.5	10	70
Copper	1455		U	0.0037	0.037	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0082	0.082	0.5	10	30
Nickel	1455		U	< 0.0005	< 0.0050	0.4	10	40
Lead	1455		U	0.0028	0.028	0.5	10	50
Antimony	1455		U	0.0064	0.064	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.009	0.086	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.48	4.8	10	150	500
Sulphate	1220		U	23	230	1000	20000	50000
Total Dissolved Solids	1020		N	69	690	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	3.2	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	9.4
WAC Sample Weight	3530

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25/4047- LHR042 Thorney Lane DC1

Project: E0104 - ENKORE - Murrey Lane DC4						Landfill Waste Acceptance Criteria		
Chemtest Job No:		25-06973		Limits				
Chemtest Sample ID:		1940078		Inert Waste Landfill		Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill	
Sample Ref:								
Sample ID:		66						
Sample Location:		DS25-01						
Top Depth(m):		0.8						
Bottom Depth(m):		0.8						
Sampling Date:		26-Feb-2025						
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	0.83	3	5	6
Loss On Ignition	2610		M	%	2.2	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	< 10	500	--	--
Total (Of 17) PAH's	2700		N	mg/kg	10	100	--	--
pH at 20C	2010		M		9.4	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.0060	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.012	0.12	0.5	2	25
Barium	1455		U	0.009	0.086	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0017	0.017	0.5	10	70
Copper	1455		U	0.025	0.25	2	50	100
Mercury	1455		U	0.00013	0.0013	0.01	0.2	2
Molybdenum	1455		U	0.0067	0.067	0.5	10	30
Nickel	1455		U	0.0030	0.030	0.4	10	40
Lead	1455		U	0.025	0.25	0.5	10	50
Antimony	1455		U	0.0048	0.048	0.06	0.7	5
Selenium	1455		U	0.0013	0.013	0.1	0.5	7
Zinc	1455		U	0.014	0.14	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.24	2.4	10	150	500
Sulphate	1220		U	10	100	1000	20000	50000
Total Dissolved Solids	1020		N	48	480	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	8.0	80	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	5.5
WAC Sample Weight	2441

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request. The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

Sample:	Sample Ref:	Sample ID:	Sample Location:	Sampled Date:	Deviation Code(s):	Containers Received:
1940075		63	DS25-07	#####	E	Amber Glass 250ml
1940075		63	DS25-07	#####	E	Amber Glass 60ml
1940075		63	DS25-07	#####	E	Plastic Tub 1000g

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity at 25°C and Total Dissolved Solids (TDS) in Waters	Conductivity 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.	RE PW PL LE DW GW
1455	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).	RE PW PL SW DW GW
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation	PL SW GW
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.	
2010	pH Value of Soils	pH at 20°C	pH Meter	
2015	Acid Neutralisation Capacity	Acid Reserve	Titration	
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES	
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry	
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.	
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.	
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazine.	
2610	Loss on Ignition	loss on ignition (LOI)	Determination of the proportion by mass that is lost from a soil by ignition at 550°C.	
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.	
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenzo[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)	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8-C10 Aromatics: >C5–C7,>C7-C8,>C8–C10	Water extraction / Headspace GCxGC FID detection	

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	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-MS	
2815	Polychlorinated Biphenyls (PCB) ICES7Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS. Reported PCB 101 results may contain contributions from PCB 90 due to inseparable chromatography.	
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.	
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge	
650	Characterisation of Waste (Leaching WAC)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge	

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"
SOP	Standard operating procedure
LOD	Limit of detection

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

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 EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ 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.

NEW_ASB Eurofins Chemtest Limited, 11 Depot Road, Newmarket, CB8 0AL

DURHAM Eurofins Chemtest Limited, Unit A North Wing, Prospect Business Park, Crookhall Lane, Consett, Co Durham, DH8 7PW

Sample Deviation Codes

As a result of any of the below deviations applying, the test results may be unreliable

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 - The required amount of sample for analysis was not received

H - Appropriate cooling measures were not taken for sample transportation

Sample Retention and Disposal

All soil samples will be retained for a period of 30 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.

Report Information

Water Sample Category Key for Accreditation

DW - Drinking Water
GW - Ground Water
LE - Land Leachate
NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

Asbestos Tests LOD = LOQ

Limit of Detection = Limit of Quantification for asbestos results only

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

C E R T I F I C A T E

Project code : 1892471
Your Project Description : 25-06973
Client : Eurofins Chemtest Ltd

Your Sample identification
8694857 = 1940077 DS25-10
8694859 = 1940078 DS25-01
8694860 = 1940080 DS25-08

Client sampling date	:	26/02/2025	26/02/2025	26/02/2025
Date of receipt	:	14/03/2025	14/03/2025	14/03/2025
Startdate	:	14/03/2025	14/03/2025	14/03/2025
Reference number	:	8694857	8694859	8694860
Your Matrix	:	Soil	Soil	Soil

Sample preparation

S AS3000 (steekmonster)		done	done	done
cryogenic grinding		grinded	grinded	
S weight of artifact	g	n.a.	n.a.	n.a.
S type of artifact		n.v.t.	n.v.t.	n.v.t.
S sample preparation		done	done	done

General analysis - physics

S dry weight	%	82,1	81,0	71,7

C E R T I F I C A T E

Project code : 1892471
Your Project Description : 25-06973
Client : Eurofins Chemtest Ltd

Your Sample identification
8694857 = 1940077 DS25-10
8694859 = 1940078 DS25-01
8694860 = 1940080 DS25-08

Client sampling date	:	26/02/2025	26/02/2025	26/02/2025
Date of receipt	:	14/03/2025	14/03/2025	14/03/2025
Startdate	:	14/03/2025	14/03/2025	14/03/2025
Reference number	:	8694857	8694859	8694860
Your Matrix	:	Soil	Soil	Soil

Organic compounds - per- and polyfluoroalkylsubstances (PFAS) HPLC-MS/MS
Perfluorinated carboxylic acids:

S	PFBA	µg/kg dw	< 0,1	< 0,1	< 0,1
S	PFPeA	µg/kg dw	< 0,1	< 0,1	< 0,1
S	PFHxA	µg/kg dw	< 0,1	< 0,1	< 0,1
S	PFHpA	µg/kg dw	< 0,1	< 0,1	< 0,1
S	PFOA linear	µg/kg dw	< 0,1	< 0,1	< 0,1
S	PFOA branched	µg/kg dw	< 0,1	< 0,1	< 0,1
S	PFNA	µg/kg dw	< 0,1	< 0,1	< 0,1
S	PFDA	µg/kg dw	< 0,1	< 0,1	< 0,1
S	PFUnDA	µg/kg dw	< 0,1	< 0,1	< 0,1
S	PFDoDA	µg/kg dw	< 0,1	< 0,1	< 0,1
S	PFTTrDA	µg/kg dw	< 0,1	< 0,1	< 0,1
S	PFTeDA	µg/kg dw	< 0,1	< 0,1	< 0,1
S	PFHxDA	µg/kg dw	< 0,1	< 0,1	< 0,1
S	PFODA	µg/kg dw	< 0,1	< 0,1	< 0,1

Perfluorinated sulfonic acids:

S	PFBS	µg/kg dw	< 0,1	< 0,1	< 0,1
S	PFPeS	µg/kg dw	< 0,1	< 0,1	< 0,1
S	PFHxS	µg/kg dw	< 0,1	< 0,1	< 0,1
S	PFHpS	µg/kg dw	< 0,1	< 0,1	< 0,1
S	PFOS linear	µg/kg dw	< 0,1	< 0,1	< 0,1
S	PFOS branched	µg/kg dw	< 0,1	< 0,1	< 0,1
S	PFDS	µg/kg dw	< 0,1	< 0,1	< 0,1

Perfluorinated alkyl substances - precursors:

S	4:2 FTS	µg/kg dw	< 0,1	< 0,1	< 0,1
S	6:2 FTS	µg/kg dw	< 0,1	< 0,1	< 0,1
S	8:2 FTS	µg/kg dw	< 0,1	< 0,1	< 0,1
S	10:2 FTS	µg/kg dw	< 0,1	< 0,1	< 0,1
S	PFOSA	µg/kg dw	< 0,1	< 0,1	< 0,1

Perfluorinated alkyl substances - remainder:

	HPFHpA	µg/kg dw	< 0,4	< 0,4	< 0,4
	4H-PFUnDA	µg/kg dw	< 0,4	< 0,4	< 0,4
	8:2 FTUCA	µg/kg dw	< 0,4	< 0,4	< 0,4
Q	9CI-PF3ONS (F53-B)	µg/kg dw	< 0,1	< 0,1	< 0,1
Q	ADONA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q	EtFOSA	µg/kg dw	< 0,1	< 0,1	< 0,1
S	EtFOSAA	µg/kg dw	< 0,1	0,2	< 0,1
	MeFBSA	µg/kg dw	< 0,4	< 0,4	< 0,4
S	MeFOSAA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q	P37DMOA	µg/kg dw	< 1	< 1	< 1
Q	PFBSA	µg/kg dw	< 0,1	< 0,1	< 0,1
S	MeFOSA	µg/kg dw	< 0,1	< 0,1	< 0,1
Q	MeFBSAA	µg/kg dw	< 0,1	< 0,1	< 0,1
S	8:2 DiPAP	µg/kg dw	< 0,1	< 0,1	< 0,1
S	HFPO-DA (GenX)	µg/kg dw	< 0,1	< 0,1	< 0,1

- The frontpage and, where applicable, appendices of this document are integral parts of this certificate.

- Analyses marked with a 'Q' are part of the RvA accreditation certificate L086.

- Analyses marked with a 'S' are part of the AS 3000 accreditation certificate.

Verificationcode: XUSE-AWYB-GBMH-TPVJ

Ref.: 1892471_certificaat_v1

CERTIFICATE

Project code : 1892471
Your Project Description : 25-06973
Client : Eurofins Chemtest Ltd

Your Sample identification

8694857 = 1940077 DS25-10

8694859 = 1940078 DS25-01

8694860 = 1940080 DS25-08

Client sampling date	:	26/02/2025	26/02/2025	26/02/2025
Date of receipt	:	14/03/2025	14/03/2025	14/03/2025
Startdate	:	14/03/2025	14/03/2025	14/03/2025
Reference number	:	8694857	8694859	8694860
Your Matrix	:	Soil	Soil	Soil

S som PFOA	µg/kg dw	0,1	0,1	0,1
S sum PFOS	µg/kg dw	0,1	0,1	0,1

C E R T I F I C A T E

Project code : 1892471
Your Project Description : 25-06973
Client : Eurofins Chemtest Ltd

Notes related to analyses

General comments

The following information has been provided by the client if applicable:

Project description, Sample identificaton, Client sampling date, Client Matrix, Sample depth, Pot number (Barcode), Field data, Field observations and sampling data. The client sampling date can affect the validity of the results.

Quantification of branched PFOS/POA is based on DIN 38414-14.

Summation of concentrations for group parameters

Summation is calculated according to AS3000 protocol, paragraph 2.5.2 and appendix 3.

Project Note(s): - Quantification of HFPO-DA (GenX) is based on
2,3,3,3-tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-propanoic acid (CAS nr.
13252-13-6). Another name of GenX is perfluoro-2-propoxyrpropanoic acid (PFPrOPrA).

C E R T I F I C A T E

Project code : 1892471
Your Project Description : 25-06973
Client : Eurofins Chemtest Ltd

Appendix Index PFAS

PFAS component	Full name PFAS component
10:2 FTS	10:2 FTS (10:2 Fluorotelomer sulfonic acid)
4:2 FTS	4:2 FTS (4:2 Fluorotelomer sulfonic acid)
4H-PFUnDA	4H-PFUnDA (2H,2H,3H,3H-Perfluoroundecanoic acid)
6:2 FTS	6:2 FTS (6:2 Fluorotelomer sulfonic acid)
8:2 DiPAP	8:2 DiPAP (8:2 Fluorotelomer phosphate diester)
8:2 FTS	8:2 FTS (8:2 Fluorotelomer sulfonic acid)
8:2 FTUCA	8:2 FTUCA (8:2 Fluorotelomer unsaturated carboxylic acid)
9Cl-PF3ONS (F53-B)	9Cl-PF3ONS (F53-B) (9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid)
ADONA	ADONA (ammonium 4,8-dioxa-3H-perfluorononanoate)
EtFOSA	EtFOSA (N-ethyl perfluorooctanesulfonamide)
EtFOSAA	EtFOSAA (perfluorooctanesulfonylamide(N-ethyl)acetate)
HPFHpA	HPFHpA (7H-perfluoroheptanoic acid)
MeFBSA	MeFBSA (N-methylperfluorobutanesulfonylamide)
MeFBSAA	MeFBSAA (perfluorobutanesulfonylamide(N-methyl)acetate)
MeFOSA	MeFOSA (N-methyl perfluorooctanesulfonamide)
MeFOSAA	MeFOSAA (N-methyl perfluorooctanesulfonamidoacetic acid)
P37DMOA	P37DMOA (perfluoro-3,7-dimethyloctanoic acid)
PFBA	PFBA (perfluorobutanoic acid)
PFBS	PFBS (perfluorobutanesulfonic acid)
PFBSA	PFBSA (perfluorobutanesulfonamide)
PFDA	PFDA (perfluorodecanoic acid)
PFDoDA	PFDoDA (perfluorododecanoic acid)
PFDS	PFDS (perfluorodecanesulfonic acid)
PFHhA	PFHhA (perfluoroheptanoic acid)
PFHhS	PFHhS (perfluoroheptanesulfonic acid)
PFHxA	PFHxA (perfluorohexanoic acid)
PFHxDA	PFHxDA (perfluorohexadecanoic acid)
PFHxS	PFHxS (perfluorohexanesulfonic acid)
PFNA	PFNA (perfluorononanoic acid)
PFOA branched	PFOA branched (perfluorooctanoic acid)
PFOA linear	PFOA linear (perfluorooctanoic acid)
PFODA	PFODA (perfluorooctadecanoic acid)
PFOS branched	PFOS branched (perfluorooctanesulfonic acid)
PFOS linear	PFOS linear (perfluorooctanesulfonic acid)
PFOSA	PFOSA (perfluorooctanesulfonamide)
PFPeA	PFPeA (perfluoropentanoic acid)
PFPeS	PFPeS (perfluoropentanesulfonic acid)
PFTeDA	PFTeDA (perfluorotetradecanoic acid)
PFTTrDA	PFTTrDA (perfluorotridecanoic acid)
PFUnDA	PFUnDA (perfluoroundecanoic acid)

C E R T I F I C A T E

Project code : 1892471
Your Project Description : 25-06973
Client : Eurofins Chemtest Ltd

Methodology Soil (AS3000)

AS3000

In dit analysecertificaat zijn de met 'S' gemerkte analyses uitgevoerd volgens de analysemethoden beschreven in het "Accreditatieschema Laboratoriumanalyses voor grond-, waterbodem- en grondwateronderzoek (AS SIKB 3000)". Het laboratoriumonderzoek is uitgevoerd volgens de onderstaande analysemethoden. Deze analyses zijn vastgelegd in het geldende accreditatie-certificaat met bijbehorende verrichtingenlijst L086 van Eurofins Omegam BV.

Samplemate : Conform AS3000 en NEN-EN 16179
Dry weight : Conform AS3010 prestatieblad 2
PFAS : Conform AS3080 prestatieblad 1
GenX : Conform AS3080 prestatieblad 2

In this certificate of analysis, the analysis marked with 'Q' have been carried out according to the analysis methods below. The analysis are registered in the current accreditation certificate with associated annex to declaration of accreditation (scope of accreditation) L086 of Eurofins Omegam BV.

PFAS : In house method



Final Report

Report No.: 25-07156-1

Initial Date of Issue: 25-Mar-2025

Re-Issue Details:

Client Concept Engineering Consultants

Client Address: 47 - 49 Brunel Road
London
W3 7XR

Contact(s): Gabriela Mandache
Kasia Mazerant
Lab

Project 25/4047- LHR042 Thorney Lane DC1

Quotation No.: Q25-36897

Date Received: 03-Mar-2025

Order No.: 104936 (CL6736)

Date Instructed: 05-Mar-2025

No. of Samples: 4

Turnaround (Wkdays): 13

Results Due: 21-Mar-2025

Date Approved: 25-Mar-2025

Subcon Results Due: 26-Mar-2025

Approved By:

Details: Simon Wicks, Specialist Chemist

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: 25/4047- LHR042 Thorney Lane DC1

Client: Concept Engineering Consultants		Chemtest Job No.:		25-07156	25-07156	25-07156	25-07156
Quotation No.: Q25-36897		Chemtest Sample ID.:		1940917	1940918	1940919	1940920
		Client Sample ID.:		75	76	77	78
		Sample Location:		DS25-02	DS25-15	DS25-01	DS25-10
		Sample Type:		SOIL	SOIL	SOIL	SOIL
		Top Depth (m):		1.30	0.30	1.40	1.40
		Bottom Depth (m):		1.30	0.30	1.40	1.40
		Date Sampled:		27-Feb-2025	27-Feb-2025	27-Feb-2025	27-Feb-2025
		Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
ACM Type		N	2192		N/A	-	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected
Moisture		N	2030	%	0.020	31	17
Soil Colour		N	2040		N/A	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones
Soil Texture		N	2040		N/A	Clay	Clay
pH at 20C		M	2010		4.0	9.4	7.6
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	1.5	1.0
Cyanide (Total)		M	2300	mg/kg	0.50	< 0.50	< 0.50
Arsenic		M	2455	mg/kg	0.5	19	13
Beryllium		U	2455	mg/kg	0.5	1.2	0.9
Cadmium		M	2455	mg/kg	0.10	0.18	0.18
Chromium		M	2455	mg/kg	0.5	28	22
Antimony		N	2455	mg/kg	2.0	< 2.0	< 2.0
Copper		M	2455	mg/kg	0.50	35	26
Mercury		M	2455	mg/kg	0.05	0.19	0.36
Nickel		M	2455	mg/kg	0.50	24	22
Lead		M	2455	mg/kg	0.50	170	84
Selenium		M	2455	mg/kg	0.25	< 0.25	0.26
Vanadium		U	2455	mg/kg	0.5	42	35
Zinc		M	2455	mg/kg	0.50	580	75
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50
Aliphatic VPH >C5-C6	HS 2D AL	S	2780	mg/kg	0.10	< 0.10	< 0.10
Aliphatic VPH >C6-C8	HS 2D AL	S	2780	mg/kg	0.10	< 0.10	0.14
Aliphatic Total >C05-C35	HS 2D AL	SN	2780	mg/kg	19.00	6300	< 19
Aromatic Total >C05-C35	HS 2D AL	S	2780	mg/kg	19.00	3100	2000
Ali Aro Total >C05-C35	HS 2D AL	SN	2780	mg/kg	38.00	9400	5200
Aliphatic VPH >C8-C10	HS 2D AL	SN	2780	mg/kg	0.05	< 0.05	0.14
Aliphatic EPH >C10-C12	EH 2D AL #1	S	2690	mg/kg	0.20	3.7	44
Aliphatic EPH >C12-C16	EH 2D AL #1	S	2690	mg/kg	4.00	570	670
Aliphatic EPH >C16-C21	EH 2D AL #1	S	2690	mg/kg	7.00	3800	2100
Aliphatic EPH >C21-C35	EH 2D AL #1	S	2690	mg/kg	7.00	1900	440
Aromatic VPH >C5-C7	HS 2D AR	S	2780	mg/kg	0.10	< 0.10	< 0.10
Aromatic VPH >C7-C8	HS 2D AR	S	2780	mg/kg	0.10	< 0.10	< 0.10
Aromatic VPH >C8-C10	HS 2D AR	S	2780	mg/kg	0.10	< 0.10	< 0.10
Aromatic EPH >C10-C12	EH 2D AR #1	S	2690	mg/kg	0.20	1.9	38
Aromatic EPH >C12-C16	EH 2D AR #1	S	2690	mg/kg	4.00	210	610
Aromatic EPH >C16-C21	EH 2D AR #1	S	2690	mg/kg	7.00	1900	1100
Aromatic EPH >C21-C35	EH 2D AR #1	S	2690	mg/kg	7.00	950	270

Results - Soil

Project: 25/4047- LHR042 Thorney Lane DC1

Client: Concept Engineering Consultants		Chemtest Job No.:		25-07156	25-07156	25-07156	25-07156
Quotation No.: Q25-36897		Chemtest Sample ID.:		1940917	1940918	1940919	1940920
		Client Sample ID.:		75	76	77	78
		Sample Location:		DS25-02	DS25-15	DS25-01	DS25-10
		Sample Type:		SOIL	SOIL	SOIL	SOIL
		Top Depth (m):		1.30	0.30	1.40	1.40
		Bottom Depth (m):		1.30	0.30	1.40	1.40
		Date Sampled:		27-Feb-2025	27-Feb-2025	27-Feb-2025	27-Feb-2025
		Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
Total Organic Carbon		M	2625	%	0.20	0.42	2.9
Dichlorodifluoromethane		U	2760	mg/kg	0.0010		< 0.0010
Chloromethane		M	2760	mg/kg	0.0010		< 0.0010
Vinyl Chloride		M	2760	mg/kg	0.0010		< 0.0010
Bromomethane		M	2760	mg/kg	0.020		< 0.020
Chloroethane		U	2760	mg/kg	0.0020		< 0.0020
Trichlorofluoromethane		M	2760	mg/kg	0.0010		< 0.0010
1,1-Dichloroethene		M	2760	mg/kg	0.0010		< 0.0010
Trans 1,2-Dichloroethene		M	2760	mg/kg	0.0010		< 0.0010
1,1-Dichloroethane		M	2760	mg/kg	0.0010		< 0.0010
cis 1,2-Dichloroethene		M	2760	mg/kg	0.0010		< 0.0010
Bromochloromethane		U	2760	mg/kg	0.0050		< 0.0050
Trichloromethane		M	2760	mg/kg	0.0010		< 0.0010
1,1,1-Trichloroethane		M	2760	mg/kg	0.0010		< 0.0010
Tetrachloromethane		M	2760	mg/kg	0.0010		< 0.0010
1,1-Dichloropropene		U	2760	mg/kg	0.0010		< 0.0010
Benzene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010
1,2-Dichloroethane		M	2760	mg/kg	0.0020		< 0.0020
Trichloroethene		N	2760	mg/kg	0.0010		< 0.0010
1,2-Dichloropropane		M	2760	mg/kg	0.0010		< 0.0010
Dibromomethane		M	2760	mg/kg	0.0010		< 0.0010
Bromodichloromethane		M	2760	mg/kg	0.0050		< 0.0050
cis-1,3-Dichloropropene		N	2760	mg/kg	0.010		< 0.010
Toluene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010
Trans-1,3-Dichloropropene		N	2760	mg/kg	0.010		< 0.010
1,1,2-Trichloroethane		M	2760	mg/kg	0.010		< 0.010
Tetrachloroethene		M	2760	mg/kg	0.0010		< 0.0010
1,3-Dichloropropane		U	2760	mg/kg	0.0020		< 0.0020
Dibromochloromethane		U	2760	mg/kg	0.010		< 0.010
1,2-Dibromoethane		M	2760	mg/kg	0.0050		< 0.0050
Chlorobenzene		M	2760	mg/kg	0.0010		< 0.0010
1,1,1,2-Tetrachloroethane		M	2760	mg/kg	0.0020		< 0.0020
Ethylbenzene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010
m & p-Xylene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010
o-Xylene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010
Styrene		M	2760	mg/kg	0.0010		< 0.0010
Tribromomethane		U	2760	mg/kg	0.0010		< 0.0010
Isopropylbenzene		M	2760	mg/kg	0.0010		< 0.0010
Bromobenzene		M	2760	mg/kg	0.0010		< 0.0010
1,2,3-Trichloropropane		N	2760	mg/kg	0.050		< 0.050

Results - Soil

Project: 25/4047- LHR042 Thorney Lane DC1

Client: Concept Engineering Consultants		Chemtest Job No.: 25-07156					
Quotation No.: Q25-36897		Chemtest Sample ID.: 1940917					
		Client Sample ID.: 75					
		Sample Location: DS25-02					
		Sample Type: SOIL					
		Top Depth (m): 1.30					
		Bottom Depth (m): 1.30					
		Date Sampled: 27-Feb-2025					
		Asbestos Lab: DURHAM					
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
N-Propylbenzene		U	2760	mg/kg	0.0010		< 0.0010
2-Chlorotoluene		M	2760	mg/kg	0.0010		< 0.0010
1,3,5-Trimethylbenzene		M	2760	mg/kg	0.0010		< 0.0010
4-Chlorotoluene		U	2760	mg/kg	0.0010		< 0.0010
Tert-Butylbenzene		U	2760	mg/kg	0.0010		< 0.0010
1,2,4-Trimethylbenzene		M	2760	mg/kg	0.0010		< 0.0010
Sec-Butylbenzene		U	2760	mg/kg	0.0010		< 0.0010
1,3-Dichlorobenzene		M	2760	mg/kg	0.0010		< 0.0010
4-Isopropyltoluene		N	2760	mg/kg	0.0010		< 0.0010
1,4-Dichlorobenzene		M	2760	mg/kg	0.0010		< 0.0010
N-Butylbenzene		U	2760	mg/kg	0.0010		< 0.0010
1,2-Dichlorobenzene		M	2760	mg/kg	0.0010		< 0.0010
1,2-Dibromo-3-Chloropropane		U	2760	mg/kg	0.050		< 0.050
1,2,4-Trichlorobenzene		M	2760	mg/kg	0.0010		< 0.0010
Hexachlorobutadiene		U	2760	mg/kg	0.0010		< 0.0010
1,2,3-Trichlorobenzene		U	2760	mg/kg	0.0020		< 0.0020
Methyl Tert-Butyl Ether		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010
N-Nitrosodimethylamine		M	2790	mg/kg	0.50		< 0.50
Phenol		M	2790	mg/kg	0.50		< 0.50
2-Chlorophenol		N	2790	mg/kg	0.50		< 0.50
Bis-(2-Chloroethyl)Ether		M	2790	mg/kg	0.50		< 0.50
1,3-Dichlorobenzene		M	2790	mg/kg	0.50		< 0.50
1,4-Dichlorobenzene		N	2790	mg/kg	0.50		< 0.50
1,2-Dichlorobenzene		M	2790	mg/kg	0.50		< 0.50
2-Methylphenol		M	2790	mg/kg	0.50		< 0.50
Bis(2-Chloroisopropyl)Ether		N	2790	mg/kg	0.50		< 0.50
Hexachloroethane		N	2790	mg/kg	0.50		< 0.50
N-Nitrosodi-n-propylamine		M	2790	mg/kg	0.50		< 0.50
4-Methylphenol		M	2790	mg/kg	0.50		< 0.50
Nitrobenzene		N	2790	mg/kg	0.50		< 0.50
Isophorone		M	2790	mg/kg	0.50		< 0.50
2-Nitrophenol		N	2790	mg/kg	0.50		< 0.50
2,4-Dimethylphenol		N	2790	mg/kg	0.50		< 0.50
Bis(2-Chloroethoxy)Methane		M	2790	mg/kg	0.50		< 0.50
2,4-Dichlorophenol		N	2790	mg/kg	0.50		< 0.50
1,2,4-Trichlorobenzene		M	2790	mg/kg	0.50		< 0.50
Naphthalene		M	2790	mg/kg	0.50		0.64
4-Chloroaniline		N	2790	mg/kg	0.50		< 0.50
Hexachlorobutadiene		M	2790	mg/kg	0.50		< 0.50
4-Chloro-3-Methylphenol		N	2790	mg/kg	0.50		< 0.50

Results - Soil

Project: 25/4047- LHR042 Thorney Lane DC1

Client: Concept Engineering Consultants		Chemtest Job No.:				25-07156	25-07156	25-07156	25-07156
Quotation No.: Q25-36897		Chemtest Sample ID.:				1940917	1940918	1940919	1940920
		Client Sample ID.:				75	76	77	78
		Sample Location:				DS25-02	DS25-15	DS25-01	DS25-10
		Sample Type:				SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				1.30	0.30	1.40	1.40
		Bottom Depth (m):				1.30	0.30	1.40	1.40
		Date Sampled:				27-Feb-2025	27-Feb-2025	27-Feb-2025	27-Feb-2025
		Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
2-Methylnaphthalene		M	2790	mg/kg	0.50		4.7		
4-Nitrophenol		N	2790	mg/kg	0.50		< 0.50		
2,4,6-Trichlorophenol		N	2790	mg/kg	0.50		< 0.50		
2,4,5-Trichlorophenol		N	2790	mg/kg	0.50		< 0.50		
2-Chloronaphthalene		M	2790	mg/kg	0.50		< 0.50		
2-Nitroaniline		N	2790	mg/kg	0.50		< 0.50		
Acenaphthylene		M	2790	mg/kg	0.50		< 0.50		
Dimethylphthalate		M	2790	mg/kg	0.50		< 0.50		
2,6-Dinitrotoluene		N	2790	mg/kg	0.50		< 0.50		
Acenaphthene		M	2790	mg/kg	0.50		1.5		
3-Nitroaniline		N	2790	mg/kg	0.50		< 0.50		
Dibenzofuran		M	2790	mg/kg	0.50		1.4		
4-Chlorophenylphenylether		M	2790	mg/kg	0.50		< 0.50		
2,4-Dinitrotoluene		N	2790	mg/kg	0.50		< 0.50		
Fluorene		M	2790	mg/kg	0.50		3.7		
Diethyl Phthalate		M	2790	mg/kg	0.50		< 0.50		
4-Nitroaniline		N	2790	mg/kg	0.50		< 0.50		
Azobenzene		M	2790	mg/kg	0.50		< 0.50		
4-Bromophenylphenyl Ether		M	2790	mg/kg	0.50		< 0.50		
Hexachlorobenzene		M	2790	mg/kg	0.50		< 0.50		
Phenanthrene		M	2790	mg/kg	0.50		7.3		
Anthracene		M	2790	mg/kg	0.50		0.81		
Carbazole		M	2790	mg/kg	0.50		0.69		
Di-N-Butyl Phthalate		N	2790	mg/kg	0.50		< 0.50		
Fluoranthene		M	2790	mg/kg	0.50		< 0.50		
Pyrene		M	2790	mg/kg	0.50		0.96		
Butylbenzyl Phthalate		N	2790	mg/kg	0.50		< 0.50		
Benzo[a]anthracene		M	2790	mg/kg	0.50		< 0.50		
Chrysene		M	2790	mg/kg	0.50		< 0.50		
Bis(2-Ethylhexyl)Phthalate		N	2790	mg/kg	0.50		< 0.50		
Di-N-Octyl Phthalate		N	2790	mg/kg	0.50		< 0.50		
Benzo[b]fluoranthene		M	2790	mg/kg	0.50		< 0.50		
Benzo[k]fluoranthene		M	2790	mg/kg	0.50		< 0.50		
Benzo[a]pyrene		M	2790	mg/kg	0.50		< 0.50		
Indeno(1,2,3-c,d)Pyrene		N	2790	mg/kg	0.50		< 0.50		
Dibenz(a,h)Anthracene		N	2790	mg/kg	0.50		< 0.50		
Benzo[g,h,i]perylene		M	2790	mg/kg	0.50		< 0.50		
Naphthalene		M	2800	mg/kg	0.10	< 0.10	1.5	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	1.1	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: 25/4047- LHR042 Thorney Lane DC1

Client: Concept Engineering Consultants		Chemtest Job No.:		25-07156	25-07156	25-07156	25-07156		
Quotation No.: Q25-36897		Chemtest Sample ID.:		1940917	1940918	1940919	1940920		
		Client Sample ID.:		75	76	77	78		
		Sample Location:		DS25-02	DS25-15	DS25-01	DS25-10		
		Sample Type:		SOIL	SOIL	SOIL	SOIL		
		Top Depth (m):		1.30	0.30	1.40	1.40		
		Bottom Depth (m):		1.30	0.30	1.40	1.40		
		Date Sampled:		27-Feb-2025	27-Feb-2025	27-Feb-2025	27-Feb-2025		
		Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM		
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
Fluorene		M	2800	mg/kg	0.10	0.31	5.0	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	2.9	9.3	< 0.10	< 0.10
Anthracene		M	2800	mg/kg	0.10	0.34	1.1	< 0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	1.3	0.82	< 0.10	< 0.10
Pyrene		M	2800	mg/kg	0.10	1.1	1.1	< 0.10	< 0.10
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.54	0.31	< 0.10	< 0.10
Chrysene		M	2800	mg/kg	0.10	0.52	0.41	< 0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	0.94	0.21	< 0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.18	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	0.70	0.25	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.56	0.17	< 0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.63	0.22	< 0.10	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	10	22	< 2.0	< 2.0
Total Phenols		M	2920	mg/kg	0.10	26	12	15	< 0.10
PFAS Suite Soils		SN		µg/kg	0.0		See Attached		

Results - Single Stage WAC

Project: 25/4047- LHR042 Thorney Lane DC1

Chemtest Job No: 25-07156						Landfill Waste Acceptance Criteria		
Chemtest Sample ID: 1940918						Limits		
Sample Ref:						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID: 76								
Sample Location: DS25-15								
Top Depth(m): 0.30								
Bottom Depth(m): 0.30								
Sampling Date: 27-Feb-2025								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	2.9	3	5	6
Loss On Ignition	2610		M	%	7.9	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	9100	500	--	--
Total (Of 17) PAH's	2700		N	mg/kg	79	100	--	--
pH at 20C	2010		M		7.6	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.0050	--	To evaluate	To evaluate
Eluate Analysis							Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg	
				10:1 Eluate mg/l	10:1 Eluate mg/kg			
Arsenic	1455		U	0.0072	0.072	0.5	2	25
Barium	1455		U	0.040	0.40	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0015	0.015	0.5	10	70
Copper	1455		U	0.0094	0.094	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.016	0.16	0.5	10	30
Nickel	1455		U	0.0048	0.048	0.4	10	40
Lead	1455		U	0.0030	0.030	0.5	10	50
Antimony	1455		U	0.0010	0.010	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.018	0.18	4	50	200
Chloride	1220		U	6.6	66	800	15000	25000
Fluoride	1220		U	0.34	3.4	10	150	500
Sulphate	1220		U	27	270	1000	20000	50000
Total Dissolved Solids	1020		N	140	1400	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	9.2	92	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	25
WAC Sample Weight	2748

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity at 25°C and Total Dissolved Solids (TDS) in Waters	Conductivity 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.	RE PW PL LE DW GW
1455	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).	RE PW PL SW DW GW
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation	PL SW GW
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.	
2010	pH Value of Soils	pH at 20°C	pH Meter	
2015	Acid Neutralisation Capacity	Acid Reserve	Titration	
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES	
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry	
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.	
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.	
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazine.	
2610	Loss on Ignition	loss on ignition (LOI)	Determination of the proportion by mass that is lost from a soil by ignition at 550°C.	
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.	
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil 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)	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8–C10 Aromatics: >C5–C7,>C7–C8,>C8–C10	Water extraction / Headspace GCxGC FID detection	
2790	Semi-Volatile Organic Compounds (SVOCs) in Soils by GC-MS	Semi-volatile organic compounds(cf. USEPA Method 8270)	Acetone/Hexane extraction / GC-MS	

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	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-MS	
2815	Polychlorinated Biphenyls (PCB) ICES7Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS. Reported PCB 101 results may contain contributions from PCB 90 due to inseparable chromatography.	
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.	
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge	
650	Characterisation of Waste (Leaching WAC)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge	

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"
SOP	Standard operating procedure
LOD	Limit of detection

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

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 EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ 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.

NEW_ASB Eurofins Chemtest Limited, 11 Depot Road, Newmarket, CB8 0AL

DURHAM Eurofins Chemtest Limited, Unit A North Wing, Prospect Business Park, Crookhall Lane, Consett, Co Durham, DH8 7PW

Sample Deviation Codes

As a result of any of the below deviations applying, the test results may be unreliable

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 - The required amount of sample for analysis was not received

H - Appropriate cooling measures were not taken for sample transportation

Sample Retention and Disposal

All soil samples will be retained for a period of 30 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.

Report Information

Water Sample Category Key for Accreditation

DW - Drinking Water
GW - Ground Water
LE - Land Leachate
NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

Asbestos Tests LOD = LOQ

Limit of Detection = Limit of Quantification for asbestos results only

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

C E R T I F I C A T E

Project code : 1889696
Your Project Description : 24-07156
Client : Eurofins Chemtest Ltd

Your Sample identification
8687066 = 1940918 DS25-15 at 0.30m

Client sampling date : 27/02/2025
Date of receipt : 11/03/2025
Startdate : 11/03/2025
Reference number : 8687066
Your Matrix : Soil

Sample preparation

S AS3000 (steekmonster)		done
S weight of artifact	g	n.a.
S type of artifact		n.v.t.
S sample preparation		done

General analysis - physics

S dry weight	%	79,0

C E R T I F I C A T E

Project code : 1889696
Your Project Description : 24-07156
Client : Eurofins Chemtest Ltd

Your Sample identification
8687066 = 1940918 DS25-15 at 0.30m

Client sampling date : 27/02/2025
Date of receipt : 11/03/2025
Startdate : 11/03/2025
Reference number : 8687066
Your Matrix : Soil

Organic compounds - per- and polyfluoroalkylsubstances (PFAS) HPLC-MS/MS
Perfluorinated carboxylic acids:

S PFBA	µg/kg dw	< 0,1
S PFPeA	µg/kg dw	< 0,1
S PFHxA	µg/kg dw	< 0,1
S PFHpA	µg/kg dw	< 0,1
S PFOA linear	µg/kg dw	< 0,1
S PFOA branched	µg/kg dw	< 0,1
S PFNA	µg/kg dw	< 0,1
S PFDA	µg/kg dw	< 0,1
S PFUnDA	µg/kg dw	0,3
S PFDoDA	µg/kg dw	< 0,1
S PFTTrDA	µg/kg dw	< 0,1
S PFTeDA	µg/kg dw	< 0,1
S PFHxDA	µg/kg dw	< 0,1
S PFODA	µg/kg dw	< 0,1

Perfluorinated sulfonic acids:

S PFBS	µg/kg dw	< 0,1
S PFPeS	µg/kg dw	< 0,1
S PFHxS	µg/kg dw	< 0,1
S PFHpS	µg/kg dw	< 0,1
S PFOS linear	µg/kg dw	1,4
S PFOS branched	µg/kg dw	0,1
S PFDS	µg/kg dw	< 0,1

Perfluorinated alkyl substances - precursors:

S 4:2 FTS	µg/kg dw	< 0,1
S 6:2 FTS	µg/kg dw	< 0,1
S 8:2 FTS	µg/kg dw	< 0,1
S 10:2 FTS	µg/kg dw	< 0,1
S PFOSA	µg/kg dw	< 0,1

Perfluorinated alkyl substances - remainder:

HPFHpA	µg/kg dw	< 0,4
4H-PFUnDA	µg/kg dw	< 0,4
8:2 FTUCA	µg/kg dw	< 0,4
Q 9CI-PF3ONS (F53-B)	µg/kg dw	< 0,1
Q ADONA	µg/kg dw	< 0,1
Q EtFOSA	µg/kg dw	< 0,1
S EtFOSAA	µg/kg dw	< 0,1
MeFBSA	µg/kg dw	< 0,4
S MeFOSAA	µg/kg dw	< 0,1
Q P37DMOA	µg/kg dw	< 1
Q PFBSA	µg/kg dw	< 0,1
S MeFOSA	µg/kg dw	< 0,1
Q MeFBSAA	µg/kg dw	< 0,1
S 8:2 DiPAP	µg/kg dw	< 0,1
S HFPO-DA (GenX)	µg/kg dw	< 0,1

- The frontpage and, where applicable, appendices of this document are integral parts of this certificate.

- Analyses marked with a 'Q' are part of the RvA accreditation certificate L086.

- Analyses marked with a 'S' are part of the AS 3000 accreditation certificate.

Verificationcode: IOJX-SPRE-DLBZ-ROVH

Ref.: 1889696_certificaat_v2

CERTIFICATE

Project code : 1889696
Your Project Description : 24-07156
Client : Eurofins Chemtest Ltd

Your Sample identification

8687066 = 1940918 DS25-15 at 0.30m

Client sampling date : 27/02/2025
Date of receipt : 11/03/2025
Startdate : 11/03/2025
Reference number : 8687066
Your Matrix : Soil

S	som PFOA	µg/kg dw	0,1
S	sum PFOS	µg/kg dw	1,5

C E R T I F I C A T E

Project code	:	1889696
Your Project Description	:	24-07156
Client	:	Eurofins Chemtest Ltd

Notes related to analyses

General comments

The following information has been provided by the client if applicable:

Project description, Sample identification, Client sampling date, Client Matrix, Sample depth, Pot number (Barcode), Field data, Field observations and sampling data. The client sampling date can affect the validity of the results.

Quantification of branched PFOS/POA is based on DIN 38414-14.

Summation of concentrations for group parameters

Summation is calculated according to AS3000 protocol, paragraph 2.5.2 and appendix 3.

Project Note(s):	- Quantification of HFPO-DA (GenX) is based on 2,3,3,3-tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-propanoic acid (CAS nr. 13252-13-6). Another name of GenX is perfluoro-2-propoxyrpropanoic acid (PFPrOPrA).

C E R T I F I C A T E

Project code : 1889696
Your Project Description : 24-07156
Client : Eurofins Chemtest Ltd

Appendix Index PFAS

PFAS component	Full name PFAS component
10:2 FTS	10:2 FTS (10:2 Fluorotelomer sulfonic acid)
4:2 FTS	4:2 FTS (4:2 Fluorotelomer sulfonic acid)
4H-PFUnDA	4H-PFUnDA (2H,2H,3H,3H-Perfluoroundecanoic acid)
6:2 FTS	6:2 FTS (6:2 Fluorotelomer sulfonic acid)
8:2 DiPAP	8:2 DiPAP (8:2 Fluorotelomer phosphate diester)
8:2 FTS	8:2 FTS (8:2 Fluorotelomer sulfonic acid)
8:2 FTUCA	8:2 FTUCA (8:2 Fluorotelomer unsaturated carboxylic acid)
9Cl-PF3ONS (F53-B)	9Cl-PF3ONS (F53-B) (9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid)
ADONA	ADONA (ammonium 4,8-dioxa-3H-perfluorononanoate)
EtFOSA	EtFOSA (N-ethyl perfluorooctanesulfonamide)
EtFOSAA	EtFOSAA (perfluorooctanesulfonylamide(N-ethyl)acetate)
HPFHpA	HPFHpA (7H-perfluoroheptanoic acid)
MeFBSA	MeFBSA (N-methylperfluorobutanesulfonylamide)
MeFBSAA	MeFBSAA (perfluorobutanesulfonylamide(N-methyl)acetate)
MeFOSA	MeFOSA (N-methyl perfluorooctanesulfonamide)
MeFOSAA	MeFOSAA (N-methyl perfluorooctanesulfonamidoacetic acid)
P37DMOA	P37DMOA (perfluoro-3,7-dimethyloctanoic acid)
PFBA	PFBA (perfluorobutanoic acid)
PFBS	PFBS (perfluorobutanesulfonic acid)
PFBSA	PFBSA (perfluorobutanesulfonamide)
PFDA	PFDA (perfluorodecanoic acid)
PFDoDA	PFDoDA (perfluorododecanoic acid)
PFDS	PFDS (perfluorodecanesulfonic acid)
PFHhA	PFHhA (perfluoroheptanoic acid)
PFHhS	PFHhS (perfluoroheptanesulfonic acid)
PFHxA	PFHxA (perfluorohexanoic acid)
PFHxDA	PFHxDA (perfluorohexadecanoic acid)
PFHxS	PFHxS (perfluorohexanesulfonic acid)
PFNA	PFNA (perfluorononanoic acid)
PFOA branched	PFOA branched (perfluorooctanoic acid)
PFOA linear	PFOA linear (perfluorooctanoic acid)
PFODA	PFODA (perfluorooctadecanoic acid)
PFOS branched	PFOS branched (perfluorooctanesulfonic acid)
PFOS linear	PFOS linear (perfluorooctanesulfonic acid)
PFOSA	PFOSA (perfluorooctanesulfonamide)
PFPeA	PFPeA (perfluoropentanoic acid)
PFPeS	PFPeS (perfluoropentanesulfonic acid)
PFTeDA	PFTeDA (perfluorotetradecanoic acid)
PFTTrDA	PFTTrDA (perfluorotridecanoic acid)
PFUnDA	PFUnDA (perfluoroundecanoic acid)

C E R T I F I C A T E

Project code : 1889696
Your Project Description : 24-07156
Client : Eurofins Chemtest Ltd

Methodology Soil (AS3000)**AS3000**

In dit analysecertificaat zijn de met 'S' gemerkte analyses uitgevoerd volgens de analysemethoden beschreven in het "Accreditatieschema Laboratoriumanalyses voor grond-, waterbodem- en grondwateronderzoek (AS SIKB 3000)". Het laboratoriumonderzoek is uitgevoerd volgens de onderstaande analysemethoden. Deze analyses zijn vastgelegd in het geldende accreditatie-certificaat met bijbehorende verrichtingenlijst L086 van Eurofins Omegam BV.

Samplemate : Conform AS3000 en NEN-EN 16179
Dry weight : Conform AS3010 prestatieblad 2
PFAS : Conform AS3080 prestatieblad 1
GenX : Conform AS3080 prestatieblad 2

In this certificate of analysis, the analysis marked with 'Q' have been carried out according to the analysis methods below. The analysis are registrated in the current accreditation certificate with associated annex to declaration of accreditation (scope of accreditation) L086 of Eurofins Omegam BV.

PFAS : In house method



Final Report

Report No.: 25-07359-1

Initial Date of Issue: 08-Apr-2025

Re-Issue Details:

Client Concept Engineering Consultants

Client Address: 47 - 49 Brunel Road
London
W3 7XR

Contact(s): Gabriela Mandache
Kasia Mazerant
Lab

Project 25/4047 - LHR042 Thorney Lane DC1

Quotation No.: Q25-36897 **Date Received:** 04-Mar-2025

Order No.: 104946 (CL6739) **Date Instructed:** 05-Mar-2025

No. of Samples: 5

Turnaround (Wkdays): 25 **Results Due:** 08-Apr-2025

Date Approved: 07-Apr-2025 **Subcon Results Due:** 26-Mar-2025

Approved By:

Details: Simon Wicks, Specialist Chemist

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: 25/4047 - LHR042 Thorney Lane DC1

Client: Concept Engineering Consultants		Chemtest Job No.:				25-07359	25-07359	25-07359	25-07359	25-07359
Quotation No.: Q25-36897		Chemtest Sample ID.:				1941807	1941808	1941809	1941810	1941811
		Client Sample ID.:				80	81	82	83	84
		Sample Location:				DS25-15	DS25-17	DS25-17	DS25-09	DS25-09
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				1.4	0.8	0.3	0.8	0.3
		Date Sampled:				03-Mar-2025	03-Mar-2025	03-Mar-2025	03-Mar-2025	03-Mar-2025
		Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
ACM Type		N	2192		N/A	-	-	-	-	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture		N	2030	%	0.020	7.8	4.1	4.6	13	7.1
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones	Stones
Soil Texture		N	2040		N/A	Clay	Clay	Loam	Clay	Loam
pH at 20C		M	2010		4.0	7.5	8.0	8.7	8.3	10.4
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	< 0.40	2.7	< 0.40	0.76	0.53
Cyanide (Total)		M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Arsenic		M	2455	mg/kg	0.5	24	15	25	14	33
Beryllium		U	2455	mg/kg	0.5	1.3	1.0	1.8	1.1	2.4
Cadmium		M	2455	mg/kg	0.10	0.27	0.12	0.10	0.10	0.15
Chromium		M	2455	mg/kg	0.5	27	20	37	36	96
Antimony		N	2455	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Copper		M	2455	mg/kg	0.50	24	11	21	23	73
Mercury		M	2455	mg/kg	0.05	0.08	0.06	0.09	0.13	0.39
Nickel		M	2455	mg/kg	0.50	43	24	30	29	34
Lead		M	2455	mg/kg	0.50	20	7.5	67	35	48
Selenium		M	2455	mg/kg	0.25	0.66	0.32	< 0.25	0.38	0.31
Vanadium		U	2455	mg/kg	0.5	51	28	47	46	43
Zinc		M	2455	mg/kg	0.50	58	35	56	68	60
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Aliphatic VPH >C5-C6	HS_2D_AL	S	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C6-C8	HS_2D_AL	S	2780	mg/kg	0.10	0.48	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic Total >C05-C35	HS_2D_AL	SN	2780	mg/kg	19.00	1400	< 19	< 19	< 19	65
Aromatic Total >C05-C35	HS_2D_AL	S	2780	mg/kg	19.00	950	< 19	< 19	< 19	41
Ali Aro Total >C05-C35	HS_2D_AL	SN	2780	mg/kg	38.00	2300	< 38	< 38	< 38	110
Aliphatic VPH >C8-C10	HS_2D_AL	SN	2780	mg/kg	0.05	17	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic EPH >C10-C12	EH_2D_AL_#1	S	2690	mg/kg	0.20	17	< 1.00	< 1.00	< 1.00	< 1.00
Aliphatic EPH >C12-C16	EH_2D_AL_#1	S	2690	mg/kg	4.00	360	< 4.0	< 4.0	< 4.0	8.1
Aliphatic EPH >C16-C21	EH_2D_AL_#1	S	2690	mg/kg	7.00	520	< 8.00	< 8.00	< 8.00	39
Aliphatic EPH >C21-C35	EH_2D_AL_#1	S	2690	mg/kg	7.00	210	< 8.00	< 8.00	< 8.00	18
Aromatic VPH >C5-C7	HS_2D_AR	S	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic VPH >C7-C8	HS_2D_AR	S	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic VPH >C8-C10	HS_2D_AR	S	2780	mg/kg	0.10	0.46	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic EPH >C10-C12	EH_2D_AR_#1	S	2690	mg/kg	0.20	14	< 1.00	< 1.00	< 1.00	< 1.00

Results - Soil

Project: 25/4047 - LHR042 Thorney Lane DC1

Client: Concept Engineering Consultants		Chemtest Job No.:		25-07359	25-07359	25-07359	25-07359	25-07359
Quotation No.: Q25-36897		Chemtest Sample ID.:		1941807	1941808	1941809	1941810	1941811
		Client Sample ID.:		80	81	82	83	84
		Sample Location:		DS25-15	DS25-17	DS25-17	DS25-09	DS25-09
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):		1.4	0.8	0.3	0.8	0.3
		Date Sampled:		03-Mar-2025	03-Mar-2025	03-Mar-2025	03-Mar-2025	03-Mar-2025
		Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD			
Aromatic EPH >C12-C16	EH_2D_AR_#1	S	2690	mg/kg	4.00	280	< 4.0	< 4.0
Aromatic EPH >C16-C21	EH_2D_AR_#1	S	2690	mg/kg	7.00	520	< 10.00	< 10.00
Aromatic EPH >C21-C35	EH_2D_AR_#1	S	2690	mg/kg	7.00	130	< 10.00	< 10.00
Total Organic Carbon		M	2625	%	0.20	0.48	< 0.20	0.63
Dichlorodifluoromethane		U	2760	mg/kg	0.0010	< 0.0010		
Chloromethane		M	2760	mg/kg	0.0010	< 0.0010		
Vinyl Chloride		M	2760	mg/kg	0.0010	< 0.0010		
Bromomethane		M	2760	mg/kg	0.020	< 0.020		
Chloroethane		U	2760	mg/kg	0.0020	< 0.0020		
Trichlorofluoromethane		M	2760	mg/kg	0.0010	< 0.0010		
1,1-Dichloroethene		M	2760	mg/kg	0.0010	< 0.0010		
Trans 1,2-Dichloroethene		M	2760	mg/kg	0.0010	< 0.0010		
1,1-Dichloroethane		M	2760	mg/kg	0.0010	< 0.0010		
cis 1,2-Dichloroethene		M	2760	mg/kg	0.0010	< 0.0010		
Bromochloromethane		U	2760	mg/kg	0.0050	< 0.0050		
Trichloromethane		M	2760	mg/kg	0.0010	< 0.0010		
1,1,1-Trichloroethane		M	2760	mg/kg	0.0010	< 0.0010		
Tetrachloromethane		M	2760	mg/kg	0.0010	< 0.0010		
1,1-Dichloropropene		U	2760	mg/kg	0.0010	< 0.0010		
Benzene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010
1,2-Dichloroethane		M	2760	mg/kg	0.0020	< 0.0020		
Trichloroethene		N	2760	mg/kg	0.0010	< 0.0010		
1,2-Dichloropropane		M	2760	mg/kg	0.0010	< 0.0010		
Dibromomethane		M	2760	mg/kg	0.0010	< 0.0010		
Bromodichloromethane		M	2760	mg/kg	0.0050	< 0.0050		
cis-1,3-Dichloropropene		N	2760	mg/kg	0.010	< 0.010		
Toluene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010
Trans-1,3-Dichloropropene		N	2760	mg/kg	0.010	< 0.010		
1,1,2-Trichloroethane		M	2760	mg/kg	0.010	< 0.010		
Tetrachloroethene		M	2760	mg/kg	0.0010	< 0.0010		
1,3-Dichloropropane		U	2760	mg/kg	0.0020	< 0.0020		
Dibromochloromethane		U	2760	mg/kg	0.010	< 0.010		
1,2-Dibromoethane		M	2760	mg/kg	0.0050	< 0.0050		
Chlorobenzene		M	2760	mg/kg	0.0010	< 0.0010		
1,1,1,2-Tetrachloroethane		M	2760	mg/kg	0.0020	< 0.0020		
Ethylbenzene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010
m & p-Xylene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010

Results - Soil

Project: 25/4047 - LHR042 Thorney Lane DC1

Client: Concept Engineering Consultants		Chemtest Job No.:		25-07359	25-07359	25-07359	25-07359	25-07359
Quotation No.: Q25-36897		Chemtest Sample ID.:		1941807	1941808	1941809	1941810	1941811
		Client Sample ID.:		80	81	82	83	84
		Sample Location:		DS25-15	DS25-17	DS25-17	DS25-09	DS25-09
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):		1.4	0.8	0.3	0.8	0.3
		Date Sampled:		03-Mar-2025	03-Mar-2025	03-Mar-2025	03-Mar-2025	03-Mar-2025
		Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD			
o-Xylene		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010
Styrene		M	2760	mg/kg	0.0010	< 0.0010		
Tribromomethane		U	2760	mg/kg	0.0010	< 0.0010		
Isopropylbenzene		M	2760	mg/kg	0.0010	< 0.0010		
Bromobenzene		M	2760	mg/kg	0.0010	< 0.0010		
1,2,3-Trichloropropane		N	2760	mg/kg	0.050	< 0.050		
N-Propylbenzene		U	2760	mg/kg	0.0010	< 0.0010		
2-Chlorotoluene		M	2760	mg/kg	0.0010	< 0.0010		
1,3,5-Trimethylbenzene		M	2760	mg/kg	0.0010	< 0.0010		
4-Chlorotoluene		U	2760	mg/kg	0.0010	< 0.0010		
Tert-Butylbenzene		U	2760	mg/kg	0.0010	< 0.0010		
1,2,4-Trimethylbenzene		M	2760	mg/kg	0.0010	< 0.0010		
Sec-Butylbenzene		U	2760	mg/kg	0.0010	0.090		
1,3-Dichlorobenzene		M	2760	mg/kg	0.0010	< 0.0010		
4-Isopropyltoluene		N	2760	mg/kg	0.0010	< 0.0010		
1,4-Dichlorobenzene		M	2760	mg/kg	0.0010	< 0.0010		
N-Butylbenzene		U	2760	mg/kg	0.0010	< 0.0010		
1,2-Dichlorobenzene		M	2760	mg/kg	0.0010	< 0.0010		
1,2-Dibromo-3-Chloropropane		U	2760	mg/kg	0.050	< 0.050		
1,2,4-Trichlorobenzene		M	2760	mg/kg	0.0010	< 0.0010		
Hexachlorobutadiene		U	2760	mg/kg	0.0010	< 0.0010		
1,2,3-Trichlorobenzene		U	2760	mg/kg	0.0020	< 0.0020		
Methyl Tert-Butyl Ether		M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010
N-Nitrosodimethylamine		M	2790	mg/kg	0.50	< 0.50		
Phenol		M	2790	mg/kg	0.50	< 0.50		
2-Chlorophenol		N	2790	mg/kg	0.50	< 0.50		
Bis-(2-Chloroethyl)Ether		M	2790	mg/kg	0.50	< 0.50		
1,3-Dichlorobenzene		M	2790	mg/kg	0.50	< 0.50		
1,4-Dichlorobenzene		N	2790	mg/kg	0.50	< 0.50		
1,2-Dichlorobenzene		M	2790	mg/kg	0.50	< 0.50		
2-Methylphenol		M	2790	mg/kg	0.50	< 0.50		
Bis(2-Chloroisopropyl)Ether		N	2790	mg/kg	0.50	< 0.50		
Hexachloroethane		N	2790	mg/kg	0.50	< 0.50		
N-Nitrosodi-n-propylamine		M	2790	mg/kg	0.50	< 0.50		
4-Methylphenol		M	2790	mg/kg	0.50	< 0.50		
Nitrobenzene		N	2790	mg/kg	0.50	< 0.50		
Isophorone		M	2790	mg/kg	0.50	< 0.50		

Results - Soil

Project: 25/4047 - LHR042 Thorney Lane DC1

Client: Concept Engineering Consultants		Chemtest Job No.:				25-07359	25-07359	25-07359	25-07359	25-07359
Quotation No.: Q25-36897		Chemtest Sample ID.:				1941807	1941808	1941809	1941810	1941811
		Client Sample ID.:				80	81	82	83	84
		Sample Location:				DS25-15	DS25-17	DS25-17	DS25-09	DS25-09
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				1.4	0.8	0.3	0.8	0.3
		Date Sampled:				03-Mar-2025	03-Mar-2025	03-Mar-2025	03-Mar-2025	03-Mar-2025
		Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
2-Nitrophenol		N	2790	mg/kg	0.50	< 0.50				
2,4-Dimethylphenol		N	2790	mg/kg	0.50	< 0.50				
Bis(2-Chloroethoxy)Methane		M	2790	mg/kg	0.50	< 0.50				
2,4-Dichlorophenol		N	2790	mg/kg	0.50	< 0.50				
1,2,4-Trichlorobenzene		M	2790	mg/kg	0.50	< 0.50				
Naphthalene		M	2790	mg/kg	0.50	< 0.50				
4-Chloroaniline		N	2790	mg/kg	0.50	< 0.50				
Hexachlorobutadiene		M	2790	mg/kg	0.50	< 0.50				
4-Chloro-3-Methylphenol		N	2790	mg/kg	0.50	< 0.50				
2-Methylnaphthalene		M	2790	mg/kg	0.50	0.88				
4-Nitrophenol		N	2790	mg/kg	0.50	< 0.50				
2,4,6-Trichlorophenol		N	2790	mg/kg	0.50	< 0.50				
2,4,5-Trichlorophenol		N	2790	mg/kg	0.50	< 0.50				
2-Chloronaphthalene		M	2790	mg/kg	0.50	< 0.50				
2-Nitroaniline		N	2790	mg/kg	0.50	< 0.50				
Acenaphthylene		M	2790	mg/kg	0.50	< 0.50				
Dimethylphthalate		M	2790	mg/kg	0.50	< 0.50				
2,6-Dinitrotoluene		N	2790	mg/kg	0.50	< 0.50				
Acenaphthene		M	2790	mg/kg	0.50	1.9				
3-Nitroaniline		N	2790	mg/kg	0.50	< 0.50				
Dibenzofuran		M	2790	mg/kg	0.50	1.4				
4-Chlorophenylphenylether		M	2790	mg/kg	0.50	< 0.50				
2,4-Dinitrotoluene		N	2790	mg/kg	0.50	< 0.50				
Fluorene		M	2790	mg/kg	0.50	4.5				
Diethyl Phthalate		M	2790	mg/kg	0.50	< 0.50				
4-Nitroaniline		N	2790	mg/kg	0.50	< 0.50				
Azobenzene		M	2790	mg/kg	0.50	< 0.50				
4-Bromophenylphenyl Ether		M	2790	mg/kg	0.50	< 0.50				
Hexachlorobenzene		M	2790	mg/kg	0.50	< 0.50				
Phenanthrene		M	2790	mg/kg	0.50	9.4				
Anthracene		M	2790	mg/kg	0.50	0.86				
Carbazole		M	2790	mg/kg	0.50	< 0.50				
Di-N-Butyl Phthalate		N	2790	mg/kg	0.50	< 0.50				
Fluoranthene		M	2790	mg/kg	0.50	< 0.50				
Pyrene		M	2790	mg/kg	0.50	1.5				
Butylbenzyl Phthalate		N	2790	mg/kg	0.50	< 0.50				
Benzo[a]anthracene		M	2790	mg/kg	0.50	< 0.50				

Results - Soil

Project: 25/4047 - LHR042 Thorney Lane DC1

Client: Concept Engineering Consultants		Chemtest Job No.:				25-07359	25-07359	25-07359	25-07359	25-07359
Quotation No.: Q25-36897		Chemtest Sample ID.:				1941807	1941808	1941809	1941810	1941811
		Client Sample ID.:				80	81	82	83	84
		Sample Location:				DS25-15	DS25-17	DS25-17	DS25-09	DS25-09
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				1.4	0.8	0.3	0.8	0.3
		Date Sampled:				03-Mar-2025	03-Mar-2025	03-Mar-2025	03-Mar-2025	03-Mar-2025
		Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
Chrysene		M	2790	mg/kg	0.50	< 0.50				
Bis(2-Ethylhexyl)Phthalate		N	2790	mg/kg	0.50	< 0.50				
Di-N-Octyl Phthalate		N	2790	mg/kg	0.50	< 0.50				
Benzo[b]fluoranthene		M	2790	mg/kg	0.50	< 0.50				
Benzo[k]fluoranthene		M	2790	mg/kg	0.50	< 0.50				
Benzo[a]pyrene		M	2790	mg/kg	0.50	< 0.50				
Indeno(1,2,3-c,d)Pyrene		N	2790	mg/kg	0.50	< 0.50				
Dibenz(a,h)Anthracene		N	2790	mg/kg	0.50	< 0.50				
Benzo[g,h,i]perylene		M	2790	mg/kg	0.50	< 0.50				
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.15
Fluorene		M	2800	mg/kg	0.10	4.0	< 0.10	< 0.10	< 0.10	0.17
Phenanthrene		M	2800	mg/kg	0.10	9.4	< 0.10	0.27	0.19	0.95
Anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	0.10	< 0.10	0.17
Fluoranthene		M	2800	mg/kg	0.10	0.52	< 0.10	0.46	0.25	1.2
Pyrene		M	2800	mg/kg	0.10	1.4	< 0.10	0.43	0.23	0.99
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	0.33	< 0.10	0.40
Chrysene		M	2800	mg/kg	0.10	< 0.10	< 0.10	0.33	< 0.10	0.18
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	0.38	< 0.10	0.40
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	0.27	< 0.10	0.16
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	0.31	< 0.10	0.43
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	0.30	< 0.10	0.28
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	0.23	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	< 0.10	0.30	< 0.10	0.26
Total Of 16 PAH's		N	2800	mg/kg	2.0	15	< 2.0	3.7	< 2.0	5.8
Total Phenols		M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
PFAS Suite Soils		SN		µg/kg	0.0			See Attached	See Attached	

Results - Single Stage WAC

Project: 25/4047 - LHR042 Thorney Lane DC1

Project: 2016-17 - Enviro-Phoney Lake DC						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-07359						Limits		
Chemtest Sample ID: 1941809						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample Ref:								
Sample ID: 82								
Sample Location: DS25-17								
Top Depth(m): 0.3								
Bottom Depth(m):								
Sampling Date: 03-Mar-2025								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	0.63	3	5	6
Loss On Ignition	2610		M	%	1.4	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	< 10	500	--	--
Total (Of 17) PAH's	2700		N	mg/kg	< 2.0	100	--	--
pH at 20C	2010		M		8.7	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.022	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0014	0.014	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0024	0.024	0.5	10	70
Copper	1455		U	0.0055	0.055	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0019	0.019	0.5	10	30
Nickel	1455		U	0.0011	0.011	0.4	10	40
Lead	1455		U	0.0016	0.016	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.014	0.14	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.16	1.6	10	150	500
Sulphate	1220		U	< 1.0	< 10	1000	20000	50000
Total Dissolved Solids	1020		N	26	260	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	< 2.5	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	6.0
WAC Sample Weight	5010

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25/4047 - LHR042 Thorney Lane DC1

Chemtest Job No: 25-07359						Landfill Waste Acceptance Criteria		
Chemtest Sample ID: 1941810						Limits		
Sample Ref:						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID: 83								
Sample Location: DS25-09								
Top Depth(m): 0.8								
Bottom Depth(m):								
Sampling Date: 03-Mar-2025								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	0.59	3	5	6
Loss On Ignition	2610		M	%	3.3	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	< 10	500	--	--
Total (Of 17) PAH's	2700		N	mg/kg	< 2.0	100	--	--
pH at 20C	2010		M		8.3	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.012	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0021	0.021	0.5	2	25
Barium	1455		U	0.008	0.079	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0032	0.032	0.5	10	70
Copper	1455		U	0.0052	0.052	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0024	0.024	0.5	10	30
Nickel	1455		U	0.0021	0.021	0.4	10	40
Lead	1455		U	0.0020	0.020	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.011	0.11	4	50	200
Chloride	1220		U	1.4	14	800	15000	25000
Fluoride	1220		U	0.22	2.2	10	150	500
Sulphate	1220		U	4.5	45	1000	20000	50000
Total Dissolved Solids	1020		N	28	280	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	3.2	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	38
WAC Sample Weight	3144

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity at 25°C and Total Dissolved Solids (TDS) in Waters	Conductivity 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.	RE PW PL LE DW GW
1455	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).	RE PW PL SW DW GW
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation	PL SW GW
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.	
2010	pH Value of Soils	pH at 20°C	pH Meter	
2015	Acid Neutralisation Capacity	Acid Reserve	Titration	
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES	
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry	
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.	
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.	
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazine.	
2610	Loss on Ignition	loss on ignition (LOI)	Determination of the proportion by mass that is lost from a soil by ignition at 550°C.	
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.	
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenzo[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)	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8-C10 Aromatics: >C5–C7,>C7-C8,>C8–C10	Water extraction / Headspace GCxGC FID detection	

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2790	Semi-Volatile Organic Compounds (SVOCs) in Soils by GC-MS	Semi-volatile organic compounds(cf. USEPA Method 8270)	Acetone/Hexane extraction / GC-MS	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	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-MS	
2815	Polychlorinated Biphenyls (PCB) ICES7Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS. Reported PCB 101 results may contain contributions from PCB 90 due to inseparable chromatography.	
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.	
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge	
650	Characterisation of Waste (Leaching WAC)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge	

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"
SOP	Standard operating procedure
LOD	Limit of detection

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

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 EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ 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.

NEW_ASB Eurofins Chemtest Limited, 11 Depot Road, Newmarket, CB8 0AL

DURHAM Eurofins Chemtest Limited, Unit A North Wing, Prospect Business Park, Crookhall Lane, Consett, Co Durham, DH8 7PW

Sample Deviation Codes

As a result of any of the below deviations applying, the test results may be unreliable

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 - The required amount of sample for analysis was not received

H - Appropriate cooling measures were not taken for sample transportation

Sample Retention and Disposal

All soil samples will be retained for a period of 30 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.

Report Information

Water Sample Category Key for Accreditation

DW - Drinking Water
GW - Ground Water
LE - Land Leachate
NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

Asbestos Tests LOD = LOQ

Limit of Detection = Limit of Quantification for asbestos results only

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

C E R T I F I C A T E

Project code : 1889699
Your Project Description : 25-07359
Client : Eurofins Chemtest Ltd

Your Sample identification
8687070 = 1941810 DS25-09 at 0.8

Client sampling date : 03/03/2025
Date of receipt : 11/03/2025
Startdate : 11/03/2025
Reference number : 8687070
Your Matrix : Soil

Sample preparation

S AS3000 (steekmonster)		done
S weight of artifact	g	n.a.
S type of artifact		n.v.t.
S sample preparation		done

General analysis - physics

S dry weight	%	84,6

C E R T I F I C A T E

Project code : 1889699
Your Project Description : 25-07359
Client : Eurofins Chemtest Ltd

Your Sample identification
8687070 = 1941810 DS25-09 at 0.8

Client sampling date : 03/03/2025
Date of receipt : 11/03/2025
Startdate : 11/03/2025
Reference number : 8687070
Your Matrix : Soil

Organic compounds - per- and polyfluoroalkylsubstances (PFAS) HPLC-MS/MS
Perfluorinated carboxylic acids:

S	PFBA	µg/kg dw	< 0,1
S	PFPeA	µg/kg dw	< 0,1
S	PFHxA	µg/kg dw	< 0,1
S	PFHpA	µg/kg dw	< 0,1
S	PFOA linear	µg/kg dw	< 0,1
S	PFOA branched	µg/kg dw	< 0,1
S	PFNA	µg/kg dw	< 0,1
S	PFDA	µg/kg dw	< 0,1
S	PFUnDA	µg/kg dw	< 0,1
S	PFDODA	µg/kg dw	< 0,1
S	PFTTrDA	µg/kg dw	< 0,1
S	PFTeDA	µg/kg dw	< 0,1
S	PFHxDA	µg/kg dw	< 0,1
S	PFODA	µg/kg dw	< 0,1

Perfluorinated sulfonic acids:

S	PFBS	µg/kg dw	< 0,1
S	PFPeS	µg/kg dw	< 0,1
S	PFHxS	µg/kg dw	< 0,1
S	PFHpS	µg/kg dw	< 0,1
S	PFOS linear	µg/kg dw	< 0,1
S	PFOS branched	µg/kg dw	< 0,1
S	PFDS	µg/kg dw	< 0,1

Perfluorinated alkyl substances - precursors:

S	4:2 FTS	µg/kg dw	< 0,1
S	6:2 FTS	µg/kg dw	< 0,1
S	8:2 FTS	µg/kg dw	< 0,1
S	10:2 FTS	µg/kg dw	< 0,1
S	PFOSA	µg/kg dw	< 0,1

Perfluorinated alkyl substances - remainder:

	HPFHpA	µg/kg dw	< 0,4
	4H-PFUnDA	µg/kg dw	< 0,4
	8:2 FTUCA	µg/kg dw	< 0,4
Q	9CI-PF3ONS (F53-B)	µg/kg dw	< 0,1
Q	ADONA	µg/kg dw	< 0,1
Q	EtFOSA	µg/kg dw	< 0,1
S	EtFOSAA	µg/kg dw	< 0,1
	MeFBSA	µg/kg dw	< 0,4
S	MeFOSAA	µg/kg dw	< 0,1
Q	P37DMOA	µg/kg dw	< 1
Q	PFBSA	µg/kg dw	< 0,1
S	MeFOSA	µg/kg dw	< 0,1
Q	MeFBSAA	µg/kg dw	< 0,1
S	8:2 DiPAP	µg/kg dw	< 0,1
S	HFPO-DA (GenX)	µg/kg dw	< 0,1

- The frontpage and, where applicable, appendices of this document are integral parts of this certificate.

- Analyses marked with a 'Q' are part of the RvA accreditation certificate L086.

- Analyses marked with a 'S' are part of the AS 3000 accreditation certificate.

Verificationcode: HLZT-ZWXV-CQUW-GYXR

Ref.: 1889699_certificaat_v2

CERTIFICATE

Project code : 1889699
Your Project Description : 25-07359
Client : Eurofins Chemtest Ltd

Your Sample identification
8687070 = 1941810 DS25-09 at 0.8

Client sampling date : 03/03/2025
Date of receipt : 11/03/2025
Startdate : 11/03/2025
Reference number : 8687070
Your Matrix : Soil

S	som PFOA	µg/kg dw	0,1
S	sum PFOS	µg/kg dw	0,1

C E R T I F I C A T E

Project code : 1889699
Your Project Description : 25-07359
Client : Eurofins Chemtest Ltd

Your Sample identification
 8692035 = 1941809 DS25-17 at 0.3

Client sampling date	:	03/03/2025
Date of receipt	:	11/03/2025
Startdate	:	13/03/2025
Reference number	:	8692035
Your Matrix	:	Debris

General analysis - physics		
dry weight	%	97,9

C E R T I F I C A T E

Project code : 1889699
Your Project Description : 25-07359
Client : Eurofins Chemtest Ltd

Your Sample identification
 8692035 = 1941809 DS25-17 at 0.3

Client sampling date : 03/03/2025
Date of receipt : 11/03/2025
Startdate : 13/03/2025
Reference number : 8692035
Your Matrix : Debris

Organic compounds - per- and polyfluoroalkylsubstances (PFAS) HPLC-MS/MS
Perfluorinated carboxylic acids:

PFBA	µg/kg dw	< 0,1
PFPeA	µg/kg dw	< 0,1
PFHxA	µg/kg dw	< 0,1
PFHpA	µg/kg dw	< 0,1
PFOA linear	µg/kg dw	< 0,1
PFOA branched	µg/kg dw	< 0,1
PFNA	µg/kg dw	< 0,1
PFDA	µg/kg dw	< 0,1
PFUnDA	µg/kg dw	< 0,1
PFDODA	µg/kg dw	< 0,1
PFTTrDA	µg/kg dw	< 0,1
PFTeDA	µg/kg dw	< 0,1
PFHxDA	µg/kg dw	< 0,1
PFODA	µg/kg dw	< 0,1

Perfluorinated sulfonic acids:

PFBS	µg/kg dw	< 0,1
PFPeS	µg/kg dw	< 0,1
PFHxS	µg/kg dw	< 0,1
PFHpS	µg/kg dw	< 0,1
PFOS linear	µg/kg dw	0,1
PFOS branched	µg/kg dw	< 0,1
PFDS	µg/kg dw	< 0,1

Perfluorinated alkyl substances - precursors:

4:2 FTS	µg/kg dw	< 0,1
6:2 FTS	µg/kg dw	< 0,1
8:2 FTS	µg/kg dw	< 0,1
10:2 FTS	µg/kg dw	< 0,1
PFOSA	µg/kg dw	< 0,1

Perfluorinated alkyl substances - remainder:

HPFHpA	µg/kg dw	< 0,4
4H-PFUnDA	µg/kg dw	< 0,4
8:2 FTUCA	µg/kg dw	< 0,4
9Cl-PF3ONS (F53-B)	µg/kg dw	< 0,1
ADONA	µg/kg dw	< 0,1
EtFOSA	µg/kg dw	< 0,1
EtFOSAA	µg/kg dw	< 0,1
MeFBSA	µg/kg dw	< 0,4
MeFOSAA	µg/kg dw	< 0,1
P37DMOA	µg/kg dw	< 1
PFBSA	µg/kg dw	< 0,1
MeFOSA	µg/kg dw	< 0,1
MeFBSAA	µg/kg dw	< 0,1
8:2 DiPAP	µg/kg dw	< 0,1
HFPO-DA (GenX)	µg/kg dw	< 0,1

- The frontpage and, where applicable, appendices of this document are integral parts of this certificate.

- Analyses marked with a 'Q' are part of the RvA accreditation certificate L086.

- Analyses marked with a 'S' are part of the AS 3000 accreditation certificate.

Verificationcode: HLZT-ZWXV-CQUW-GYXR

Ref.: 1889699_certificaat_v2

C E R T I F I C A T E

Project code : 1889699
Your Project Description : 25-07359
Client : Eurofins Chemtest Ltd

Your Sample identification
 8692035 = 1941809 DS25-17 at 0.3

Client sampling date	:	03/03/2025
Date of receipt	:	11/03/2025
Startdate	:	13/03/2025
Reference number	:	8692035
Your Matrix	:	Debris

som PFOA	µg/kg dw	0,1
sum PFOS	µg/kg dw	0,2

C E R T I F I C A T E

Project code	:	1889699
Your Project Description	:	25-07359
Client	:	Eurofins Chemtest Ltd

Notes related to analyses

General comments

The following information has been provided by the client if applicable:

Project description, Sample identification, Client sampling date, Client Matrix, Sample depth, Pot number (Barcode), Field data, Field observations and sampling data. The client sampling date can affect the validity of the results.

Quantification of branched PFOS/POA is based on DIN 38414-14.

Summation of concentrations for group parameters

Summation is calculated according to AS3000 protocol, paragraph 2.5.2 and appendix 3.

Project Note(s):	- Quantification of HFPO-DA (GenX) is based on 2,3,3,3-tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-propanoic acid (CAS nr. 13252-13-6). Another name of GenX is perfluoro-2-propoxypropanoic acid (PFPrOPrA).

C E R T I F I C A T E

Project code : 1889699
Your Project Description : 25-07359
Client : Eurofins Chemtest Ltd

Appendix Index PFAS

PFAS component	Full name PFAS component
10:2 FTS	10:2 FTS (10:2 Fluorotelomer sulfonic acid)
4:2 FTS	4:2 FTS (4:2 Fluorotelomer sulfonic acid)
4H-PFUnDA	4H-PFUnDA (2H,2H,3H,3H-Perfluoroundecanoic acid)
6:2 FTS	6:2 FTS (6:2 Fluorotelomer sulfonic acid)
8:2 DiPAP	8:2 DiPAP (8:2 Fluorotelomer phosphate diester)
8:2 FTS	8:2 FTS (8:2 Fluorotelomer sulfonic acid)
8:2 FTUCA	8:2 FTUCA (8:2 Fluorotelomer unsaturated carboxylic acid)
9Cl-PF3ONS (F53-B)	9Cl-PF3ONS (F53-B) (9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid)
ADONA	ADONA (ammonium 4,8-dioxa-3H-perfluorononanoate)
EtFOSA	EtFOSA (N-ethyl perfluorooctanesulfonamide)
EtFOSAA	EtFOSAA (perfluorooctanesulfonylamide(N-ethyl)acetate)
HPFHpA	HPFHpA (7H-perfluoroheptanoic acid)
MeFBSA	MeFBSA (N-methylperfluorobutanesulfonylamide)
MeFBSAA	MeFBSAA (perfluorobutanesulfonylamide(N-methyl)acetate)
MeFOSA	MeFOSA (N-methyl perfluorooctanesulfonamide)
MeFOSAA	MeFOSAA (N-methyl perfluorooctanesulfonamidoacetic acid)
P37DMOA	P37DMOA (perfluoro-3,7-dimethyloctanoic acid)
PFBA	PFBA (perfluorobutanoic acid)
PFBS	PFBS (perfluorobutanesulfonic acid)
PFBSA	PFBSA (perfluorobutanesulfonamide)
PFDA	PFDA (perfluorodecanoic acid)
PFDoDA	PFDoDA (perfluorododecanoic acid)
PFDS	PFDS (perfluorodecanesulfonic acid)
PFHhA	PFHhA (perfluoroheptanoic acid)
PFHhS	PFHhS (perfluoroheptanesulfonic acid)
PFHxA	PFHxA (perfluorohexanoic acid)
PFHxDA	PFHxDA (perfluorohexadecanoic acid)
PFHxS	PFHxS (perfluorohexanesulfonic acid)
PFNA	PFNA (perfluorononanoic acid)
PFOA branched	PFOA branched (perfluorooctanoic acid)
PFOA linear	PFOA linear (perfluorooctanoic acid)
PFODA	PFODA (perfluorooctadecanoic acid)
PFOS branched	PFOS branched (perfluorooctanesulfonic acid)
PFOS linear	PFOS linear (perfluorooctanesulfonic acid)
PFOSA	PFOSA (perfluorooctanesulfonamide)
PFPeA	PFPeA (perfluoropentanoic acid)
PFPeS	PFPeS (perfluoropentanesulfonic acid)
PFTeDA	PFTeDA (perfluorotetradecanoic acid)
PFTTrDA	PFTTrDA (perfluorotridecanoic acid)
PFUnDA	PFUnDA (perfluoroundecanoic acid)

C E R T I F I C A T E

Project code : 1889699
Your Project Description : 25-07359
Client : Eurofins Chemtest Ltd

Methodology Soil (AS3000)

AS3000

In dit analysecertificaat zijn de met 'S' gemerkte analyses uitgevoerd volgens de analysemethoden beschreven in het "Accreditatieschema Laboratoriumanalyses voor grond-, waterbodem- en grondwateronderzoek (AS SIKB 3000)". Het laboratoriumonderzoek is uitgevoerd volgens de onderstaande analysemethoden. Deze analyses zijn vastgelegd in het geldende accreditatie-certificaat met bijbehorende verrichtingenlijst L086 van Eurofins Omegam BV.

Samplemate : Conform AS3000 en NEN-EN 16179
Dry weight : Conform AS3010 prestatieblad 2
PFAS : Conform AS3080 prestatieblad 1
GenX : Conform AS3080 prestatieblad 2

In this certificate of analysis, the analysis marked with 'Q' have been carried out according to the analysis methods below. The analysis are registrated in the current accreditation certificate with associated annex to declaration of accreditation (scope of accreditation) L086 of Eurofins Omegam BV.

PFAS : In house method

Final Report

Report No.: 25-07758-1

Initial Date of Issue: 25-Mar-2025

Re-Issue Details:

Client Concept Engineering Consultants

Client Address: 47 -49 Brunel Road
London
W3 7XR

Contact(s): Gabriela Mandache
Kasia Mazerant
Lab

Project 25/4047 - LHR042 Thorney Lane DC1

Quotation No.: Q25-36897 **Date Received:** 06-Mar-2025

Order No.: 104975 (CL6750) **Date Instructed:** 07-Mar-2025

No. of Samples: 1

Turnaround (Wkdays): 5 **Results Due:** 13-Mar-2025

Date Approved: 25-Mar-2025

Approved By:



Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: 25/4047 - LHR042 Thorney Lane DC1

Client: Concept Engineering Consultants		Chemtest Job No.:		25-07758		
Quotation No.: Q25-36897		Chemtest Sample ID.:		1943246		
		Client Sample ID.:		88		
		Sample Location:		DS25-04		
		Sample Type:		SOIL		
		Top Depth (m):		1.80		
		Date Sampled:		04-Mar-2025		
		Asbestos Lab:		DURHAM		
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
ACM Type		N	2192		N/A	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected
Moisture		N	2030	%	0.020	31
Soil Colour		N	2040		N/A	Black
Other Material		N	2040		N/A	Stones
Soil Texture		N	2040		N/A	Sand
pH at 20C		U	2010		4.0	8.3
Boron (Hot Water Soluble)		U	2120	mg/kg	0.40	2.7
Cyanide (Total)		U	2300	mg/kg	0.50	1.9
Arsenic		U	2455	mg/kg	0.5	58
Beryllium		U	2455	mg/kg	0.5	3.2
Cadmium		U	2455	mg/kg	0.10	0.93
Chromium		U	2455	mg/kg	0.5	88
Antimony		N	2455	mg/kg	2.0	19
Copper		U	2455	mg/kg	0.50	1000
Mercury		U	2455	mg/kg	0.05	5.3
Nickel		U	2455	mg/kg	0.50	44
Lead		U	2455	mg/kg	0.50	8200
Selenium		U	2455	mg/kg	0.25	1.5
Vanadium		U	2455	mg/kg	0.5	51
Zinc		U	2455	mg/kg	0.50	1200
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	U	2690	mg/kg	2.00	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	U	2690	mg/kg	1.00	< 1.0
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	U	2690	mg/kg	2.00	6.6
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	U	2690	mg/kg	3.00	16
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	12
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	U	2690	mg/kg	5.00	25
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	36
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05

Results - Soil

Project: 25/4047 - LHR042 Thorney Lane DC1

Client: Concept Engineering Consultants		Chemtest Job No.:	25-07758			
Quotation No.: Q25-36897		Chemtest Sample ID.:	1943246			
		Client Sample ID.:	88			
		Sample Location:	DS25-04			
		Sample Type:	SOIL			
		Top Depth (m):	1.80			
		Date Sampled:	04-Mar-2025			
		Asbestos Lab:	DURHAM			
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	5.5
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	8.3
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	6.0
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	14
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	20
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	38
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	56
Total Organic Carbon		U	2625	%	0.20	5.8
Benzene		U	2760	mg/kg	0.0010	< 0.0010
Toluene		U	2760	mg/kg	0.0010	< 0.0010
Ethylbenzene		U	2760	mg/kg	0.0010	< 0.0010
m & p-Xylene		U	2760	mg/kg	0.0010	< 0.0010
o-Xylene		U	2760	mg/kg	0.0010	< 0.0010
Methyl Tert-Butyl Ether		U	2760	mg/kg	0.0010	< 0.0010
Naphthalene		U	2800	mg/kg	0.10	0.29
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10
Acenaphthene		U	2800	mg/kg	0.10	< 0.10
Fluorene		U	2800	mg/kg	0.10	< 0.10
Phenanthrene		U	2800	mg/kg	0.10	0.64
Anthracene		U	2800	mg/kg	0.10	0.12
Fluoranthene		U	2800	mg/kg	0.10	0.77
Pyrene		U	2800	mg/kg	0.10	0.61
Benzo[a]anthracene		U	2800	mg/kg	0.10	0.28
Chrysene		U	2800	mg/kg	0.10	0.37
Benzo[b]fluoranthene		U	2800	mg/kg	0.10	0.46
Benzo[k]fluoranthene		U	2800	mg/kg	0.10	0.15
Benzo[a]pyrene		U	2800	mg/kg	0.10	0.28
Indeno(1,2,3-c,d)Pyrene		U	2800	mg/kg	0.10	0.23
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10
Benzo[g,h,i]perylene		U	2800	mg/kg	0.10	0.24
Total Of 16 PAH's		N	2800	mg/kg	2.0	4.4

Results - Soil

Project: 25/4047 - LHR042 Thorney Lane DC1

Client: Concept Engineering Consultants		Chemtest Job No.:		25-07758		
Quotation No.: Q25-36897		Chemtest Sample ID.:		1943246		
		Client Sample ID.:		88		
		Sample Location:		DS25-04		
		Sample Type:		SOIL		
		Top Depth (m):		1.80		
		Date Sampled:		04-Mar-2025		
		Asbestos Lab:		DURHAM		
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
Total Phenols		U	2920	mg/kg	0.10	< 0.10

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2010	pH Value of Soils	pH at 20°C	pH Meter	
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES	
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry	
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.	
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.	
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazine.	
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8-C10 Aromatics: >C5–C7,>C7-C8,>C8–C10	Water extraction / Headspace GCxGC FID detection	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenzo[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS	
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical 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"
SOP	Standard operating procedure
LOD	Limit of detection

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

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 EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ 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.

NEW_ASB Eurofins Chemtest Limited, 11 Depot Road, Newmarket, CB8 0AL

DURHAM Eurofins Chemtest Limited, Unit A North Wing, Prospect Business Park, Crookhall Lane, Consett, Co Durham, DH8 7PW

Sample Deviation Codes

As a result of any of the below deviations applying, the test results may be unreliable

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 - The required amount of sample for analysis was not received

H - Appropriate cooling measures were not taken for sample transportation

Sample Retention and Disposal

All soil samples will be retained for a period of 30 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.

Report Information

Water Sample Category Key for Accreditation

DW - Drinking Water
GW - Ground Water
LE - Land Leachate
NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

Asbestos Tests LOD = LOQ

Limit of Detection = Limit of Quantification for asbestos results only

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



Final Report

Report No.: 25-10531-1

Initial Date of Issue: 07-Apr-2025

Re-Issue Details:

Client Concept Engineering Consultants

Client Address: 47 - 49 Brunel Road
London
W3 7XR

Contact(s): Gabriela Mandache
Kasia Mazerant
Lab

Project 25/4047 Thorney Lane

Quotation No.: Q25-36897 **Date Received:** 27-Mar-2025

Order No.: 105234 (CL6834) **Date Instructed:** 27-Mar-2025

No. of Samples: 2

Turnaround (Wkdays): 7 **Results Due:** 04-Apr-2025

Date Approved: 04-Apr-2025 **Subcon Results Due:** 17-Apr-2025

Approved By:

Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: 25/4047 Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:				25-10531	25-10531
Quotation No.: Q25-36897		Chemtest Sample ID.:				1953104	1953105
Order No.: 105234 (CL6834)		Client Sample Ref.:				1A	
		Sample Location:				Drainage 2	Drainage 3
		Sample Type:				SOIL	SOIL
		Top Depth (m):				0.00	
		Date Sampled:				25-Mar-2025	25-Mar-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
Moisture		N	2030	%	0.020	32	32
Soil Colour		N	2040		N/A	Brown	Brown
Other Material		N	2040		N/A	Stones and Roots	None
Soil Texture		N	2040		N/A	Loam	Loam
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	< 0.40	0.50
Arsenic		M	2455	mg/kg	0.5	8.1	4.7
Beryllium		U	2455	mg/kg	0.5	0.7	< 0.5
Cadmium		M	2455	mg/kg	0.10	0.39	0.47
Chromium		M	2455	mg/kg	0.5	30	46
Antimony		N	2455	mg/kg	2.0	6.4	28
Copper		M	2455	mg/kg	0.50	99	370
Mercury		M	2455	mg/kg	0.05	0.05	< 0.05
Nickel		M	2455	mg/kg	0.50	19	29
Lead		M	2455	mg/kg	0.50	60	93
Selenium		M	2455	mg/kg	0.25	0.33	< 0.25
Vanadium		U	2455	mg/kg	0.5	37	15
Zinc		M	2455	mg/kg	0.50	230	810
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	6.8	28
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	15	120
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	100	180
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	740	1400
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	67	220
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	860	1700
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	930	2000
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	14	58
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	24	280

Results - Soil

Project: 25/4047 Thorney Lane

Client: Concept Engineering Consultants		Chemtest Job No.:				25-10531	25-10531
Quotation No.: Q25-36897		Chemtest Sample ID.:				1953104	1953105
Order No.: 105234 (CL6834)		Client Sample Ref.:				1A	
		Sample Location:				Drainage 2	Drainage 3
		Sample Type:				SOIL	SOIL
		Top Depth (m):				0.00	
		Date Sampled:				25-Mar-2025	25-Mar-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	130	290
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	290	280
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	350	65
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	460	910
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	800	970
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	1300	2600
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	1700	2900
Naphthalene		M	2800	mg/kg	0.10	< 0.10	22
Acenaphthylene		N	2800	mg/kg	0.10	0.10	0.77
Acenaphthene		M	2800	mg/kg	0.10	0.18	1.2
Fluorene		M	2800	mg/kg	0.10	0.20	0.84
Phenanthrene		M	2800	mg/kg	0.10	1.6	1.2
Anthracene		M	2800	mg/kg	0.10	0.58	0.33
Fluoranthene		M	2800	mg/kg	0.10	4.8	1.6
Pyrene		M	2800	mg/kg	0.10	4.3	1.6
Benzo[a]anthracene		M	2800	mg/kg	0.10	3.0	0.83
Chrysene		M	2800	mg/kg	0.10	3.0	0.90
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	5.0	1.3
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	2.6	0.59
Benzo[a]pyrene		M	2800	mg/kg	0.10	3.7	0.97
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	3.5	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	1.6	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	3.3	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	38	34
PFAS Suite Soils		SN		µg/kg	0.0	See Attached	See Attached

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES	
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.	
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8–C10 Aromatics: >C5–C7,>C7–C8,>C8–C10	Water extraction / Headspace GCxGC FID detection	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	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-MS	

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"
SOP	Standard operating procedure
LOD	Limit of detection

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

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 EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ 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.

NEW_ASB	Eurofins Chemtest Limited, 11 Depot Road, Newmarket, CB8 0AL
DURHAM	Eurofins Chemtest Limited, Unit A North Wing, Prospect Business Park, Crookhall Lane, Consett, Co Durham, DH8 7PW

Sample Deviation Codes

As a result of any of the below deviations applying, the test results may be unreliable

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 - The required amount of sample for analysis was not received

H - Appropriate cooling measures were not taken for sample transportation

Sample Retention and Disposal

All soil samples will be retained for a period of 30 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.

Report Information

Water Sample Category Key for Accreditation

DW - Drinking Water
GW - Ground Water
LE - Land Leachate
NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

Asbestos Tests LOD = LOQ

Limit of Detection = Limit of Quantification for asbestos results only

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

CERTIFICATE

Project code : 1901692
Your Project Description : 25-10531
Client : Eurofins Chemtest Ltd

Your Sample identification
8723357 = 1953104 drainage 2
8723358 = 1953105 drainage 3

Client sampling date	:	25/03/2025	25/03/2025
Date of receipt	:	01/04/2025	01/04/2025
Startdate	:	01/04/2025	01/04/2025
Reference number	:	8723357	8723358
Your Matrix	:	Soil	Soil

Sample preparation			
S AS3000 (steekmonster)		done	done
S weight of artifact	g	n.a.	n.a.
S type of artifact		n.v.t.	n.v.t.
S sample preparation		done	done

General analysis - physics			
S dry weight	%	69,0	70,3

C E R T I F I C A T E

Project code : 1901692
Your Project Description : 25-10531
Client : Eurofins Chemtest Ltd

Your Sample identification
8723357 = 1953104 drainage 2
8723358 = 1953105 drainage 3

Client sampling date	:	25/03/2025	25/03/2025
Date of receipt	:	01/04/2025	01/04/2025
Startdate	:	01/04/2025	01/04/2025
Reference number	:	8723357	8723358
Your Matrix	:	Soil	Soil

Organic compounds - per- and polyfluoroalkylsubstances (PFAS) HPLC-MS/MS
Perfluorinated carboxylic acids:

S PFBA	µg/kg dw	0,3	< 0,1
S PFPeA	µg/kg dw	0,3	< 0,1
S PFHxA	µg/kg dw	0,1	< 0,1
S PFHpA	µg/kg dw	0,1	< 0,1
S PFOA linear	µg/kg dw	0,2	< 0,2
S PFOA branched	µg/kg dw	< 0,1	< 0,1
S PFNA	µg/kg dw	0,1	< 0,1
S PFDA	µg/kg dw	0,2	< 0,1
S PFUnDA	µg/kg dw	0,1	< 0,1
S PFDoDA	µg/kg dw	0,4	< 0,1
S PFTTrDA	µg/kg dw	< 0,1	< 0,1
S PFTeDA	µg/kg dw	0,2	< 0,1
S PFHxDA	µg/kg dw	< 0,1	< 0,1
S PFODA	µg/kg dw	< 0,1	< 0,1

Perfluorinated sulfonic acids:

S PFBS	µg/kg dw	0,1	1,1
S PFPeS	µg/kg dw	< 0,1	< 0,1
S PFHxS	µg/kg dw	< 0,1	< 0,1
S PFHpS	µg/kg dw	< 0,1	< 0,1
S PFOS linear	µg/kg dw	1,0	< 0,3
S PFOS branched	µg/kg dw	0,1	< 0,1
S PFDS	µg/kg dw	< 0,1	< 0,1

Perfluorinated alkyl substances - precursors:

S 4:2 FTS	µg/kg dw	< 0,1	< 0,1
S 6:2 FTS	µg/kg dw	< 0,1	0,2
S 8:2 FTS	µg/kg dw	0,1	< 0,1
S 10:2 FTS	µg/kg dw	0,3	0,2
S PFOSA	µg/kg dw	0,2	< 0,1

Perfluorinated alkyl substances - remainder:

HPFHpA	µg/kg dw	< 0,4	< 0,4
4H-PFUnDA	µg/kg dw	< 0,4	< 0,4
8:2 FTUCA	µg/kg dw	< 0,4	< 0,4
Q 9CI-PF3ONS (F53-B)	µg/kg dw	< 0,1	< 0,1
Q ADONA	µg/kg dw	< 0,1	< 0,1
Q EtFOSA	µg/kg dw	< 0,1	< 0,1
S EtFOSAA	µg/kg dw	< 0,1	< 0,1
MeFBSA	µg/kg dw	< 0,4	< 0,4
S MeFOSAA	µg/kg dw	0,3	< 0,1
Q P37DMOA	µg/kg dw	< 1	< 1
Q PFBSA	µg/kg dw	< 0,1	< 0,1
S MeFOSA	µg/kg dw	< 0,1	< 0,1
Q MeFBSAA	µg/kg dw	< 0,1	0,1
S 8:2 DiPAP	µg/kg dw	0,3	< 0,1
S HFPO-DA (GenX)	µg/kg dw	< 0,1	< 0,1

- The frontpage and, where applicable, appendices of this document are integral parts of this certificate.

- Analyses marked with a 'Q' are part of the RvA accreditation certificate L086.

- Analyses marked with a 'S' are part of the AS 3000 accreditation certificate.

Verificationcode: JDXY-WTOB-DAQN-HSSX

Ref.: 1901692_certificaat_v1

CERTIFICATE

Project code : 1901692
Your Project Description : 25-10531
Client : Eurofins Chemtest Ltd

Your Sample identification

8723357 = 1953104 drainage 2

8723358 = 1953105 drainage 3

Client sampling date	:	25/03/2025	25/03/2025
Date of receipt	:	01/04/2025	01/04/2025
Startdate	:	01/04/2025	01/04/2025
Reference number	:	8723357	8723358
Your Matrix	:	Soil	Soil

S som PFOA	µg/kg dw	0,3	0,2
S sum PFOS	µg/kg dw	1,1	0,3

C E R T I F I C A T E

Project code : 1901692
Your Project Description : 25-10531
Client : Eurofins Chemtest Ltd

Notes related to analyses

General comments

The following information has been provided by the client if applicable:

Project description, Sample identification, Client sampling date, Client Matrix, Sample depth, Pot number (Barcode), Field data, Field observations and sampling data. The client sampling date can affect the validity of the results.

Quantification of branched PFOS/POA is based on DIN 38414-14.

Summation of concentrations for group parameters

Summation is calculated according to AS3000 protocol, paragraph 2.5.2 and appendix 3.

Project Note(s): - Quantification of HFPO-DA (GenX) is based on 2,3,3,3-tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-propanoic acid (CAS nr. 13252-13-6). Another name of GenX is perfluoro-2-propoxypropanoic acid (PFPrOPrA).

Sample identification : 1953105 drainage 3
Reference number : 8723358

Results Note(s):

sum PFOA: - Raised reporting limit because of interference by the matrix.
sum PFOS: - Raised reporting limit because of interference by the matrix.
perfluorooctanoic acid (PFOA) linear: - Raised reporting limit because of interference by the matrix.
perfluorooctanesulfonate (PFOS) linear: - Raised reporting limit because of interference by the matrix.

C E R T I F I C A T E

Project code : 1901692
Your Project Description : 25-10531
Client : Eurofins Chemtest Ltd

Appendix Index PFAS

PFAS component	Full name PFAS component
10:2 FTS	10:2 FTS (10:2 Fluorotelomer sulfonic acid)
4:2 FTS	4:2 FTS (4:2 Fluorotelomer sulfonic acid)
4H-PFUnDA	4H-PFUnDA (2H,2H,3H,3H-Perfluoroundecanoic acid)
6:2 FTS	6:2 FTS (6:2 Fluorotelomer sulfonic acid)
8:2 DiPAP	8:2 DiPAP (8:2 Fluorotelomer phosphate diester)
8:2 FTS	8:2 FTS (8:2 Fluorotelomer sulfonic acid)
8:2 FTUCA	8:2 FTUCA (8:2 Fluorotelomer unsaturated carboxylic acid)
9Cl-PF3ONS (F53-B)	9Cl-PF3ONS (F53-B) (9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid)
ADONA	ADONA (ammonium 4,8-dioxa-3H-perfluorononanoate)
EtFOSA	EtFOSA (N-ethyl perfluorooctanesulfonamide)
EtFOSAA	EtFOSAA (perfluorooctanesulfonylamide(N-ethyl)acetate)
HPFHpA	HPFHpA (7H-perfluoroheptanoic acid)
MeFBSA	MeFBSA (N-methylperfluorobutanesulfonylamide)
MeFBSAA	MeFBSAA (perfluorobutanesulfonylamide(N-methyl)acetate)
MeFOSA	MeFOSA (N-methyl perfluorooctanesulfonamide)
MeFOSAA	MeFOSAA (N-methyl perfluorooctanesulfonamidoacetic acid)
P37DMOA	P37DMOA (perfluoro-3,7-dimethyloctanoic acid)
PFBA	PFBA (perfluorobutanoic acid)
PFBS	PFBS (perfluorobutanesulfonic acid)
PFBSA	PFBSA (perfluorobutanesulfonamide)
PFDA	PFDA (perfluorodecanoic acid)
PFDoDA	PFDoDA (perfluorododecanoic acid)
PFDS	PFDS (perfluorodecanesulfonic acid)
PFHhA	PFHhA (perfluoroheptanoic acid)
PFHhS	PFHhS (perfluoroheptanesulfonic acid)
PFHxA	PFHxA (perfluorohexanoic acid)
PFHxDA	PFHxDA (perfluorohexadecanoic acid)
PFHxS	PFHxS (perfluorohexanesulfonic acid)
PFNA	PFNA (perfluorononanoic acid)
PFOA branched	PFOA branched (perfluorooctanoic acid)
PFOA linear	PFOA linear (perfluorooctanoic acid)
PFODA	PFODA (perfluorooctadecanoic acid)
PFOS branched	PFOS branched (perfluorooctanesulfonic acid)
PFOS linear	PFOS linear (perfluorooctanesulfonic acid)
PFOSA	PFOSA (perfluorooctanesulfonamide)
PFPeA	PFPeA (perfluoropentanoic acid)
PFPeS	PFPeS (perfluoropentanesulfonic acid)
PFTeDA	PFTeDA (perfluorotetradecanoic acid)
PFTTrDA	PFTTrDA (perfluorotridecanoic acid)
PFUnDA	PFUnDA (perfluoroundecanoic acid)

C E R T I F I C A T E

Project code : 1901692
Your Project Description : 25-10531
Client : Eurofins Chemtest Ltd

Methodology Soil (AS3000)

AS3000

In dit analysecertificaat zijn de met 'S' gemerkte analyses uitgevoerd volgens de analysemethoden beschreven in het "Accreditatieschema Laboratoriumanalyses voor grond-, waterbodem- en grondwateronderzoek (AS SIKB 3000)". Het laboratoriumonderzoek is uitgevoerd volgens de onderstaande analysemethoden. Deze analyses zijn vastgelegd in het geldende accreditatie-certificaat met bijbehorende verrichtingenlijst L086 van Eurofins Omegam BV.

Samplemate : Conform AS3000 en NEN-EN 16179
Dry weight : Conform AS3010 prestatieblad 2
PFAS : Conform AS3080 prestatieblad 1
GenX : Conform AS3080 prestatieblad 2

In this certificate of analysis, the analysis marked with 'Q' have been carried out according to the analysis methods below. The analysis are registered in the current accreditation certificate with associated annex to declaration of accreditation (scope of accreditation) L086 of Eurofins Omegam BV.

PFAS : In house method



Final Report

Report No.: 25-11317-1

Initial Date of Issue: 06-May-2025

Re-Issue Details:

Client Concept Engineering Consultants

Client Address: 47 - 49 Brunel Road
London
W3 7XR

Contact(s): Gabriela Mandache
Kasia Mazerant
Lab

Project 25/4047 - LHR042 Thorney Lane DC1

Quotation No.: Q25-36897

Date Received: 03-Apr-2025

Order No.: 105350 (CL6866)

Date Instructed: 03-Apr-2025

No. of Samples: 2

Turnaround (Wkdays): 5

Results Due: 09-Apr-2025

Date Approved: 05-May-2025

Subcon Results Due: 28-Apr-2025

Approved By:

Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: 25/4047 - LHR042 Thorney Lane DC1

Client: Concept Engineering Consultants		Chemtest Job No.:				25-11317	25-11317
Quotation No.: Q25-36897		Chemtest Sample ID.:				1956025	1956026
Order No.: 105350 (CL6866)		Client Sample Ref.:					2A
		Sample Location:				Drainage 1	Drainage 2
		Sample Type:				SOIL	SOIL
		Top Depth (m):				0.00	0.00
		Date Sampled:				01-Apr-2025	01-Apr-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
Moisture		N	2030	%	0.020	39	33
Soil Colour		N	2040		N/A	Brown	Brown
Other Material		N	2040		N/A	Roots	Stones, Roots and Wood
Soil Texture		N	2040		N/A	Loam	Sand
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	1.4	1.5
Arsenic		M	2455	mg/kg	0.5	6.0	9.9
Beryllium		U	2455	mg/kg	0.5	< 0.5	0.5
Cadmium		M	2455	mg/kg	0.10	0.38	0.50
Chromium		M	2455	mg/kg	0.5	22	120
Antimony		N	2455	mg/kg	2.0	19	5.9
Copper		M	2455	mg/kg	0.50	110	240
Mercury		M	2455	mg/kg	0.05	0.06	0.07
Nickel		M	2455	mg/kg	0.50	14	48
Lead		M	2455	mg/kg	0.50	51	110
Selenium		M	2455	mg/kg	0.25	0.47	< 0.25
Vanadium		U	2455	mg/kg	0.5	24	29
Zinc		M	2455	mg/kg	0.50	440	1600
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	U/S	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	U/S	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	U/S	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	U/S	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	U/S	0.24
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	U/S	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	25000	13000
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	81000	39000
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	120000	59000
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	22000	12000
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	790	620
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	240000	120000
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	240000	120000
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	U/S	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	U/S	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	U/S	0.54
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	U/S	0.54
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	7800	7400
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	23000	13000

Results - Soil

Project: 25/4047 - LHR042 Thorney Lane DC1

Client: Concept Engineering Consultants		Chemtest Job No.:				25-11317	25-11317
Quotation No.: Q25-36897		Chemtest Sample ID.:				1956025	1956026
Order No.: 105350 (CL6866)		Client Sample Ref.:					2A
		Sample Location:				Drainage 1	Drainage 2
		Sample Type:				SOIL	SOIL
		Top Depth (m):				0.00	0.00
		Date Sampled:				01-Apr-2025	01-Apr-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	8200	5800
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	740	500
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	63	26
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	40000	26000
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	40000	27000
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	U/S	0.54
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	280000	150000
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	280000	150000
Naphthalene		M	2800	mg/kg	0.10	6.2	0.47
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	0.21
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	0.24
Fluorene		M	2800	mg/kg	0.10	< 0.10	0.61
Phenanthrene		M	2800	mg/kg	0.10	14	1.6
Anthracene		M	2800	mg/kg	0.10	< 0.10	1.2
Fluoranthene		M	2800	mg/kg	0.10	5.5	2.6
Pyrene		M	2800	mg/kg	0.10	7.4	2.5
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	1.9
Chrysene		M	2800	mg/kg	0.10	< 0.10	2.0
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	2.3
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	1.8
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	1.9
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	2.0
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	1.5
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	2.0
Total Of 16 PAH's		N	2800	mg/kg	2.0	33	25
PFAS Suite Soils		SN		µg/kg	0.0	See Attached	See Attached

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES	
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.	
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8–C10 Aromatics: >C5–C7,>C7–C8,>C8–C10	Water extraction / Headspace GCxGC FID detection	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	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-MS	

Report Information

Key

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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"
SOP	Standard operating procedure
LOD	Limit of detection

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

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 EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ 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.

NEW_ASB	Eurofins Chemtest Limited, 11 Depot Road, Newmarket, CB8 0AL
DURHAM	Eurofins Chemtest Limited, Unit A North Wing, Prospect Business Park, Crookhall Lane, Consett, Co Durham, DH8 7PW

Sample Deviation Codes

As a result of any of the below deviations applying, the test results may be unreliable

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 - The required amount of sample for analysis was not received

H - Appropriate cooling measures were not taken for sample transportation

Sample Retention and Disposal

All soil samples will be retained for a period of 30 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.

Report Information

Water Sample Category Key for Accreditation

DW - Drinking Water
GW - Ground Water
LE - Land Leachate
NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

Asbestos Tests LOD = LOQ

Limit of Detection = Limit of Quantification for asbestos results only

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

C E R T I F I C A T E

Project code : 1907014
Your Project Description : 25-11317
Client : Eurofins Chemtest Ltd

Your Sample identification
8738599 = 1956025 Drainage 1
8738610 = 1956026 Drainage 2

Client sampling date	:	01/04/2025	01/04/2025
Date of receipt	:	09/04/2025	09/04/2025
Startdate	:	09/04/2025	09/04/2025
Reference number	:	8738599	8738610
Your Matrix	:	Soil	Soil

Sample preparation

S AS3000 (steekmonster)		done	done
S weight of artifact	g	n.a.	n.a.
S type of artifact		n.v.t.	n.v.t.
S sample preparation		done	done

General analysis - physics

S dry weight	%	63,5	64,8

 CERTIFICATE

Project code : 1907014
 Your Project Description : 25-11317
 Client : Eurofins Chemtest Ltd

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Reference number	:	8738599	8738610
Your Matrix	:	Soil	Soil

Organic compounds - per- and polyfluoroalkylsubstances (PFAS) HPLC-MS/MS

Perfluorinated carboxylic acids:

S PFBA	µg/kg dw	0,6	1,3
S PFPeA	µg/kg dw	< 0,1	0,2
S PFHxA	µg/kg dw	0,1	0,2
S PFHpA	µg/kg dw	< 0,1	< 0,1
S PFOA linear	µg/kg dw	< 0,1	0,2
S PFOA branched	µg/kg dw	< 0,1	< 0,1
S PFNA	µg/kg dw	< 0,1	< 0,1
S PFDA	µg/kg dw	< 0,1	< 0,1
S PFUnDA	µg/kg dw	< 0,1	< 0,1
S PFDoDA	µg/kg dw	0,1	0,1
S PFTTrDA	µg/kg dw	< 0,1	< 0,1
S PFTeDA	µg/kg dw	< 0,1	< 0,1
S PFHxDA	µg/kg dw	< 0,1	< 0,1
S PFODA	µg/kg dw	< 0,1	< 0,1

Perfluorinated sulfonic acids:

S PFBS	µg/kg dw	0,1	0,2
S PFPeS	µg/kg dw	< 0,1	< 0,1
S PFHxS	µg/kg dw	< 0,1	0,2
S PFHpS	µg/kg dw	< 0,1	< 0,1
S PFOS linear	µg/kg dw	< 0,1	0,3
S PFOS branched	µg/kg dw	< 0,1	0,1
S PFDS	µg/kg dw	< 0,1	< 0,1

Perfluorinated alkyl substances - precursors:

S 4:2 FTS	µg/kg dw	< 0,1	< 0,1
S 6:2 FTS	µg/kg dw	3,6	< 0,1
S 8:2 FTS	µg/kg dw	< 0,1	< 0,1
S 10:2 FTS	µg/kg dw	< 0,1	0,2
S PFOSA	µg/kg dw	< 0,1	< 0,1

Perfluorinated alkyl substances - remainder:

HPFHpA	µg/kg dw	< 0,4	< 0,4
4H-PFUnDA	µg/kg dw	< 0,4	< 0,4
8:2 FTUCA	µg/kg dw	< 0,4	< 0,4
Q 9CI-PF3ONS (F53-B)	µg/kg dw	< 0,1	< 0,1
Q ADONA	µg/kg dw	< 0,1	< 0,1
Q EtFOSA	µg/kg dw	< 0,1	< 0,1
S EtFOSAA	µg/kg dw	< 0,1	< 0,1
MeFBSA	µg/kg dw	< 0,4	< 0,4
S MeFOSAA	µg/kg dw	< 0,1	< 0,1
Q P37DMOA	µg/kg dw	< 1	< 1
Q PFBSA	µg/kg dw	< 0,1	< 0,1
S MeFOSA	µg/kg dw	< 0,1	< 0,1
Q MeFBSAA	µg/kg dw	< 0,1	< 0,1
S 8:2 DiPAP	µg/kg dw	< 0,1	< 0,1
S HFPO-DA (GenX)	µg/kg dw	0,3	< 0,1

 - The frontpage and, where applicable, appendices of this document are integral parts of this certificate.

- Analyses marked with a 'Q' are part of the RvA accreditation certificate L086.

- Analyses marked with a 'S' are part of the AS 3000 accreditation certificate.

Verificationcode: MLNJ-PDSE-XVGH-OMWS

Ref.: 1907014_certificaat_v1

CERTIFICATE

Project code : 1907014
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Client : Eurofins Chemtest Ltd

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Your Matrix	:	Soil	Soil

S	som PFOA	µg/kg dw	0,1	0,3
S	sum PFOS	µg/kg dw	0,1	0,4

C E R T I F I C A T E

Project code : 1907014
Your Project Description : 25-11317
Client : Eurofins Chemtest Ltd

Notes related to analyses

General comments

The following information has been provided by the client if applicable:

Project description, Sample identification, Client sampling date, Client Matrix, Sample depth, Pot number (Barcode), Field data, Field observations and sampling data. The client sampling date can affect the validity of the results.

Quantification of branched PFOS/POA is based on DIN 38414-14.

Summation of concentrations for group parameters

Summation is calculated according to AS3000 protocol, paragraph 2.5.2 and appendix 3.

Project Note(s): - Quantification of HFPO-DA (GenX) is based on 2,3,3,3-tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-propanoic acid (CAS nr. 13252-13-6). Another name of GenX is perfluoro-2-propoxyrpropanoic acid (PFPrOPrA).

C E R T I F I C A T E

Project code : 1907014
Your Project Description : 25-11317
Client : Eurofins Chemtest Ltd

Appendix Index PFAS

PFAS component	Full name PFAS component
10:2 FTS	10:2 FTS (10:2 Fluorotelomer sulfonic acid)
4:2 FTS	4:2 FTS (4:2 Fluorotelomer sulfonic acid)
4H-PFUnDA	4H-PFUnDA (2H,2H,3H,3H-Perfluoroundecanoic acid)
6:2 FTS	6:2 FTS (6:2 Fluorotelomer sulfonic acid)
8:2 DiPAP	8:2 DiPAP (8:2 Fluorotelomer phosphate diester)
8:2 FTS	8:2 FTS (8:2 Fluorotelomer sulfonic acid)
8:2 FTUCA	8:2 FTUCA (8:2 Fluorotelomer unsaturated carboxylic acid)
9Cl-PF3ONS (F53-B)	9Cl-PF3ONS (F53-B) (9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid)
ADONA	ADONA (ammonium 4,8-dioxa-3H-perfluorononanoate)
EtFOSA	EtFOSA (N-ethyl perfluorooctanesulfonamide)
EtFOSAA	EtFOSAA (perfluorooctanesulfonylamide(N-ethyl)acetate)
HPFHpA	HPFHpA (7H-perfluoroheptanoic acid)
MeFBSA	MeFBSA (N-methylperfluorobutanesulfonylamide)
MeFBSAA	MeFBSAA (perfluorobutanesulfonylamide(N-methyl)acetate)
MeFOSA	MeFOSA (N-methyl perfluorooctanesulfonamide)
MeFOSAA	MeFOSAA (N-methyl perfluorooctanesulfonamidoacetic acid)
P37DMOA	P37DMOA (perfluoro-3,7-dimethyloctanoic acid)
PFBA	PFBA (perfluorobutanoic acid)
PFBS	PFBS (perfluorobutanesulfonic acid)
PFBSA	PFBSA (perfluorobutanesulfonamide)
PFDA	PFDA (perfluorodecanoic acid)
PFDoDA	PFDoDA (perfluorododecanoic acid)
PFDS	PFDS (perfluorodecanesulfonic acid)
PFHpA	PFHpA (perfluoroheptanoic acid)
PFHpS	PFHpS (perfluoroheptanesulfonic acid)
PFHxA	PFHxA (perfluorohexanoic acid)
PFHxDA	PFHxDA (perfluorohexadecanoic acid)
PFHxS	PFHxS (perfluorohexanesulfonic acid)
PFNA	PFNA (perfluorononanoic acid)
PFOA branched	PFOA branched (perfluorooctanoic acid)
PFOA linear	PFOA linear (perfluorooctanoic acid)
PFODA	PFODA (perfluorooctadecanoic acid)
PFOS branched	PFOS branched (perfluorooctanesulfonic acid)
PFOS linear	PFOS linear (perfluorooctanesulfonic acid)
PFOSA	PFOSA (perfluorooctanesulfonamide)
PFPeA	PFPeA (perfluoropentanoic acid)
PFPeS	PFPeS (perfluoropentanesulfonic acid)
PFTeDA	PFTeDA (perfluorotetradecanoic acid)
PFTTrDA	PFTTrDA (perfluorotridecanoic acid)
PFUnDA	PFUnDA (perfluoroundecanoic acid)

C E R T I F I C A T E

Project code : 1907014
Your Project Description : 25-11317
Client : Eurofins Chemtest Ltd

Methodology Soil (AS3000)

AS3000

In dit analysecertificaat zijn de met 'S' gemerkte analyses uitgevoerd volgens de analysemethoden beschreven in het "Accreditatieschema Laboratoriumanalyses voor grond-, waterbodem- en grondwateronderzoek (AS SIKB 3000)". Het laboratoriumonderzoek is uitgevoerd volgens de onderstaande analysemethoden. Deze analyses zijn vastgelegd in het geldende accreditatie-certificaat met bijbehorende verrichtingenlijst L086 van Eurofins Omegam BV.

Samplemate : Conform AS3000 en NEN-EN 16179
Dry weight : Conform AS3010 prestatieblad 2
PFAS : Conform AS3080 prestatieblad 1
GenX : Conform AS3080 prestatieblad 2

In this certificate of analysis, the analysis marked with 'Q' have been carried out according to the analysis methods below. The analysis are registered in the current accreditation certificate with associated annex to declaration of accreditation (scope of accreditation) L086 of Eurofins Omegam BV.

PFAS : In house method



Final Report

Report No.: 25-11458-1

Initial Date of Issue: 14-Apr-2025

Re-Issue Details:

Client Concept Engineering Consultants

Client Address: 47 -49 Brunel Road
London
W3 7XR

Contact(s): Gabriela Mandache
Kasia Mazerant
Lab

Project 25/4047 LHR042 Thorney Lane DC1

Quotation No.: Q25-36897

Date Received: 04-Apr-2025

Order No.: 105361 (CL6871)

Date Instructed: 04-Apr-2025

No. of Samples: 2

Turnaround (Wkdays): 7

Results Due: 14-Apr-2025

Date Approved: 14-Apr-2025

Subcon Results Due: 29-Apr-2025

Approved By:

Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: 25/4047 LHR042 Thorney Lane DC1

Client: Concept Engineering Consultants		Chemtest Job No.:				25-11458	25-11458
Quotation No.: Q25-36897		Chemtest Sample ID.:				1956500	1956501
Order No.: 105361 (CL6871)		Client Sample Ref.:				1AA	2A
		Sample Location:				Attenuation Pond	Drainage 3
		Sample Type:				SOIL	SOIL
		Top Depth (m):				0.00	0.00
		Date Sampled:				02-Apr-2025	02-Apr-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
Moisture		N	2030	%	0.020	68	32
Soil Colour		N	2040		N/A	Brown	Brown
Other Material		N	2040		N/A	Roots and leaf	Roots
Soil Texture		N	2040		N/A	Loam	Clay
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	3.6	1.5
Arsenic		M	2455	mg/kg	0.5	9.0	11
Beryllium		U	2455	mg/kg	0.5	0.6	0.9
Cadmium		M	2455	mg/kg	0.10	0.33	0.59
Chromium		M	2455	mg/kg	0.5	23	48
Antimony		N	2455	mg/kg	2.0	2.9	8.2
Copper		M	2455	mg/kg	0.50	40	160
Mercury		M	2455	mg/kg	0.05	0.13	0.10
Nickel		M	2455	mg/kg	0.50	18	28
Lead		M	2455	mg/kg	0.50	74	94
Selenium		M	2455	mg/kg	0.25	0.47	0.62
Vanadium		U	2455	mg/kg	0.5	35	47
Zinc		M	2455	mg/kg	0.50	140	330
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	38	26
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	7.4	45
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	130	140
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	330	390
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	11	67
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	510	590
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	520	660
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	6.1	5.7

Results - Soil

Project: 25/4047 LHR042 Thorney Lane DC1

Client: Concept Engineering Consultants		Chemtest Job No.:				25-11458	25-11458
Quotation No.: Q25-36897		Chemtest Sample ID.:				1956500	1956501
Order No.: 105361 (CL6871)		Client Sample Ref.:				1AA	2A
		Sample Location:				Attenuation Pond	Drainage 3
		Sample Type:				SOIL	SOIL
		Top Depth (m):				0.00	0.00
		Date Sampled:				02-Apr-2025	02-Apr-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	19
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	520	55
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	900	72
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	370	150
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	1400	150
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	1800	300
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	1900	740
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	2300	960
Naphthalene		M	2800	mg/kg	0.10	0.23	0.25
Acenaphthylene		N	2800	mg/kg	0.10	0.42	0.17
Acenaphthene		M	2800	mg/kg	0.10	0.31	0.63
Fluorene		M	2800	mg/kg	0.10	0.25	0.46
Phenanthrene		M	2800	mg/kg	0.10	2.1	1.9
Anthracene		M	2800	mg/kg	0.10	0.90	0.43
Fluoranthene		M	2800	mg/kg	0.10	6.5	4.4
Pyrene		M	2800	mg/kg	0.10	5.9	3.9
Benzo[a]anthracene		M	2800	mg/kg	0.10	4.1	1.9
Chrysene		M	2800	mg/kg	0.10	5.2	2.4
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	11	4.4
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	3.8	1.5
Benzo[a]pyrene		M	2800	mg/kg	0.10	6.9	2.7
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	5.9	2.4
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	1.2	0.48
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	5.5	2.2
Total Of 16 PAH's		N	2800	mg/kg	2.0	60	30
PFAS Suite Soils		SN		µg/kg	0.0	See Attached	See Attached

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES	
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.	
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8–C10 Aromatics: >C5–C7,>C7–C8,>C8–C10	Water extraction / Headspace GCxGC FID detection	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	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-MS	

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"
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Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1.

NEW_ASB	Eurofins Chemtest Limited, 11 Depot Road, Newmarket, CB8 0AL
DURHAM	Eurofins Chemtest Limited, Unit A North Wing, Prospect Business Park, Crookhall Lane, Consett, Co Durham, DH8 7PW

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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 - The required amount of sample for analysis was not received

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2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

Asbestos Tests LOD = LOQ

Limit of Detection = Limit of Quantification for asbestos results only

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

Eurofins Chemtest Limited
 Results
 11 Depot Road
 CB8 0AL NEWMARKET
 UNITED KINGDOM

AR-25-LW-046176-02

EUSELI-00526559

Client code:: LW9906743

ANALYTICAL REPORT

*This analytical report replaces previous version of this report.
Please destroy previous report.*

Sample code:	525-2025-04080272
¹ Client Sample:	1956500, Attenuation Pond
Received:	2025-04-07
Report finished:	2025-04-28
Reception Temp.	14,5°C
Start of analysis	2025-04-07

Test code	Parameter	Result Unit	Uncert.	Method/ref.	Lab
LW14Y	4:2 FTS (Fluorotelomer sulfonate)	<0.045 µg/kg dry matter	± 36%	DIN 38414-14 mod.	EUSELI
LW14Q	6:2 FTS (Fluorotelomer sulfonate)	0.18 µg/kg dry matter	± 36%	DIN 38414-14 mod.	EUSELI
LW14V	8:2 FTS (Fluorotelomer sulfonate)	<0.15 µg/kg dry matter	± 36%	DIN 38414-14 mod.	EUSELI
LW1VE	Dry matter	40.6 %	± 5%	SS-EN 12880:2000 mod.	EUSELI
LW14P	HPFHpA (7H-Perfluoroheptanoic acid)	<0.15 µg/kg dry matter	± 36%	DIN 38414-14 mod.	EUSELI
LW14N	P37DMOA (Perfluoro-3,7-dimethyloctanoic acid)	<0.74 µg/kg dry matter	± 36%	DIN 38414-14 mod.	EUSELI
LW14R	PFBA (Perfluorobutanoic acid)	0.21 µg/kg dry matter	± 36%	DIN 38414-14 mod.	EUSELI
LW14C	PFBS (Perfluorobutanesulfonic acid)	<0.045 µg/kg dry matter	± 36%	DIN 38414-14 mod.	EUSELI
LW14I	PFDA (Perfluorodecanoic acid)	0.21 µg/kg dry matter	± 36%	DIN 38414-14 mod.	EUSELI
LW14L	PFDaA (Perfluorododecanoic acid)	<0.15 µg/kg dry matter	± 36%	DIN 38414-14 mod.	EUSELI
LW22J	PFDoS (Perfluorododecane sulfonic acid)	<1.5 µg/kg dry matter	± 36%	DIN 38414-14 mod.	EUSELI
LW150	PFDS (Perfluorodecanesulfonic acid)	<0.045 µg/kg dry matter	± 36%	DIN 38414-14 mod.	EUSELI
LW14F	PFHpA (Perfluoroheptanoic acid)	0.47 µg/kg dry matter	± 36%	DIN 38414-14 mod.	EUSELI
LW14T	PFHpS (Perfluoroheptanesulfonic acid)	<0.045 µg/kg dry matter	± 36%	DIN 38414-14 mod.	EUSELI

Explanations

*AR-003 v93

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LW14E	PFHxA (Perfluorohexanoic acid)	0.57 µg/kg dry matter	± 36%	DIN 38414-14 mod.	EUSELI
LW14W	PFHxDA (Perfluorohexadecanoic acid)	<0.045 µg/kg dry matter	± 36%	DIN 38414-14 mod.	EUSELI
LW14D	PFHxS (Perfluorohexanesulfonic acid)	0.049 µg/kg dry matter	± 36%	DIN 38414-14 mod.	EUSELI
LW14H	PFNA (Perfluorononanoic acid)	0.23 µg/kg dry matter	± 36%	DIN 38414-14 mod.	EUSELI
LW22I	PFNS (Perfluorononane sulfonic acid)	<0.30 µg/kg dry matter	± 36%	DIN 38414-14 mod.	EUSELI
LW14G	PFOA (Perfluorooctanoic acid)	0.30 µg/kg dry matter	± 36%	DIN 38414-14 mod.	EUSELI
LW14U	PFOS (Perfluorooctanesulfonic acid)	2.1 µg/kg dry matter	± 36%	DIN 38414-14 mod.	EUSELI
LW14J	PFOSA (Perfluorooctanesulfonamide)	<0.15 µg/kg dry matter	± 36%	DIN 38414-14 mod.	EUSELI
LW14S	PFPeA (Perfluoropentanoic acid)	1.2 µg/kg dry matter	± 36%	DIN 38414-14 mod.	EUSELI
LW22H	PFPeS (Perfluoropentane sulfonic acid)	<0.15 µg/kg dry matter	± 36%	DIN 38414-14 mod.	EUSELI
LW14M	PFTeDA (Perfluorotetradecanoic acid)	<0.045 µg/kg dry matter	± 36%	DIN 38414-14 mod.	EUSELI
LW15L	PFTTrDA (Perfluorotridecanoic acid)	<0.15 µg/kg dry matter	± 36%	DIN 38414-14 mod.	EUSELI
LW25W	PFTTrDS (Perfluorotridecane sulfonic acid)	<1.5 µg/kg dry matter	± 36%	DIN 38414-14 mod.	EUSELI
LW14K	PFUdA (Perfluoroundecanoic acid)	<0.15 µg/kg dry matter	± 36%	DIN 38414-14 mod.	EUSELI
LW25V	PFUnDS (Perfluoroundecane sulfonic acid)	<1.5 µg/kg dry matter	± 36%	DIN 38414-14 mod.	EUSELI
LW280	Sum of PFAS 4 excl. LOQ	2.7 µg/kg dm		DIN 38414-14 mod.	EUSELI
LW2AL	Sum of PFAS 4 incl. ½ LOQ	2.7 µg/kg dry matter		DIN 38414-14 mod.	EUSELI
LW1VD	Sum of PFAS excl. LOQ	5.5 µg/kg dry matter		DIN 38414-14 mod.	EUSELI
LW14Z	Sum of PFAS incl. ½ LOQ	8.9 µg/kg dry matter		DIN 38414-14 mod.	EUSELI
LW151	Sum of PFAS SLV 11 incl. ½ LOQ	5.5 µg/kg dry matter		DIN 38414-14 mod.	EUSELI

Report comments:

New version of the report including sample information.

The quantification limit has been increased due to high water content in the sample.

PFOS, PFHxS, PFOA, PFOSA and PFNA are reported as the sum of linear and branched forms.

Explanations

*AR-003 v93

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Ludmila Bucuricova, ASM

This test report has been created electronically and has been verified and authorised.

Explanations of which laboratory that has performed the tests and to accreditation/recognitions

Lab	Name	Mark.	Accreditation/Recognition
EUSELI	Eurofins Food & Feed Testing Sweden (Lidköping)		

[a] in front of a parameter indicates that the test has been performed under accreditation

Explanations

*AR-003 v93

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Eurofins Chemtest Limited
 Results
 11 Depot Road
 CB8 0AL NEWMARKET
 UNITED KINGDOM

AR-25-LW-046177-02

EUSELI-00526559

Client code:: LW9906743

ANALYTICAL REPORT

*This analytical report replaces previous version of this report.
Please destroy previous report.*

Sample code:	525-2025-04080273
¹ Client Sample:	1956501, Drainage 3
Received:	2025-04-07
Report finished:	2025-04-28
Reception Temp.	14,5°C
Start of analysis	2025-04-07

Test code	Parameter	Result Unit	Uncert.	Method/ref.	Lab
LW14Y	4:2 FTS (Fluorotelomer sulfonate)	<0.030 µg/kg dry matter	± 36%	DIN 38414-14 mod.	EUSELI
LW14Q	6:2 FTS (Fluorotelomer sulfonate)	<0.030 µg/kg dry matter	± 36%	DIN 38414-14 mod.	EUSELI
LW14V	8:2 FTS (Fluorotelomer sulfonate)	<0.10 µg/kg dry matter	± 36%	DIN 38414-14 mod.	EUSELI
LW1VE	Dry matter	67.9 %	± 5%	SS-EN 12880:2000 mod.	EUSELI
LW14P	HPFHpA (7H-Perfluoroheptanoic acid)	<0.10 µg/kg dry matter	± 36%	DIN 38414-14 mod.	EUSELI
LW14N	P37DMOA (Perfluoro-3,7-dimethyloctanoic acid)	<0.50 µg/kg dry matter	± 36%	DIN 38414-14 mod.	EUSELI
LW14R	PFBA (Perfluorobutanoic acid)	<0.10 µg/kg dry matter	± 36%	DIN 38414-14 mod.	EUSELI
LW14C	PFBS (Perfluorobutanesulfonic acid)	<0.030 µg/kg dry matter	± 36%	DIN 38414-14 mod.	EUSELI
LW14I	PFDA (Perfluorodecanoic acid)	<0.10 µg/kg dry matter	± 36%	DIN 38414-14 mod.	EUSELI
LW14L	PFDaA (Perfluorododecanoic acid)	0.32 µg/kg dry matter	± 36%	DIN 38414-14 mod.	EUSELI
LW22J	PFDoS (Perfluorododecane sulfonic acid)	<1.0 µg/kg dry matter	± 36%	DIN 38414-14 mod.	EUSELI
LW150	PFDS (Perfluorodecanesulfonic acid)	<0.030 µg/kg dry matter	± 36%	DIN 38414-14 mod.	EUSELI
LW14F	PFHpA (Perfluoroheptanoic acid)	<0.030 µg/kg dry matter	± 36%	DIN 38414-14 mod.	EUSELI
LW14T	PFHpS (Perfluoroheptanesulfonic acid)	<0.030 µg/kg dry matter	± 36%	DIN 38414-14 mod.	EUSELI

Explanations

*AR-003 v93

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LW14E	PFHxA (Perfluorohexanoic acid)	0.034 µg/kg dry matter	± 36%	DIN 38414-14 mod.	EUSELI
LW14W	PFHxDA (Perfluorohexadecanoic acid)	0.052 µg/kg dry matter	± 36%	DIN 38414-14 mod.	EUSELI
LW14D	PFHxS (Perfluorohexanesulfonic acid)	<0.030 µg/kg dry matter	± 36%	DIN 38414-14 mod.	EUSELI
LW14H	PFNA (Perfluorononanoic acid)	0.032 µg/kg dry matter	± 36%	DIN 38414-14 mod.	EUSELI
LW22I	PFNS (Perfluorononane sulfonic acid)	<0.20 µg/kg dry matter	± 36%	DIN 38414-14 mod.	EUSELI
LW14G	PFOA (Perfluorooctanoic acid)	0.046 µg/kg dry matter	± 36%	DIN 38414-14 mod.	EUSELI
LW14U	PFOS (Perfluorooctanesulfonic acid)	0.56 µg/kg dry matter	± 36%	DIN 38414-14 mod.	EUSELI
LW14J	PFOSA (Perfluorooctanesulfonamide)	0.12 µg/kg dry matter	± 36%	DIN 38414-14 mod.	EUSELI
LW14S	PFPeA (Perfluoropentanoic acid)	0.040 µg/kg dry matter	± 36%	DIN 38414-14 mod.	EUSELI
LW22H	PFPeS (Perfluoropentane sulfonic acid)	<0.10 µg/kg dry matter	± 36%	DIN 38414-14 mod.	EUSELI
LW14M	PFTeDA (Perfluorotetradecanoic acid)	0.22 µg/kg dry matter	± 36%	DIN 38414-14 mod.	EUSELI
LW15L	PFTrDA (Perfluorotridecanoic acid)	<0.10 µg/kg dry matter	± 36%	DIN 38414-14 mod.	EUSELI
LW25W	PFTrDS (Perfluorotridecane sulfonic acid)	<1.0 µg/kg dry matter	± 36%	DIN 38414-14 mod.	EUSELI
LW14K	PFUdA (Perfluoroundecanoic acid)	<0.10 µg/kg dry matter	± 36%	DIN 38414-14 mod.	EUSELI
LW25V	PFUnDS (Perfluoroundecane sulfonic acid)	<1.0 µg/kg dry matter	± 36%	DIN 38414-14 mod.	EUSELI
LW280	Sum of PFAS 4 excl. LOQ	0.64 µg/kg dm		DIN 38414-14 mod.	EUSELI
LW2AL	Sum of PFAS 4 incl. ½ LOQ	0.65 µg/kg dry matter		DIN 38414-14 mod.	EUSELI
LW1VD	Sum of PFAS excl. LOQ	1.4 µg/kg dry matter		DIN 38414-14 mod.	EUSELI
LW14Z	Sum of PFAS incl. ½ LOQ	3.7 µg/kg dry matter		DIN 38414-14 mod.	EUSELI
LW151	Sum of PFAS SLV 11 incl. ½ LOQ	0.87 µg/kg dry matter		DIN 38414-14 mod.	EUSELI

Report comments:

New version of the report including sample information.

PFOS, PFHxS, PFOA, PFOSA and PFNA are reported as the sum of linear and branched forms.

Explanations

*AR-003 v93

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Ludmila Bucuricova, ASM

This test report has been created electronically and has been verified and authorised.

Explanations of which laboratory that has performed the tests and to accreditation/recognitions

Lab	Name	Mark.	Accreditation/Recognition
EUSELI	Eurofins Food & Feed Testing Sweden (Lidköping)		

[a] in front of a parameter indicates that the test has been performed under accreditation

Explanations

*AR-003 v93

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Amended Report

Report No.:	25-12078-2		
Initial Date of Issue:	24-Apr-2025	Date of Re-Issue:	25-Apr-2025
Re-Issue Details:	This report has been revised and directly supersedes 25-12078-1 in its entirety		
Client	Concept Engineering Consultants		
Client Address:	47 - 49 Brunel Road London W3 7XR		
Contact(s):	Gabriela Mandache Kasia Mazerant Lab		
Project	25/4047 LHR042 Thorney Lane DC1		
Quotation No.:	Q25-36897	Date Received:	10-Apr-2025
Order No.:	105464 (CL6907)	Date Instructed:	10-Apr-2025
No. of Samples:	2		
Turnaround (Wkdays):	9	Results Due:	24-Apr-2025
Date Approved:	24-Apr-2025	Subcon Results Due:	06-May-2025

Approved By:

Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: 25/4047 LHR042 Thorney Lane DC1

Client: Concept Engineering Consultants		Chemtest Job No.:				25-12078	25-12078
Quotation No.: Q25-36897		Chemtest Sample ID.:				1958680	1958681
Order No.: 105464 (CL6907)		Client Sample Ref.:				2A	2A
		Sample Location:				Attenuation Pond	Drainage 1
		Sample Type:				SOIL	SOIL
		Top Depth (m):				0.00	0.00
		Date Sampled:				08-Apr-2025	08-Apr-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
Moisture		N	2030	%	0.020	[H] 39	[H] 35
Soil Colour		N	2040		N/A	[H] Brown	[H] Brown
Other Material		N	2040		N/A	[H] Roots and leaf	[H] None
Soil Texture		N	2040		N/A	[H] Clay	[H] sludge
pH at 20C		M	2010		4.0	[H] 7.6	[H] 8.3
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	[H] 2.5	[H] 1.1
Arsenic		M	2455	mg/kg	0.5	[H] 5.3	[H] 12
Beryllium		U	2455	mg/kg	0.5	[H] < 0.5	[H] 0.7
Cadmium		M	2455	mg/kg	0.10	[H] 0.12	[H] 0.69
Chromium		M	2455	mg/kg	0.5	[H] 13	[H] 47
Antimony		N	2455	mg/kg	2.0	[H] < 2.0	[H] 43
Copper		M	2455	mg/kg	0.50	[H] 20	[H] 270
Mercury		M	2455	mg/kg	0.05	[H] 0.07	[H] 0.11
Nickel		M	2455	mg/kg	0.50	[H] 10	[H] 27
Lead		M	2455	mg/kg	0.50	[H] 36	[H] 110
Selenium		M	2455	mg/kg	0.25	[H] < 0.25	[H] 0.47
Vanadium		U	2455	mg/kg	0.5	[H] 19	[H] 49
Zinc		M	2455	mg/kg	0.50	[H] 69	[H] 1600
Chromium (Hexavalent)		N	2490	mg/kg	0.50	[H] < 0.50	[H] < 0.50
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	[H] < 0.05	[H] < 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	[H] < 0.05	[H] 0.25
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	[H] < 0.05	[H] 3.1
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	[H] < 0.10	[H] 3.3
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	[H] < 0.05	[H] 37
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	[H] < 0.25	[H] 40
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	[H] < 2.0	[H] 2400
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	[H] 5.3	[H] 9100
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	[H] 54	[H] 15000
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	[H] 690	[H] 7200
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	[H] 44	[H] 780
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	[H] 750	[H] 34000
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	[H] 800	[H] 35000
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	[H] < 0.05	[H] < 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	[H] < 0.05	[H] 0.28
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	[H] < 0.05	[H] 4.0
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	[H] < 0.25	[H] 4.3

Results - Soil

Project: 25/4047 LHR042 Thorney Lane DC1

Client: Concept Engineering Consultants		Chemtest Job No.:				25-12078	25-12078
Quotation No.: Q25-36897		Chemtest Sample ID.:				1958680	1958681
Order No.: 105464 (CL6907)		Client Sample Ref.:				2A	2A
		Sample Location:				Attenuation Pond	Drainage 1
		Sample Type:				SOIL	SOIL
		Top Depth (m):				0.00	0.00
		Date Sampled:				08-Apr-2025	08-Apr-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	[H] < 1.0	[H] 860
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	[H] < 1.0	[H] 2700
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	[H] 23	[H] 950
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	[H] 110	[H] 150
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	[H] 64	[H] 34
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	[H] 140	[H] 4600
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	[H] 200	[H] 4600
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	[H] < 0.50	[H] 44
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	[H] 890	[H] 39000
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	[H] 1000	[H] 40000
Naphthalene		M	2800	mg/kg	0.10	[H] 0.23	[H] 42
Acenaphthylene		N	2800	mg/kg	0.10	[H] 0.49	[H] < 0.10
Acenaphthene		M	2800	mg/kg	0.10	[H] 0.30	[H] < 0.10
Fluorene		M	2800	mg/kg	0.10	[H] 0.24	[H] 21
Phenanthrene		M	2800	mg/kg	0.10	[H] 2.0	[H] 38
Anthracene		M	2800	mg/kg	0.10	[H] 0.91	[H] < 0.10
Fluoranthene		M	2800	mg/kg	0.10	[H] 6.0	[H] 12
Pyrene		M	2800	mg/kg	0.10	[H] 5.4	[H] 13
Benzo[a]anthracene		M	2800	mg/kg	0.10	[H] 3.9	[H] < 0.10
Chrysene		M	2800	mg/kg	0.10	[H] 4.8	[H] < 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	[H] 10	[H] < 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	[H] 3.5	[H] < 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	[H] 7.1	[H] < 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	[H] 6.1	[H] < 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	[H] 1.1	[H] < 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	[H] 6.3	[H] < 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	[H] 58	[H] 130
PFAS Suite Soils		SN		µg/kg	0.0	[H] See Attached	[H] See Attached

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2010	pH Value of Soils	pH at 20°C	pH Meter	
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES	
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.	
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.	
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazine.	
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8-C10 Aromatics: >C5–C7,>C7-C8,>C8–C10	Water extraction / Headspace GCxGC FID detection	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	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-MS	
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical 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"
SOP	Standard operating procedure
LOD	Limit of detection

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

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 EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ 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.

NEW_ASB	Eurofins Chemtest Limited, 11 Depot Road, Newmarket, CB8 0AL
DURHAM	Eurofins Chemtest Limited, Unit A North Wing, Prospect Business Park, Crookhall Lane, Consett, Co Durham, DH8 7PW

Sample Deviation Codes

As a result of any of the below deviations applying, the test results may be unreliable

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 - The required amount of sample for analysis was not received

H - Appropriate cooling measures were not taken for sample transportation

Sample Retention and Disposal

All soil samples will be retained for a period of 30 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.

Report Information

Water Sample Category Key for Accreditation

DW - Drinking Water
GW - Ground Water
LE - Land Leachate
NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

Asbestos Tests LOD = LOQ

Limit of Detection = Limit of Quantification for asbestos results only

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

C E R T I F I C A T E

Project code : 1908860
Your Project Description : 25-12078
Client : Eurofins Chemtest Ltd

Your Sample identification
8744628 = 1958680 Attenuation Pond
8744632 = 1958681 Drainage 1

Client sampling date	:	08/04/2025	08/04/2025
Date of receipt	:	11/04/2025	11/04/2025
Startdate	:	11/04/2025	11/04/2025
Reference number	:	8744628	8744632
Your Matrix	:	Soil	Soil

Sample preparation

S AS3000 (steekmonster)		done	done
S weight of artifact	g	n.a.	n.a.
S type of artifact		n.v.t.	n.v.t.
S sample preparation		done	done

General analysis - physics

S dry weight	%	51,0	45,5

C E R T I F I C A T E

Project code : 1908860
Your Project Description : 25-12078
Client : Eurofins Chemtest Ltd

Your Sample identification

8744628 = 1958680 Attenuation Pond

8744632 = 1958681 Drainage 1

Client sampling date	:	08/04/2025	08/04/2025
Date of receipt	:	11/04/2025	11/04/2025
Startdate	:	11/04/2025	11/04/2025
Reference number	:	8744628	8744632
Your Matrix	:	Soil	Soil

Organic compounds - per- and polyfluoroalkylsubstances (PFAS) HPLC-MS/MS*Perfluorinated carboxylic acids:*

S	PFBA	µg/kg dw	0,5	0,2
S	PFPeA	µg/kg dw	1,1	< 0,2
S	PFHxA	µg/kg dw	0,5	0,2
S	PFHpA	µg/kg dw	0,5	< 0,1
S	PFOA linear	µg/kg dw	0,3	< 0,1
S	PFOA branched	µg/kg dw	< 0,1	< 0,1
S	PFNA	µg/kg dw	0,2	< 0,1
S	PFDA	µg/kg dw	0,2	< 0,1
S	PFUnDA	µg/kg dw	0,1	< 0,1
S	PFDoDA	µg/kg dw	< 0,1	0,2
S	PFTTrDA	µg/kg dw	< 0,1	< 0,1
S	PFTeDA	µg/kg dw	< 0,1	0,1
S	PFHxDA	µg/kg dw	< 0,1	< 0,1
S	PFODA	µg/kg dw	< 0,1	< 0,1

Perfluorinated sulfonic acids:

S	PFBS	µg/kg dw	0,1	0,1
S	PFPeS	µg/kg dw	< 0,1	< 0,1
S	PFHxS	µg/kg dw	0,2	< 0,1
S	PFHpS	µg/kg dw	< 0,1	0,2
S	PFOS linear	µg/kg dw	1,6	0,2
S	PFOS branched	µg/kg dw	0,2	< 0,1
S	PFDS	µg/kg dw	< 0,1	< 0,2

Perfluorinated alkyl substances - precursors:

S	4:2 FTS	µg/kg dw	< 0,1	< 0,1
S	6:2 FTS	µg/kg dw	0,2	4,3
S	8:2 FTS	µg/kg dw	< 0,1	< 0,1
S	10:2 FTS	µg/kg dw	< 0,1	0,2
S	PFOSA	µg/kg dw	< 0,1	< 0,1

Perfluorinated alkyl substances - remainder:

	HPFHpA	µg/kg dw	< 0,4	< 0,4
	4H-PFUnDA	µg/kg dw	< 0,4	< 0,4
	8:2 FTUCA	µg/kg dw	< 0,4	< 0,4
Q	9CI-PF3ONS (F53-B)	µg/kg dw	< 0,1	< 0,1
Q	ADONA	µg/kg dw	< 0,1	< 0,1
Q	EtFOSA	µg/kg dw	< 0,1	< 0,1
S	EtFOSAA	µg/kg dw	< 0,1	0,1
	MeFBSA	µg/kg dw	< 0,4	< 0,4
S	MeFOSAA	µg/kg dw	< 0,1	< 0,1
Q	P37DMOA	µg/kg dw	< 1	< 1
Q	PFBSA	µg/kg dw	< 0,1	< 0,1
S	MeFOSA	µg/kg dw	< 0,1	< 0,1
Q	MeFBSAA	µg/kg dw	< 0,1	< 0,1
S	8:2 DiPAP	µg/kg dw	< 0,1	< 0,1
S	HFPO-DA (GenX)	µg/kg dw	< 0,1	< 0,1

- The frontpage and, where applicable, appendices of this document are integral parts of this certificate.

- Analyses marked with a 'Q' are part of the RvA accreditation certificate L086.

- Analyses marked with a 'S' are part of the AS 3000 accreditation certificate.

Verificationcode: JKTP-LENS-ZJVO-ESUS

Ref.: 1908860_certificaat_v1

CERTIFICATE

Project code : 1908860
Your Project Description : 25-12078
Client : Eurofins Chemtest Ltd

Your Sample identification

8744628 = 1958680 Attenuation Pond

8744632 = 1958681 Drainage 1

Client sampling date	:	08/04/2025	08/04/2025
Date of receipt	:	11/04/2025	11/04/2025
Startdate	:	11/04/2025	11/04/2025
Reference number	:	8744628	8744632
Your Matrix	:	Soil	Soil

S som PFOA	µg/kg dw	0,4	0,1
S sum PFOS	µg/kg dw	1,8	0,3

C E R T I F I C A T E

Project code	:	1908860
Your Project Description	:	25-12078
Client	:	Eurofins Chemtest Ltd

Notes related to analyses

General comments

The following information has been provided by the client if applicable:

Project description, Sample identification, Client sampling date, Client Matrix, Sample depth, Pot number (Barcode), Field data, Field observations and sampling data. The client sampling date can affect the validity of the results.

Quantification of branched PFOS/POA is based on DIN 38414-14.

Summation of concentrations for group parameters

Summation is calculated according to AS3000 protocol, paragraph 2.5.2 and appendix 3.

Project Note(s):	- Quantification of HFPO-DA (GenX) is based on 2,3,3,3-tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-propanoic acid (CAS nr. 13252-13-6). Another name of GenX is perfluoro-2-propoxyrpropanoic acid (PFPrOPrA).

Sample identification	:	1958681 Drainage 1
Reference number	:	8744632

Results Note(s):	
perfluoropentanoic acid (PFPeA):	- Raised reporting limit because of interference by the matrix.
perfluorodecane sulfonate (PFDS):	- Raised reporting limit because of interference by the matrix.

C E R T I F I C A T E

Project code : 1908860
Your Project Description : 25-12078
Client : Eurofins Chemtest Ltd

Appendix Index PFAS

PFAS component	Full name PFAS component
10:2 FTS	10:2 FTS (10:2 Fluorotelomer sulfonic acid)
4:2 FTS	4:2 FTS (4:2 Fluorotelomer sulfonic acid)
4H-PFUnDA	4H-PFUnDA (2H,2H,3H,3H-Perfluoroundecanoic acid)
6:2 FTS	6:2 FTS (6:2 Fluorotelomer sulfonic acid)
8:2 DiPAP	8:2 DiPAP (8:2 Fluorotelomer phosphate diester)
8:2 FTS	8:2 FTS (8:2 Fluorotelomer sulfonic acid)
8:2 FTUCA	8:2 FTUCA (8:2 Fluorotelomer unsaturated carboxylic acid)
9Cl-PF3ONS (F53-B)	9Cl-PF3ONS (F53-B) (9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid)
ADONA	ADONA (ammonium 4,8-dioxa-3H-perfluorononanoate)
EtFOSA	EtFOSA (N-ethyl perfluorooctanesulfonamide)
EtFOSAA	EtFOSAA (perfluorooctanesulfonylamide(N-ethyl)acetate)
HPFHpA	HPFHpA (7H-perfluoroheptanoic acid)
MeFBSA	MeFBSA (N-methylperfluorobutanesulfonylamide)
MeFBSAA	MeFBSAA (perfluorobutanesulfonylamide(N-methyl)acetate)
MeFOSA	MeFOSA (N-methyl perfluorooctanesulfonamide)
MeFOSAA	MeFOSAA (N-methyl perfluorooctanesulfonamidoacetic acid)
P37DMOA	P37DMOA (perfluoro-3,7-dimethyloctanoic acid)
PFBA	PFBA (perfluorobutanoic acid)
PFBS	PFBS (perfluorobutanesulfonic acid)
PFBSA	PFBSA (perfluorobutanesulfonamide)
PFDA	PFDA (perfluorodecanoic acid)
PFDoDA	PFDoDA (perfluorododecanoic acid)
PFDS	PFDS (perfluorodecanesulfonic acid)
PFHhA	PFHhA (perfluoroheptanoic acid)
PFHhS	PFHhS (perfluoroheptanesulfonic acid)
PFHxA	PFHxA (perfluorohexanoic acid)
PFHxDA	PFHxDA (perfluorohexadecanoic acid)
PFHxS	PFHxS (perfluorohexanesulfonic acid)
PFNA	PFNA (perfluorononanoic acid)
PFOA branched	PFOA branched (perfluorooctanoic acid)
PFOA linear	PFOA linear (perfluorooctanoic acid)
PFODA	PFODA (perfluorooctadecanoic acid)
PFOS branched	PFOS branched (perfluorooctanesulfonic acid)
PFOS linear	PFOS linear (perfluorooctanesulfonic acid)
PFOSA	PFOSA (perfluorooctanesulfonamide)
PFPeA	PFPeA (perfluoropentanoic acid)
PFPeS	PFPeS (perfluoropentanesulfonic acid)
PFTeDA	PFTeDA (perfluorotetradecanoic acid)
PFTTrDA	PFTTrDA (perfluorotridecanoic acid)
PFUnDA	PFUnDA (perfluoroundecanoic acid)

C E R T I F I C A T E

Project code : 1908860
Your Project Description : 25-12078
Client : Eurofins Chemtest Ltd

Methodology Soil (AS3000)**AS3000**

In dit analysecertificaat zijn de met 'S' gemerkte analyses uitgevoerd volgens de analysemethoden beschreven in het "Accreditatieschema Laboratoriumanalyses voor grond-, waterbodem- en grondwateronderzoek (AS SIKB 3000)". Het laboratoriumonderzoek is uitgevoerd volgens de onderstaande analysemethoden. Deze analyses zijn vastgelegd in het geldende accreditatie-certificaat met bijbehorende verrichtingenlijst L086 van Eurofins Omegam BV.

Samplemate : Conform AS3000 en NEN-EN 16179
Dry weight : Conform AS3010 prestatieblad 2
PFAS : Conform AS3080 prestatieblad 1
GenX : Conform AS3080 prestatieblad 2

In this certificate of analysis, the analysis marked with 'Q' have been carried out according to the analysis methods below. The analysis are registered in the current accreditation certificate with associated annex to declaration of accreditation (scope of accreditation) L086 of Eurofins Omegam BV.

PFAS : In house method



Unit 7-8 Hawarden Business Park
Manor Road (off Manor Lane)
Hawarden
Deeside
CH5 3US

Tel: (01244) 528777
email: hawardencustomerservices@alsglobal.com
Website: www.alsenvironmental.co.uk

Concept Engineering Consultants Ltd
218 Northfields Road
London
W13 9SJ

Attention: Gabriela Mandache

CERTIFICATE OF ANALYSIS

Date of report Generation:	28 March 2025
Customer:	Concept Engineering Consultants Ltd
Sample Delivery Group (SDG):	250307-66
Your Reference:	25/4047
Location:	LHR042 Thorney Lane DC1
Report No:	760490
Order Number:	104947 (CL6740)

This report has been revised and directly supersedes 760447 in its entirety.

We received 7 samples on Tuesday March 04, 2025 and 7 of these samples were scheduled for analysis which was completed on Thursday March 27, 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





CERTIFICATE OF ANALYSIS

Validated

SDG: 250307-66
Client Ref.: 25/4047

Report Number: 760490
Location: LHR042 Thorney Lane DC1

Superseded Report: 760447

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
31178105	ATENUATION POND	EW1A		03/03/2025
31178099	CANAL 1	EW1A		03/03/2025
31178100	CANAL 2	EW1A		03/03/2025
31178101	CANAL 3	EW1A		03/03/2025
31178102	CANAL 4	EW1A		03/03/2025
31178103	DRAINAGE 1A	EW1A		03/03/2025
31178104	DRAINAGE 2A	EW1A		03/03/2025

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



CERTIFICATE OF ANALYSIS

Validated

SDG: 250307-66
Client Ref.: 25/4047

Report Number: 760490
Location: LHR042 Thorney Lane DC1

Superseded Report: 760447

Results Legend X Test N No Determination Possible 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)		31178105										31178099										31178100																		
	Customer Sample Reference		ATTENUATION POND										CANAL 1										CANAL 2																		
	AGS Reference		EW1A										EW1A										EW1A																		
	Depth (m)																																								
	Container		250ml Amber Gl. PTFE/PE (ALE219)	0.5l glass bottle (ALE227)	SW	500ml Plastic (ALE208)	SW	Digitube fo PFAS analysis.	SW	H2SO4 (ALE244)	SW	HNO3 Unfiltered (ALE204)	SW	NaOH (ALE245)	SW	Vial (ALE297)	SW	0.5l glass bottle (ALE227)	SW	PTFE/PE (ALE219)	SW	250ml Amber Gl. PTFE/PE (ALE208)	SW	Digitube fo PFAS analysis.	SW	H2SO4 (ALE244)	SW	HNO3 Filtered (ALE204)	SW	HNO3 Unfiltered (ALE204)	SW	NaOH (ALE245)	SW	Vial (ALE297)	SW	0.5l glass bottle (ALE227)	SW	PTFE/PE (ALE219)	SW	250ml Amber Gl. PTFE/PE (ALE208)	SW
	Sample Type		SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW
Ammoniacal Nitrogen	All	NDPs: 1 Tests: 6								X																															
Anions by Kone (w)	All	NDPs: 1 Tests: 6				X																	X																		
Cyanide Comp/Free/Total/Thiocyanate	All	NDPs: 0 Tests: 7											X																												
Dissolved Metals by ICP-MS	All	NDPs: 1 Tests: 6				X																																			
Dissolved Organic/Inorganic Carbon	All	NDPs: 1 Tests: 6	X																																						
EPH and CWG by FID	All	NDPs: 0 Tests: 7	X																																						
GRO by GC-FID (W)	All	NDPs: 1 Tests: 5													X																										
Low Level Hexavalent Chromium (w)	All	NDPs: 1 Tests: 6				X																																			
Mercury Dissolved	All	NDPs: 1 Tests: 6				X																																			
PAH Spec MS - Aqueous (W)	All	NDPs: 1 Tests: 6		X																																					
PFAS Liquids (Full Suite)	All	NDPs: 1 Tests: 6					X																																		
pH Value	All	NDPs: 0 Tests: 7				X																																			
Phenols by HPLC (W)	All	NDPs: 0 Tests: 7								X																															
Total Metals by ICP-MS	All	NDPs: 1 Tests: 6										X																													
TPH CWG (W)	All	NDPs: 1 Tests: 5	X																																						



SDG: 250307-66
Client Ref.: 25/4047

Superseded Report: 760447

Location: LHR042 Thorney Lane DC1

11:16:44 28/03/2025

31178102	CANAL 4	EW1A		HNO3 Filtered (ALE204)	SW		
				H2SO4 (ALE244)	SW		
				Digitube fo PFAS analysis.	SW		
				500ml Plastic (ALE208)	SW		
				250ml Amber Cl. PTFE/PE (ALE219)	SW		
				0.5l glass bottle (ALE227)	SW		
				NaOH (ALE245)	SW		
31178101	CANAL 3	EW1A		HNO3 Unfiltered (ALE204)	SW		
				HNO3 Filtered (ALE204)	SW		
				H2SO4 (ALE244)	SW		
				Digitube fo PFAS analysis.	SW		
				500ml Plastic (ALE208)	SW		
				250ml Amber Cl. PTFE/PE (ALE219)	SW		
				0.5l glass bottle (ALE227)	SW		
				Vial (ALE297)	SW		
				NaOH (ALE245)	SW		X
				HNO3 Unfiltered (ALE204)	SW		
31178100	CANAL 2	EW1A		HNO3 Filtered (ALE204)	SW		
				H2SO4 (ALE244)	SW		
				Digitube fo PFAS analysis.	SW		
				500ml Plastic (ALE208)	SW		
				250ml Amber Cl. PTFE/PE (ALE219)	SW		
				0.5l glass bottle (ALE227)	SW		
				Vial (ALE297)	SW		



CERTIFICATE OF ANALYSIS

Validated

SDG: 250307-66
Client Ref.: 25/4047Report Number: 760490
Location: LHR042 Thorney Lane DC1

Superseded Report: 760447

Results Legend



Test

No Determination
Possible

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)

Customer
Sample Reference

AGS Reference

Depth (m)

Container

Sample Type

Results Legend X Test N No Determination Possible 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)		31178102										31178103										31178104									
	Customer Sample Reference		CANAL 4										DRAINAGE 1A										DRAINAGE 2A									
	AGS Reference		EW1A										EW1A										EW1A									
	Depth (m)																															
	Container		Vial (ALE297)										Vial (ALE297)										Vial (ALE297)									
			NaOH (ALE245)										NaOH (ALE245)										NaOH (ALE245)									
	Sample Type		HNO3 Unfiltered (ALE204)										HNO3 Unfiltered (ALE204)										HNO3 Unfiltered (ALE204)									
Ammoniacal Nitrogen	All	NDPs: 1 Tests: 6																														
Anions by Kone (w)	All	NDPs: 1 Tests: 6																														
Character of hydrocarbon samples	All	NDPs: 0 Tests: 1																														
Cyanide Comp/Free/Total/Thiocyanate	All	NDPs: 0 Tests: 7																														
Dissolved Metals by ICP-MS	All	NDPs: 1 Tests: 6																														
Dissolved Organic/Inorganic Carbon	All	NDPs: 1 Tests: 6																														
EPH and CWG by FID	All	NDPs: 0 Tests: 7																														
GRO by GC-FID (W)	All	NDPs: 1 Tests: 5																														
Low Level Hexavalent Chromium (w)	All	NDPs: 1 Tests: 6																														
Mercury Dissolved	All	NDPs: 1 Tests: 6																														
PAH Spec MS - Aqueous (W)	All	NDPs: 1 Tests: 6																														
PFAS Liquids (Full Suite)	All	NDPs: 1 Tests: 6																														
pH Value	All	NDPs: 0 Tests: 7																														
Phenols by HPLC (W)	All	NDPs: 0 Tests: 7																														
SVOC MS (W) - Aqueous	All	NDPs: 1 Tests: 0																														



CERTIFICATE OF ANALYSIS

Validated

SDG: 250307-66
Client Ref.: 25/4047

Report Number: 760490
Location: LHR042 Thorney Lane DC1

Superseded Report: 760447

Results Legend

- X** Test
N No Determination Possible

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)	Customer Sample Reference	AGS Reference	Depth (m)	Container												Sample Type
				NaOH (ALE245)	HNO3 Unfiltered (ALE204)	HNO3 Filtered (ALE204)	H2SO4 (ALE244)	Digitube for PFAS analysis.	500ml Plastic (ALE208)	250ml Amber Gl. PTFE/PE (ALE219)	0.5l glass bottle (ALE227)	Vial (ALE297)	NaOH (ALE245)	HNO3 Unfiltered (ALE204)	H2SO4 (ALE244)	
31178102	CANAL 4	EW1A		SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW
31178103	DRAINAGE 1A	EW1A		SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW
31178104	DRAINAGE 2A	EW1A		SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW
				NaOH (ALE245)	HNO3 Unfiltered (ALE204)	HNO3 Filtered (ALE204)	H2SO4 (ALE244)	Digitube for PFAS analysis.	500ml Plastic (ALE208)	250ml Amber Gl. PTFE/PE (ALE219)	0.5l glass bottle (ALE227)	Vial (ALE297)	NaOH (ALE245)	HNO3 Unfiltered (ALE204)	H2SO4 (ALE244)	Sample Type
				SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW
Total Metals by ICP-MS	All	NDPs: 1 Tests: 6		X									N			X
TPH CWG (W)	All	NDPs: 1 Tests: 5				N									X	
VOC MS (W)	All	NDPs: 1 Tests: 5											N			

31178104	DRAINAGE 2A	EW1A		Vial (ALE297)	SW						X



CERTIFICATE OF ANALYSIS

Validated

SDG: 250307-66
Client Ref.: 25/4047

Report Number: 760490
Location: LHR042 Thorney Lane DC1

Superseded Report: 760447

Results Legend			Customer Sample Ref.		ATENUATION POND	CANAL 1	CANAL 2	CANAL 3	CANAL 4	DRAINAGE 1A
# ISO17025 accredited.			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		Surface Water (SW) 03/03/2025	Surface Water (SW) 03/03/2025	Surface Water (SW) 03/03/2025	Surface Water (SW) 03/03/2025	Surface Water (SW) 03/03/2025	Surface Water (SW) 03/03/2025
M mCERTS accredited.										
aq Aqueous / settled sample.										
diss.filt Dissolved / filtered sample.										
tot.unfiltTotal / 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								
Age Profile Report		TM059								See Attached
Carbon, Organic (diss.filt)	<3 mg/l	TM090			12.7	6.37	4.01	5.73	8.07	
Ammoniacal Nitrogen as N	<0.2 mg/l	TM099			0.354	1.85	<0.2	0.708	<0.2	
Ammoniacal Nitrogen as NH3	<0.2 mg/l	TM099			0.43	2.25	<0.2	0.86	<0.2	
Antimony (diss.filt)	<1 µg/l	TM152			2.26	1.84	1.23	<1	1.15	
Arsenic (diss.filt)	<0.5 µg/l	TM152			1.17	0.941	0.979	3.71	0.847	
Beryllium (diss.filt)	<0.1 µg/l	TM152			<0.1	<0.1	<0.1	<0.1	<0.1	
Cadmium (diss.filt)	<0.08 µg/l	TM152			0.375	<0.08	<0.08	0.144	<0.08	
Chromium (diss.filt)	<1 µg/l	TM152			5.46	<1	<1	1.37	<1	
Copper (diss.filt)	<0.3 µg/l	TM152			31.5	5.8	3.93	10.1	3.34	
Lead (diss.filt)	<0.2 µg/l	TM152			1.95	0.335	0.636	0.371	0.356	
Manganese (diss.filt)	<3 µg/l	TM152			<3	30.4	22	138	15.1	
Nickel (diss.filt)	<0.4 µg/l	TM152			38.8	5.34	5.25	17.3	4.17	
Selenium (diss.filt)	<1 µg/l	TM152			<1	<1	<1	<1	<1	
Vanadium (diss.filt)	<1 µg/l	TM152			1.08	<1	1.14	10.3	1.01	
Zinc (diss.filt)	<1 µg/l	TM152			57.5	30.4	18.8	8.46	18.3	
Calcium (Dis.Filt)	<0.2 mg/l	TM152			107	128	113	58.6	116	
Hardness, Total as CaCO3 unfiltered	<0.35 mg/l	TM152			327	387	340	171	359	
Mercury (diss.filt)	<0.01 µg/l	TM183			<0.01	<0.01	<0.01	<0.01	<0.01	
Chloride	<2 mg/l	TM184			224	47.5	46.7	40.3	47.2	
Cyanide, Total	<0.05 mg/l	TM227			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
pH	<1 pH Units	TM256			8.02	7.48	7.6	7.92	7.62	6.05
Phenol	<0.002 mg/l	TM259			<0.002	<0.002	<0.002	<0.002	<0.002	0.06
Cresols	<0.006 mg/l	TM259			<0.006	<0.006	<0.006	<0.006	<0.006	<0.06
Xylenols	<0.008 mg/l	TM259			<0.008	<0.008	<0.008	<0.008	<0.008	0.25
Phenols, Total Detected monohydric	<0.016 mg/l	TM259			<0.016	<0.016	<0.016	<0.016	<0.016	0.31
Low Level Hexavalent Chromium	<0.003 mg/l	TM331			0.00502	<0.003	<0.003	<0.003	<0.003	
PFBA (375-22-4)	<2 ng/l	TM434			37	36	30.3	22.4	24.7	
PFMOPra (377-73-1)	<1 ng/l	TM434			<1	<1	<1	<1	<1	
3:3 FTCA (356-02-5)	<2 ng/l	TM434			<2	<2	<2	<2	<2	
PFPA (2706-90-3)	<1 ng/l	TM434			203	26	12.6	43.8	39.4	
PFMOBA (863090-89-5)	<1 ng/l	TM434			<1	<1	<1	<1	<1	
4:2 FTS (757124-72-4)	<1 ng/l	TM434			<1	<1	<1	<1	<1	



CERTIFICATE OF ANALYSIS

Validated

SDG: 250307-66
Client Ref.: 25/4047

Report Number: 760490
Location: LHR042 Thorney Lane DC1

Superseded Report: 760447

Results Legend			Customer Sample Ref. Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	ATENUATION POND	CANAL 1	CANAL 2	CANAL 3	CANAL 4	DRAINAGE 1A
#	ISO17025 accredited.			Surface Water (SW)	Surface Water (SW)	Surface Water (SW)	Surface Water (SW)	Surface Water (SW)	Surface Water (SW)
M	mCERTS accredited.			03/03/2025	03/03/2025	03/03/2025	03/03/2025	03/03/2025	03/03/2025
aq	Aqueous / settled sample.			04/03/2025	04/03/2025	04/03/2025	04/03/2025	04/03/2025	04/03/2025
diss.filt	Dissolved / filtered sample.			250307-66	250307-66	250307-66	250307-66	250307-66	250307-66
tot.unfilt	Total / unfiltered sample.			31178105	31178099	31178100	31178101	31178102	31178103
*	Subcontracted - refer to subcontractor report for accreditation status.			EW1A	EW1A	EW1A	EW1A	EW1A	EW1A
**	% 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							
NFDHA (151772-58-6)	<3 ng/l	TM434	<3	<3	<3	<3	<3		
PFBS (375-73-5)	<1 ng/l	TM434	10.6	9.79	7.34	12.7	11.5		
PFHxA (307-24-4)	<1 ng/l	TM434	87.9	24.2	10.4	29.2	23.7		
HFPO-DA (13252-13-6)	<2 ng/l	TM434	<2	<2	<2	<2	<2		
PFEESA (113507-82-7)	<1 ng/l	TM434	<1	<1	<1	<1	<1		
PFHpA (375-85-9)	<1 ng/l	TM434	63.3	19.1	6.51	16.3	16.9		
PFPeS (2706-91-4)	<1 ng/l	TM434	1.29	2.73	1.97	2.95	3.15		
5:3 FTCA (914637-49-3)	<5 ng/l	TM434	<5	<5	<5	<5	<5		
ADONA (919005-14-4)	<1 ng/l	TM434	<1	<1	<1	<1	<1		
6:2 FTS (27619-97-2)	<1 ng/l	TM434	23.6	2.1	1.64	5.49	3.75		
FBSA (30334-69-1)	<1 ng/l	TM434	1.19	<1	<1	3.4	4.18		
PFOA (335-67-1)	<0.65 ng/l	TM434	35.5	35.2	17.7	30.5	31.2		
PFHxS (355-46-4)	<1 ng/l	TM434	5.47	13.5	8.28	15.1	15.9		
PFNA (375-95-1)	<1 ng/l	TM434	6.82	<1	<1	1.73	1.98		
PFecHS (133201-07-7)	<1 ng/l	TM434	1.72	5.79	2.64	1.8	1.65		
PFHpS (375-92-8)	<1 ng/l	TM434	<1	<1	<1	<1	<1		
8:2 FTS (39108-34-4)	<2 ng/l	TM434	<2	<2	<2	<2	<2		
HFPO-TA (13252-14-7)	<5 ng/l	TM434	<5	<5	<5	<5	<5		
PFDA (335-76-2)	<2 ng/l	TM434	<2	<2	<2	<2	<2		
MeFOSAA (2355-31-9)	<2 ng/l	TM434	<2	<2	<2	<2	<2		
7:3 FTCA (812-70-4)	<5 ng/l	TM434	<5	<5	<5	<5	<5		
Linear PFOS (1763-23-1)	<0.65 ng/l	TM434	8.2	6.99	5.03	22.2	21.5		
Branched PFOS	<0.65 ng/l	TM434	11.8	16	10	20	18.7		
EtFOSAA (2991-50-6)	<2 ng/l	TM434	<2	<2	<2	<2	<2		
PFUnA (2058-94-8)	<2 ng/l	TM434	<2	<2	<2	<2	<2		
9CI-PF3ONS (756426-58-1)	<1 ng/l	TM434	<1	<1	<1	<1	<1		
PFNS (68259-12-1)	<1 ng/l	TM434	<1	<1	<1	<1	<1		
FHxSA (41997-13-1)	<1 ng/l	TM434	<1	<1	<1	<1	<1		
PFDoA (307-55-1)	<2 ng/l	TM434	<2	<2	<2	<2	<2		
PFDS (335-77-3)	<2 ng/l	TM434	<2	<2	<2	<2	<2		
PFTTrDA (72629-94-8)	<3 ng/l	TM434	<3	<3	<3	<3	<3		
11CI-PF3OUdS (763051-92-9)	<2 ng/l	TM434	<2	<2	<2	<2	<2		
PFUnDS (749786-16-1)	<2 ng/l	TM434	<2	<2	<2	<2	<2		



CERTIFICATE OF ANALYSIS

Validated

SDG: 250307-66
Client Ref.: 25/4047

Report Number: 760490
Location: LHR042 Thorney Lane DC1

Superseded Report: 760447

Results Legend			Customer Sample Ref. Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	ATENUATION POND	CANAL 1	CANAL 2	CANAL 3	CANAL 4	DRAINAGE 1A
#	ISO17025 accredited.			Surface Water (SW)	Surface Water (SW)	Surface Water (SW)	Surface Water (SW)	Surface Water (SW)	Surface Water (SW)
M	mCERTS accredited.			03/03/2025	03/03/2025	03/03/2025	03/03/2025	03/03/2025	03/03/2025
aq	Aqueous / settled sample.			04/03/2025	04/03/2025	04/03/2025	04/03/2025	04/03/2025	04/03/2025
diss.filt	Dissolved / filtered sample.			250307-66	250307-66	250307-66	250307-66	250307-66	250307-66
tot.unfilt	Total / unfiltered sample.			31178105	31178099	31178100	31178101	31178102	31178103
*	Subcontracted - refer to subcontractor report for accreditation status.			EW1A	EW1A	EW1A	EW1A	EW1A	EW1A
**	% 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	6:2 FTAB (see appendix)								
Component	LOD/Units	Method							
PFTeA (376-06-7)	<1 ng/l	TM434	<1	<1	<1	<1	<1		
PFOSA (754-91-6)	<2 ng/l	TM434	<2	<2	<2	<2	<2		
PFDoS (79780-39-5)	<2 ng/l	TM434	<2	<2	<2	<2	<2		
PFTrDS (174675-49-1)	<1 ng/l	TM434	<1	<1	<1	<1	<1		
PFHxDA (67905-19-5)	<1 ng/l	TM434	<1	<1	<1	<1	<1		
MeFOSE (24448-09-7)	<10 ng/l	TM434	<10	<10	<10	<10	<10		
N-MeFOSA (31506-32-8)	<1 ng/l	TM434	<1	<1	<1	<1	<1		
EtFOSE (1691-99-2)	<10 ng/l	TM434	<10	<10	<10	<10	<10		
PFODA (16517-11-6)	<1 ng/l	TM434	<1	<1	<1	<1	<1		
N-EtFOSA (4151-50-2)	<1 ng/l	TM434	<1	<1	<1	<1	<1		
6:2 FTAB (34455-29-3)	<10 ng/l	TM434	65.4	<10	<10	<10	11.5		
Total PFOS	<0.65 ng/l	TM434	20	23	15	42.2	40.2		
Total PFAS DWI 47	<90 ng/l	TM434	497	197	114	228	218		



CERTIFICATE OF ANALYSIS

Validated

SDG: 250307-66
Client Ref.: 25/4047

Report Number: 760490
Location: LHR042 Thorney Lane DC1

Superseded Report: 760447

Results Legend		Customer Sample Ref.	DRAINAGE 2A				
# ISO17025 accredited. 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*§@ Sample deviation (see appendix)		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	Surface Water (SW) 03/03/2025 04/03/2025 250307-66 31178104 EW1A				
Component	LOD/Units	Method					
Carbon, Organic (diss.filt)	<3 mg/l	TM090	10.3				
Ammoniacal Nitrogen as N	<0.2 mg/l	TM099	1.14				
Ammoniacal Nitrogen as NH3	<0.2 mg/l	TM099	1.38				
Antimony (diss.filt)	<1 µg/l	TM152	<1				
Arsenic (diss.filt)	<0.5 µg/l	TM152	0.677				
Beryllium (diss.filt)	<0.1 µg/l	TM152	<0.1				
Cadmium (diss.filt)	<0.08 µg/l	TM152	<0.08				
Chromium (diss.filt)	<1 µg/l	TM152	<1				
Copper (diss.filt)	<0.3 µg/l	TM152	1.85				
Lead (diss.filt)	<0.2 µg/l	TM152	<0.2				
Manganese (diss.filt)	<3 µg/l	TM152	266				
Nickel (diss.filt)	<0.4 µg/l	TM152	2.23				
Selenium (diss.filt)	<1 µg/l	TM152	<1				
Vanadium (diss.filt)	<1 µg/l	TM152	<1				
Zinc (diss.filt)	<1 µg/l	TM152	14.4				
Calcium (Dis.Filt)	<0.2 mg/l	TM152	32.7				
Hardness, Total as CaCO3 unfiltered	<0.35 mg/l	TM152	2100				
Mercury (diss.filt)	<0.01 µg/l	TM183	<0.01				
Chloride	<2 mg/l	TM184	3.5				
Cyanide, Total	<0.05 mg/l	TM227	<0.05				
pH	<1 pH Units	TM256	7.42				
Phenol	<0.002 mg/l	TM259	0.01				
Cresols	<0.006 mg/l	TM259	0.09				
Xylenols	<0.008 mg/l	TM259	<0.008				
Phenols, Total Detected monohydric	<0.016 mg/l	TM259	0.1				
Low Level Hexavalent Chromium	<0.003 mg/l	TM331	<0.06				
PFBA (375-22-4)	<2 ng/l	TM434	<2				
PFMOPra (377-73-1)	<1 ng/l	TM434	<1				
3:3 FTCA (356-02-5)	<2 ng/l	TM434	<2				
PFPA (2706-90-3)	<1 ng/l	TM434	<1				
PFMOBA (863090-89-5)	<1 ng/l	TM434	<1				
4:2 FTS (757124-72-4)	<1 ng/l	TM434	<1				
NFDHA (151772-58-6)	<3 ng/l	TM434	<3				



CERTIFICATE OF ANALYSIS

Validated

SDG: 250307-66
Client Ref.: 25/4047

Report Number: 760490
Location: LHR042 Thorney Lane DC1

Superseded Report: 760447

Results Legend		Customer Sample Ref.	DRAINAGE 2A				
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfiltTotal / 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) 1-4-9@ Sample deviation (see appendix)	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference						
Component	LOD/Units	Method					
PFBS (375-73-5)	<1 ng/l	TM434	<1				
PFHxA (307-24-4)	<1 ng/l	TM434	1.42				
HFPO-DA (13252-13-6)	<2 ng/l	TM434	<2				
PFEESA (113507-82-7)	<1 ng/l	TM434	<1				
PFHpA (375-85-9)	<1 ng/l	TM434	1.31				
PFPeS (2706-91-4)	<1 ng/l	TM434	<1				
5:3 FTCA (914637-49-3)	<5 ng/l	TM434	<5				
ADONA (919005-14-4)	<1 ng/l	TM434	<1				
6:2 FTS (27619-97-2)	<1 ng/l	TM434	4.57				
FBSA (30334-69-1)	<1 ng/l	TM434	<1				
PFOA (335-67-1)	<0.65 ng/l	TM434	<0.65				
PFHxS (355-46-4)	<1 ng/l	TM434	<1				
PFNA (375-95-1)	<1 ng/l	TM434	<1				
PFecHS (133201-07-7)	<1 ng/l	TM434	<1				
PFHpS (375-92-8)	<1 ng/l	TM434	<1				
8:2 FTS (39108-34-4)	<2 ng/l	TM434	<2				
HFPO-TA (13252-14-7)	<5 ng/l	TM434	<5				
PFDA (335-76-2)	<2 ng/l	TM434	<2				
MeFOSAA (2355-31-9)	<2 ng/l	TM434	<2				
7:3 FTCA (812-70-4)	<5 ng/l	TM434	<5				
Linear PFOS (1763-23-1)	<0.65 ng/l	TM434	1.22				
Branched PFOS	<0.65 ng/l	TM434	1.02				
EtFOSAA (2991-50-6)	<2 ng/l	TM434	<2				
PFUnA (2058-94-8)	<2 ng/l	TM434	<2				
9CI-PF3ONS (756426-58-1)	<1 ng/l	TM434	<1				
PFNS (68259-12-1)	<1 ng/l	TM434	<1				
FHxSA (41997-13-1)	<1 ng/l	TM434	<1				
PFDoA (307-55-1)	<2 ng/l	TM434	<2				
PFDS (335-77-3)	<2 ng/l	TM434	<2				
PFTTrDA (72629-94-8)	<3 ng/l	TM434	<3				
11CI-PF3OUdS (763051-92-9)	<2 ng/l	TM434	<2				
PFUnDS (749786-16-1)	<2 ng/l	TM434	<2				
PFTeA (376-06-7)	<1 ng/l	TM434	<1				

SDG: 250307-66

Report Number: 760490

Superseded Report: 760447

Client Ref.: 25/4047

Location: LHR042 Thorney Lane DC1

EPH and CWG by FID

[illegible]



Superseded Report: 760447

Location: LHR042 Thorney Lane DC1



CERTIFICATE OF ANALYSIS

Validated

SDG: 250307-66
Client Ref.: 25/4047

Report Number: 760490
Location: LHR042 Thorney Lane DC1

Superseded Report: 760447

Notification of NDPs (No determination possible)

Date Received : 07/03/2025 10:10:55

Sample No	Customer Sample Ref.	Depth (m)	Test	Comment
31178103	DRAINAGE 1A EW1A		VOC MS (W)	Sample contains oil / product
31178103	DRAINAGE 1A EW1A		VOC MS (W)	Sample contains oil / product
31178103	DRAINAGE 1A EW1A		PAH Spec MS - Aqueous (W)	Sample unsuitable for analysis
31178103	DRAINAGE 1A EW1A		PAH Spec MS - Aqueous (W)	Sample unsuitable for analysis
31178103	DRAINAGE 1A EW1A		SVOC MS (W) - Aqueous	Sample unsuitable for analysis
31178103	DRAINAGE 1A EW1A		SVOC MS (W) - Aqueous	Sample unsuitable for analysis
31178103	DRAINAGE 1A EW1A		GRO by GC-FID (W)	Sample contains oil / product
31178103	DRAINAGE 1A EW1A		GRO by GC-FID (W)	Sample contains oil / product
31178103	DRAINAGE 1A EW1A		TPH CWG (W)	Sample contains oil / product
31178103	DRAINAGE 1A EW1A		TPH CWG (W)	Sample contains oil / product
31178103	DRAINAGE 1A EW1A		Mercury Dissolved	Sample contains oil / product
31178103	DRAINAGE 1A EW1A		Mercury Dissolved	Sample contains oil / product
31178103	DRAINAGE 1A EW1A		Dissolved Metals by ICP-MS	Sample contains oil / product
31178103	DRAINAGE 1A EW1A		Dissolved Metals by ICP-MS	Sample contains oil / product
31178103	DRAINAGE 1A EW1A		Low Level Hexavalent Chromium (w)	Sample contains oil / product
31178103	DRAINAGE 1A EW1A		Low Level Hexavalent Chromium (w)	Sample contains oil / product
31178103	DRAINAGE 1A EW1A		Dissolved Organic/Inorganic Carbon	Sample contains oil / product
31178103	DRAINAGE 1A EW1A		Dissolved Organic/Inorganic Carbon	Sample contains oil / product
31178103	DRAINAGE 1A EW1A		Anions by Kone (w)	Sample contains oil / product
31178103	DRAINAGE 1A EW1A		Anions by Kone (w)	Sample contains oil / product
31178103	DRAINAGE 1A EW1A		Ammoniacal Nitrogen	Sample contains oil / product
31178103	DRAINAGE 1A EW1A		Ammoniacal Nitrogen	Sample contains oil / product
31178103	DRAINAGE 1A EW1A		Total Metals by ICP-MS	Sample contains oil / product
31178103	DRAINAGE 1A EW1A		Total Metals by ICP-MS	Sample contains oil / product
31178103	DRAINAGE 1A EW1A		PFAS Liquids (Full Suite)	Sample contains oil / product
31178103	DRAINAGE 1A EW1A		PFAS Liquids (Full Suite)	Sample contains oil / product



CERTIFICATE OF ANALYSIS

Validated

SDG: 250307-66
Client Ref.: 25/4047

Report Number: 760490
Location: LHR042 Thorney Lane DC1

Superseded Report: 760447

Table of Results - Appendix

Method No	Description
TM178	Determination of Polynuclear Aromatic Hydrocarbons (PAH) by GC-MS in Waters
TM331	Low Level Hexavalent Chromium
TM439	Determination of Extractable Petroleum Hydrocarbons (EPH) CWG banding by GC-FID on liquids
TM059	Determination of whole oil by gas chromatography (C4-C40)
TM152	Analysis of Aqueous Samples by ICP-MS
TM208	Determination of Volatile Organic Compounds by Headspace / GC-MS in Waters
TM227	Determination of Total Cyanide, Free (Easily Liberatable) Cyanide and Thiocyanate
TM256	Determination of pH, EC, TDS and Alkalinity in Aqueous samples
TM183	Determination of Trace Level Mercury in Waters and Leachates by PSA Cold Vapour Atomic Fluorescence Spectrometry
TM184	The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers
TM245	Determination of GRO by Headspace in waters
TM434	Analysis of PFAS
TM090	Determination of Total Organic Carbon/Total Inorganic Carbon in Water and Waste Water
TM099	Determination of Ammonium in Water Samples using the Kone Analyser
TM259	Determination of Phenols in Waters and Leachates by HPLC

NA = not applicable.

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



CERTIFICATE OF ANALYSIS

Validated

SDG: 250307-66
Client Ref.: 25/4047

Report Number: 760490
Location: LHR042 Thorney Lane DC1

Superseded Report: 760447

Test Completion Dates

Lab Sample No(s)	31178105	31178099	31178100	31178101	31178102	31178103	31178104
Customer Sample Ref.	ATENUATION POND	CANAL 1	CANAL 2	CANAL 3	CANAL 4	DRAINAGE 1A	DRAINAGE 2A
AGS Ref.	EW1A	EW1A	EW1A	EW1A	EW1A	EW1A	EW1A
Depth							
Type	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Ammoniacal Nitrogen	11-Mar-2025	11-Mar-2025	11-Mar-2025	11-Mar-2025	11-Mar-2025		11-Mar-2025
Anions by Kone (w)	12-Mar-2025	10-Mar-2025	10-Mar-2025	10-Mar-2025	10-Mar-2025		10-Mar-2025
Character of hydrocarbon samples						25-Mar-2025	
Cyanide Comp/Free/Total/Thiocyanate	11-Mar-2025	11-Mar-2025	11-Mar-2025	11-Mar-2025	11-Mar-2025	11-Mar-2025	11-Mar-2025
Dissolved Metals by ICP-MS	13-Mar-2025	12-Mar-2025	12-Mar-2025	12-Mar-2025	12-Mar-2025		12-Mar-2025
Dissolved Organic/Inorganic Carbon	11-Mar-2025	11-Mar-2025	11-Mar-2025	11-Mar-2025	11-Mar-2025		11-Mar-2025
EPH and CWG by FID	13-Mar-2025	14-Mar-2025	13-Mar-2025	13-Mar-2025	14-Mar-2025	17-Mar-2025	13-Mar-2025
GRO by GC-FID (W)	12-Mar-2025	12-Mar-2025	12-Mar-2025		12-Mar-2025		12-Mar-2025
Low Level Hexavalent Chromium (w)	11-Mar-2025	11-Mar-2025	11-Mar-2025	11-Mar-2025	11-Mar-2025		11-Mar-2025
Mercury Dissolved	13-Mar-2025	13-Mar-2025	13-Mar-2025	13-Mar-2025	13-Mar-2025		13-Mar-2025
PAH Spec MS - Aqueous (W)	14-Mar-2025	14-Mar-2025	14-Mar-2025	14-Mar-2025	14-Mar-2025		14-Mar-2025
PFAS Liquids (Full Suite)	27-Mar-2025	27-Mar-2025	27-Mar-2025	27-Mar-2025	27-Mar-2025		27-Mar-2025
pH Value	13-Mar-2025	13-Mar-2025	13-Mar-2025	13-Mar-2025	13-Mar-2025	13-Mar-2025	13-Mar-2025
Phenols by HPLC (W)	12-Mar-2025	12-Mar-2025	12-Mar-2025	12-Mar-2025	12-Mar-2025	12-Mar-2025	12-Mar-2025
Total Metals by ICP-MS	11-Mar-2025	12-Mar-2025	12-Mar-2025	11-Mar-2025	12-Mar-2025		11-Mar-2025
TPH CWG (W)	13-Mar-2025	14-Mar-2025	13-Mar-2025		14-Mar-2025		13-Mar-2025
VOC MS (W)	11-Mar-2025	11-Mar-2025	11-Mar-2025		11-Mar-2025		11-Mar-2025

Chemical Oil Fingerprint

Client: H_CONSIT_LON

Job Number: 250307-66 31178167

Identity: SE DRAINAGE 1A

Description: Amber product

Carbon Range:	C8-C28
Boiling Point Range:	126-432°C
Pristane/Phytane Ratio:	4.17
nC17/Pristane Ratio:	1.00
Fingerprint:	DIESEL RANGE HYDROCARBONS
Comments:	NOT DEFINED
Diesel Age:	15 +/- 2 Years

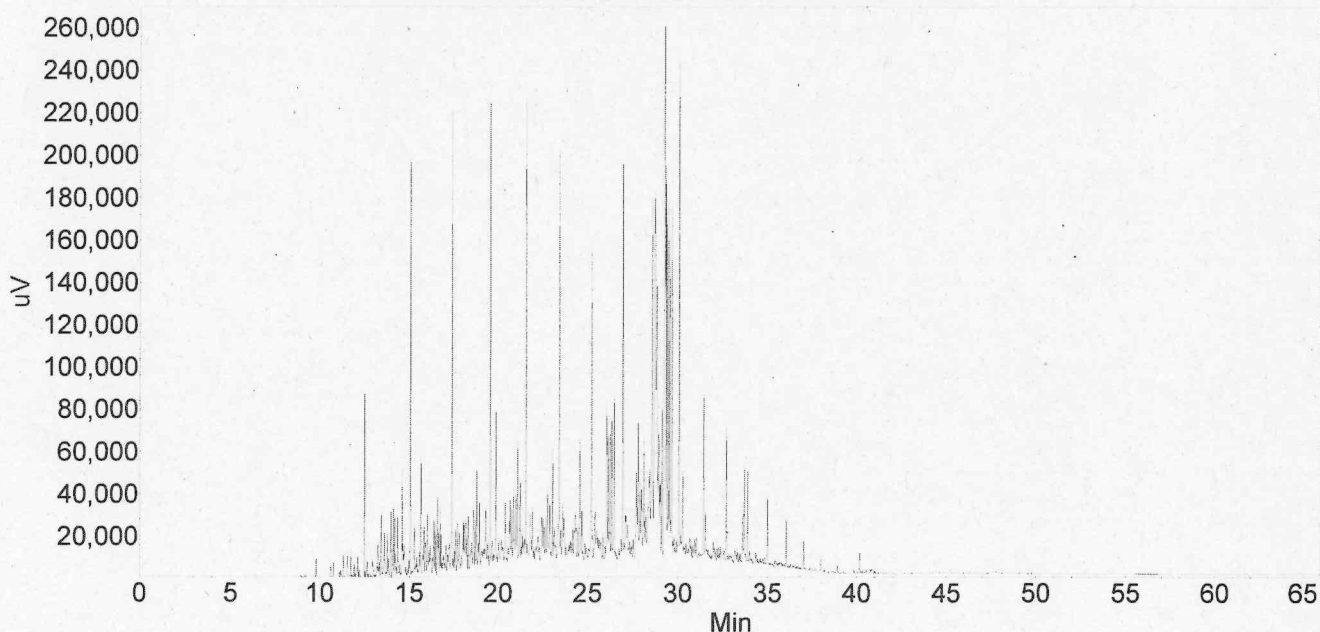
The age of diesel is calculated using methodology from Christensen and Larsen, 1993.

The sample needs to have the following characteristics for the age to be considered accurate:

1. The methodology can only be used for ageing diesel spills.
2. The sample must have >100mg/kg diesel.
3. The sample has to be collected from at least 1m below ground level.
4. The sample has to be collected from under a paved area.
5. The sample has to be collected from the unsaturated zone.
6. The sample needs to be from a discrete spill, not a prolonged or continuous spill.

In the event that all six criteria are not met, the age result has to be considered as indicative information only.

31178167 SDG-250307-66.DATA - FID





CERTIFICATE OF ANALYSIS

SDG: 250307-66
Client Ref: 25/4047

Report Number: 760490
Location: LHR042 Thorney Lane DC1

Superseded Report: 760447

Appendix

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.

General

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 Anthophyllite	-
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.



ALS Life Sciences Limited

Notification of NDPs (No determination possible)

SDG Number	250307-66	Location	LHR042 Thorney Lane DC1
Client	H_CONSIT_LON	Order No.	104947 (CL6740)
Client Reference	25/4047		
Attention	Gabriela Mandache	Date Received	07/03/2025 10:10:55

Sample No	Sample Identity	Depth (m)	Test	Comment
31178160	DRAINAGE 1A		TPH CWG (W)	Sample contains oil / product
31178166	DRAINAGE 1A		GRO by GC-FID (W)	Sample contains oil / product
31178166	DRAINAGE 1A		VOC MS (W)	Sample contains oil / product
31187992	DRAINAGE 1A		Ammoniacal Nitrogen	Sample contains oil / product
31188490	DRAINAGE 1A		Mercury Dissolved	Sample contains oil / product
31188493	DRAINAGE 1A		Dissolved Metals by ICP-MS	Sample contains oil / product
31188495	DRAINAGE 1A		Low Level Hexavalent Chromium (w)	Sample contains oil / product
31188496	DRAINAGE 1A		Anions by Kone (w)	Sample contains oil / product
31188537	DRAINAGE 1A		Total Metals by ICP-MS	Sample contains oil / product
31188560	DRAINAGE 1A		Dissolved Organic/Inorganic Carbon	Sample contains oil / product



Unit 7-8 Hawarden Business Park
Manor Road (off Manor Lane)
Hawarden
Deeside
CH5 3US

Tel: (01244) 528777
email: hawardencustomerservices@alsglobal.com
Website: www.alsenvironmental.co.uk

Concept Engineering Consultants Ltd
218 Northfields Road
London
W13 9SJ

Attention: Gabriela Mandache

CERTIFICATE OF ANALYSIS

Date of report Generation:	15 April 2025
Customer:	Concept Engineering Consultants Ltd
Sample Delivery Group (SDG):	250325-32
Your Reference:	25/4047
Location:	LHR042 Thorney Lane DC1
Report No:	762279
Order Number:	105207 (CL6826)

This report has been revised and directly supersedes 761995 in its entirety.

We received 7 samples on Tuesday March 25, 2025 and 7 of these samples were scheduled for analysis which was completed on Tuesday April 15, 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





CERTIFICATE OF ANALYSIS

Validated

SDG: 250325-32
Client Ref.: 25/4047

Report Number: 762279
Location: LHR042 Thorney Lane DC1

Superseded Report: 761995

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
31272225	BH25-03	EW1A		24/03/2025
31272228	BH25-05	EW1A		24/03/2025
31272234	DS25-04	EW1A		24/03/2025
31272229	DS25-07	EW1A		24/03/2025
31272231	DS25-08	EW1A		24/03/2025
31272232	DS25-09	EW1A		24/03/2025
31272233	DS25-10	EW1A		24/03/2025

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

SDG: 250325-32
Client Ref.: 25/4047

Report Number: 762279

Superseded Report: 761995

Location: LHR042 Thorney Lane DC1

Results Legend



Test



No Determination Possible

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)		Customer Sample Reference	AGS Reference	Depth (m)	Container	Sample Type	All	All
					0.5l glass bottle (ALE227)	GW		X
					Vial (ALE297)	GW		
					NaOH (ALE245)	GW		
					HNO3 Unfiltered (ALE204)	GW		
					HNO3 Filtered (ALE204)	GW		
					H2SO4 (ALE244)	GW		
					Digitube for PFAS analysis.	GW		
					500ml Plastic (ALE208)	GW		
					250ml Amber Gl. PTFE/PE (ALE219)	GW		
					0.5l glass bottle (ALE227)	GW		
					Vial (ALE297)	GW		
					NaOH (ALE245)	GW		
					HNO3 Unfiltered (ALE204)	GW		
					HNO3 Filtered (ALE204)	GW		
					H2SO4 (ALE244)	GW		
					Digitube for PFAS analysis.	GW		
					500ml Plastic (ALE208)	GW		
					250ml Amber Gl. PTFE/PE (ALE219)	GW		
					0.5l glass bottle (ALE227)	GW		
					Vial (ALE297)	GW		
					NaOH (ALE245)	GW		
					HNO3 Unfiltered (ALE204)	GW		
					HNO3 Filtered (ALE204)	GW		
					H2SO4 (ALE244)	GW		
					Digitube for PFAS analysis.	GW		
					500ml Plastic (ALE208)	GW		
					250ml Amber Gl. PTFE/PE (ALE219)	GW		
					0.5l glass bottle (ALE227)	GW		
					Vial (ALE297)	GW		
					NaOH (ALE245)	GW		
					HNO3 Unfiltered (ALE204)	GW		
					HNO3 Filtered (ALE204)	GW		
					H2SO4 (ALE244)	GW		
					Digitube for PFAS analysis.	GW		
					500ml Plastic (ALE208)	GW		
					250ml Amber Gl. PTFE/PE (ALE219)	GW		
					0.5l glass bottle (ALE227)	GW		
					Vial (ALE297)	GW		
					NaOH (ALE245)	GW		
					HNO3 Unfiltered (ALE204)	GW		
					HNO3 Filtered (ALE204)	GW		
					H2SO4 (ALE244)	GW		
					Digitube for PFAS analysis.	GW		
					500ml Plastic (ALE208)	GW		
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					HNO3 Unfiltered (ALE204)	GW		
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					H2SO4 (ALE244)	GW		
					Digitube for PFAS analysis.	GW		
					500ml Plastic (ALE208)	GW		
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					Vial (ALE297)	GW		
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					HNO3 Unfiltered (ALE204)	GW		
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					HNO3 Unfiltered (ALE204)	GW		
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					HNO3 Filtered (ALE204)	GW		
					H2SO4 (ALE244)	GW		
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					NaOH (ALE245)	GW		
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					HNO3 Filtered (ALE204)	GW		
					H2SO4 (ALE244)	GW		
					Digitube for PFAS analysis.	GW		
					500ml Plastic (ALE208)	GW		
					250ml Amber Gl. PTFE/PE (ALE219)	GW		
					0.5l glass bottle (ALE227)	GW		
					Vial (ALE297)	GW		
					NaOH (ALE245)	GW		
					HNO3 Unfiltered (ALE204)	GW		
					HNO3 Filtered (ALE204)	GW		
					H2SO4 (ALE244)	GW		
					Digitube for PFAS analysis.	GW		
					500ml Plastic (ALE208)	GW		
					250ml Amber Gl. PTFE/PE (ALE219)	GW		
					0.5l glass bottle (ALE227)	GW		
					Vial (ALE297)	GW		
					NaOH (ALE245)	GW		
					HNO3 Unfiltered (ALE204)	GW		
					HNO3 Filtered (ALE204)	GW		
					H2SO4 (ALE244)	GW		
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					Vial (ALE297)	GW		
					NaOH (ALE245)	GW		
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					0.5l glass bottle (ALE227)	GW		
					Vial (ALE297)	GW		
					NaOH (ALE245)	GW		
					HNO3 Unfiltered (ALE204)	GW		
					HNO3 Filtered (ALE204)	GW		
					H2SO4 (ALE244)	GW		
					Digitube for PFAS analysis.	GW		
					500ml Plastic (ALE208)	GW		
					250ml Amber Gl. PTFE/PE (ALE219)	GW		
					0.5l glass bottle (ALE227)	GW		
					Vial (ALE297)	GW		
					NaOH (ALE245)	GW		
					HNO3 Unfiltered (ALE204)	GW		
					HNO3 Filtered (ALE204)	GW		
					H2SO4 (ALE244)	GW		
					Digitube for PFAS analysis.	GW		
					500ml Plastic (ALE208)	GW		
					250ml Amber Gl. PTFE/PE (ALE219)	GW		
					0.5l glass bottle (ALE227)	GW		
					Vial (ALE297)	GW		
					NaOH (ALE245)	GW		
					HNO3 Unfiltered (ALE204)	GW		
					HNO3 Filtered (ALE204)	GW		
					H2SO4 (ALE244)	GW		
					Digitube for PFAS analysis.	GW		
					500ml Plastic (ALE208)	GW		
					250ml Amber Gl. PTFE/PE (ALE219)	GW		
					0.5l glass bottle (ALE227)	GW		
					Vial (ALE297)	GW		
					NaOH (ALE245)	GW		
					HNO3 Unfiltered (ALE204)	GW		
					HNO3 Filtered (ALE204)	GW		
					H2SO4 (ALE244)	GW		
					Digitube for PFAS analysis.	GW		
					500ml Plastic (ALE208)	GW		
					250ml Amber Gl. PTFE/PE (ALE219)	GW		
					0.5l glass bottle (ALE227)	GW		
					Vial (ALE297)	GW		
					NaOH (ALE245)	GW		
					HNO3 Unfiltered (ALE204)	GW		
					HNO3 Filtered (ALE204)	GW		
					H2SO4 (ALE244)	GW		
					Digitube for PFAS analysis.	GW		
					500ml Plastic (ALE208)	GW		
					250ml Amber Gl. PTFE/PE (ALE219)	GW		
					0.5l glass bottle (ALE227)	GW		
					Vial (ALE297)	GW		
					NaOH (ALE245)	GW		
					HNO3 Unfiltered (ALE204)	GW		
					HNO3 Filtered (ALE204)	GW		
					H2SO4 (ALE244)	GW		
					Digitube for PFAS analysis.	GW		
					500ml Plastic (ALE208)	GW		
					250ml Amber Gl. PTFE/PE (ALE219)	GW		
					0.5l glass bottle (ALE227)	GW		
					Vial (ALE297)	GW		
					NaOH (ALE245)	GW		
					HNO3 Unfiltered (ALE204)	GW		
					HNO3 Filtered (ALE204)	GW		
					H2SO4 (ALE244)	GW		
					Digitube for PFAS analysis.	GW		
					500ml Plastic (ALE208)	GW		
					250ml Amber Gl. PTFE/PE (ALE219)	GW		
					0.5l glass bottle (ALE227)	GW		
					Vial (ALE297)	GW		
					NaOH (ALE245)	GW		
					HNO3 Unfiltered (ALE204)	GW		
					HNO3 Filtered (ALE204)	GW		
					H2SO4 (ALE244)	GW		
					Digitube for PFAS analysis.</			

31272231	DS25-08	EW1A		Digitube fo PFAS analysis.	GW		
				500ml Plastic (ALE208)	GW		
				250ml Amber Gl. PTFE/PE (ALE219)	GW		
				0.5l glass bottle (ALE227)	GW	X	
				Vial (ALE297)	GW		X
				NaOH (ALE245)	GW		
				HNO3 Unfiltered (ALE204)	GW		
				HNO3 Filtered (ALE204)	GW		
				H2SO4 (ALE244)	GW		
				Digitube fo PFAS analysis.	GW		
31272229	DS25-07	EW1A		500ml Plastic (ALE208)	GW		
				250ml Amber Gl. PTFE/PE (ALE219)	GW		
				0.5l glass bottle (ALE227)	GW	X	
				Vial (ALE297)	GW		X
				NaOH (ALE245)	GW		
				HNO3 Unfiltered (ALE204)	GW		
				HNO3 Filtered (ALE204)	GW		
				H2SO4 (ALE244)	GW		
				Digitube fo PFAS analysis.	GW		
				500ml Plastic (ALE208)	GW		
31272234	DS25-04	EW1A		250ml Amber Gl. PTFE/PE (ALE219)	GW		
				0.5l glass bottle (ALE227)	GW	X	
				Vial (ALE297)	GW		X
				NaOH (ALE245)	GW		
				HNO3 Unfiltered (ALE204)	GW		
				HNO3 Filtered (ALE204)	GW		
				H2SO4 (ALE244)	GW		
				Digitube fo PFAS analysis.	GW		
				500ml Plastic (ALE208)	GW		
				250ml Amber Gl. PTFE/PE (ALE219)	GW		



Location: LHR042 Thorney Lane DC1

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CERTIFICATE OF ANALYSIS

Validated

SDG: 250325-32
Client Ref.: 25/4047

Report Number: 762279
Location: LHR042 Thorney Lane DC1

Superseded Report: 761995

Results Legend X Test N No Determination Possible 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)		31272231	31272232	31272233
	Customer Sample Reference		DS25-08	DS25-09	DS25-10
	AGS Reference		EW1A	EW1A	EW1A
	Depth (m)				
	Container		H2SO4 (ALE244) HNO3 Filtered (ALE204) HNO3 Unfiltered (ALE204) NaOH (ALE245) Vial (ALE297)	Digitube fo PFAS analysis. 500ml Plastic (ALE208) 250ml Amber Gl. PTFE/PE (ALE219) 0.5l glass bottle (ALE227)	Digitube fo PFAS analysis. 500ml Plastic (ALE208) 250ml Amber Gl. PTFE/PE (ALE219) 0.5l glass bottle (ALE227)
	Sample Type		GW	GW	GW
VOC MS (W)	All	NDPs: 0 Tests: 7	X	X	

31272233	DS25-10	EW1A		Vial (ALE297)	GW		X
				NaOH (ALE245)	GW		
				HNO3 Unfiltered (ALE204)	GW		
				HNO3 Filtered (ALE204)	GW		



CERTIFICATE OF ANALYSIS

Validated

SDG: 250325-32
Client Ref.: 25/4047

Report Number: 762279
Location: LHR042 Thorney Lane DC1

Superseded Report: 761995

Results Legend			Customer Sample Ref.		BH25-03	BH25-05	DS25-04	DS25-07	DS25-08	DS25-09
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)
M	mCERTS accredited.				24/03/2025	24/03/2025	24/03/2025	24/03/2025	24/03/2025	24/03/2025
aq	Aqueous / settled sample.				25/03/2025	25/03/2025	25/03/2025	25/03/2025	25/03/2025	25/03/2025
diss.filt	Dissolved / filtered sample.				250325-32	250325-32	250325-32	250325-32	250325-32	250325-32
tot.unfilt	Total / unfiltered sample.				31272225	31272228	31272234	31272229	31272231	31272232
Subcontracted - refer to subcontractor report for accreditation status.					EW1A	EW1A	EW1A	EW1A	EW1A	EW1A
** % 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								
Carbon, Organic (diss.filt)	<3 mg/l	TM090			11.9	36.5	15.4	20	11.4	6.12
Ammoniacal Nitrogen as N	<0.2 mg/l	TM099			0.797	148	5.01	6.37	5.01	0.29
Ammoniacal Nitrogen as NH3	<0.2 mg/l	TM099			0.968	180	6.09	7.74	6.08	0.352
Antimony (diss.filt)	<1 µg/l	TM152			<1	<1	1.84	<1	<1	<1
Arsenic (diss.filt)	<0.5 µg/l	TM152			7.7	29	13.9	13	7.7	1.12
Beryllium (diss.filt)	<0.1 µg/l	TM152			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (diss.filt)	<0.08 µg/l	TM152			<0.08	<0.08	<0.08	<0.08	<0.08	0.121
Chromium (diss.filt)	<1 µg/l	TM152			<1	<1	<1	<1	<1	<1
Copper (diss.filt)	<0.3 µg/l	TM152			<0.3	1.43	4.61	1.02	<0.3	2.27
Lead (diss.filt)	<0.2 µg/l	TM152			<0.2	0.419	2.47	<0.2	<0.2	0.253
Manganese (diss.filt)	<3 µg/l	TM152			3350	239	39.6	3.66	1710	316
Nickel (diss.filt)	<0.4 µg/l	TM152			27	28.7	4.35	9.34	14.2	7.61
Selenium (diss.filt)	<1 µg/l	TM152			<1	<1	<1	2.11	<1	<1
Vanadium (diss.filt)	<1 µg/l	TM152			<1	4.24	16.3	8.57	<1	<1
Zinc (diss.filt)	<1 µg/l	TM152			8.68	2.65	1.85	<1	1.12	2.65
Calcium (Dis.Filt)	<0.2 mg/l	TM152			168	5.76	40.4	47.1	38.8	36.2
Hardness, Total as CaCO3 unfiltered	<0.35 mg/l	TM152			484	19.8	114	119	107	98.4
Mercury (diss.filt)	<0.01 µg/l	TM183			<0.01	0.0708	<0.01	<0.01	<0.01	<0.01
Chloride	<2 mg/l	TM184			43.8	77.5	19.9	75.9	75.8	64
Cyanide, Total	<0.05 mg/l	TM227			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
pH	<1 pH Units	TM256			7.28	9.71	9.68	10.7	7.7	8
Phenol	<0.002 mg/l	TM259			<0.002	0.06	<0.002	0.06	<0.002	<0.002
Cresols	<0.006 mg/l	TM259			<0.006	0.04	<0.006	0.01	<0.006	<0.006
Xylenols	<0.008 mg/l	TM259			<0.008	0.04	<0.008	<0.008	<0.008	<0.008
Phenols, Total Detected monohydric	<0.016 mg/l	TM259			<0.016	0.14	<0.016	0.07	<0.016	<0.016
Low Level Hexavalent Chromium	<0.003 mg/l	TM331			<0.003	<0.006	<0.003	<0.003	<0.003	<0.003
PFBA (375-22-4)	<2 ng/l	TM434			<20	23.1	9.88	12.2	31.4	12.1
PFMOPra (377-73-1)	<1 ng/l	TM434			<10	<5	<1	<5	<1	<1
3:3 FTCA (356-02-5)	<2 ng/l	TM434			<20	<10	<2	<10	<2	<2
PFPA (2706-90-3)	<1 ng/l	TM434			44.3	84.4	27.6	34.7	80.7	8.26
PFMOBA (863090-89-5)	<1 ng/l	TM434			<10	<5	<1	<5	<1	<1
4:2 FTS (757124-72-4)	<1 ng/l	TM434			<10	<5	<1	<5	<1	<1
NFDHA (151772-58-6)	<3 ng/l	TM434			<30	<15	<3	<15	<3	<3



CERTIFICATE OF ANALYSIS

Validated

SDG: 250325-32
Client Ref.: 25/4047

Report Number: 762279
Location: LHR042 Thorney Lane DC1

Superseded Report: 761995

Results Legend			Customer Sample Ref.		BH25-03	BH25-05	DS25-04	DS25-07	DS25-08	DS25-09
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		Ground Water (GW) 24/03/2025	Ground Water (GW) 24/03/2025	Ground Water (GW) 24/03/2025	Ground Water (GW) 24/03/2025	Ground Water (GW) 24/03/2025	Ground Water (GW) 24/03/2025
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.					25/03/2025	25/03/2025	25/03/2025	25/03/2025	25/03/2025	25/03/2025
** % 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					250325-32	250325-32	250325-32	250325-32	250325-32	250325-32
*** 6:2 FTAB (see appendix)					31272225	31272228	31272234	31272229	31272231	31272232
1-4+@ Sample deviation (see appendix)					EW1A	EW1A	EW1A	EW1A	EW1A	EW1A
Component	LOD/Units	Method								
PFBS (375-73-5)	<1 ng/l	TM434			23.5	14.8	4.54	18.9	11.8	2.29
					#	#	#	#	#	#
PFHxA (307-24-4)	<1 ng/l	TM434			37.5	36.7	17.1	51.1	39.2	3.59
					#	#	#	#	#	#
HFPO-DA (13252-13-6)	<2 ng/l	TM434			<20	<10	<2	<10	<2	<2
					#	#	#	#	#	#
PFEESA (113507-82-7)	<1 ng/l	TM434			<10	<5	<1	<5	<1	<1
					#	#	#	#	#	#
PFHpA (375-85-9)	<1 ng/l	TM434			13.4	25.8	8.44	47.1	31.8	3.09
					#	#	#	#	#	#
PFPeS (2706-91-4)	<1 ng/l	TM434			<10	5.38	<1	14.7	5.26	<1
					#	#	#	#	#	#
5:3 FTCA (914637-49-3)	<5 ng/l	TM434			<50	<25	<5	<25	<5	<5
					#	#	#	#	#	#
ADONA (919005-14-4)	<1 ng/l	TM434			<10	<5	<1	<5	<1	<1
					#	#	#	#	#	#
6:2 FTS (27619-97-2)	<1 ng/l	TM434			<10	33.5	5.6	<5	5.66	2.29
					#	#	#	#	#	#
FBSA (30334-69-1)	<1 ng/l	TM434			<10	<5	1.36	<5	1.68	1.18
					#	#	#	#	#	#
PFOA (335-67-1)	<0.65 ng/l	TM434			34.9	55	20.3	91.5	50.2	6.87
					#	#	#	#	#	#
PFHxS (355-46-4)	<1 ng/l	TM434			78	16.1	5.58	43.1	20.5	7.08
					#	#	#	#	#	#
PFNA (375-95-1)	<1 ng/l	TM434			<10	<5	2.32	<5	2.36	1.11
					#	#	#	#	#	#
PFecHS (133201-07-7)	<1 ng/l	TM434			<10	<5	9.82	<5	<1	<1
					#	#	#	#	#	#
PFHpS (375-92-8)	<1 ng/l	TM434			<10	<5	<1	<5	<1	<1
					#	#	#	#	#	#
8:2 FTS (39108-34-4)	<2 ng/l	TM434			<20	<10	<2	<10	<2	<2
					#	#	#	#	#	#
HFPO-TA (13252-14-7)	<5 ng/l	TM434			<50	<25	<5	<25	<5	<5
					#	#	#	#	#	#
PFDA (335-76-2)	<2 ng/l	TM434			<20	<10	2.94	<10	<2	<2
					#	#	#	#	#	#
MeFOSAA (2355-31-9)	<2 ng/l	TM434			<20	<10	<2	<10	<2	<2
					◆ #	#	#	◆ #	#	#
7:3 FTCA (812-70-4)	<5 ng/l	TM434			<50	<25	<5	<25	<5	<5
					#	#	#	#	#	#
Linear PFOS (1763-23-1)	<0.65 ng/l	TM434			32.7	52.8	12.4	15.5	20.1	13.7
					#	#	#	#	#	#
Branched PFOS	<0.65 ng/l	TM434			29.6	34.3	7.6	14.8	13.8	7.82
					#	#	#	#	#	#
EtFOSAA (2991-50-6)	<2 ng/l	TM434			<20	<10	<2	<10	<2	<2
					◆ #	#	#	◆ #	#	#
PFUnA (2058-94-8)	<2 ng/l	TM434			<20	<10	<2	<10	<2	<2
					#	#	#	#	#	#
9Cl-PF3ONS (756426-58-1)	<1 ng/l	TM434			<10	<5	<1	<5	<1	<1
					#	#	#	#	#	#
PFNS (68259-12-1)	<1 ng/l	TM434			<10	<5	<1	<5	<1	<1
					#	#	#	#	#	#
FHxSA (41997-13-1)	<1 ng/l	TM434			<10	<5	<1	<5	1.13	1.09
					#	#	#	#	#	#
PFDoA (307-55-1)	<2 ng/l	TM434			<20	<10	<2	<10	<2	<2
					#	#	#	#	#	#
PFDS (335-77-3)	<2 ng/l	TM434			<20	<10	<2	<10	<2	<2
					#	#	#	#	#	#
PFTrDA (72629-94-8)	<3 ng/l	TM434			<30	<15	<3	<15	<3	<3
					#	#	#	#	#	#
11Cl-PF3OUdS (763051-92-9)	<2 ng/l	TM434			<20	<10	<2	<10	<2	<2
					#	#	#	#	#	#
PFUnDS (749786-16-1)	<2 ng/l	TM434			<20	<10	<2	<10	<2	<2
					#	#	#	#	#	#
PFTeA (376-06-7)	<1 ng/l	TM434			<10	<5	<1	<5	<1	<1
					#	#	#	#	#	#



CERTIFICATE OF ANALYSIS

Validated

SDG: 250325-32
Client Ref.: 25/4047

Report Number: 762279
Location: LHR042 Thorney Lane DC1

Superseded Report: 761995

Results Legend		Customer Sample Ref.	DS25-10			
# ISO17025 accredited. 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* \$@ Sample deviation (see appendix)		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	Ground Water (GW) 24/03/2025 25/03/2025 250325-32 31272233 EW1A			
Component	LOD/Units	Method				
Carbon, Organic (diss.filt)	<3 mg/l	TM090	13			
Ammoniacal Nitrogen as N	<0.2 mg/l	TM099	7.49	#		
Ammoniacal Nitrogen as NH3	<0.2 mg/l	TM099	9.09	#		
Antimony (diss.filt)	<1 µg/l	TM152	<1	#		
Arsenic (diss.filt)	<0.5 µg/l	TM152	23.1	#		
Beryllium (diss.filt)	<0.1 µg/l	TM152	<0.1	#		
Cadmium (diss.filt)	<0.08 µg/l	TM152	<0.08	#		
Chromium (diss.filt)	<1 µg/l	TM152	<1	#		
Copper (diss.filt)	<0.3 µg/l	TM152	<0.3	#		
Lead (diss.filt)	<0.2 µg/l	TM152	<0.2	#		
Manganese (diss.filt)	<3 µg/l	TM152	197	#		
Nickel (diss.filt)	<0.4 µg/l	TM152	32.8	#		
Selenium (diss.filt)	<1 µg/l	TM152	<1	#		
Vanadium (diss.filt)	<1 µg/l	TM152	1.48	#		
Zinc (diss.filt)	<1 µg/l	TM152	1.46	#		
Calcium (Dis.Filt)	<0.2 mg/l	TM152	37.3	#		
Hardness, Total as CaCO3 unfiltered	<0.35 mg/l	TM152	100			
Mercury (diss.filt)	<0.01 µg/l	TM183	0.0149	#		
Chloride	<2 mg/l	TM184	71.6	#		
Cyanide, Total	<0.05 mg/l	TM227	<0.05	#		
pH	<1 pH Units	TM256	8.92	#		
Phenol	<0.002 mg/l	TM259	<0.002	#		
Cresols	<0.006 mg/l	TM259	0.02	#		
Xylenols	<0.008 mg/l	TM259	0.02	#		
Phenols, Total Detected monohydric	<0.016 mg/l	TM259	0.04	#		
Low Level Hexavalent Chromium	<0.003 mg/l	TM331	<0.003	#		
PFBA (375-22-4)	<2 ng/l	TM434	27.1	#		
PFMOPra (377-73-1)	<1 ng/l	TM434	<1	#		
3:3 FTCA (356-02-5)	<2 ng/l	TM434	181	#		
PFPA (2706-90-3)	<1 ng/l	TM434	20.2	#		
PFMOBA (863090-89-5)	<1 ng/l	TM434	<1	#		
4:2 FTS (757124-72-4)	<1 ng/l	TM434	<1	#		
NFDHA (151772-58-6)	<3 ng/l	TM434	<3	#		



CERTIFICATE OF ANALYSIS

Validated

SDG: 250325-32
Client Ref.: 25/4047

Report Number: 762279
Location: LHR042 Thorney Lane DC1

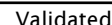
Superseded Report: 761995

Results Legend			Customer Sample Ref.	DS25-10				
# ISO17025 accredited.			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	Ground Water (GW) 24/03/2025 25/03/2025 250325-32 31272233 EW1A				
M mCERTS accredited.								
aq Aqueous / settled sample.								
diss.filt Dissolved / filtered sample.								
tot.unfiltTotal / 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						
PFBS (375-73-5)	<1 ng/l	TM434	39.6	#				
PFHxA (307-24-4)	<1 ng/l	TM434	9.48	#				
HFPO-DA (13252-13-6)	<2 ng/l	TM434	<2	#				
PFEESA (113507-82-7)	<1 ng/l	TM434	<1	#				
PFHpA (375-85-9)	<1 ng/l	TM434	8.75	#				
PFPeS (2706-91-4)	<1 ng/l	TM434	1.09	#				
5:3 FTCA (914637-49-3)	<5 ng/l	TM434	<5	#				
ADONA (919005-14-4)	<1 ng/l	TM434	<1	#				
6:2 FTS (27619-97-2)	<1 ng/l	TM434	<1	#				
FBSA (30334-69-1)	<1 ng/l	TM434	5.3	#				
PFOA (335-67-1)	<0.65 ng/l	TM434	12	#				
PFHxS (355-46-4)	<1 ng/l	TM434	11.9	#				
PFNA (375-95-1)	<1 ng/l	TM434	1.59	#				
PFecHS (133201-07-7)	<1 ng/l	TM434	<1	#				
PFHpS (375-92-8)	<1 ng/l	TM434	<1	#				
8:2 FTS (39108-34-4)	<2 ng/l	TM434	<2	#				
HFPO-TA (13252-14-7)	<5 ng/l	TM434	<5	#				
PFDA (335-76-2)	<2 ng/l	TM434	<2	#				
MeFOSAA (2355-31-9)	<2 ng/l	TM434	<2	#				
7:3 FTCA (812-70-4)	<5 ng/l	TM434	<5	#				
Linear PFOS (1763-23-1)	<0.65 ng/l	TM434	13.3	#				
Branched PFOS	<0.65 ng/l	TM434	16.3	#				
EtFOSAA (2991-50-6)	<2 ng/l	TM434	<2	#				
PFUnA (2058-94-8)	<2 ng/l	TM434	<2	#				
9CI-PF3ONS (756426-58-1)	<1 ng/l	TM434	<1	#				
PFNS (68259-12-1)	<1 ng/l	TM434	<1	#				
FHxSA (41997-13-1)	<1 ng/l	TM434	<1	#				
PFDoA (307-55-1)	<2 ng/l	TM434	<2	#				
PFDS (335-77-3)	<2 ng/l	TM434	<2	#				
PFTTrDA (72629-94-8)	<3 ng/l	TM434	<3	#				
11CI-PF3OUdS (763051-92-9)	<2 ng/l	TM434	<2	#				
PFUnDS (749786-16-1)	<2 ng/l	TM434	<2	#				
PFTeA (376-06-7)	<1 ng/l	TM434	<1	#				



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Location: LHR042 Thorney Lane DC1

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SVOC MS (W) - Aqueous

Results Legend		Customer Sample Ref.				
# ISO17025 accredited. 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*§@ Sample deviation (see appendix)		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	BH25-05 Ground Water (GW) 24/03/2025 25/03/2025 250325-32 31272228 EW1A			
Component	LOD/Units	Method				
1,2,4-Trichlorobenzene (aq)	<1 µg/l	TM176	<10	#		
1,2-Dichlorobenzene (aq)	<1 µg/l	TM176	<10	#		
1,3-Dichlorobenzene (aq)	<1 µg/l	TM176	<10	#		
1,4-Dichlorobenzene (aq)	<1 µg/l	TM176	<10	#		
2,4,5-Trichlorophenol (aq)	<1 µg/l	TM176	<10	#		
2,4,6-Trichlorophenol (aq)	<1 µg/l	TM176	<10	#		
2,4-Dichlorophenol (aq)	<1 µg/l	TM176	<10	#		
2,4-Dimethylphenol (aq)	<1 µg/l	TM176	<10	#		
2,4-Dinitrotoluene (aq)	<1 µg/l	TM176	<10	#		
2,6-Dinitrotoluene (aq)	<1 µg/l	TM176	<10	#		
2-Chloronaphthalene (aq)	<1 µg/l	TM176	<10	#		
2-Chlorophenol (aq)	<1 µg/l	TM176	<10	#		
2-Methylnaphthalene (aq)	<1 µg/l	TM176	<10	#		
2-Methylphenol (aq)	<1 µg/l	TM176	<10	#		
2-Nitroaniline (aq)	<1 µg/l	TM176	<10	#		
2-Nitrophenol (aq)	<1 µg/l	TM176	<10	#		
3-Nitroaniline (aq)	<1 µg/l	TM176	<10	#		
4-Bromophenylphenylether (aq)	<1 µg/l	TM176	<10	#		
4-Chloro-3-methylphenol (aq)	<1 µg/l	TM176	<10	#		
4-Chloroaniline (aq)	<1 µg/l	TM176	<10	#		
4-Chlorophenylphenylether (aq)	<1 µg/l	TM176	<10	#		
4-Methylphenol (aq)	<1 µg/l	TM176	<10	#		
4-Nitroaniline (aq)	<1 µg/l	TM176	<10	#		
4-Nitrophenol (aq)	<1 µg/l	TM176	<10	#		
Azobenzene (aq)	<1 µg/l	TM176	<10	#		
Acenaphthylene (aq)	<1 µg/l	TM176	<10	#		
Acenaphthene (aq)	<1 µg/l	TM176	<10	#		
Anthracene (aq)	<1 µg/l	TM176	<10	#		
bis(2-Chloroethyl)ether (aq)	<1 µg/l	TM176	<10	#		
bis(2-Chloroethoxy)methane (aq)	<1 µg/l	TM176	<10	#		
bis(2-Ethylhexyl) phthalate (aq)	<2 µg/l	TM176	<20	#		
Butylbenzyl phthalate (aq)	<1 µg/l	TM176	<10	#		
Benzo(a)anthracene (aq)	<1 µg/l	TM176	<10	#		



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SVOC MS (W) - Aqueous

Results Legend		Customer Sample Ref.	BH25-05				
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	Ground Water (GW) 24/03/2025 25/03/2025 250325-32 31272228 EW1A				
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*§@ Sample deviation (see appendix)							
Component	LOD/Units	Method					
Benzo(b)fluoranthene (aq)	<1 µg/l	TM176	<10	#			
Benzo(k)fluoranthene (aq)	<1 µg/l	TM176	<10	#			
Benzo(a)pyrene (aq)	<1 µg/l	TM176	<10	#			
Benzo(g,h,i)perylene (aq)	<1 µg/l	TM176	<10	#			
Carbazole (aq)	<1 µg/l	TM176	<10	#			
Chrysene (aq)	<1 µg/l	TM176	<10	#			
Dibenzofuran (aq)	<1 µg/l	TM176	<10	#			
n-Dibutyl phthalate (aq)	<1 µg/l	TM176	<10	#			
Diethyl phthalate (aq)	<1 µg/l	TM176	<10	#			
Dibenzo(a,h)anthracene (aq)	<1 µg/l	TM176	<10	#			
Dimethyl phthalate (aq)	<1 µg/l	TM176	<10	#			
n-Dioctyl phthalate (aq)	<5 µg/l	TM176	<50	#			
Fluoranthene (aq)	<1 µg/l	TM176	<10	#			
Fluorene (aq)	<1 µg/l	TM176	<10	#			
Hexachlorobenzene (aq)	<1 µg/l	TM176	<10	#			
Hexachlorobutadiene (aq)	<1 µg/l	TM176	<10	#			
Pentachlorophenol (aq)	<1 µg/l	TM176	<10				
Phenol (aq)	<1 µg/l	TM176	<10				
n-Nitroso-n-dipropylamine (aq)	<1 µg/l	TM176	<10	#			
Hexachloroethane (aq)	<1 µg/l	TM176	<10	#			
Nitrobenzene (aq)	<1 µg/l	TM176	<10	#			
Naphthalene (aq)	<1 µg/l	TM176	<10	#			
Isophorone (aq)	<1 µg/l	TM176	<10	#			
Hexachlorocyclopentadiene (aq)	<1 µg/l	TM176	<10				
Phenanthrene (aq)	<1 µg/l	TM176	<10	#			
Indeno(1,2,3-cd)pyrene (aq)	<1 µg/l	TM176	<10	#			
Pyrene (aq)	<1 µg/l	TM176	<10	#			



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Superseded Report: 761995

VOC MS (W)

Results Legend			Customer Sample Ref.		BH25-03	BH25-05	DS25-04	DS25-07	DS25-08	DS25-09
# ISO17025 accredited. 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*§@ Sample deviation (see appendix)			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		Ground Water (GW) 24/03/2025	Ground Water (GW) 24/03/2025	Ground Water (GW) 24/03/2025	Ground Water (GW) 24/03/2025	Ground Water (GW) 24/03/2025	Ground Water (GW) 24/03/2025
Component	LOD/Units	Method								
Dibromofluoromethane**	%	TM208				99.5				
Toluene-d8**	%	TM208			99.3	98.7	99.1	98.4	98.7	99.2
4-Bromofluorobenzene**	%	TM208				93.8				
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	#	<1	#	<1	#	<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	#	1.55	#	<1	#	<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	#	2.85	#	<1	2.23	<1	<1
trans-1,3-Dichloropropene	<1 µg/l	TM208		#	<1	#				
1,1,2-Trichloroethane	<1 µg/l	TM208		#	<1	#				
1,3-Dichloropropane	<1 µg/l	TM208		#	<1	#				



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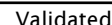
Report Number: 762279

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Superseded Report: 761995

VOC MS (W)

Results Legend			Customer Sample Ref.		BH25-03	BH25-05	DS25-04	DS25-07	DS25-08	DS25-09
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)
m	mCERTS accredited.				24/03/2025	24/03/2025	24/03/2025	24/03/2025	24/03/2025	24/03/2025
aq	Aqueous / settled sample.									
diss.filt	Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.					25/03/2025	25/03/2025	25/03/2025	25/03/2025	25/03/2025	25/03/2025
** % 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					250325-32	250325-32	250325-32	250325-32	250325-32	250325-32
*** 6:2 FTAB (see appendix)					31272225	31272228	31272234	31272229	31272231	31272232
1-4* Sample deviation (see appendix)					EW1A	EW1A	EW1A	EW1A	EW1A	EW1A
Component	LOD/Units	Method								
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				2.3				
						#				
1,1,1,2-Tetrachloroethane	<1 µg/l	TM208				<1				
						#				
Ethylbenzene	<1 µg/l	TM208			<1	<1	<1	<1	<1	<1
					#	#	#	#	#	#
m,p-Xylene	<1 µg/l	TM208			<1	1.01	<1	<1	<1	<1
					#	#	#	#	#	#
o-Xylene	<1 µg/l	TM208			<1	<1	<1	<1	<1	<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				2.88				
						#				
1,3-Dichlorobenzene	<1 µg/l	TM208				<1				
						#				
1,4-Dichlorobenzene	<1 µg/l	TM208				2.04				
						#				
n-Butylbenzene	<1 µg/l	TM208				<1				
						#				
1,2-Dichlorobenzene	<1 µg/l	TM208				7.47				
						#				
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				
						#				
1,2,3-Trichlorobenzene	<1 µg/l	TM208				<1				
						#				
1,3,5-Trichlorobenzene	<1 µg/l	TM208				<1				
						#				



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Table of Results - Appendix

Method No	Description
TM152	Analysis of Aqueous Samples by ICP-MS
TM208	Determination of Volatile Organic Compounds by Headspace / GC-MS in Waters
TM227	Determination of Total Cyanide, Free (Easily Liberatable) Cyanide and Thiocyanate
TM256	Determination of pH, EC, TDS and Alkalinity in Aqueous samples
TM090	Determination of Total Organic Carbon/Total Inorganic Carbon in Water and Waste Water
TM099	Determination of Ammonium in Water Samples using the Kone Analyser
TM176	Determination of SVOCs in Water by GCMS
TM259	Determination of Phenols in Waters and Leachates by HPLC
TM183	Determination of Trace Level Mercury in Waters and Leachates by PSA Cold Vapour Atomic Fluorescence Spectrometry
TM184	The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers
TM245	Determination of GRO by Headspace in waters
TM434	Analysis of PFAS
TM178	Determination of Polynuclear Aromatic Hydrocarbons (PAH) by GC-MS in Waters
TM331	Low Level Hexavalent Chromium
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).



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Test Completion Dates

Lab Sample No(s)
Customer Sample Ref.

AGS Ref.
Depth
Type

	31272225	31272228	31272234	31272229	31272231	31272232	31272233
	BH25-03	BH25-05	DS25-04	DS25-07	DS25-08	DS25-09	DS25-10
	EW1A	EW1A	EW1A	EW1A	EW1A	EW1A	EW1A
	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
Ammoniacal Nitrogen	27-Mar-2025	28-Mar-2025	27-Mar-2025	27-Mar-2025	27-Mar-2025	27-Mar-2025	27-Mar-2025
Anions by Kone (w)	01-Apr-2025	01-Apr-2025	30-Mar-2025	01-Apr-2025	01-Apr-2025	01-Apr-2025	01-Apr-2025
Cyanide Comp/Free/Total/Thiocyanate	28-Mar-2025	28-Mar-2025	28-Mar-2025	28-Mar-2025	28-Mar-2025	28-Mar-2025	28-Mar-2025
Dissolved Metals by ICP-MS	31-Mar-2025	31-Mar-2025	31-Mar-2025	31-Mar-2025	31-Mar-2025	31-Mar-2025	31-Mar-2025
Dissolved Organic/Inorganic Carbon	26-Mar-2025	26-Mar-2025	28-Mar-2025	27-Mar-2025	26-Mar-2025	27-Mar-2025	28-Mar-2025
EPH and CWG by FID	31-Mar-2025	28-Mar-2025	29-Mar-2025	28-Mar-2025	28-Mar-2025	29-Mar-2025	29-Mar-2025
GRO by GC-FID (W)	01-Apr-2025	01-Apr-2025	01-Apr-2025	01-Apr-2025	29-Mar-2025	29-Mar-2025	29-Mar-2025
Low Level Hexavalent Chromium (w)	31-Mar-2025	31-Mar-2025	31-Mar-2025	31-Mar-2025	31-Mar-2025	31-Mar-2025	31-Mar-2025
Mercury Dissolved	31-Mar-2025	31-Mar-2025	31-Mar-2025	31-Mar-2025	31-Mar-2025	31-Mar-2025	31-Mar-2025
PAH Spec MS - Aqueous (W)	31-Mar-2025	31-Mar-2025	31-Mar-2025	31-Mar-2025	31-Mar-2025	31-Mar-2025	31-Mar-2025
PFAS Liquids (Full Suite)	15-Apr-2025	08-Apr-2025	08-Apr-2025	11-Apr-2025	08-Apr-2025	08-Apr-2025	08-Apr-2025
pH Value	31-Mar-2025	31-Mar-2025	31-Mar-2025	31-Mar-2025	31-Mar-2025	31-Mar-2025	31-Mar-2025
Phenols by HPLC (W)	28-Mar-2025	31-Mar-2025	31-Mar-2025	31-Mar-2025	28-Mar-2025	28-Mar-2025	31-Mar-2025
SVOC MS (W) - Aqueous		02-Apr-2025					
Total Metals by ICP-MS	28-Mar-2025	28-Mar-2025	28-Mar-2025	28-Mar-2025	28-Mar-2025	28-Mar-2025	28-Mar-2025
TPH CWG (W)	01-Apr-2025	01-Apr-2025	01-Apr-2025	01-Apr-2025	29-Mar-2025	29-Mar-2025	29-Mar-2025
VOC MS (W)	01-Apr-2025	01-Apr-2025	01-Apr-2025	01-Apr-2025	29-Mar-2025	29-Mar-2025	29-Mar-2025



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Appendix

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.

General

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 Anthophyllite	-
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.



Unit 7-8 Hawarden Business Park
Manor Road (off Manor Lane)
Hawarden
Deeside
CH5 3US

Tel: (01244) 528777
email: hawardencustomerservices@alsglobal.com
Website: www.alsenvironmental.co.uk

Concept Engineering Consultants Ltd
218 Northfields Road
London
W13 9SJ

Attention: Gabriela Mandache

CERTIFICATE OF ANALYSIS

Date of report Generation:	16 April 2025
Customer:	Concept Engineering Consultants Ltd
Sample Delivery Group (SDG):	250327-72
Your Reference:	25/4047
Location:	LHR042 Thorney Lane DC1
Report No:	762369
Order Number:	105233 (CL6833)

We received 8 samples on Thursday March 27, 2025 and 8 of these samples were scheduled for analysis which was completed on Wednesday April 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





CERTIFICATE OF ANALYSIS

Validated

SDG: 250327-72
Client Ref.: 25/4047

Report Number: 762369
Location: LHR042 Thorney Lane DC1

Superseded Report:

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
31286621	BH25-02	EW1A		25/03/2025
31286625	BH25-04	EW1A		25/03/2025
31286622	BH25-10	EW1A		25/03/2025
31286624	BH25-11	EW1A		25/03/2025
31286620	CP105	EW1A		25/03/2025
31286618	DS25-02	EW1A		25/03/2025
31286617	DS25-05	EW1A		25/03/2025
31286619	DS25-06	EW1A		25/03/2025

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



CERTIFICATE OF ANALYSIS

Validated

SDG: 250327-72
Client Ref.: 25/4047

Report Number: 762369
Location: LHR042 Thorney Lane DC1

Superseded Report:

Results Legend X Test N No Determination Possible 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)																													
	Customer Sample Reference																													
	AGS Reference																													
	Depth (m)																													
	Container		0.5l glass bottle (ALE227) Vial (ALE297) NaOH (ALE245) HNO3 Unfiltered (ALE204) HNO3 Filtered (ALE204) H2SO4 (ALE244) Digitube fo PFAS analysis. 500ml Plastic (ALE208) 250ml Amber Gl. PTFE/PE (ALE219) 0.5l glass bottle (ALE227) Vial (ALE297) NaOH (ALE245) HNO3 Unfiltered (ALE204) HNO3 Filtered (ALE204) H2SO4 (ALE244) Digitube fo PFAS analysis. 500ml Plastic (ALE208) 250ml Amber Gl. PTFE/PE (ALE219) 0.5l glass bottle (ALE227) Vial (ALE297) NaOH (ALE245) HNO3 Unfiltered (ALE204) HNO3 Filtered (ALE204) H2SO4 (ALE244) Digitube fo PFAS analysis. 500ml Plastic (ALE208) 250ml Amber Gl. PTFE/PE (ALE219) 0.5l glass bottle (ALE227) Vial (ALE297) NaOH (ALE245) HNO3 Unfiltered (ALE204) HNO3 Filtered (ALE204) H2SO4 (ALE244) Digitube fo PFAS analysis. 500ml Plastic (ALE208) 250ml Amber Gl. PTFE/PE (ALE219) 0.5l glass bottle (ALE227) Vial (ALE297) NaOH (ALE245) HNO3 Unfiltered (ALE204) HNO3 Filtered (ALE204) H2SO4 (ALE244) Digitube fo PFAS analysis. 500ml Plastic (ALE208) 250ml Amber Gl. 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SDG: 250327-72
Client Ref.: 25/4047

Report Number: 762369

Superseded Report:

Location: LHR042 Thorney Lane DC1

Results Legend



Test



No Determination Possible

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

[illegible]

31286620	CPI05	EW1A		Digitube fo PFAS analysis.	GW		
				500ml Plastic (ALE208)	GW		
				250ml Amber Gl. PTFE/PE (ALE219)	GW		
				0.5l glass bottle (ALE227)	GW	X	
				Vial (ALE297)	GW		X
				NaOH (ALE245)	GW		
				HNO3 Unfiltered (ALE204)	GW		
				HNO3 Filtered (ALE204)	GW		
				H2SO4 (ALE244)	GW		
				Digitube fo PFAS analysis.	GW		
31286622	BH25-10	EW1A		500ml Plastic (ALE208)	GW		
				250ml Amber Gl. PTFE/PE (ALE219)	GW		
				0.5l glass bottle (ALE227)	GW	X	
				Vial (ALE297)	GW		X
				NaOH (ALE245)	GW		
				HNO3 Unfiltered (ALE204)	GW		
				HNO3 Filtered (ALE204)	GW		
				H2SO4 (ALE244)	GW		
				Digitube fo PFAS analysis.	GW		
				500ml Plastic (ALE208)	GW		



CERTIFICATE OF ANALYSIS

Validated

SDG: 250327-72
Client Ref.: 25/4047

Report Number: 762369
Location: LHR042 Thorney Lane DC1

Superseded Report:

Results Legend X Test N No Determination Possible 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)		31286620		31286618		31286617	
	Customer Sample Reference		CPI05		DS25-02		DS25-05	
	AGS Reference		EW1A		EW1A		EW1A	
	Depth (m)							
	Container		H2SO4 (ALE244)	Digitube to PFAS analysis.	500ml Plastic (ALE208)	250ml Amber Gl. PTFE/PE (ALE219)	0.5l glass bottle (ALE227)	Vial (ALE297)
	Sample Type		NaOH (ALE245)	HNO3 Unfiltered (ALE204)	HNO3 Filtered (ALE204)	H2SO4 (ALE244)	Digitube to PFAS analysis.	500ml Plastic (ALE208)
			250ml Amber Gl. PTFE/PE (ALE219)	0.5l glass bottle (ALE227)	Vial (ALE297)	NaOH (ALE245)	HNO3 Unfiltered (ALE204)	HNO3 Filtered (ALE204)
			GW	GW	GW	GW	GW	GW
Ammoniacal Nitrogen	All	NDPs: 0 Tests: 8	X					
Anions by Kone (w)	All	NDPs: 0 Tests: 8						
Cyanide Comp/Free/Total/Thiocyanate	All	NDPs: 0 Tests: 8						
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 8						
Dissolved Organic/Inorganic Carbon	All	NDPs: 0 Tests: 8						
EPH and CWG by FID	All	NDPs: 0 Tests: 8						
GRO by GC-FID (W)	All	NDPs: 0 Tests: 8						
Low Level Hexavalent Chromium (w)	All	NDPs: 0 Tests: 8						
Mercury Dissolved	All	NDPs: 0 Tests: 8						
PAH Spec MS - Aqueous (W)	All	NDPs: 0 Tests: 8						
PFAS Liquids (Full Suite)	All	NDPs: 0 Tests: 8						
pH Value	All	NDPs: 0 Tests: 8						
Phenols by HPLC (W)	All	NDPs: 0 Tests: 8						
Total Metals by ICP-MS	All	NDPs: 0 Tests: 8						
TPH CWG (W)	All	NDPs: 0 Tests: 8						



CERTIFICATE OF ANALYSIS

Validated

SDG: 250327-72
Client Ref.: 25/4047

Report Number: 762369
Location: LHR042 Thorney Lane DC1

Superseded Report:

Results Legend



Test



No Determination Possible

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

VOC MS (W)

Lab Sample No(s)

Customer
Sample Reference

AGS Reference

Depth (m)

Container

Sample Type

31286620

CP105

EW1A

Vial (ALE297)
NaOH (ALE245)
HNO3 Unfiltered (ALE204)
HNO3 Filtered (ALE204)
H2SO4 (ALE244)

GW

X

31286618

DS25-02

EW1A

Vial (ALE297)
NaOH (ALE245)
HNO3 Unfiltered (ALE204)
HNO3 Filtered (ALE204)
H2SO4 (ALE244)

GW

X

31286617

DS25-05

EW1A

H2SO4 (ALE244)
Digitube for PFAS analysis.
500ml Plastic (ALE208)
250ml Amber GL. PTFE/PE (ALE219)
0.5l glass bottle (ALE227)
Vial (ALE297)
NaOH (ALE245)
HNO3 Unfiltered (ALE204)
HNO3 Filtered (ALE204)
H2SO4 (ALE244)

GW

GW

All

NDPs: 0
Tests: 8

31286619	DS25-06	EW1A		Vial (ALE297)	GW		X
				NaOH (ALE245)	GW		
				HNO3 Unfiltered (ALE204)	GW		
				HNO3 Filtered (ALE204)	GW		
				H2SO4 (ALE244)	GW		
				Digitube fo PFAS analysis.	GW		
				500ml Plastic (ALE208)	GW		
				250ml Amber Cl. PTFE/PE (ALE219)	GW		
				0.5l glass bottle (ALE227)	GW		
				Vial (ALE297)	GW		X
31286617	DS25-05	EW1A		NaOH (ALE245)	GW		
				HNO3 Unfiltered (ALE204)	GW		
				HNO3 Filtered (ALE204)	GW		



CERTIFICATE OF ANALYSIS

Validated

SDG: 250327-72
Client Ref.: 25/4047

Report Number: 762369
Location: LHR042 Thorney Lane DC1

Superseded Report:

Results Legend			Customer Sample Ref.		BH25-02	BH25-04	BH25-10	BH25-11	CP105	DS25-02
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)
M	mCERTS accredited.				25/03/2025	25/03/2025	25/03/2025	25/03/2025	25/03/2025	25/03/2025
aq	Aqueous / settled sample.				27/03/2025	27/03/2025	27/03/2025	27/03/2025	27/03/2025	27/03/2025
diss.filt	Dissolved / filtered sample.				250327-72	250327-72	250327-72	250327-72	250327-72	250327-72
tot.unfilt	Total / unfiltered sample.				31286621	31286625	31286622	31286624	31286620	31286618
* Subcontracted - refer to subcontractor report for accreditation status.					EW1A	EW1A	EW1A	EW1A	EW1A	EW1A
** % 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								
Carbon, Organic (diss.filt)	<3 mg/l	TM090			11.2	8.73	10.4	<3	7.4	6.3
Ammoniacal Nitrogen as N	<0.2 mg/l	TM099			2.09	<0.2	1.97	<0.2	2.78	<0.2
Ammoniacal Nitrogen as NH3	<0.2 mg/l	TM099			#	#	#	#	#	#
Antimony (diss.filt)	<1 µg/l	TM152			2.54	<0.2	2.39	<0.2	3.38	<0.2
Arsenic (diss.filt)	<0.5 µg/l	TM152			#	#	#	#	#	#
Beryllium (diss.filt)	<0.1 µg/l	TM152			<1	<1	<1	<1	<1	1.33
Cadmium (diss.filt)	<0.08 µg/l	TM152			#	#	#	#	#	#
Chromium (diss.filt)	<1 µg/l	TM152			10.1	0.7	10.2	<0.5	3.16	7.38
Copper (diss.filt)	<0.3 µg/l	TM152			#	#	#	#	#	#
Lead (diss.filt)	<0.2 µg/l	TM152			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Manganese (diss.filt)	<3 µg/l	TM152			#	#	#	#	#	#
Nickel (diss.filt)	<0.4 µg/l	TM152			<0.08	0.141	<0.08	<0.08	<0.08	<0.08
Selenium (diss.filt)	<1 µg/l	TM152			#	#	#	#	#	#
Vanadium (diss.filt)	<1 µg/l	TM152			<1	<1	<1	<1	<1	<1
Zinc (diss.filt)	<1 µg/l	TM152			#	#	#	#	#	#
Calcium (Dis.Filt)	<0.2 mg/l	TM152			40.5	2840	50.9	<3	870	<3
Hardness, Total as CaCO3 unfiltered	<0.35 mg/l	TM152			#	#	#	#	#	#
Mercury (diss.filt)	<0.01 µg/l	TM183			4.34	7.73	4.39	<0.4	5.62	1.64
Chloride	<2 mg/l	TM184			#	#	#	#	#	#
Cyanide, Total	<0.05 mg/l	TM227			<1	<1	<1	<1	<1	1.71
pH	<1 pH Units	TM256			#	#	#	#	#	#
Phenol	<0.002 mg/l	TM259			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Cresols	<0.006 mg/l	TM259			9.06	7.12	9.09	7.98	7.96	9.23
Xylenols	<0.008 mg/l	TM259			#	#	#	#	#	#
Phenols, Total Detected monohydric	<0.016 mg/l	TM259			<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Low Level Hexavalent Chromium	<0.003 mg/l	TM331			#	#	#	#	#	#
PFBA (375-22-4)	<2 ng/l	TM434			<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
PFMOPra (377-73-1)	<1 ng/l	TM434			#	#	#	#	#	#
3:3 FTCA (356-02-5)	<2 ng/l	TM434			<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
PFPA (2706-90-3)	<1 ng/l	TM434			#	#	#	#	#	#
PFMOBA (863090-89-5)	<1 ng/l	TM434			6.41	177	20.8	<1	71	23.3
4:2 FTS (757124-72-4)	<1 ng/l	TM434			#	#	#	#	#	#
NFDHA (151772-58-6)	<3 ng/l	TM434			<5	<1	<5	<1	<1	<1
					#	#	#	#	#	#



CERTIFICATE OF ANALYSIS

Validated

SDG: 250327-72
Client Ref.: 25/4047

Report Number: 762369
Location: LHR042 Thorney Lane DC1

Superseded Report:

Results Legend			Customer Sample Ref.		BH25-02	BH25-04	BH25-10	BH25-11	CP105	DS25-02
# ISO17025 accredited. 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+@ Sample deviation (see appendix)			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		Ground Water (GW) 25/03/2025 27/03/2025 250327-72 31286621 EW1A	Ground Water (GW) 25/03/2025 27/03/2025 250327-72 31286625 EW1A	Ground Water (GW) 25/03/2025 27/03/2025 250327-72 31286622 EW1A	Ground Water (GW) 25/03/2025 27/03/2025 250327-72 31286624 EW1A	Ground Water (GW) 25/03/2025 27/03/2025 250327-72 31286620 EW1A	Ground Water (GW) 25/03/2025 27/03/2025 250327-72 31286618 EW1A
Component	LOD/Units	Method								
PFBS (375-73-5)	<1 ng/l	TM434			5.69 #	88.5 #	<5 #	<1 #	10.7 #	5.96 #
PFHxA (307-24-4)	<1 ng/l	TM434			15.3 #	229 #	12.8 #	<1 #	46.6 #	15.7 #
HFPO-DA (13252-13-6)	<2 ng/l	TM434			<10 #	<2 #	<10 #	<2 #	<2 #	<2 #
PFEESA (113507-82-7)	<1 ng/l	TM434			<5 #	<1 #	<5 #	<1 #	<1 #	<1 #
PFHpA (375-85-9)	<1 ng/l	TM434			8.08 #	280 #	6.23 #	<1 #	43.3 #	12.9 #
PFPeS (2706-91-4)	<1 ng/l	TM434			<5 #	75.7 #	<5 #	<1 #	6.63 #	<1 #
5:3 FTCA (914637-49-3)	<5 ng/l	TM434			<25 #	<5 #	<25 #	<5 #	<5 #	<5 #
ADONA (919005-14-4)	<1 ng/l	TM434			<5 #	<1 #	<5 #	<1 #	<1 #	<1 #
6:2 FTS (27619-97-2)	<1 ng/l	TM434			<5 #	<1 #	<5 #	<1 #	37.1 #	<1 #
FBSA (30334-69-1)	<1 ng/l	TM434			<5 #	1.37 #	<5 #	<1 #	<1 #	1.45 #
PFOA (335-67-1)	<0.65 ng/l	TM434			20.6 #	321 #	19.6 #	<0.65 #	85 #	24.9 #
PFHxS (355-46-4)	<1 ng/l	TM434			<5 #	189 #	<5 #	<1 #	29.6 #	3.84 #
PFNA (375-95-1)	<1 ng/l	TM434			<5 #	1.69 #	<5 #	<1 #	2.08 #	3.19 #
PFecHS (133201-07-7)	<1 ng/l	TM434			<5 #	9.97 #	<5 #	<1 #	2.08 #	2.29 #
PFHpS (375-92-8)	<1 ng/l	TM434			<5 #	<1 #	<5 #	<1 #	<1 #	<1 #
8:2 FTS (39108-34-4)	<2 ng/l	TM434			<10 #	<2 #	<10 #	<2 #	4.66 #	<2 #
HFPO-TA (13252-14-7)	<5 ng/l	TM434			<25 #	<5 #	<25 #	<5 #	<5 #	<5 #
PFDA (335-76-2)	<2 ng/l	TM434			<10 #	<2 #	<10 #	<2 #	<2 #	2.31 #
MeFOSAA (2355-31-9)	<2 ng/l	TM434			<10 ◆ #	<2 ◆ #	<10 ◆ #	<2 ◆ #	<2 ◆ #	<2 ◆ #
7:3 FTCA (812-70-4)	<5 ng/l	TM434			<25 #	<5 #	<25 #	<5 #	<5 #	<5 #
Linear PFOS (1763-23-1)	<0.65 ng/l	TM434			16.9 #	10.6 #	29.6 #	<0.65 #	9.03 #	9.11 #
Branched PFOS	<0.65 ng/l	TM434			12.5 #	12.6 #	17.7 #	<0.65 #	7.77 #	6.19 #
EtFOSAA (2991-50-6)	<2 ng/l	TM434			<10 ◆ #	<2 ◆ #	<10 ◆ #	<2 ◆ #	<2 ◆ #	<2 ◆ #
PFUnA (2058-94-8)	<2 ng/l	TM434			<10 #	<2 #	<10 #	<2 #	<2 #	<2 #
9CI-PF3ONS (756426-58-1)	<1 ng/l	TM434			<5 #	<1 #	<5 #	<1 #	<1 #	<1 #
PFNS (68259-12-1)	<1 ng/l	TM434			<5 #	<1 #	<5 #	<1 #	<1 #	<1 #
FHxSA (41997-13-1)	<1 ng/l	TM434			<5 #	<1 #	<5 #	<1 #	<1 #	<1 #
PFDoA (307-55-1)	<2 ng/l	TM434			<10 #	<2 #	<10 #	<2 #	<2 #	<2 #
PFDS (335-77-3)	<2 ng/l	TM434			<10 #	<2 #	<10 #	<2 #	<2 #	<2 #
PFTrDA (72629-94-8)	<3 ng/l	TM434			<15 #	<3 #	<15 #	<3 #	<3 #	<3 #
11CI-PF3OUdS (763051-92-9)	<2 ng/l	TM434			<10 #	<2 #	<10 #	<2 #	<2 #	<2 #
PFUnDS (749786-16-1)	<2 ng/l	TM434			<10 #	<2 #	<10 #	<2 #	<2 #	<2 #
PFTeA (376-06-7)	<1 ng/l	TM434			<5 #	<1 #	<5 #	<1 #	<1 #	<1 #



CERTIFICATE OF ANALYSIS

Validated

SDG: 250327-72
Client Ref.: 25/4047

Report Number: 762369
Location: LHR042 Thorney Lane DC1

Superseded Report:

Results Legend		Customer Sample Ref.	DS25-05	DS25-06				
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfiltTotal / 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)	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference							
Component	LOD/Units	Method						
Carbon, Organic (diss.filt)	<3 mg/l	TM090	3.19	8.79				
Ammoniacal Nitrogen as N	<0.2 mg/l	TM099	0.383	0.64				
Ammoniacal Nitrogen as NH3	<0.2 mg/l	TM099	0.465	0.777				
Antimony (diss.filt)	<1 µg/l	TM152	<1	<1				
Arsenic (diss.filt)	<0.5 µg/l	TM152	<0.5	1.97				
Beryllium (diss.filt)	<0.1 µg/l	TM152	<0.1	<0.1				
Cadmium (diss.filt)	<0.08 µg/l	TM152	<0.08	0.0815				
Chromium (diss.filt)	<1 µg/l	TM152	<1	<1				
Copper (diss.filt)	<0.3 µg/l	TM152	1.85	2.05				
Lead (diss.filt)	<0.2 µg/l	TM152	<0.2	<0.2				
Manganese (diss.filt)	<3 µg/l	TM152	432	2160				
Nickel (diss.filt)	<0.4 µg/l	TM152	2.7	8.42				
Selenium (diss.filt)	<1 µg/l	TM152	<1	<1				
Vanadium (diss.filt)	<1 µg/l	TM152	<1	<1				
Zinc (diss.filt)	<1 µg/l	TM152	1.57	2.15				
Calcium (Dis.Filt)	<0.2 mg/l	TM152	84.9	94.5				
Hardness, Total as CaCO3 unfiltered	<0.35 mg/l	TM152	244	279				
Mercury (diss.filt)	<0.01 µg/l	TM183	<0.01	<0.01				
Chloride	<2 mg/l	TM184	19.2	46.7				
Cyanide, Total	<0.05 mg/l	TM227	<0.05	<0.05				
pH	<1 pH Units	TM256	7.52	7.24				
Phenol	<0.002 mg/l	TM259	<0.002	<0.002				
Cresols	<0.006 mg/l	TM259	<0.006	<0.006				
Xylenols	<0.008 mg/l	TM259	<0.008	<0.008				
Phenols, Total Detected monohydric	<0.016 mg/l	TM259	<0.016	<0.016				
Low Level Hexavalent Chromium	<0.003 mg/l	TM331	<0.003	<0.003				
PFBA (375-22-4)	<2 ng/l	TM434	7.04	60.9				
PFMOPrA (377-73-1)	<1 ng/l	TM434	<1	<5				
3:3 FTCA (356-02-5)	<2 ng/l	TM434	<2	<10				
PFPA (2706-90-3)	<1 ng/l	TM434	10.1	63.1				
PFMOBA (863090-89-5)	<1 ng/l	TM434	<1	<5				
4:2 FTS (757124-72-4)	<1 ng/l	TM434	<1	<5				
NFDHA (151772-58-6)	<3 ng/l	TM434	<3	<15				



CERTIFICATE OF ANALYSIS

Validated

SDG: 250327-72
Client Ref.: 25/4047

Report Number: 762369

Superseded Report:

Location: LHR042 Thorney Lane DC1

Results Legend			Customer Sample Ref.		DS25-05	DS25-06				
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		Ground Water (GW)	Ground Water (GW)				
m	mCERTS accredited.				25/03/2025	25/03/2025				
aq	Aqueous / settled sample.									
diss.filt	Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.				27/03/2025	27/03/2025				
*	Subcontracted - refer to subcontractor report for accreditation status.				250327-72	250327-72				
**	% 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				31286617	31286619				
***	6:2 FTAB (see appendix)				EW1A	EW1A				
1-4**	Sample deviation (see appendix)									
Component	LOD/Units	Method								
PFBS (375-73-5)	<1 ng/l	TM434			1.62	26.2				
					#	#				
PFHxA (307-24-4)	<1 ng/l	TM434			4.79	68.7				
					#	#				
HFPO-DA (13252-13-6)	<2 ng/l	TM434			<2	<10				
					#	#				
PFEESA (113507-82-7)	<1 ng/l	TM434			<1	<5				
					#	#				
PFHpA (375-85-9)	<1 ng/l	TM434			1.78	80				
					#	#				
PFPeS (2706-91-4)	<1 ng/l	TM434			<1	27.3				
					#	#				
5:3 FTCA (914637-49-3)	<5 ng/l	TM434			<5	<25				
					#	#				
ADONA (919005-14-4)	<1 ng/l	TM434			<1	<5				
					#	#				
6:2 FTS (27619-97-2)	<1 ng/l	TM434			<1	<5				
					#	#				
FBSA (30334-69-1)	<1 ng/l	TM434			<1	<5				
					#	#				
PFOA (335-67-1)	<0.65 ng/l	TM434			3.33	217				
					#	#				
PFHxS (355-46-4)	<1 ng/l	TM434			<1	82.4				
					#	#				
PFNA (375-95-1)	<1 ng/l	TM434			<1	<5				
					#	#				
PFechS (133201-07-7)	<1 ng/l	TM434			<1	<5				
					#	#				
PFHpS (375-92-8)	<1 ng/l	TM434			<1	<5				
					#	#				
8:2 FTS (39108-34-4)	<2 ng/l	TM434			<2	<10				
					#	#				
HFPO-TA (13252-14-7)	<5 ng/l	TM434			<5	<25				
					#	#				
PFDA (335-76-2)	<2 ng/l	TM434			<2	<10				
					#	#				
MeFOSAA (2355-31-9)	<2 ng/l	TM434			<2	<10				
					◆ #	◆ #				
7:3 FTCA (812-70-4)	<5 ng/l	TM434			<5	<25				
					#	#				
Linear PFOS (1763-23-1)	<0.65 ng/l	TM434			1.61	12.5				
					#	#				
Branched PFOS	<0.65 ng/l	TM434			1.23	17.1				
					#	#				
EtFOSAA (2991-50-6)	<2 ng/l	TM434			<2	<10				
					◆ #	◆ #				
PFUnA (2058-94-8)	<2 ng/l	TM434			<2	<10				
					#	#				
9CI-PF3ONS (756426-58-1)	<1 ng/l	TM434			<1	<5				
					#	#				
PFNS (68259-12-1)	<1 ng/l	TM434			<1	<5				
					#	#				
FHxSA (41997-13-1)	<1 ng/l	TM434			<1	<5				
					#	#				
PFDoA (307-55-1)	<2 ng/l	TM434			<2	<10				
					#	#				
PFDS (335-77-3)	<2 ng/l	TM434			<2	<10				
					#	#				
PFTTrDA (72629-94-8)	<3 ng/l	TM434			<3	<15				
					#	#				
11CI-PF3OUdS (763051-92-9)	<2 ng/l	TM434			<2	<10				
					#	#				
PFUnDS (749786-16-1)	<2 ng/l	TM434			<2	<10				
					#	#				
PFTeA (376-06-7)	<1 ng/l	TM434			<1	<5				
					#	#				



CERTIFICATE OF ANALYSIS

Validated

SDG: 250327-72
Client Ref.: 25/4047

Report Number: 762369

Superseded Report:

Location: LHR042 Thorney Lane DC1

SVOC MS (W) - Aqueous

Results Legend			Customer Sample Ref.				
# ISO17025 accredited. 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*§@ Sample deviation (see appendix)			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	BH25-02 Ground Water (GW) 25/03/2025 27/03/2025 250327-72 31286621 EW1A			
Component	LOD/Units	Method					
1,2,4-Trichlorobenzene (aq)	<1 µg/l	TM176	<10	#			
1,2-Dichlorobenzene (aq)	<1 µg/l	TM176	<10	#			
1,3-Dichlorobenzene (aq)	<1 µg/l	TM176	<10	#			
1,4-Dichlorobenzene (aq)	<1 µg/l	TM176	<10	#			
2,4,5-Trichlorophenol (aq)	<1 µg/l	TM176	<10	#			
2,4,6-Trichlorophenol (aq)	<1 µg/l	TM176	<10	#			
2,4-Dichlorophenol (aq)	<1 µg/l	TM176	<10	#			
2,4-Dimethylphenol (aq)	<1 µg/l	TM176	<10	#			
2,4-Dinitrotoluene (aq)	<1 µg/l	TM176	<10	#			
2,6-Dinitrotoluene (aq)	<1 µg/l	TM176	<10	#			
2-Chloronaphthalene (aq)	<1 µg/l	TM176	<10	#			
2-Chlorophenol (aq)	<1 µg/l	TM176	<10	#			
2-Methylnaphthalene (aq)	<1 µg/l	TM176	<10	#			
2-Methylphenol (aq)	<1 µg/l	TM176	<10	#			
2-Nitroaniline (aq)	<1 µg/l	TM176	<10	#			
2-Nitrophenol (aq)	<1 µg/l	TM176	<10	#			
3-Nitroaniline (aq)	<1 µg/l	TM176	<10				
4-Bromophenylphenylether (aq)	<1 µg/l	TM176	<10	#			
4-Chloro-3-methylphenol (aq)	<1 µg/l	TM176	<10	#			
4-Chloroaniline (aq)	<1 µg/l	TM176	<10				
4-Chlorophenylphenylether (aq)	<1 µg/l	TM176	<10	#			
4-Methylphenol (aq)	<1 µg/l	TM176	<10	#			
4-Nitroaniline (aq)	<1 µg/l	TM176	<10	#			
4-Nitrophenol (aq)	<1 µg/l	TM176	<10				
Azobenzene (aq)	<1 µg/l	TM176	<10	#			
Acenaphthylene (aq)	<1 µg/l	TM176	<10	#			
Acenaphthene (aq)	<1 µg/l	TM176	<10	#			
Anthracene (aq)	<1 µg/l	TM176	<10	#			
bis(2-Chloroethyl)ether (aq)	<1 µg/l	TM176	<10	#			
bis(2-Chloroethoxy)methane (aq)	<1 µg/l	TM176	<10	#			
bis(2-Ethylhexyl) phthalate (aq)	<2 µg/l	TM176	<20	#			
Butylbenzyl phthalate (aq)	<1 µg/l	TM176	<10	#			
Benzo(a)anthracene (aq)	<1 µg/l	TM176	<10	#			



CERTIFICATE OF ANALYSIS

Validated

SDG: 250327-72
Client Ref.: 25/4047

Report Number: 762369

Superseded Report:

Location: LHR042 Thorney Lane DC1

SVOC MS (W) - Aqueous

Results Legend			Customer Sample Ref.	BH25-02				
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfiltTotal / 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)			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	Ground Water (GW) 25/03/2025 27/03/2025 250327-72 31286621 EW1A				
Component	LOD/Units	Method						
Benzo(b)fluoranthene (aq)	<1 µg/l	TM176	<10	#				
Benzo(k)fluoranthene (aq)	<1 µg/l	TM176	<10	#				
Benzo(a)pyrene (aq)	<1 µg/l	TM176	<10	#				
Benzo(g,h,i)perylene (aq)	<1 µg/l	TM176	<10	#				
Carbazole (aq)	<1 µg/l	TM176	<10	#				
Chrysene (aq)	<1 µg/l	TM176	<10	#				
Dibenzofuran (aq)	<1 µg/l	TM176	<10	#				
n-Dibutyl phthalate (aq)	<1 µg/l	TM176	<10	#				
Diethyl phthalate (aq)	<1 µg/l	TM176	<10	#				
Dibenzo(a,h)anthracene (aq)	<1 µg/l	TM176	<10	#				
Dimethyl phthalate (aq)	<1 µg/l	TM176	<10	#				
n-Dioctyl phthalate (aq)	<5 µg/l	TM176	<50	#				
Fluoranthene (aq)	<1 µg/l	TM176	<10	#				
Fluorene (aq)	<1 µg/l	TM176	<10	#				
Hexachlorobenzene (aq)	<1 µg/l	TM176	<10	#				
Hexachlorobutadiene (aq)	<1 µg/l	TM176	<10	#				
Pentachlorophenol (aq)	<1 µg/l	TM176	<10					
Phenol (aq)	<1 µg/l	TM176	<10					
n-Nitroso-n-dipropylamine (aq)	<1 µg/l	TM176	<10	#				
Hexachloroethane (aq)	<1 µg/l	TM176	<10	#				
Nitrobenzene (aq)	<1 µg/l	TM176	<10	#				
Naphthalene (aq)	<1 µg/l	TM176	<10	#				
Isophorone (aq)	<1 µg/l	TM176	<10	#				
Hexachlorocyclopentadiene (aq)	<1 µg/l	TM176	<10					
Phenanthrene (aq)	<1 µg/l	TM176	<10	#				
Indeno(1,2,3-cd)pyrene (aq)	<1 µg/l	TM176	<10	#				
Pyrene (aq)	<1 µg/l	TM176	<10	#				

SDG: 250327-72
Client Ref.: 25/4047

Report Number: 762369

Superseded Report:

Location: LHR042 Thorney Lane DC1

TPH CWG (W)[illegible]



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SDG: 250327-72
Client Ref.: 25/4047

Report Number: 762369

Superseded Report:

Location: LHR042 Thorney Lane DC1

TPH CWG (W)

Results Legend			Customer Sample Ref.		DS25-05		DS25-06						
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		Ground Water (GW)		Ground Water (GW)						
M	mCERTS accredited.				25/03/2025		25/03/2025						
aq	Aqueous / settled sample.				27/03/2025		27/03/2025						
diss.filt	Dissolved / filtered sample.				250327-72		250327-72						
tot.unfilt	Total / unfiltered sample.				31286617		31286619						
Subcontracted - refer to subcontractor report for accreditation status.					EW1A		EW1A						
** % 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											
GRO Surrogate % recovery**	%	TM245	92		91								
GRO >C5-C12 (HS_1D_TOTAL)	<50 µg/l	TM245	<50		<50		#		#				
Aliphatics >C5-C6 (HS_1D_AL)	<10 µg/l	TM245	<10		<10								
Aliphatics >C6-C8 (HS_1D_AL)	<10 µg/l	TM245	<10		<10								
Aliphatics >C8-C10 (HS_1D_AL)	<10 µg/l	TM245	<10		<10								
Aliphatics >C10-C12 (HS_1D_AL)	<10 µg/l	TM245	<10		<10								
Aliphatics >C12-C16 (aq) (SPECED_AL1_W)	<10 µg/l	TM439	<10		<10								
Aliphatics >C16-C21 (aq) (SPECED_AL2_W)	<10 µg/l	TM439	<10		<10								
Aliphatics >C21-C35 (aq) (SPECED_AL3_W)	<10 µg/l	TM439	<10		<10								
Total Aliphatics >C12-C35 (aq) (EPHAL12_35T_GC_W)	<10 µg/l	TM439	<10		<10								
Aromatics >EC5-EC7 (HS_1D_AR)	<10 µg/l	TM245	<10		<10								
Aromatics >EC7-EC8 (HS_1D_AR)	<10 µg/l	TM245	<10		<10								
Aromatics >EC8-EC10	<10 µg/l	TM245	<10		<10								
Aromatics >EC10-EC12	<10 µg/l	TM245	<10		<10								
Aromatics >EC12-EC16 (aq) (SPECED_AROM1_W)	<10 µg/l	TM439	<10		<10								
Aromatics >EC16-EC21 (aq) (SPECED_AROM2_W)	<10 µg/l	TM439	<10		<10								
Aromatics >EC21-EC35 (aq) (SPECED_AROM3_W)	<10 µg/l	TM439	<10		<10								
Total Aromatics >EC12-EC35 (aq) (EPHAR12_35T_GC_W)	<10 µg/l	TM439	<10		<10								
Total Aliphatics & Aromatics >C5-35 (aq)	<10 µg/l	TM439	<10		<10								



CERTIFICATE OF ANALYSIS

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Location: LHR042 Thorney Lane DC1

Superseded Report:

VOC MS (W)

Results Legend			Customer Sample Ref.		BH25-02	BH25-04	BH25-10	BH25-11	CP105	DS25-02
# ISO17025 accredited.	M mCERTS accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)
aq Aqueous / settled sample.		25/03/2025			25/03/2025	25/03/2025	25/03/2025	25/03/2025	25/03/2025	
diss.filt Dissolved / filtered sample.		27/03/2025			27/03/2025	27/03/2025	27/03/2025	27/03/2025	27/03/2025	
tot.unfilt Total / unfiltered sample.		250327-72			250327-72	250327-72	250327-72	250327-72	250327-72	
* Subcontracted - refer to subcontractor report for accreditation status.		31286621			31286625	31286622	31286624	31286620	31286618	
** % 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		EW1A	EW1A		EW1A	EW1A	EW1A	EW1A		
*** 6:2 FTAB (see appendix)										
1-4**@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
Dibromofluoromethane**	%	TM208	109							
Toluene-d8**	%	TM208	98.9	98.7	97.7	99.3	98.8	97.7		
4-Bromofluorobenzene**	%	TM208	99.8							
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	#	<1	<1	<1	<1	<1	<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	#	<1	<1	<1	<1	<1	<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	#	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	<1 µg/l	TM208	<1	#						
1,1,2-Trichloroethane	<1 µg/l	TM208	<1	#						
1,3-Dichloropropane	<1 µg/l	TM208	<1	#						



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Superseded Report:

Location: LHR042 Thorney Lane DC1

VOC MS (W)

Results Legend			Customer Sample Ref.		BH25-02	BH25-04	BH25-10	BH25-11	CP105	DS25-02
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)
m	mCERTS accredited.				25/03/2025	25/03/2025	25/03/2025	25/03/2025	25/03/2025	25/03/2025
aq	Aqueous / settled sample.									
diss.filt	Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.					27/03/2025	27/03/2025	27/03/2025	27/03/2025	27/03/2025	27/03/2025
** % 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					250327-72	250327-72	250327-72	250327-72	250327-72	250327-72
*** 6:2 FTAB (see appendix)					31286621	31286625	31286622	31286624	31286620	31286618
1-4*5@ Sample deviation (see appendix)					EW1A	EW1A	EW1A	EW1A	EW1A	EW1A
Component	LOD/Units	Method								
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	#	<1	#	<1	#
m,p-Xylene	<1 µg/l	TM208			<1	#	<1	#	<1	#
o-Xylene	<1 µg/l	TM208			<1	#	<1	#	<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	#				
1,2,3-Trichlorobenzene	<1 µg/l	TM208			<1	#				
1,3,5-Trichlorobenzene	<1 µg/l	TM208			<1					



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Superseded Report:

Location: LHR042 Thorney Lane DC1

VOC MS (W)

Results Legend			Customer Sample Ref.		DS25-05		DS25-06					
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfiltTotal / 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)			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		Ground Water (GW) 25/03/2025 27/03/2025 250327-72 31286617 EW1A		Ground Water (GW) 25/03/2025 27/03/2025 250327-72 31286619 EW1A					
Component	LOD/Units	Method										
Toluene-d8**	%	TM208	99.1		98.4							
Methyl tertiary butyl ether (MTBE)	<1 µg/l	TM208	<1		<1		#		#			
Benzene	<1 µg/l	TM208	<1		<1		#		#			
Toluene	<1 µg/l	TM208	<1		<1		#		#			
Ethylbenzene	<1 µg/l	TM208	<1		<1		#		#			
m,p-Xylene	<1 µg/l	TM208	<1		<1		#		#			
o-Xylene	<1 µg/l	TM208	<1		<1		#		#			
Sum of detected Xylenes	<2 µg/l	TM208	<2		<2							
Sum of BTEX	<5 µg/l	TM208	<5		<5							



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Table of Results - Appendix

Method No	Description
TM090	Determination of Total Organic Carbon/Total Inorganic Carbon in Water and Waste Water
TM099	Determination of Ammonium in Water Samples using the Kone Analyser
TM152	Analysis of Aqueous Samples by ICP-MS
TM176	Determination of SVOCs in Water by GCMS
TM178	Determination of Polynuclear Aromatic Hydrocarbons (PAH) by GC-MS in Waters
TM183	Determination of Trace Level Mercury in Waters and Leachates by PSA Cold Vapour Atomic Fluorescence Spectrometry
TM184	The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers
TM208	Determination of Volatile Organic Compounds by Headspace / GC-MS in Waters
TM227	Determination of Total Cyanide, Free (Easily Liberatable) Cyanide and Thiocyanate
TM245	Determination of GRO by Headspace in waters
TM256	Determination of pH, EC, TDS and Alkalinity in Aqueous samples
TM259	Determination of Phenols in Waters and Leachates by HPLC
TM331	Low Level Hexavalent Chromium
TM434	Analysis of PFAS
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).



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Test Completion Dates

Lab Sample No(s)	31286621	31286625	31286622	31286624	31286620	31286618	31286617	31286619
Customer Sample Ref.	BH25-02	BH25-04	BH25-10	BH25-11	CP105	DS25-02	DS25-05	DS25-06
AGS Ref.	EW1A	EW1A	EW1A	EW1A	EW1A	EW1A	EW1A	EW1A
Depth								
Type	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
Ammoniacal Nitrogen	28-Mar-2025	28-Mar-2025	28-Mar-2025	28-Mar-2025	28-Mar-2025	28-Mar-2025	28-Mar-2025	28-Mar-2025
Anions by Kone (w)	31-Mar-2025	31-Mar-2025	01-Apr-2025	31-Mar-2025	01-Apr-2025	31-Mar-2025	31-Mar-2025	31-Mar-2025
Cyanide Comp/Free/Total/Thiocyanate	02-Apr-2025	02-Apr-2025	02-Apr-2025	02-Apr-2025	02-Apr-2025	02-Apr-2025	02-Apr-2025	02-Apr-2025
Dissolved Metals by ICP-MS	02-Apr-2025	01-Apr-2025	01-Apr-2025	01-Apr-2025	01-Apr-2025	01-Apr-2025	02-Apr-2025	02-Apr-2025
Dissolved Organic/Inorganic Carbon	28-Mar-2025	28-Mar-2025	28-Mar-2025	28-Mar-2025	28-Mar-2025	28-Mar-2025	28-Mar-2025	28-Mar-2025
EPH and CWG by FID	02-Apr-2025	02-Apr-2025	01-Apr-2025	02-Apr-2025	02-Apr-2025	02-Apr-2025	02-Apr-2025	02-Apr-2025
GRO by GC-FID (W)	01-Apr-2025	01-Apr-2025	01-Apr-2025	01-Apr-2025	01-Apr-2025	01-Apr-2025	01-Apr-2025	01-Apr-2025
Low Level Hexavalent Chromium (w)	01-Apr-2025	01-Apr-2025	01-Apr-2025	01-Apr-2025	01-Apr-2025	01-Apr-2025	01-Apr-2025	01-Apr-2025
Mercury Dissolved	01-Apr-2025	03-Apr-2025	01-Apr-2025	03-Apr-2025	03-Apr-2025	01-Apr-2025	01-Apr-2025	01-Apr-2025
PAH Spec MS - Aqueous (W)	02-Apr-2025	02-Apr-2025	01-Apr-2025	02-Apr-2025	01-Apr-2025	02-Apr-2025	02-Apr-2025	02-Apr-2025
PFAS Liquids (Full Suite)	16-Apr-2025	10-Apr-2025	15-Apr-2025	10-Apr-2025	15-Apr-2025	15-Apr-2025	15-Apr-2025	15-Apr-2025
pH Value	01-Apr-2025	01-Apr-2025	01-Apr-2025	01-Apr-2025	01-Apr-2025	01-Apr-2025	01-Apr-2025	01-Apr-2025
Phenols by HPLC (W)	03-Apr-2025	03-Apr-2025	03-Apr-2025	31-Mar-2025	03-Apr-2025	03-Apr-2025	03-Apr-2025	03-Apr-2025
SVOC MS (W) - Aqueous	02-Apr-2025							
Total Metals by ICP-MS	01-Apr-2025	01-Apr-2025	01-Apr-2025	01-Apr-2025	01-Apr-2025	01-Apr-2025	01-Apr-2025	01-Apr-2025
TPH CWG (W)	02-Apr-2025	02-Apr-2025	01-Apr-2025	02-Apr-2025	02-Apr-2025	02-Apr-2025	02-Apr-2025	02-Apr-2025
VOC MS (W)	02-Apr-2025	02-Apr-2025	02-Apr-2025	03-Apr-2025	02-Apr-2025	02-Apr-2025	02-Apr-2025	02-Apr-2025



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Superseded Report:

Appendix

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.

General

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 Anthophyllite	-
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.



Unit 7-8 Hawarden Business Park
Manor Road (off Manor Lane)
Hawarden
Deeside
CH5 3US

Tel: (01244) 528777
email: hawardencustomerservices@alsglobal.com
Website: www.alsenvironmental.co.uk

Concept Engineering Consultants Ltd
218 Northfields Road
London
W13 9SJ

Attention: Gabriela Mandache

CERTIFICATE OF ANALYSIS

Date of report Generation:	15 April 2025
Customer:	Concept Engineering Consultants Ltd
Sample Delivery Group (SDG):	250327-59
Your Reference:	25/4047
Location:	LHR042 Thorney Lane DC1
Report No:	762311
Order Number:	105243 (CL6837)

This report has been revised and directly supersedes 762282 in its entirety.

We received 7 samples on Thursday March 27, 2025 and 7 of these samples were scheduled for analysis which was completed on Tuesday April 15, 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





CERTIFICATE OF ANALYSIS

Validated

SDG: 250327-59
Client Ref.: 25/4047

Report Number: 762311
Location: LHR042 Thorney Lane DC1

Superseded Report: 762282

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
31284667	BH24-05	EW1A		26/03/2025
31284668	BH24-06	EW1A		26/03/2025
31284669	BH24-07	EW1A		26/03/2025
31284670	BH24-10	EW1A		26/03/2025
31284665	DS24-04	EW1A		26/03/2025
31284666	DS24-08	EW1A		26/03/2025
31284664	DS25-03	EW1A		26/03/2025

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



CERTIFICATE OF ANALYSIS

Validated

SDG: 250327-59
Client Ref.: 25/4047

Report Number: 762311
Location: LHR042 Thorney Lane DC1

Superseded Report: 762282

Results Legend X Test N No Determination Possible 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)		31 284667												31 284668												31 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CERTIFICATE OF ANALYSIS

Validated

SDG: 250327-59
Client Ref.: 25/4047

Report Number: 762311
Location: LHR042 Thorney Lane DC1

Superseded Report: 762282

Results Legend



Test



No Determination Possible

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)

Customer
Sample Reference

AGS Reference

Depth (m)

Container

Sample Type

VOC MS (W)

All

NDPs: 0
Tests: 7

31284667

BH24-05

EW1A

Vial (ALE297)
(ALE227)

GW

X

31284668

BH24-06

EW1A

0.5l glass bottle
(ALE227)

GW

X

31284669

BH24-07

EW1A

0.5l glass bottle
(ALE227)

GW

X

31284665	DS24-04	EW1A		Digitube fo PFAS analysis.	GW		
				500ml Plastic (ALE208)	GW		
				250ml Amber Gl. PTFE/PE (ALE219)	GW		
				0.5l glass bottle (ALE227)	GW		
				Vial (ALE297)	GW	X	
				NaOH (ALE245)	GW		
				HNO3 Unfiltered (ALE204)	GW		
				HNO3 Filtered (ALE204)	GW		
				H2SO4 (ALE244)	GW		
				Digitube fo PFAS analysis.	GW		
31284670	BH24-10	EW1A		500ml Plastic (ALE208)	GW		
				250ml Amber Gl. PTFE/PE (ALE219)	GW		
				0.5l glass bottle (ALE227)	GW		
				Vial (ALE297)	GW		
				NaOH (ALE245)	GW		
				HNO3 Unfiltered (ALE204)	GW		
				HNO3 Filtered (ALE204)	GW		
				H2SO4 (ALE244)	GW		
				Digitube fo PFAS analysis.	GW		
				500ml Plastic (ALE208)	GW		
31284669	BH24-07	EW1A		250ml Amber Gl. PTFE/PE (ALE219)	GW		
				0.5l glass bottle (ALE227)	GW		
				Vial (ALE297)	GW	X	
				NaOH (ALE245)	GW		
				HNO3 Unfiltered (ALE204)	GW		
				HNO3 Filtered (ALE204)	GW		
				H2SO4 (ALE244)	GW		
				Digitube fo PFAS analysis.	GW		
				500ml Plastic (ALE208)	GW		
				250ml Amber Gl. PTFE/PE (ALE219)	GW		



CERTIFICATE OF ANALYSIS

Validated

SDG: 250327-59
Client Ref.: 25/4047

Report Number: 762311
Location: LHR042 Thorney Lane DC1

Superseded Report: 762282

Results Legend	Lab Sample No(s)		31 284665		31 284666		31 284664	
	Customer Sample Reference		DS24-04		DS24-08		DS25-03	
	AGS Reference		EW1A		EW1A		EW1A	
	Depth (m)							
	Container		H2SO4 (ALE244)	Digitube to PFAS analysis.	500ml Plastic (ALE208)	250ml Amber Gl. PTFE/PE (ALE219)	0.5l glass bottle (ALE227)	Vial (ALE297)
	Sample Type		NaOH (ALE245)	HNO3 Unfiltered (ALE204)	HNO3 Filtered (ALE204)	H2SO4 (ALE244)	Digitube to PFAS analysis.	500ml Plastic (ALE208)
X Test N No Determination Possible 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								
Ammoniacal Nitrogen	All	NDPs: 0 Tests: 7						
Anions by Kone (w)	All	NDPs: 0 Tests: 7						
Cyanide Comp/Free/Total/Thiocyanate	All	NDPs: 0 Tests: 7						
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 7						
Dissolved Organic/Inorganic Carbon	All	NDPs: 0 Tests: 7						
EPH and CWG by FID	All	NDPs: 0 Tests: 7						
GRO by GC-FID (W)	All	NDPs: 0 Tests: 7						
Low Level Hexavalent Chromium (w)	All	NDPs: 0 Tests: 7						
Mercury Dissolved	All	NDPs: 0 Tests: 7						
PAH Spec MS - Aqueous (W)	All	NDPs: 0 Tests: 7						
PFAS Liquids (Full Suite)	All	NDPs: 0 Tests: 7						
pH Value	All	NDPs: 0 Tests: 7						
Phenols by HPLC (W)	All	NDPs: 0 Tests: 7						
Total Metals by ICP-MS	All	NDPs: 0 Tests: 7						
TPH CWG (W)	All	NDPs: 0 Tests: 7						



CERTIFICATE OF ANALYSIS

Validated

SDG: 250327-59
Client Ref.: 25/4047

Report Number: 762311
Location: LHR042 Thorney Lane DC1

Superseded Report: 762282

Results Legend



Test



No Determination Possible

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)

Customer Sample Reference

AGS Reference

Depth (m)

Container

Sample Type

VOC MS (W)

All

NDPs: 0
Tests: 7

31284665

DS24-04

EW1A

Vial (ALE297)
NaOH (ALE245)
HNO3 Unfiltered (ALE204)
HNO3 Filtered (ALE204)
H2SO4 (ALE244)

GW

X

31284666

DS24-08

EW1A

Vial (ALE297)
NaOH (ALE245)
HNO3 Unfiltered (ALE204)
HNO3 Filtered (ALE204)
H2SO4 (ALE244)

GW

X

31284664

DS25-03

EW1A

H2SO4 (ALE244)
Digitube for PFAS analysis.
500ml Plastic (ALE208)
250ml Amber GL. PTFE/PE (ALE219)
0.5l glass bottle (ALE227)
Vial (ALE297)
NaOH (ALE245)
HNO3 Unfiltered (ALE204)
HNO3 Filtered (ALE204)
H2SO4 (ALE244)

GW

31284664	DS25-03	EW1A		Vial (ALE297)	GW		X
				NaOH (ALE245)	GW		
				HNO3 Unfiltered (ALE204)	GW		
				HNO3 Filtered (ALE204)	GW		



CERTIFICATE OF ANALYSIS

Validated

SDG: 250327-59
Client Ref.: 25/4047

Report Number: 762311
Location: LHR042 Thorney Lane DC1

Superseded Report: 762282

Results Legend			Customer Sample Ref.		BH24-05	BH24-06	BH24-07	BH24-10	DS24-04	DS24-08
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)
M	mCERTS accredited.				26/03/2025	26/03/2025	26/03/2025	26/03/2025	26/03/2025	26/03/2025
aq	Aqueous / settled sample.				27/03/2025	27/03/2025	27/03/2025	27/03/2025	27/03/2025	27/03/2025
diss.filt	Dissolved / filtered sample.				250327-59	250327-59	250327-59	250327-59	250327-59	250327-59
tot.unfilt	Total / unfiltered sample.				31284667	31284668	31284669	31284670	31284665	31284666
* Subcontracted - refer to subcontractor report for accreditation status.					EW1A	EW1A	EW1A	EW1A	EW1A	EW1A
** % 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								
Carbon, Organic (diss.filt)	<3 mg/l	TM090			14.9	9.9	7.83	7.42	8.17	3.43
Ammoniacal Nitrogen as N	<0.2 mg/l	TM099			2.52	1.24	1.52	<0.2	1.78	0.227
Ammoniacal Nitrogen as NH3	<0.2 mg/l	TM099			#	#	#	#	#	#
Antimony (diss.filt)	<1 µg/l	TM152			3.06	1.5	1.84	<0.2	2.16	0.276
Arsenic (diss.filt)	<0.5 µg/l	TM152			#	#	#	#	#	#
Beryllium (diss.filt)	<0.1 µg/l	TM152			1.07	<1	<1	<1	<1	<1
Cadmium (diss.filt)	<0.08 µg/l	TM152			#	#	#	#	#	#
Chromium (diss.filt)	<1 µg/l	TM152			4.92	8.29	5.85	2.49	15.8	<0.5
Copper (diss.filt)	<0.3 µg/l	TM152			#	#	#	#	#	#
Lead (diss.filt)	<0.2 µg/l	TM152			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Manganese (diss.filt)	<3 µg/l	TM152			#	#	#	#	#	#
Nickel (diss.filt)	<0.4 µg/l	TM152			0.793	<0.2	0.223	<0.2	<0.2	<0.2
Selenium (diss.filt)	<1 µg/l	TM152			#	#	#	#	#	#
Vanadium (diss.filt)	<1 µg/l	TM152			<3	2370	2140	1780	6.49	9.32
Zinc (diss.filt)	<1 µg/l	TM152			#	#	#	#	#	#
Calcium (Dis.Filt)	<0.2 mg/l	TM152			6.13	5.07	37.2	76.7	3.35	7.52
Hardness, Total as CaCO3 unfiltered	<0.35 mg/l	TM152			#	#	#	#	#	#
Mercury (diss.filt)	<0.01 µg/l	TM183			1.24	<1	<1	<1	<1	<1
Chloride	<2 mg/l	TM184			#	#	#	#	#	#
Cyanide, Total	<0.05 mg/l	TM227			45.1	<1	<1	<1	2.76	<1
pH	<1 pH Units	TM256			#	#	#	#	#	#
Phenol	<0.002 mg/l	TM259			1.36	3.72	3.52	3.55	2.88	1.58
Cresols	<0.006 mg/l	TM259			#	#	#	#	#	#
Xylenols	<0.008 mg/l	TM259			<0.2	89.6	131	91.4	10.7	50
Phenols, Total Detected monohydric	<0.016 mg/l	TM259			#	#	#	#	#	#
Low Level Hexavalent Chromium	<0.003 mg/l	TM331			182	266	378	263	28.4	136
PFBA (375-22-4)	<2 ng/l	TM434			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PFMOPra (377-73-1)	<1 ng/l	TM434			#	#	#	#	#	#
3:3 FTCA (356-02-5)	<2 ng/l	TM434			46.8	74.7	101	183	20.5	56
PFPA (2706-90-3)	<1 ng/l	TM434			#	#	#	#	#	#
PFMOBA (863090-89-5)	<1 ng/l	TM434			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
4:2 FTS (757124-72-4)	<1 ng/l	TM434			#	#	#	#	#	#
NFDHA (151772-58-6)	<3 ng/l	TM434			11.5	7.3	7.4	7.5	9.63	7.03
					#	#	#	#	#	#
					<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
					#	#	#	#	#	#
					0.01	<0.006	<0.006	<0.006	<0.006	<0.006
					#	#	#	#	#	#
					<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
					#	#	#	#	#	#
					<0.016	<0.016	<0.016	<0.016	<0.016	<0.016
					#	#	#	#	#	#
					<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
					#	#	#	#	#	#
					6.42	113	15	22.3	3.99	8.61
					#	#	#	#	#	#
					<1	<1	<1	<1	<1	<1
					#	#	#	#	#	#
					<2	<2	<2	<2	<2	<2
					#	#	#	#	#	#
					9.35	116	48.3	7.34	10.4	18.1
					#	#	#	#	#	#
					<1	<1	<1	<1	<1	<1
					#	#	#	#	#	#
					<1	<1	<1	<1	<1	<1
					#	#	#	#	#	#
					<3	<3	<3	<3	<3	<3
					#	#	#	#	#	#



CERTIFICATE OF ANALYSIS

Validated

SDG: 250327-59
Client Ref.: 25/4047

Report Number: 762311
Location: LHR042 Thorney Lane DC1

Superseded Report: 762282

Results Legend			Customer Sample Ref.		BH24-05	BH24-06	BH24-07	BH24-10	DS24-04	DS24-08
# ISO17025 accredited. 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**@ Sample deviation (see appendix)			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		Ground Water (GW) 26/03/2025 27/03/2025 250327-59 31284667 EW1A	Ground Water (GW) 26/03/2025 27/03/2025 250327-59 31284668 EW1A	Ground Water (GW) 26/03/2025 27/03/2025 250327-59 31284669 EW1A	Ground Water (GW) 26/03/2025 27/03/2025 250327-59 31284670 EW1A	Ground Water (GW) 26/03/2025 27/03/2025 250327-59 31284665 EW1A	Ground Water (GW) 26/03/2025 27/03/2025 250327-59 31284666 EW1A
Component	LOD/Units	Method								
PFBS (375-73-5)	<1 ng/l	TM434			2.32	57.9	7.54	5.85	1.28	2.52
					#	#	#	#	#	#
PFHxA (307-24-4)	<1 ng/l	TM434			13.3	164	18.9	2.55	6.85	7.33
					#	#	#	#	#	#
HFPO-DA (13252-13-6)	<2 ng/l	TM434			<2	<2	<2	<2	<2	<2
					#	#	#	#	#	#
PFEESA (113507-82-7)	<1 ng/l	TM434			<1	<1	<1	<1	<1	<1
					#	#	#	#	#	#
PFHpA (375-85-9)	<1 ng/l	TM434			4.9	193	12.1	3.03	4.1	6.75
					#	#	#	#	#	#
PFPeS (2706-91-4)	<1 ng/l	TM434			<1	38.9	<1	<1	<1	<1
					#	#	#	#	#	#
5:3 FTCA (914637-49-3)	<5 ng/l	TM434			<5	<5	<5	<5	<5	<5
					#	#	#	#	#	#
ADONA (919005-14-4)	<1 ng/l	TM434			<1	<1	<1	<1	<1	<1
					#	#	#	#	#	#
6:2 FTS (27619-97-2)	<1 ng/l	TM434			<1	<1	1.02	<1	<1	<1
					#	#	#	#	#	#
FBSA (30334-69-1)	<1 ng/l	TM434			<1	<1	1.32	1.48	<1	1.2
					#	#	#	#	#	#
PFOA (335-67-1)	<0.65 ng/l	TM434			20.3	398	13.1	15.8	11.1	6.3
					#	#	#	#	#	#
PFHxS (355-46-4)	<1 ng/l	TM434			2.44	148	20.8	5.36	1.77	<1
					#	#	#	#	#	#
PFNA (375-95-1)	<1 ng/l	TM434			2.05	1.03	1.67	2.54	1.68	2.41
					#	#	#	#	#	#
PFecHS (133201-07-7)	<1 ng/l	TM434			4.72	4.79	<1	<1	3.54	<1
					#	#	#	#	#	#
PFHpS (375-92-8)	<1 ng/l	TM434			<1	1.43	1.26	<1	<1	<1
					#	#	#	#	#	#
8:2 FTS (39108-34-4)	<2 ng/l	TM434			<2	<2	<2	<2	<2	<2
					#	#	#	#	#	#
HFPO-TA (13252-14-7)	<5 ng/l	TM434			<5	<5	<5	<5	<5	<5
					#	#	#	#	#	#
PFDA (335-76-2)	<2 ng/l	TM434			2.49	<2	<2	2.74	<2	2.22
					#	#	#	#	#	#
MeFOSAA (2355-31-9)	<2 ng/l	TM434			2.75	<2	<2	<2	3.49	<2
					◆ #	◆ #	◆ #	◆ #	◆ #	◆ #
7:3 FTCA (812-70-4)	<5 ng/l	TM434			<5	<5	<5	<5	<5	<5
					#	#	#	#	#	#
Linear PFOS (1763-23-1)	<0.65 ng/l	TM434			14.1	7.99	33.7	19.9	12.1	3.52
					#	#	#	#	#	#
Branched PFOS	<0.65 ng/l	TM434			9.39	7.66	28.3	9.86	6.94	2.14
					#	#	#	#	#	#
EtFOSAA (2991-50-6)	<2 ng/l	TM434			<2	<2	<2	<2	<2	<2
					◆ #	◆ #	◆ #	◆ #	◆ #	◆ #
PFUnA (2058-94-8)	<2 ng/l	TM434			<2	<2	<2	<2	<2	<2
					#	#	#	#	#	#
9CI-PF3ONS (756426-58-1)	<1 ng/l	TM434			<1	<1	<1	<1	<1	<1
					#	#	#	#	#	#
PFNS (68259-12-1)	<1 ng/l	TM434			<1	<1	<1	<1	<1	<1
					#	#	#	#	#	#
FHxSA (41997-13-1)	<1 ng/l	TM434			<1	<1	<1	<1	<1	<1
					#	#	#	#	#	#
PFDoA (307-55-1)	<2 ng/l	TM434			<2	<2	<2	<2	<2	<2
					#	#	#	#	#	#
PFDS (335-77-3)	<2 ng/l	TM434			<2	<2	<2	<2	<2	<2
					#	#	#	#	#	#
PFTrDA (72629-94-8)	<3 ng/l	TM434			<3	<3	<3	<3	<3	<3
					#	#	#	#	#	#
11CI-PF3OUdS (763051-92-9)	<2 ng/l	TM434			<2	<2	<2	<2	<2	<2
					#	#	#	#	#	#
PFUnDS (749786-16-1)	<2 ng/l	TM434			<2	<2	<2	<2	<2	<2
					#	#	#	#	#	#
PFTeA (376-06-7)	<1 ng/l	TM434			<1	<1	<1	<1	<1	<1
					#	#	#	#	#	#



CERTIFICATE OF ANALYSIS

Validated

SDG: 250327-59
Client Ref.: 25/4047

Report Number: 762311
Location: LHR042 Thorney Lane DC1

Superseded Report: 762282

Results Legend		Customer Sample Ref.	DS25-03			
# ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	Ground Water (GW)			
M mCERTS accredited.			26/03/2025			
aq Aqueous / settled sample.			27/03/2025			
diss.filt Dissolved / filtered sample.			250327-59			
tot.unfiltTotal / unfiltered sample.			31284664			
* Subcontracted - refer to subcontractor report for accreditation status.			EW1A			
** % 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				
Carbon, Organic (diss.filt)	<3 mg/l	TM090	7.39			
Ammoniacal Nitrogen as N	<0.2 mg/l	TM099	1.78	#		
Ammoniacal Nitrogen as NH3	<0.2 mg/l	TM099	2.16	#		
Antimony (diss.filt)	<1 µg/l	TM152	<1	#		
Arsenic (diss.filt)	<0.5 µg/l	TM152	0.558	#		
Beryllium (diss.filt)	<0.1 µg/l	TM152	<0.1	#		
Cadmium (diss.filt)	<0.08 µg/l	TM152	<0.08	#		
Chromium (diss.filt)	<1 µg/l	TM152	<1	#		
Copper (diss.filt)	<0.3 µg/l	TM152	1.85	#		
Lead (diss.filt)	<0.2 µg/l	TM152	<0.2	#		
Manganese (diss.filt)	<3 µg/l	TM152	1780	#		
Nickel (diss.filt)	<0.4 µg/l	TM152	5.85	#		
Selenium (diss.filt)	<1 µg/l	TM152	<1	#		
Vanadium (diss.filt)	<1 µg/l	TM152	<1	#		
Zinc (diss.filt)	<1 µg/l	TM152	3.24	#		
Calcium (Dis.Filt)	<0.2 mg/l	TM152	120	#		
Hardness, Total as CaCO3 unfiltered	<0.35 mg/l	TM152	373			
Mercury (diss.filt)	<0.01 µg/l	TM183	<0.01	#		
Chloride	<2 mg/l	TM184	71.8	#		
Cyanide, Total	<0.05 mg/l	TM227	<0.05	#		
pH	<1 pH Units	TM256	6.99	#		
Phenol	<0.002 mg/l	TM259	<0.002	#		
Cresols	<0.006 mg/l	TM259	<0.006	#		
Xylenols	<0.008 mg/l	TM259	<0.008	#		
Phenols, Total Detected monohydric	<0.016 mg/l	TM259	<0.016	#		
Low Level Hexavalent Chromium	<0.003 mg/l	TM331	<0.003	#		
PFBA (375-22-4)	<2 ng/l	TM434	120	#		
PFMOPra (377-73-1)	<1 ng/l	TM434	<5	#		
3:3 FTCA (356-02-5)	<2 ng/l	TM434	<10	#		
PFPA (2706-90-3)	<1 ng/l	TM434	183	#		
PFMOBA (863090-89-5)	<1 ng/l	TM434	<5	#		
4:2 FTS (757124-72-4)	<1 ng/l	TM434	<5	#		
NFDHA (151772-58-6)	<3 ng/l	TM434	<15	#		



CERTIFICATE OF ANALYSIS

Validated

SDG: 250327-59
Client Ref.: 25/4047

Report Number: 762311
Location: LHR042 Thorney Lane DC1

Superseded Report: 762282

Results Legend			Customer Sample Ref.	DS25-03				
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	Ground Water (GW) 26/03/2025 27/03/2025 250327-59 31284664 EW1A				
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**	Sample deviation (see appendix)							
Component	LOD/Units	Method						
PFBS (375-73-5)	<1 ng/l	TM434	75.6	#				
PFHxA (307-24-4)	<1 ng/l	TM434	238	#				
HFPO-DA (13252-13-6)	<2 ng/l	TM434	<10	#				
PFEESA (113507-82-7)	<1 ng/l	TM434	<5	#				
PFHpA (375-85-9)	<1 ng/l	TM434	280	#				
PFPeS (2706-91-4)	<1 ng/l	TM434	77.8	#				
5:3 FTCA (914637-49-3)	<5 ng/l	TM434	<25	#				
ADONA (919005-14-4)	<1 ng/l	TM434	<5	#				
6:2 FTS (27619-97-2)	<1 ng/l	TM434	<5	#				
FBSA (30334-69-1)	<1 ng/l	TM434	<5	#				
PFOA (335-67-1)	<0.65 ng/l	TM434	420	#				
PFHxS (355-46-4)	<1 ng/l	TM434	197	#				
PFNA (375-95-1)	<1 ng/l	TM434	<5	#				
PFecHS (133201-07-7)	<1 ng/l	TM434	6.65	#				
PFHpS (375-92-8)	<1 ng/l	TM434	<5	#				
8:2 FTS (39108-34-4)	<2 ng/l	TM434	<10	#				
HFPO-TA (13252-14-7)	<5 ng/l	TM434	<25	#				
PFDA (335-76-2)	<2 ng/l	TM434	<10	#				
MeFOSAA (2355-31-9)	<2 ng/l	TM434	<10	◆ #				
7:3 FTCA (812-70-4)	<5 ng/l	TM434	<25	#				
Linear PFOS (1763-23-1)	<0.65 ng/l	TM434	8.75	#				
Branched PFOS	<0.65 ng/l	TM434	13	#				
EtFOSAA (2991-50-6)	<2 ng/l	TM434	<10	◆ #				
PFUnA (2058-94-8)	<2 ng/l	TM434	<10	#				
9CI-PF3ONS (756426-58-1)	<1 ng/l	TM434	<5	#				
PFNS (68259-12-1)	<1 ng/l	TM434	<5	#				
FHxSA (41997-13-1)	<1 ng/l	TM434	<5	#				
PFDoA (307-55-1)	<2 ng/l	TM434	<10	#				
PFDS (335-77-3)	<2 ng/l	TM434	<10	#				
PFTTrDA (72629-94-8)	<3 ng/l	TM434	<15	#				
11CI-PF3OUdS (763051-92-9)	<2 ng/l	TM434	<10	#				
PFUnDS (749786-16-1)	<2 ng/l	TM434	<10	#				
PFTeA (376-06-7)	<1 ng/l	TM434	<5	#				



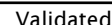
Location: LHR042 Thorney Lane DC1

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Superseded Report: 762282

Location: LHR042 Thorney Lane DC1



Superseded Report: 762282

Location: LHR042 Thorney Lane DC1



Client Ref.: 25/4047

Location: LHR042 Thorney Lane DC1



CERTIFICATE OF ANALYSIS

Validated

SDG: 250327-59
Client Ref.: 25/4047

Report Number: 762311
Location: LHR042 Thorney Lane DC1

Superseded Report: 762282

Table of Results - Appendix

Method No	Description
TM178	Determination of Polynuclear Aromatic Hydrocarbons (PAH) by GC-MS in Waters
TM331	Low Level Hexavalent Chromium
TM439	Determination of Extractable Petroleum Hydrocarbons (EPH) CWG banding by GC-FID on liquids
TM090	Determination of Total Organic Carbon/Total Inorganic Carbon in Water and Waste Water
TM099	Determination of Ammonium in Water Samples using the Kone Analyser
TM259	Determination of Phenols in Waters and Leachates by HPLC
TM152	Analysis of Aqueous Samples by ICP-MS
TM208	Determination of Volatile Organic Compounds by Headspace / GC-MS in Waters
TM227	Determination of Total Cyanide, Free (Easily Liberatable) Cyanide and Thiocyanate
TM256	Determination of pH, EC, TDS and Alkalinity in Aqueous samples
TM183	Determination of Trace Level Mercury in Waters and Leachates by PSA Cold Vapour Atomic Fluorescence Spectrometry
TM184	The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers
TM245	Determination of GRO by Headspace in waters
TM434	Analysis of PFAS

NA = not applicable.

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



CERTIFICATE OF ANALYSIS

Validated

SDG: 250327-59
Client Ref.: 25/4047

Report Number: 762311
Location: LHR042 Thorney Lane DC1

Superseded Report: 762282

Test Completion Dates

Lab Sample No(s)
Customer Sample Ref.

AGS Ref.
Depth
Type

	31284667	31284668	31284669	31284670	31284665	31284666	31284664
	BH24-05	BH24-06	BH24-07	BH24-10	DS24-04	DS24-08	DS25-03
	EW1A	EW1A	EW1A	EW1A	EW1A	EW1A	EW1A
	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
Ammoniacal Nitrogen	28-Mar-2025	28-Mar-2025	28-Mar-2025	28-Mar-2025	28-Mar-2025	28-Mar-2025	01-Apr-2025
Anions by Kone (w)	31-Mar-2025	01-Apr-2025	01-Apr-2025	01-Apr-2025	31-Mar-2025	01-Apr-2025	01-Apr-2025
Cyanide Comp/Free/Total/Thiocyanate	03-Apr-2025	03-Apr-2025	03-Apr-2025	03-Apr-2025	03-Apr-2025	03-Apr-2025	02-Apr-2025
Dissolved Metals by ICP-MS	02-Apr-2025	02-Apr-2025	01-Apr-2025	02-Apr-2025	02-Apr-2025	02-Apr-2025	02-Apr-2025
Dissolved Organic/Inorganic Carbon	29-Mar-2025	29-Mar-2025	28-Mar-2025	29-Mar-2025	29-Mar-2025	29-Mar-2025	01-Apr-2025
EPH and CWG by FID	04-Apr-2025	04-Apr-2025	04-Apr-2025	04-Apr-2025	02-Apr-2025	04-Apr-2025	02-Apr-2025
GRO by GC-FID (W)	01-Apr-2025	01-Apr-2025	01-Apr-2025	01-Apr-2025	01-Apr-2025	01-Apr-2025	02-Apr-2025
Low Level Hexavalent Chromium (w)	01-Apr-2025	01-Apr-2025	01-Apr-2025	01-Apr-2025	01-Apr-2025	01-Apr-2025	02-Apr-2025
Mercury Dissolved	01-Apr-2025	01-Apr-2025	01-Apr-2025	01-Apr-2025	01-Apr-2025	01-Apr-2025	02-Apr-2025
PAH Spec MS - Aqueous (W)	02-Apr-2025	02-Apr-2025	02-Apr-2025	01-Apr-2025	01-Apr-2025	02-Apr-2025	02-Apr-2025
PFAS Liquids (Full Suite)	10-Apr-2025	15-Apr-2025	15-Apr-2025	15-Apr-2025	10-Apr-2025	15-Apr-2025	15-Apr-2025
pH Value	01-Apr-2025	01-Apr-2025	01-Apr-2025	01-Apr-2025	01-Apr-2025	01-Apr-2025	03-Apr-2025
Phenols by HPLC (W)	03-Apr-2025	03-Apr-2025	03-Apr-2025	03-Apr-2025	03-Apr-2025	03-Apr-2025	01-Apr-2025
Total Metals by ICP-MS	01-Apr-2025	01-Apr-2025	01-Apr-2025	01-Apr-2025	01-Apr-2025	01-Apr-2025	03-Apr-2025
TPH CWG (W)	04-Apr-2025	04-Apr-2025	04-Apr-2025	04-Apr-2025	02-Apr-2025	04-Apr-2025	02-Apr-2025
VOC MS (W)	03-Apr-2025	02-Apr-2025	02-Apr-2025	02-Apr-2025	02-Apr-2025	02-Apr-2025	02-Apr-2025



CERTIFICATE OF ANALYSIS

SDG: 250327-59
Client Ref: 25/4047

Report Number: 762311
Location: LHR042 Thorney Lane DC1

Superseded Report: 762282

Appendix

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.

General

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 Anthophyllite	-
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.



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Manor Road (off Manor Lane)
Hawarden
Deeside
CH5 3US

Tel: (01244) 528777
email: hawardencustomerservices@alsglobal.com
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Concept Engineering Consultants Ltd
218 Northfields Road
London
W13 9SJ

Attention: Gabriela Mandache

CERTIFICATE OF ANALYSIS

Date of report Generation:	22 April 2025
Customer:	Concept Engineering Consultants Ltd
Sample Delivery Group (SDG):	250401-42
Your Reference:	25/4047
Location:	LHR042 Thorney Lane DC1
Report No:	762732
Order Number:	105323 (CL6856)

This report has been revised and directly supersedes 762598 in its entirety.

We received 6 samples on Tuesday April 01, 2025 and 6 of these samples were scheduled for analysis which was completed on Tuesday April 22, 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





CERTIFICATE OF ANALYSIS

Validated

SDG: 250401-42
Client Ref.: 25/4047

Report Number: 762732
Location: LHR042 Thorney Lane DC1

Superseded Report: 762598

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
31309845	Attenuation Pond (Round 1)	EW1AA		31/03/2025
31309841	BH25-05	EW2A		31/03/2025
31309843	Canal 3 (Round 1)	EW1AA		31/03/2025
31309842	DS25-06	EW2A		31/03/2025
31309840	DS25-08	EW2A		31/03/2025
31309846	DS25-09	EW2A		31/03/2025

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



CERTIFICATE OF ANALYSIS

Validated

SDG: 250401-42
Client Ref.: 25/4047

Report Number: 762732
Location: LHR042 Thorney Lane DC1

Superseded Report: 762598

Results Legend X Test N No Determination Possible 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)		31 309845												31 309841		31 309843													
	Customer Sample Reference		Attenuation Pond (Round 1)												BH25-05		Canal 3 (Round 1)													
	AGS Reference		EW1AA												EW2A		EW1AA													
	Depth (m)																													
	Container		0.5l glass bottle (ALE227)	Vial (ALE297)	NaOH (ALE245)	HNO3 Unfiltered (ALE204)	HNO3 Filtered (ALE204)	H2SO4 (ALE244)	Digitube fo PFAS analysis.	500ml Plastic (ALE208)	250ml Amber GL PTFE/PE (ALE219)	0.5l glass bottle (ALE227)	Vial (ALE297)	NaOH (ALE245)	HNO3 Unfiltered (ALE204)	HNO3 Filtered (ALE204)	H2SO4 (ALE244)	Digitube fo PFAS analysis.	500ml Plastic (ALE208)	250ml Amber GL PTFE/PE (ALE219)	0.5l glass bottle (ALE227)	Vial (ALE297)	NaOH (ALE245)	HNO3 Unfiltered (ALE204)	HNO3 Filtered (ALE204)	H2SO4 (ALE244)	Digitube fo PFAS analysis.	500ml Plastic (ALE208)	250ml Amber GL PTFE/PE (ALE219)	0.5l glass bottle (ALE227)
	Sample Type		SW	GW	GW	GW	GW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	GW	GW	GW	GW	GW	GW	GW	GW	GW	GW	GW	GW	SW
Ammoniacal Nitrogen	All	NDPs: 0 Tests: 6																												
Anions by Kone (w)	All	NDPs: 0 Tests: 6																												
Cyanide Comp/Free/Total/Thiocyanate	All	NDPs: 0 Tests: 6																												
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 6																												
Dissolved Organic/Inorganic Carbon	All	NDPs: 0 Tests: 6																												
EPH and CWG by FID	All	NDPs: 0 Tests: 6																												
GRO by GC-FID (W)	All	NDPs: 0 Tests: 6																												
Low Level Hexavalent Chromium (w)	All	NDPs: 0 Tests: 6																												
Mercury Dissolved	All	NDPs: 0 Tests: 6																												
PAH Spec MS - Aqueous (W)	All	NDPs: 0 Tests: 6																												
PFAS Liquids (Full Suite)	All	NDPs: 0 Tests: 6																												
pH Value	All	NDPs: 0 Tests: 6																												
Phenols by HPLC (W)	All	NDPs: 0 Tests: 6																												
SVOC MS (W) - Aqueous	All	NDPs: 0 Tests: 1																												
Total Metals by ICP-MS	All	NDPs: 0 Tests: 6																												

SDG: 250401-42

Report Number: 762732

Superseded Report: 762598

Client Ref.: 25/4047

Location: LHR042 Thorney Lane DC1

[illegible]

31 309840	DS25-08	EW2A		Digitube fo PFAS analysis.	GW		
				500ml Plastic (ALE208)	GW		
				250ml Amber Gl. PTFE/PE (ALE219)	GW		
				0.5l glass bottle (ALE227)	GW	X	
				Vial (ALE297)	GW		X
				NaOH (ALE245)	GW		
				HNO3 Unfiltered (ALE204)	GW		
				HNO3 Filtered (ALE204)	GW		
				H2SO4 (ALE244)	GW		
				Digitube fo PFAS analysis.	GW		
31 309842	DS25-06	EW2A		500ml Plastic (ALE208)	GW		
				250ml Amber Gl. PTFE/PE (ALE219)	GW		
				0.5l glass bottle (ALE227)	GW	X	
				Vial (ALE297)	SW		X
				NaOH (ALE245)	SW		
				HNO3 Unfiltered (ALE204)	SW		
				HNO3 Filtered (ALE204)	SW		
				H2SO4 (ALE244)	SW		
				Digitube fo PFAS analysis.	SW		
				500ml Plastic (ALE208)	GW		
31 309843	Canal 3 (Round 1)	EW1AA		250ml Amber Gl. PTFE/PE (ALE219)	GW		
				0.5l glass bottle (ALE227)	GW	X	
				Vial (ALE297)	SW		X
				NaOH (ALE245)	SW		
				HNO3 Unfiltered (ALE204)	SW		
				HNO3 Filtered (ALE204)	SW		
				H2SO4 (ALE244)	SW		
				Digitube fo PFAS analysis.	SW		
				500ml Plastic (ALE208)	SW		
				250ml Amber Gl. PTFE/PE (ALE219)	SW		

SDG: 250401-42
Client Ref.: 25/4047

Report Number: 762732

Superseded Report: 762598

Location: LHR042 Thorney Lane DC1

Results Legend X Test N No Determination Possible 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)		31309840															
	Customer Sample Reference		DS25-08															
	AGS Reference		EW2A															
	Depth (m)																	
	Container		H2SO4 (ALE244)	HNO3 Filtered (ALE204)	HNO3 Unfiltered (ALE204)	NaOH (ALE245)	Vial (ALE297)	0.5l glass bottle (ALE227)	PTFE/PE (ALE219)	250ml Amber Gl. (ALE208)	500ml Plastic (ALE208)	Digitube fo PFAS analysis.	H2SO4 (ALE244)	HNO3 Filtered (ALE204)	HNO3 Unfiltered (ALE204)	NaOH (ALE245)	Vial (ALE297)	
	Sample Type		CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	
	Ammoniacal Nitrogen	All	NDPs: 0 Tests: 6	X									X					
Anions by Kone (w)	All	NDPs: 0 Tests: 6								X								
Cyanide Comp/Free/Total/Thiocyanate	All	NDPs: 0 Tests: 6			X										X			
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 6		X									X					
Dissolved Organic/Inorganic Carbon	All	NDPs: 0 Tests: 6						X										
EPH and CWG by FID	All	NDPs: 0 Tests: 6						X										
GRO by GC-FID (W)	All	NDPs: 0 Tests: 6					X									X		
Low Level Hexavalent Chromium (w)	All	NDPs: 0 Tests: 6								X								
Mercury Dissolved	All	NDPs: 0 Tests: 6		X									X					
PAH Spec MS - Aqueous (W)	All	NDPs: 0 Tests: 6							X									
PFAS Liquids (Full Suite)	All	NDPs: 0 Tests: 6									X							
pH Value	All	NDPs: 0 Tests: 6								X								
Phenols by HPLC (W)	All	NDPs: 0 Tests: 6	X										X					
Total Metals by ICP-MS	All	NDPs: 0 Tests: 6			X									X				
TPH CWG (W)	All	NDPs: 0 Tests: 6						X										



CERTIFICATE OF ANALYSIS

Validated

SDG: 250401-42
Client Ref.: 25/4047

Report Number: 762732
Location: LHR042 Thorney Lane DC1

Superseded Report: 762598

Results Legend



Test



No Determination Possible

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)

31 309840

31 309846

Customer
Sample Reference

DS25-08

DS25-09

AGS Reference

EW2A

EW2A

Depth (m)

Container

Sample Type

Vial (ALE297)	GW
NaOH (ALE245)	GW
HNO3 Unfiltered (ALE204)	GW
HNO3 Filtered (ALE204)	GW
H2SO4 (ALE244)	GW
Digitube to PFAS analysis.	GW
500ml Plastic (ALE208)	GW
250ml Amber GL. PTFE/PE (ALE219)	GW
0.5l glass bottle (ALE227)	GW
Vial (ALE297)	GW
NaOH (ALE245)	GW
HNO3 Unfiltered (ALE204)	GW
HNO3 Filtered (ALE204)	GW
H2SO4 (ALE244)	GW

VOC MS (W)

All

NDPs: 0
Tests: 6

X

X



CERTIFICATE OF ANALYSIS

Validated

SDG: 250401-42
Client Ref.: 25/4047

Report Number: 762732
Location: LHR042 Thorney Lane DC1

Superseded Report: 762598

Results Legend			Customer Sample Ref.		Attenuation Pond (Round 1)	BH25-05	Canal 3 (Round 1)	DS25-06	DS25-08	DS25-09
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		Surface Water (SW) 31/03/2025	Ground Water (GW) 31/03/2025	Surface Water (SW) 31/03/2025	Ground Water (GW) 31/03/2025	Ground Water (GW) 31/03/2025	Ground Water (GW) 31/03/2025
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**@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
Carbon, Organic (diss.filt)	<3 mg/l	TM090			18	37.1	8.23	6.73	9.9	3.86
Ammoniacal Nitrogen as N	<0.2 mg/l	TM099			<0.2	163	1.19	0.642	4.91	0.332
Ammoniacal Nitrogen as NH3	<0.2 mg/l	TM099			<0.2	198	1.44	0.78	5.96	0.403
Antimony (diss.filt)	<1 µg/l	TM152			1.77	<1	<1	<1	<1	<1
Arsenic (diss.filt)	<0.5 µg/l	TM152			1.76	47.4	2.45	1.93	8.5	1.12
Beryllium (diss.filt)	<0.1 µg/l	TM152			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (diss.filt)	<0.08 µg/l	TM152			<0.08	<0.08	0.13	<0.08	<0.08	0.135
Chromium (diss.filt)	<1 µg/l	TM152			<1	<1	<1	<1	<1	<1
Copper (diss.filt)	<0.3 µg/l	TM152			5.75	2.3	4.72	2.4	<0.3	2.26
Lead (diss.filt)	<0.2 µg/l	TM152			0.741	0.936	0.653	<0.2	<0.2	<0.2
Manganese (diss.filt)	<3 µg/l	TM152			10.4	178	446	2050	1580	378
Nickel (diss.filt)	<0.4 µg/l	TM152			45.5	37.6	27.7	8.42	13.6	8.89
Selenium (diss.filt)	<1 µg/l	TM152			<1	1.71	<1	<1	<1	<1
Vanadium (diss.filt)	<1 µg/l	TM152			<1	4.87	3.53	<1	<1	<1
Zinc (diss.filt)	<1 µg/l	TM152			22.7	2.99	11.1	3.36	3.24	4.73
Calcium (Dis.Filt)	<0.2 mg/l	TM152			91.1	4.7	86.9	91.5	38.2	39.7
Hardness, Total as CaCO3 unfiltered	<0.35 mg/l	TM152			380	12.4	239	265	113	109
Mercury (diss.filt)	<0.01 µg/l	TM183			<0.01	0.0979	<0.01	<0.01	<0.01	<0.01
Chloride	<2 mg/l	TM184			281	75.1	60.2	42.8	74.3	68.7
Cyanide, Total	<0.05 mg/l	TM227			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
pH	<1 pH Units	TM256			8.1	9.79	7.75	7.19	7.65	7.75
Phenol	<0.002 mg/l	TM259			<0.002	0.09	<0.002	<0.002	<0.002	<0.002
Cresols	<0.006 mg/l	TM259			<0.006	0.04	<0.006	<0.006	<0.006	<0.006
Xylenols	<0.008 mg/l	TM259			<0.008	0.03	<0.008	<0.008	<0.008	<0.008
Phenols, Total Detected monohydric	<0.016 mg/l	TM259			<0.016	0.16	<0.016	<0.016	<0.016	<0.016
Low Level Hexavalent Chromium	<0.003 mg/l	TM331			<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
PFBA (375-22-4)	<2 ng/l	TM434			36.4	30.5	34.5	64.1	53.7	11.7
PFMOPra (377-73-1)	<1 ng/l	TM434			<5	<5	<1	<1	<1	<1
3:3 FTCA (356-02-5)	<2 ng/l	TM434			<10	<10	<2	<2	<2	<2
PFPA (2706-90-3)	<1 ng/l	TM434			209	52	53.3	60.1	135	7.57
PFMOBA (863090-89-5)	<1 ng/l	TM434			<5	<5	<1	<1	<1	<1
4:2 FTS (757124-72-4)	<1 ng/l	TM434			<5	<5	<1	<1	<1	<1
NFDHA (151772-58-6)	<3 ng/l	TM434			<15	<15	<3	<3	<3	<3



CERTIFICATE OF ANALYSIS

Validated

SDG: 250401-42
Client Ref.: 25/4047

Report Number: 762732
Location: LHR042 Thorney Lane DC1

Superseded Report: 762598

Results Legend			Customer Sample Ref.		Attenuation Pond (Round 1)	BH25-05	Canal 3 (Round 1)	DS25-06	DS25-08	DS25-09
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		Surface Water (SW) 31/03/2025	Ground Water (GW) 31/03/2025	Surface Water (SW) 31/03/2025	Ground Water (GW) 31/03/2025	Ground Water (GW) 31/03/2025	Ground Water (GW) 31/03/2025
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.					01/04/2025	01/04/2025	01/04/2025	01/04/2025	01/04/2025	01/04/2025
** % 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					250401-42	250401-42	250401-42	250401-42	250401-42	250401-42
*** 6:2 FTAB (see appendix)					31309845	31309841	31309843	31309842	31309840	31309846
1-4**@ Sample deviation (see appendix)					EW1AA	EW2A	EW1AA	EW2A	EW2A	EW2A
Component	LOD/Units	Method								
PFBS (375-73-5)	<1 ng/l	TM434			11.9	9.8	17.7	24.8	17.3	2.41
					#	#	#	#	#	#
PFHxA (307-24-4)	<1 ng/l	TM434			112	29.5	43	65.5	81.8	4.82
					#	#	#	#	#	#
HFPO-DA (13252-13-6)	<2 ng/l	TM434			<10	<10	<2	<2	<2	<2
					#	#	#	#	#	#
PFEESA (113507-82-7)	<1 ng/l	TM434			<5	<5	<1	<1	<1	<1
					#	#	#	#	#	#
PFHpA (375-85-9)	<1 ng/l	TM434			73.2	18.7	22.2	72.8	51.4	2.98
					#	#	#	#	#	#
PFPeS (2706-91-4)	<1 ng/l	TM434			<5	<5	4.33	22.3	8.65	<1
					#	#	#	#	#	#
5:3 FTCA (914637-49-3)	<5 ng/l	TM434			<25	<25	<5	<5	<5	<5
					#	#	#	#	#	#
ADONA (919005-14-4)	<1 ng/l	TM434			<5	<5	<1	<1	<1	<1
					#	#	#	#	#	#
6:2 FTS (27619-97-2)	<1 ng/l	TM434			<5	<5	9.91	<1	13.5	<1
					#	#	#	#	#	#
FBSA (30334-69-1)	<1 ng/l	TM434			<5	<5	5.2	1.31	3.26	<1
					#	#	#	#	#	#
PFOA (335-67-1)	<0.65 ng/l	TM434			41.5	45.1	35.4	175	94.8	9.41
					#	#	#	#	#	#
PFHxS (355-46-4)	<1 ng/l	TM434			11.7	11.5	26.2	62.5	30.5	5.99
					#	#	#	#	#	#
PFNA (375-95-1)	<1 ng/l	TM434			9.38	<5	2.62	1.79	4.69	1.5
					#	#	#	#	#	#
PFecHS (133201-07-7)	<1 ng/l	TM434			<5	<5	2.39	2.79	2.84	<1
					#	#	#	#	#	#
PFHpS (375-92-8)	<1 ng/l	TM434			<5	<5	<1	<1	<1	<1
					#	#	#	#	#	#
8:2 FTS (39108-34-4)	<2 ng/l	TM434			<10	<10	<2	<2	<2	<2
					#	#	#	#	#	#
HFPO-TA (13252-14-7)	<5 ng/l	TM434			<25	<25	<5	<5	<5	<5
					#	#	4 #	#	4 #	#
PFDA (335-76-2)	<2 ng/l	TM434			<10	<10	<2	<2	2.58	<2
					#	#	#	#	#	#
MeFOSAA (2355-31-9)	<2 ng/l	TM434			<10	<10	<2	<2	<2	<2
					◆ #	◆ #	◆ #	◆ #	◆ #	◆ #
7:3 FTCA (812-70-4)	<5 ng/l	TM434			<25	<25	<5	<5	<5	<5
					#	#	#	#	#	#
Linear PFOS (1763-23-1)	<0.65 ng/l	TM434			11.9	33.7	34.7	11.3	35.9	11.6
					#	#	#	#	#	#
Branched PFOS	<0.65 ng/l	TM434			20.1	34.1	31.4	15.3	23.3	9.48
					#	#	#	#	#	#
EtFOSAA (2991-50-6)	<2 ng/l	TM434			<10	<10	<2	<2	<2	<2
					◆ #	◆ #	◆ #	◆ #	◆ #	◆ #
PFUnA (2058-94-8)	<2 ng/l	TM434			<10	<10	<2	<2	<2	<2
					#	#	#	#	#	#
9CI-PF3ONS (756426-58-1)	<1 ng/l	TM434			<5	<5	<1	<1	<1	<1
					#	#	#	#	#	#
PFNS (68259-12-1)	<1 ng/l	TM434			<5	<5	<1	<1	<1	<1
					#	#	#	#	#	#
FHxSA (41997-13-1)	<1 ng/l	TM434			<5	<5	<1	<1	1.38	<1
					#	#	#	#	#	#
PFDoA (307-55-1)	<2 ng/l	TM434			<10	<10	<2	<2	<2	<2
					#	#	#	#	#	#
PFDS (335-77-3)	<2 ng/l	TM434			<10	<10	<2	<2	<2	<2
					#	#	#	#	#	#
PFTrDA (72629-94-8)	<3 ng/l	TM434			<15	<15	<3	<3	<3	<3
					#	#	#	#	#	#
11CI-PF3OUdS (763051-92-9)	<2 ng/l	TM434			<10	<10	<2	<2	<2	<2
					#	#	#	#	#	#
PFUnDS (749786-16-1)	<2 ng/l	TM434			<10	<10	<2	<2	<2	<2
					#	#	4 #	#	4 #	#
PFTeA (376-06-7)	<1 ng/l	TM434			<5	<5	<1	<1	<1	<1
					#	#	#	#	#	#

SDG: 250401-42
Client Ref.: 25/4047

Report Number: 762732

Superseded Report: 762598

Location: LHR042 Thorney Lane DC1

[illegible]



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SDG: 250401-42
Client Ref.: 25/4047

Report Number: 762732
Location: LHR042 Thorney Lane DC1

Superseded Report: 762598

SVOC MS (W) - Aqueous

Results Legend			Customer Sample Ref.	Canal 3 (Round 1)				
# ISO17025 accredited. 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*§@ Sample deviation (see appendix)			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	Surface Water (SW) 31/03/2025 01/04/2025 250401-42 31309843 EW1AA				
Component	LOD/Units	Method						
1,2,4-Trichlorobenzene (aq)	<1 µg/l	TM176	<1	#				
1,2-Dichlorobenzene (aq)	<1 µg/l	TM176	<1	#				
1,3-Dichlorobenzene (aq)	<1 µg/l	TM176	<1	#				
1,4-Dichlorobenzene (aq)	<1 µg/l	TM176	<1	#				
2,4,5-Trichlorophenol (aq)	<1 µg/l	TM176	<1	#				
2,4,6-Trichlorophenol (aq)	<1 µg/l	TM176	<1	#				
2,4-Dichlorophenol (aq)	<1 µg/l	TM176	<1	#				
2,4-Dimethylphenol (aq)	<1 µg/l	TM176	<1	#				
2,4-Dinitrotoluene (aq)	<1 µg/l	TM176	<1	#				
2,6-Dinitrotoluene (aq)	<1 µg/l	TM176	<1	#				
2-Chloronaphthalene (aq)	<1 µg/l	TM176	<1	#				
2-Chlorophenol (aq)	<1 µg/l	TM176	<1	#				
2-Methylnaphthalene (aq)	<1 µg/l	TM176	<1	#				
2-Methylphenol (aq)	<1 µg/l	TM176	<1	#				
2-Nitroaniline (aq)	<1 µg/l	TM176	<1	#				
2-Nitrophenol (aq)	<1 µg/l	TM176	<1	#				
3-Nitroaniline (aq)	<1 µg/l	TM176	<1	#				
4-Bromophenylphenylether (aq)	<1 µg/l	TM176	<1	#				
4-Chloro-3-methylphenol (aq)	<1 µg/l	TM176	<1	#				
4-Chloroaniline (aq)	<1 µg/l	TM176	<1	#				
4-Chlorophenylphenylether (aq)	<1 µg/l	TM176	<1	#				
4-Methylphenol (aq)	<1 µg/l	TM176	<1	#				
4-Nitroaniline (aq)	<1 µg/l	TM176	<1	#				
4-Nitrophenol (aq)	<1 µg/l	TM176	<1	#				
Azobenzene (aq)	<1 µg/l	TM176	<1	#				
Acenaphthylene (aq)	<1 µg/l	TM176	<1	#				
Acenaphthene (aq)	<1 µg/l	TM176	<1	#				
Anthracene (aq)	<1 µg/l	TM176	<1	#				
bis(2-Chloroethyl)ether (aq)	<1 µg/l	TM176	<1	#				
bis(2-Chloroethoxy)methane (aq)	<1 µg/l	TM176	<1	#				
bis(2-Ethylhexyl) phthalate (aq)	<2 µg/l	TM176	<2	#				
Butylbenzyl phthalate (aq)	<1 µg/l	TM176	<1	#				
Benzo(a)anthracene (aq)	<1 µg/l	TM176	<1	#				



CERTIFICATE OF ANALYSIS

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Client Ref.: 25/4047

Report Number: 762732
Location: LHR042 Thorney Lane DC1

Superseded Report: 762598

SVOC MS (W) - Aqueous

Results Legend			Customer Sample Ref.		Canal 3 (Round 1)			
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		Surface Water (SW) 31/03/2025 01/04/2025 250401-42 31309843 EW1AA			
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*§@ Sample deviation (see appendix)								
Component	LOD/Units	Method						
Benzo(b)fluoranthene (aq)	<1 µg/l	TM176	<1	#				
Benzo(k)fluoranthene (aq)	<1 µg/l	TM176	<1	#				
Benzo(a)pyrene (aq)	<1 µg/l	TM176	<1	#				
Benzo(g,h,i)perylene (aq)	<1 µg/l	TM176	<1	#				
Carbazole (aq)	<1 µg/l	TM176	<1	#				
Chrysene (aq)	<1 µg/l	TM176	<1	#				
Dibenzofuran (aq)	<1 µg/l	TM176	<1	#				
n-Dibutyl phthalate (aq)	<1 µg/l	TM176	<1	#				
Diethyl phthalate (aq)	<1 µg/l	TM176	<1	#				
Dibenzo(a,h)anthracene (aq)	<1 µg/l	TM176	<1	#				
Dimethyl phthalate (aq)	<1 µg/l	TM176	<1	#				
n-Dioctyl phthalate (aq)	<5 µg/l	TM176	<5	#				
Fluoranthene (aq)	<1 µg/l	TM176	<1	#				
Fluorene (aq)	<1 µg/l	TM176	<1	#				
Hexachlorobenzene (aq)	<1 µg/l	TM176	<1	#				
Hexachlorobutadiene (aq)	<1 µg/l	TM176	<1	#				
Pentachlorophenol (aq)	<1 µg/l	TM176	<1					
Phenol (aq)	<1 µg/l	TM176	<1					
n-Nitroso-n-dipropylamine (aq)	<1 µg/l	TM176	<1	#				
Hexachloroethane (aq)	<1 µg/l	TM176	<1	#				
Nitrobenzene (aq)	<1 µg/l	TM176	<1	#				
Naphthalene (aq)	<1 µg/l	TM176	<1	#				
Isophorone (aq)	<1 µg/l	TM176	<1	#				
Hexachlorocyclopentadiene (aq)	<1 µg/l	TM176	<1					
Phenanthrene (aq)	<1 µg/l	TM176	<1	#				
Indeno(1,2,3-cd)pyrene (aq)	<1 µg/l	TM176	<1	#				
Pyrene (aq)	<1 µg/l	TM176	<1	#				



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SDG: 250401-42
Client Ref.: 25/4047

Report Number: 762732
Location: LHR042 Thorney Lane DC1

Superseded Report: 762598

VOC MS (W)

Results Legend			Customer Sample Ref.		Attenuation Pond (Round 1)	BH25-05	Canal 3 (Round 1)	DS25-06	DS25-08	DS25-09
# ISO17025 accredited.	M mCERTS accredited.	aq Aqueous / settled sample.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		Surface Water (SW) 31/03/2025	Ground Water (GW) 31/03/2025	Surface Water (SW) 31/03/2025	Ground Water (GW) 31/03/2025	Ground Water (GW) 31/03/2025	Ground Water (GW) 31/03/2025
diss.filt Dissolved / filtered sample.	tot.unfilt Total / unfiltered sample.	* Subcontracted - refer to subcontractor report for accreditation status.			01/04/2025 250401-42 31309845 EW1AA	01/04/2025 250401-42 31309841 EW2A	01/04/2025 250401-42 31309843 EW1AA	01/04/2025 250401-42 31309842 EW2A	01/04/2025 250401-42 31309840 EW2A	01/04/2025 250401-42 31309846 EW2A
** % 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								
Dibromofluoromethane**	%	TM208					103			
Toluene-d8**	%	TM208			96.2	97.6	96.7	96.5	96.6	97.3
4-Bromofluorobenzene**	%	TM208					95.2			
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	#	<1	#	<1	#	<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	#	1.37	#	<1	#	<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	#	2.64	#	<1	#	<1	#
trans-1,3-Dichloropropene	<1 µg/l	TM208					<1			
1,1,2-Trichloroethane	<1 µg/l	TM208					<1			
1,3-Dichloropropane	<1 µg/l	TM208					<1			



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SDG: 250401-42
Client Ref.: 25/4047

Report Number: 762732
Location: LHR042 Thorney Lane DC1

Superseded Report: 762598

VOC MS (W)

Results Legend			Customer Sample Ref.		Attenuation Pond (Ro und 1)	BH25-05	Canal 3 (Round 1)	DS25-06	DS25-08	DS25-09
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		Surface Water (SW)	Ground Water (GW)	Surface Water (SW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)
m	mCERTS accredited.				31/03/2025	31/03/2025	31/03/2025	31/03/2025	31/03/2025	31/03/2025
aq	Aqueous / settled sample.									
diss.filt	Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.					01/04/2025	01/04/2025	01/04/2025	01/04/2025	01/04/2025	01/04/2025
** % 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					250401-42	250401-42	250401-42	250401-42	250401-42	250401-42
*** 6:2 FTAB (see appendix)					31309845	31309841	31309843	31309842	31309840	31309846
1-4* @ Sample deviation (see appendix)					EW1AA	EW2A	EW1AA	EW2A	EW2A	EW2A
Component	LOD/Units	Method								
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	<1	<1	<1	<1	<1
					#	#	#	#	#	#
m,p-Xylene	<1 µg/l	TM208			<1	1.39	<1	<1	<1	<1
					#	#	#	#	#	#
o-Xylene	<1 µg/l	TM208			<1	1.08	<1	<1	<1	<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			
							#			
1,2,3-Trichlorobenzene	<1 µg/l	TM208					<1			
							#			
1,3,5-Trichlorobenzene	<1 µg/l	TM208					<1			
							#			

SDG: 250401-42

Report Number: 762732

Superseded Report: 762598

Client Ref.: 25/4047

Location: LHR042 Thorney Lane DC1

VOC MS (W)[illegible]



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Report Number: 762732
Location: LHR042 Thorney Lane DC1

Superseded Report: 762598

Table of Results - Appendix

Method No	Description
TM178	Determination of Polynuclear Aromatic Hydrocarbons (PAH) by GC-MS in Waters
TM331	Low Level Hexavalent Chromium
TM439	Determination of Extractable Petroleum Hydrocarbons (EPH) CWG banding by GC-FID on liquids
TM090	Determination of Total Organic Carbon/Total Inorganic Carbon in Water and Waste Water
TM099	Determination of Ammonium in Water Samples using the Kone Analyser
TM176	Determination of SVOCs in Water by GCMS
TM259	Determination of Phenols in Waters and Leachates by HPLC
TM152	Analysis of Aqueous Samples by ICP-MS
TM208	Determination of Volatile Organic Compounds by Headspace / GC-MS in Waters
TM227	Determination of Total Cyanide, Free (Easily Liberatable) Cyanide and Thiocyanate
TM256	Determination of pH, EC, TDS and Alkalinity in Aqueous samples
TM183	Determination of Trace Level Mercury in Waters and Leachates by PSA Cold Vapour Atomic Fluorescence Spectrometry
TM184	The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers
TM245	Determination of GRO by Headspace in waters
TM434	Analysis of PFAS

NA = not applicable.

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



CERTIFICATE OF ANALYSIS

Validated

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Test Completion Dates

Lab Sample No(s)
Customer Sample Ref.

AGS Ref.
Depth
Type

	31309845	31309841	31309843	31309842	31309840	31309846
	Attenuation Pond (Round 1)	BH25-05	Canal 3 (Round 1)	DS25-06	DS25-08	DS25-09
	EW1AA	EW2A	EW1AA	EW2A	EW2A	EW2A
	Surface Water	Ground Water	Surface Water	Ground Water	Ground Water	Ground Water
Ammoniacal Nitrogen	02-Apr-2025	03-Apr-2025	02-Apr-2025	02-Apr-2025	02-Apr-2025	02-Apr-2025
Anions by Kone (w)	02-Apr-2025	02-Apr-2025	02-Apr-2025	02-Apr-2025	02-Apr-2025	02-Apr-2025
Cyanide Comp/Free/Total/Thiocyanate	03-Apr-2025	03-Apr-2025	03-Apr-2025	03-Apr-2025	03-Apr-2025	03-Apr-2025
Dissolved Metals by ICP-MS	03-Apr-2025	03-Apr-2025	03-Apr-2025	03-Apr-2025	03-Apr-2025	03-Apr-2025
Dissolved Organic/Inorganic Carbon	03-Apr-2025	03-Apr-2025	03-Apr-2025	03-Apr-2025	03-Apr-2025	03-Apr-2025
EPH and CWG by FID	07-Apr-2025	07-Apr-2025	07-Apr-2025	07-Apr-2025	07-Apr-2025	07-Apr-2025
GRO by GC-FID (W)	04-Apr-2025	04-Apr-2025	04-Apr-2025	04-Apr-2025	04-Apr-2025	04-Apr-2025
Low Level Hexavalent Chromium (w)	07-Apr-2025	07-Apr-2025	07-Apr-2025	07-Apr-2025	07-Apr-2025	07-Apr-2025
Mercury Dissolved	07-Apr-2025	07-Apr-2025	07-Apr-2025	07-Apr-2025	07-Apr-2025	07-Apr-2025
PAH Spec MS - Aqueous (W)	07-Apr-2025	07-Apr-2025	07-Apr-2025	07-Apr-2025	07-Apr-2025	07-Apr-2025
PFAS Liquids (Full Suite)	16-Apr-2025	16-Apr-2025	22-Apr-2025	16-Apr-2025	22-Apr-2025	16-Apr-2025
pH Value	07-Apr-2025	07-Apr-2025	07-Apr-2025	07-Apr-2025	07-Apr-2025	07-Apr-2025
Phenols by HPLC (W)	07-Apr-2025	07-Apr-2025	07-Apr-2025	07-Apr-2025	07-Apr-2025	07-Apr-2025
SVOC MS (W) - Aqueous			09-Apr-2025			
Total Metals by ICP-MS	03-Apr-2025	03-Apr-2025	03-Apr-2025	03-Apr-2025	03-Apr-2025	03-Apr-2025
TPH CWG (W)	07-Apr-2025	07-Apr-2025	07-Apr-2025	07-Apr-2025	07-Apr-2025	07-Apr-2025
VOC MS (W)	08-Apr-2025	08-Apr-2025	08-Apr-2025	08-Apr-2025	08-Apr-2025	08-Apr-2025



CERTIFICATE OF ANALYSIS

SDG: 250401-42
Client Ref: 25/4047

Report Number: 762732
Location: LHR042 Thorney Lane DC1

Superseded Report: 762598

Appendix

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.

General

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 Anthophyllite	-
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.



Unit 7-8 Hawarden Business Park
Manor Road (off Manor Lane)
Hawarden
Deeside
CH5 3US

Tel: (01244) 528777
email: hawardencustomerservices@alsglobal.com
Website: www.alsenvironmental.co.uk

Concept Engineering Consultants Ltd
218 Northfields Road
London
W13 9SJ

Attention: Gabriela Mandache

CERTIFICATE OF ANALYSIS

Date of report Generation:	12 May 2025
Customer:	Concept Engineering Consultants Ltd
Sample Delivery Group (SDG):	250402-101
Your Reference:	25/4047
Location:	LHR042 Thorney Lane DC1
Report No:	764454
Order Number:	105348 (CL6864)

This report has been revised and directly supersedes 762733 in its entirety.

We received 12 samples on Wednesday April 02, 2025 and 12 of these samples were scheduled for analysis which was completed on Tuesday April 22, 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





CERTIFICATE OF ANALYSIS

Validated

SDG: 250402-101
Client Ref.: 25/4047

Report Number: 764454
Location: LHR042 Thorney Lane DC1

Superseded Report: 762733

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
31318359	BH25-03	EW2A		01/04/2025
31318355	BH25-04	EW2A		01/04/2025
31318769	Canal 2	EW2A		01/04/2025
31318768	Canal 3	EW2A		01/04/2025
31318767	Drainage 1 (Round 1)	EW1AA		01/04/2025
31318352	DS25-02	EW2A		01/04/2025
31318353	DS25-03	EW2A		01/04/2025
31318354	DS25-04	EW2A		01/04/2025
31318351	DS25-05	EW2A		01/04/2025
31318360	DS25-07	EW2A		01/04/2025
31318357	DS25-10	EW2A		01/04/2025
31318358	DS25-11	EW1A		01/04/2025

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

SDG: 250402-101
Client Ref.: 25/4047

Report Number: 764454

Superseded Report: 762733

Location: LHR042 Thorney Lane DC1

Results Legend X Test N No Determination Possible 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)																						31318355	31318359
	Customer Sample Reference																						BH25-04	Canal 2
	AGS Reference																						EW2A	EW2A
	Depth (m)																							
	Container		0.5l glass bottle (ALE227)	250ml Amber Gl. PTFE/PE (ALE219)	500ml Plastic (ALE208)	Digitube fo PFAS analysis.	H2SO4 (ALE244)	HNO3 Filtered (ALE204)	HNO3 Unfiltered (ALE204)	NaOH (ALE245)	Vial (ALE297)	0.5l glass bottle (ALE227)	250ml Amber Gl. PTFE/PE (ALE219)	500ml Plastic (ALE208)	Digitube fo PFAS analysis.	H2SO4 (ALE244)	HNO3 Filtered (ALE204)	HNO3 Unfiltered (ALE204)	NaOH (ALE245)	Vial (ALE297)	0.5l glass bottle (ALE227)	SW		
	Sample Type		CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	SW	
Ammoniacal Nitrogen	All	NDPs: 0 Tests: 12					X								X									
Anions by Kone (w)	All	NDPs: 0 Tests: 12			X								X											
Cyanide Comp/Free/Total/Thiocyanate	All	NDPs: 0 Tests: 12							X									X						
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 12						X									X							
Dissolved Organic/Inorganic Carbon	All	NDPs: 1 Tests: 11	X									X										X		
EPH and CWG by FID	All	NDPs: 0 Tests: 12	X									X										X		
GRO by GC-FID (W)	All	NDPs: 0 Tests: 12								X										X				
Low Level Hexavalent Chromium (w)	All	NDPs: 0 Tests: 12			X								X											
Mercury Dissolved	All	NDPs: 0 Tests: 12						X									X							
PAH Spec MS - Aqueous (W)	All	NDPs: 0 Tests: 12		X									X											
PFAS Liquids (Full Suite)	All	NDPs: 0 Tests: 12				X								X										
pH Value	All	NDPs: 0 Tests: 12			X								X											
Phenols by HPLC (W)	All	NDPs: 0 Tests: 12					X									X								
SVOC MS (W) - Aqueous	All	NDPs: 0 Tests: 1																						
Total Metals by ICP-MS	All	NDPs: 0 Tests: 12								X								X						

SDG: 250402-101

Report Number: 764454

Superseded Report: 762733

Client Ref.: 25/4047

Location: LHR042 Thorney Lane DC1

Results Legend	Lab Sample No(s)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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SL - Sludge																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
G - Gas																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
OTH - Other																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
TPH CWG (W)			All	NDPs: 0 Tests: 12	X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																

31318767	Drainage 1 (Round 1)	EW1AA		Digitube fo PFAS analysis.	CW			
31318768	Canal 3	EW2A		500ml Plastic (ALE208)	CW			
				250ml Amber Gl. PTFE/PE (ALE219)	CW			
				0.5l glass bottle (ALE227)	CW	X		
				Vial (ALE297)	SW		X	
				NaOH (ALE245)	SW			
				HNO3 Unfiltered (ALE204)	SW			
				HNO3 Filtered (ALE204)	SW			
				H2SO4 (ALE244)	SW			
				Digitube fo PFAS analysis.	SW			
				500ml Plastic (ALE208)	SW			
31318769	Canal 2	EW2A		250ml Amber Gl. PTFE/PE (ALE219)	SW			
				0.5l glass bottle (ALE227)	SW	X		
				Vial (ALE297)	SW		X	
				NaOH (ALE245)	SW			
				HNO3 Unfiltered (ALE204)	SW			
				HNO3 Filtered (ALE204)	SW			
				H2SO4 (ALE244)	SW			
				Digitube fo PFAS analysis.	SW			
				500ml Plastic (ALE208)	SW			
				250ml Amber Gl. PTFE/PE (ALE219)	SW			



CERTIFICATE OF ANALYSIS

Validated

SDG: 250402-101
Client Ref.: 25/4047

Report Number: 764454
Location: LHR042 Thorney Lane DC1

Superseded Report: 762733

Results Legend X Test N No Determination Possible 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)		31318767		31318352		31318353	
	Customer Sample Reference		Drainage 1 (Round 1)		DS25-02		DS25-03	
	AGS Reference		EW1AA		EW2A		EW2A	
	Depth (m)							
	Container		H2SO4 (ALE244)	Digitube to PFAS analysis.	500ml Plastic (ALE208)	250ml Amber Gl. PTFE/PE (ALE219)	0.5l glass bottle (ALE227)	Vial (ALE297)
	Sample Type		NaOH (ALE245)	HNO3 Unfiltered (ALE204)	HNO3 Filtered (ALE204)	H2SO4 (ALE244)	Digitube to PFAS analysis.	500ml Plastic (ALE208)
			GW	GW	GW	GW	GW	GW
Ammoniacal Nitrogen	All	NDPs: 0 Tests: 12	X				X	
Anions by Kone (w)	All	NDPs: 0 Tests: 12						X
Cyanide Comp/Free/Total/Thiocyanate	All	NDPs: 0 Tests: 12		X				X
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 12	X				X	
Dissolved Organic/Inorganic Carbon	All	NDPs: 1 Tests: 11				X		X
EPH and CWG by FID	All	NDPs: 0 Tests: 12				X		X
GRO by GC-FID (W)	All	NDPs: 0 Tests: 12			X			X
Low Level Hexavalent Chromium (w)	All	NDPs: 0 Tests: 12					X	
Mercury Dissolved	All	NDPs: 0 Tests: 12				X		X
PAH Spec MS - Aqueous (W)	All	NDPs: 0 Tests: 12	X				X	
PFAS Liquids (Full Suite)	All	NDPs: 0 Tests: 12				X		X
pH Value	All	NDPs: 0 Tests: 12				X		X
Phenols by HPLC (W)	All	NDPs: 0 Tests: 12	X				X	X
Total Metals by ICP-MS	All	NDPs: 0 Tests: 12		X			X	
TPH CWG (W)	All	NDPs: 0 Tests: 12				X		X



CERTIFICATE OF ANALYSIS

Validated

SDG: 250402-101
Client Ref.: 25/4047

Report Number: 764454
Location: LHR042 Thorney Lane DC1

Superseded Report: 762733

Results Legend



Test



No Determination Possible

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

VOC MS (W)

Lab Sample No(s)

Customer Sample Reference

AGS Reference

Depth (m)

Container

Sample Type

31318767

Drainage 1 (Round 1)

EW1AA

H2SO4 (ALE244)
Digitube fo PFAS analysis.
500ml Plastic (ALE208)
250ml Amber Gl. PTFE/PE (ALE219)
0.5l glass bottle (ALE227)
Vial (ALE297)
NaOH (ALE245)
HNO3 Unfiltered (ALE204)
HNO3 Filtered (ALE204)
H2SO4 (ALE244)

X

31318352

DS25-02

EW2A

H2SO4 (ALE244)
Digitube fo PFAS analysis.
500ml Plastic (ALE208)
250ml Amber Gl. PTFE/PE (ALE219)
0.5l glass bottle (ALE227)
Vial (ALE297)
NaOH (ALE245)
HNO3 Unfiltered (ALE204)
HNO3 Filtered (ALE204)
H2SO4 (ALE244)

X

31318353

DS25-03

EW2A

H2SO4 (ALE244)
Digitube fo PFAS analysis.
500ml Plastic (ALE208)
250ml Amber Gl. PTFE/PE (ALE219)
0.5l glass bottle (ALE227)
Vial (ALE297)
NaOH (ALE245)
HNO3 Unfiltered (ALE204)
HNO3 Filtered (ALE204)
H2SO4 (ALE244)

X

31318351	DS25-05	EW2A		NaOH (ALE245)	GW		
				HNO3 Unfiltered (ALE204)	GW		
				HNO3 Filtered (ALE204)	GW		
				H2SO4 (ALE244)	GW		
				Digitube fo PFAS analysis.	GW		
				500ml Plastic (ALE208)	GW		
				250ml Amber Gl. PTFE/PE (ALE219)	GW		
				0.5l glass bottle (ALE227)	GW		
				Vial (ALE297)	GW	X	
				NaOH (ALE245)	GW		
31318354	DS25-04	EW2A		HNO3 Unfiltered (ALE204)	GW		
				HNO3 Filtered (ALE204)	GW		
				H2SO4 (ALE244)	GW		
				Digitube fo PFAS analysis.	GW		
				500ml Plastic (ALE208)	GW		
				250ml Amber Gl. PTFE/PE (ALE219)	GW		
				0.5l glass bottle (ALE227)	GW		
				Vial (ALE297)	GW		
				NaOH (ALE245)	GW		
				HNO3 Unfiltered (ALE204)	GW		
31318353	DS25-03	EW2A		HNO3 Filtered (ALE204)	GW		
				H2SO4 (ALE244)	GW		
				Digitube fo PFAS analysis.	GW		
				500ml Plastic (ALE208)	GW		
				250ml Amber Gl. PTFE/PE (ALE219)	GW		
				0.5l glass bottle (ALE227)	GW		
				Vial (ALE297)	GW	X	
				NaOH (ALE245)	GW		
				HNO3 Unfiltered (ALE204)	GW		
				HNO3 Filtered (ALE204)	GW		

SDG: 250402-101
Client Ref.: 25/4047

Report Number: 764454

Superseded Report: 762733

Location: LHR042 Thorney Lane DC1

Results Legend



Test



No Determination Possible

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

[illegible]



CERTIFICATE OF ANALYSIS

Validated

SDG: 250402-101
Client Ref.: 25/4047

Report Number: 764454
Location: LHR042 Thorney Lane DC1

Superseded Report: 762733

Results Legend



Test



No Determination Possible

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)

Customer Sample Reference

AGS Reference

Depth (m)

Container

Sample Type

VOC MS (W)

All

NDPs: 0
Tests: 12

31318351

DS25-05

EW2A

Vial (ALE297)
Vial (ALE297)

GW

X

31318360

DS25-07

EW2A

Vial (ALE297)
Vial (ALE297)

GW

X

31318357

DS25-10

EW2A

Vial (ALE297)
Vial (ALE297)

GW

X

NaOH (ALE245)

GW

HNO3 Unfiltered (ALE204)

GW

HNO3 Filtered (ALE204)

GW

H2SO4 (ALE244)

GW

Digitube for PFAS analysis.

GW

500ml Plastic (ALE208)

GW

250ml Amber Gl. PTFE/PE (ALE219)

GW

0.5l glass bottle (ALE227)

GW

NaOH (ALE245)

GW

HNO3 Unfiltered (ALE204)

GW

HNO3 Filtered (ALE204)

GW

H2SO4 (ALE244)

GW

Digitube for PFAS analysis.

GW

500ml Plastic (ALE208)

GW

250ml Amber Gl. PTFE/PE (ALE219)

GW

0.5l glass bottle (ALE227)

GW

Vial (ALE297)

GW

31318358	DS25-11	EW1A		Vial (ALE297)	GW		X
				NaOH (ALE245)	GW		
				HNO3 Unfiltered (ALE204)	GW		
				HNO3 Filtered (ALE204)	GW		
				H2SO4 (ALE244)	GW		
				Digitube fo PFAS analysis.	GW		
				500ml Plastic (ALE208)	GW		
				250ml Amber Gl. PTFE/PE (ALE219)	GW		
				0.5l glass bottle (ALE227)	GW		



CERTIFICATE OF ANALYSIS

Validated

SDG: 250402-101
Client Ref.: 25/4047

Report Number: 764454
Location: LHR042 Thorney Lane DC1

Superseded Report: 762733

Results Legend			Customer Sample Ref.		BH25-03	BH25-04	Canal 2	Canal 3	Drainage 1 (Round 1)	DS25-02
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		Ground Water (GW)	Ground Water (GW)	Surface Water (SW)	Surface Water (SW)	Ground Water (GW)	Ground Water (GW)
M	mCERTS accredited.				01/04/2025	01/04/2025	01/04/2025	01/04/2025	01/04/2025	01/04/2025
aq	Aqueous / settled sample.				02/04/2025	02/04/2025	02/04/2025	02/04/2025	02/04/2025	02/04/2025
diss.filt	Dissolved / filtered sample.				250402-101	250402-101	250402-101	250402-101	250402-101	250402-101
tot.unfilt	Total / unfiltered sample.				31318359	31318355	31318769	31318768	31318767	31318352
* Subcontracted - refer to subcontractor report for accreditation status.					EW2A	EW2A	EW2A	EW2A	EW1AA	EW2A
** % 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								
Carbon, Organic (diss.filt)	<3 mg/l	TM090			11.2	8.24	5.73	6.67		7.05
Ammoniacal Nitrogen as N	<0.2 mg/l	TM099			0.772	<0.2	<0.2	<0.2	3.6	<0.2
Ammoniacal Nitrogen as NH3	<0.2 mg/l	TM099								
Antimony (diss.filt)	<1 µg/l	TM152			<1	<1	2.11	2.22	1.04	1.28
Arsenic (diss.filt)	<0.5 µg/l	TM152			9.24	0.723	1.55	1.71	1.62	7.32
Beryllium (diss.filt)	<0.1 µg/l	TM152			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (diss.filt)	<0.08 µg/l	TM152			<0.08	0.15	<0.08	<0.08	<0.08	<0.08
Chromium (diss.filt)	<1 µg/l	TM152			<1	<1	<1	<1	1.37	<1
Copper (diss.filt)	<0.3 µg/l	TM152			<0.3	2.57	3.09	2.67	5.96	2.5
Lead (diss.filt)	<0.2 µg/l	TM152			<0.2	0.46	0.294	0.429	0.423	0.561
Manganese (diss.filt)	<3 µg/l	TM152			3340	2880	11.2	92.3	430	12.3
Nickel (diss.filt)	<0.4 µg/l	TM152			26.7	8.6	5.07	5.44	26.3	1.93
Selenium (diss.filt)	<1 µg/l	TM152			<1	<1	<1	<1	<1	1.45
Vanadium (diss.filt)	<1 µg/l	TM152			<1	<1	<1	<1	6.28	15.4
Zinc (diss.filt)	<1 µg/l	TM152			5.32	6.58	13.8	13.2	20.6	5.58
Calcium (Dis.Filt)	<0.2 mg/l	TM152			171	137	110	114	77.6	28.1
Hardness, Total as CaCO3 unfiltered	<0.35 mg/l	TM152			501	406	352	449	232	75.6
Mercury (diss.filt)	<0.01 µg/l	TM183			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chloride	<2 mg/l	TM184			41.2	65.3	57.5	51.2	51.6	31.1
Cyanide, Total	<0.05 mg/l	TM227			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
pH	<1 pH Units	TM256			7.28	6.99	7.88	7.6	7.61	9.23
Phenol	<0.002 mg/l	TM259			<0.002	<0.002	<0.002	<0.002	0.48	<0.002
Cresols	<0.006 mg/l	TM259			<0.006	<0.006	<0.006	<0.006	0.19	<0.006
Xylenols	<0.008 mg/l	TM259			<0.008	<0.008	<0.008	<0.008	0.03	<0.008
Phenols, Total Detected monohydric	<0.016 mg/l	TM259			<0.016	<0.016	<0.016	<0.016	0.7	<0.016
Low Level Hexavalent Chromium	<0.003 mg/l	TM331			<0.003	<0.003	<0.003	<0.003	<0.015	0.00336
PFBA (375-22-4)	<2 ng/l	TM434			25.9	178	19.5	17.6	<10	21.6
PFMOPra (377-73-1)	<1 ng/l	TM434			<5	<1	<1	<5	<5	<1
3:3 FTCA (356-02-5)	<2 ng/l	TM434			<10	<2	<2	<10	<10	<2
PFPA (2706-90-3)	<1 ng/l	TM434			46.4	159	11.3	15.3	<5	<1
PFMOBA (863090-89-5)	<1 ng/l	TM434			<5	<1	<1	<5	<5	<1
4:2 FTS (757124-72-4)	<1 ng/l	TM434			<5	<1	<1	<5	<5	<1
NFDHA (151772-58-6)	<3 ng/l	TM434			<15	<3	<3	<15	<15	<3



CERTIFICATE OF ANALYSIS

Validated

SDG: 250402-101
Client Ref.: 25/4047

Report Number: 764454
Location: LHR042 Thorney Lane DC1

Superseded Report: 762733

Results Legend			Customer Sample Ref.	BH25-03	BH25-04	Canal 2	Canal 3	Drainage 1 (Round 1)	DS25-02
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		Ground Water (GW)	Ground Water (GW)	Surface Water (SW)	Surface Water (SW)	Ground Water (GW)	Ground Water (GW)
M	mCERTS accredited.			01/04/2025	01/04/2025	01/04/2025	01/04/2025	01/04/2025	01/04/2025
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**@ Sample deviation (see appendix)									
Component	LOD/Units	Method							
PFBS (375-73-5)	<1 ng/l	TM434	18.1	74.4	5.22	8.4	<5	6.13	
			#	#	#	#	4 #	#	
PFHxA (307-24-4)	<1 ng/l	TM434	33.4	250	9.79	14.3	<5	19	
			#	#	#	#	4 #	#	
HFPO-DA (13252-13-6)	<2 ng/l	TM434	<10	<2	<2	<10	<10	<2	
			#	#	#	#	4 #	#	
PFEESA (113507-82-7)	<1 ng/l	TM434	<5	<1	<1	<5	<5	<1	
			#	#	#	#	4 #	#	
PFHpA (375-85-9)	<1 ng/l	TM434	17.6	236	6.46	8.52	<5	14	
			#	#	#	#	4 #	#	
PFPeS (2706-91-4)	<1 ng/l	TM434	<5	62.7	<1	<5	<5	<1	
			#	#	#	#	4 #	#	
5:3 FTCA (914637-49-3)	<5 ng/l	TM434	<25	<5	<5	<25	<25	<5	
			#	#	#	#	4 #	#	
ADONA (919005-14-4)	<1 ng/l	TM434	<5	<1	<1	<5	<5	<1	
			#	#	#	#	4 #	#	
6:2 FTS (27619-97-2)	<1 ng/l	TM434	<5	<1	<1	<5	157	<1	
			#	#	#	#	4 #	#	
FBSA (30334-69-1)	<1 ng/l	TM434	6.92	1.28	<1	<5	<5	1.9	
			#	#	#	#	4 #	#	
PFOA (335-67-1)	<0.65 ng/l	TM434	27.5	479	11.4	15.3	<3.25	26.9	
			#	#	#	#	4 #	#	
PFHxS (355-46-4)	<1 ng/l	TM434	68.3	198	10.2	15	<5	4.34	
			#	#	#	#	4 #	#	
PFNA (375-95-1)	<1 ng/l	TM434	<5	1.75	<1	<5	<5	3.15	
			#	#	#	#	4 #	#	
PFecHS (133201-07-7)	<1 ng/l	TM434	<5	5.33	1.47	<5	<5	2.68	
			#	#	#	#	4 #	#	
PFHpS (375-92-8)	<1 ng/l	TM434	<5	1.73	<1	<5	<5	<1	
			#	#	#	#	4 #	#	
8:2 FTS (39108-34-4)	<2 ng/l	TM434	<10	<2	<2	<10	<10	<2	
			#	#	#	#	4 #	#	
HFPO-TA (13252-14-7)	<5 ng/l	TM434	<25	<5	<5	<25	<25	<5	
			#	#	#	#	4 #	#	
PFDA (335-76-2)	<2 ng/l	TM434	<10	<2	<2	<10	<10	2.22	
			#	#	#	#	4 #	#	
MeFOSAA (2355-31-9)	<2 ng/l	TM434	<10	<2	<2	<10	<10	<2	
			◆ #	◆ #	◆ #	◆ #	4 ◆ #	◆ #	
7:3 FTCA (812-70-4)	<5 ng/l	TM434	<25	<5	<5	<25	<25	<5	
			#	#	#	#	4 #	#	
Linear PFOS (1763-23-1)	<0.65 ng/l	TM434	29.4	9.97	4.83	10	<3.25	9.75	
			#	#	#	#	4 #	#	
Branched PFOS	<0.65 ng/l	TM434	27	10.3	8.35	15.4	<3.25	8.72	
			#	#	#	#	4 #	#	
EtFOSAA (2991-50-6)	<2 ng/l	TM434	<10	<2	<2	<10	<10	<2	
			◆ #	◆ #	◆ #	◆ #	4 ◆ #	◆ #	
PFUnA (2058-94-8)	<2 ng/l	TM434	<10	<2	<2	<10	<10	<2	
			#	#	#	#	4 #	#	
9CI-PF3ONS (756426-58-1)	<1 ng/l	TM434	<5	<1	<1	<5	<5	<1	
			#	#	#	#	4 #	#	
PFNS (68259-12-1)	<1 ng/l	TM434	<5	<1	<1	<5	<5	<1	
			#	#	#	#	4 #	#	
FHxSA (41997-13-1)	<1 ng/l	TM434	<5	<1	1.36	<5	<5	<1	
			#	#	#	#	4 #	#	
PFDoA (307-55-1)	<2 ng/l	TM434	<10	<2	<2	<10	<10	<2	
			#	#	#	#	4 #	#	
PFDS (335-77-3)	<2 ng/l	TM434	<10	<2	<2	<10	<10	<2	
			#	#	#	#	4 #	#	
PFTrDA (72629-94-8)	<3 ng/l	TM434	<15	<3	<3	<15	<15	<3	
			#	#	#	#	4 #	#	
11CI-PF3OUdS (763051-92-9)	<2 ng/l	TM434	<10	<2	<2	<10	<10	<2	
			#	#	#	#	4 #	#	
PFUnDS (749786-16-1)	<2 ng/l	TM434	<10	<2	<2	<10	<10	<2	
			#	#	#	#	4 #	#	
PFTeA (376-06-7)	<1 ng/l	TM434	<5	<1	<1	<5	<5	<1	
			#	#	#	#	4 #	#	



CERTIFICATE OF ANALYSIS

Validated

SDG: 250402-101
Client Ref.: 25/4047

Report Number: 764454
Location: LHR042 Thorney Lane DC1

Superseded Report: 762733

Results Legend			Customer Sample Ref.		DS25-03	DS25-04	DS25-05	DS25-07	DS25-10	DS25-11
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)
M	mCERTS accredited.				01/04/2025	01/04/2025	01/04/2025	01/04/2025	01/04/2025	01/04/2025
aq	Aqueous / settled sample.				02/04/2025	02/04/2025	02/04/2025	02/04/2025	02/04/2025	02/04/2025
diss.filt	Dissolved / filtered sample.				250402-101	250402-101	250402-101	250402-101	250402-101	250402-101
tot.unfilt	Total / unfiltered sample.				31318353	31318354	31318351	31318360	31318357	31318358
* Subcontracted - refer to subcontractor report for accreditation status.					EW2A	EW2A	EW2A	EW2A	EW2A	EW1A
** % 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								
Carbon, Organic (diss.filt)	<3 mg/l	TM090			11.3	12.8	4.27	12.5	14.6	13.7
Ammoniacal Nitrogen as N	<0.2 mg/l	TM099			1.87	3.99	0.463	4.05	7.82	8.29
Ammoniacal Nitrogen as NH3	<0.2 mg/l	TM099			#	#	#	#	#	#
Antimony (diss.filt)	<1 µg/l	TM152			2.27	4.85	0.562	4.91	9.5	10.1
Arsenic (diss.filt)	<0.5 µg/l	TM152			#	#	#	#	#	#
Beryllium (diss.filt)	<0.1 µg/l	TM152			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (diss.filt)	<0.08 µg/l	TM152			#	#	#	#	#	#
Chromium (diss.filt)	<1 µg/l	TM152			<0.08	<0.08	<0.08	<0.08	<0.08	<0.08
Copper (diss.filt)	<0.3 µg/l	TM152			#	#	#	#	#	#
Lead (diss.filt)	<0.2 µg/l	TM152			<1	4.69	<1	<1	<1	<1
Manganese (diss.filt)	<3 µg/l	TM152			#	#	#	#	#	#
Nickel (diss.filt)	<0.4 µg/l	TM152			3.29	3.07	2.25	2.51	0.301	1.3
Selenium (diss.filt)	<1 µg/l	TM152			#	#	#	#	#	#
Vanadium (diss.filt)	<1 µg/l	TM152			1.45	4.19	<0.2	0.318	0.505	9.69
Zinc (diss.filt)	<1 µg/l	TM152			#	#	#	#	#	#
Calcium (Dis.Filt)	<0.2 mg/l	TM152			1770	16.2	415	3.71	207	244
Hardness, Total as CaCO3 unfiltered	<0.35 mg/l	TM152			#	#	#	#	#	#
Mercury (diss.filt)	<0.01 µg/l	TM183			6.06	3.91	3.52	6.95	33.5	33.7
Chloride	<2 mg/l	TM184			#	#	#	#	#	#
Cyanide, Total	<0.05 mg/l	TM227			<1	<1	<1	2.67	<1	<1
pH	<1 pH Units	TM256			#	#	#	#	#	#
Phenol	<0.002 mg/l	TM259			<1 µg/l	16.6	<1	25.9	2.44	2.44
Cresols	<0.006 mg/l	TM259			#	#	#	#	#	#
Xylenols	<0.008 mg/l	TM259			<1 µg/l	9.68	17.3	2.12	1.6	9.02
Phenols, Total Detected monohydric	<0.016 mg/l	TM259			#	#	#	#	#	#
Low Level Hexavalent Chromium	<0.003 mg/l	TM331			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
PFBA (375-22-4)	<2 ng/l	TM434			#	#	#	#	#	#
PFMOPra (377-73-1)	<1 ng/l	TM434			131	42.4	90.1	44.8	45.8	48.6
3:3 FTCA (356-02-5)	<2 ng/l	TM434			#	#	#	#	#	#
PFPA (2706-90-3)	<1 ng/l	TM434			374	114	261	129	125	142
PFMOBA (863090-89-5)	<1 ng/l	TM434			<0.01 µg/l	<0.01	<0.01	<0.01	0.015	0.0209
4:2 FTS (757124-72-4)	<1 ng/l	TM434			#	#	#	#	#	#
NFDHA (151772-58-6)	<3 ng/l	TM434			70.7	19.8	17.1	56.7	68.3	71.2
					#	#	#	#	#	#



CERTIFICATE OF ANALYSIS

Validated

SDG: 250402-101
Client Ref.: 25/4047

Report Number: 764454
Location: LHR042 Thorney Lane DC1

Superseded Report: 762733

Results Legend			Customer Sample Ref.		DS25-03	DS25-04	DS25-05	DS25-07	DS25-10	DS25-11
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfiltTotal / 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)			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		Ground Water (GW) 01/04/2025 02/04/2025 250402-101 31318353 EW2A	Ground Water (GW) 01/04/2025 02/04/2025 250402-101 31318354 EW2A	Ground Water (GW) 01/04/2025 02/04/2025 250402-101 31318351 EW2A	Ground Water (GW) 01/04/2025 02/04/2025 250402-101 31318360 EW2A	Ground Water (GW) 01/04/2025 02/04/2025 250402-101 31318357 EW2A	Ground Water (GW) 01/04/2025 02/04/2025 250402-101 31318358 EW1A
Component	LOD/Units	Method								
PFBS (375-73-5)	<1 ng/l	TM434			73.2 #	3.84 4 #	1.94 #	<10 #	61.2 #	63.9 #
PFHxA (307-24-4)	<1 ng/l	TM434			248 #	15.7 4 #	5.58 #	12.7 #	19.2 #	21.6 #
HFPO-DA (13252-13-6)	<2 ng/l	TM434			<10 #	<2 4 #	<2 #	<20 #	<2 #	<2 #
PFEESA (113507-82-7)	<1 ng/l	TM434			<5 #	<1 4 #	<1 #	<10 #	<1 #	<1 #
PFHpA (375-85-9)	<1 ng/l	TM434			267 #	7.87 4 #	2.48 #	14.5 #	14.4 #	17.1 #
PFPeS (2706-91-4)	<1 ng/l	TM434			75 #	<1 4 #	<1 #	<10 #	1.81 #	2.42 #
5:3 FTCA (914637-49-3)	<5 ng/l	TM434			<25 #	<5 4 #	<5 #	<50 #	<5 #	<5 #
ADONA (919005-14-4)	<1 ng/l	TM434			<5 #	<1 4 #	<1 #	<10 #	<1 #	<1 #
6:2 FTS (27619-97-2)	<1 ng/l	TM434			<5 #	<1 4 #	<1 #	<10 #	4.42 #	4.5 #
FBSA (30334-69-1)	<1 ng/l	TM434			<5 #	1.34 4 #	<1 #	<10 #	8.07 #	10.8 #
PFOA (335-67-1)	<0.65 ng/l	TM434			441 #	18.5 4 #	2.86 #	206 #	23.1 #	25.6 #
PFHxS (355-46-4)	<1 ng/l	TM434			201 #	2.45 4 #	<1 #	11 #	11.3 #	19.6 #
PFNA (375-95-1)	<1 ng/l	TM434			<5 #	2.58 4 #	<1 #	<10 #	2.77 #	<1 #
PFecHS (133201-07-7)	<1 ng/l	TM434			7.7 #	7.33 4 #	<1 #	<10 #	<1 #	<1 #
PFHpS (375-92-8)	<1 ng/l	TM434			<5 #	<1 4 #	<1 #	<10 #	<1 #	<1 #
8:2 FTS (39108-34-4)	<2 ng/l	TM434			<10 #	<2 4 #	<2 #	<20 #	<2 #	<2 #
HFPO-TA (13252-14-7)	<5 ng/l	TM434			<25 #	<5 4 #	<5 #	<50 #	<5 4 #	<5 4 #
PFDA (335-76-2)	<2 ng/l	TM434			<10 #	3.86 4 #	<2 #	<20 #	<2 #	<2 #
MeFOSAA (2355-31-9)	<2 ng/l	TM434			<10 ◆ #	2.72 4 ◆ #	<2 ◆ #	<20 ◆ #	<2 ◆ #	<2 ◆ #
7:3 FTCA (812-70-4)	<5 ng/l	TM434			<25 #	<5 4 #	<5 #	<50 #	<5 #	<5 #
Linear PFOS (1763-23-1)	<0.65 ng/l	TM434			11.8 #	11.1 4 #	2.32 #	23 #	22.9 #	24.7 #
Branched PFOS	<0.65 ng/l	TM434			15.4 #	6.72 4 #	1.76 #	16.1 #	27.7 #	30.2 #
EtFOSAA (2991-50-6)	<2 ng/l	TM434			<10 ◆ #	<2 4 ◆ #	<2 ◆ #	<20 ◆ #	<2 ◆ #	<2 ◆ #
PFUnA (2058-94-8)	<2 ng/l	TM434			<10 #	<2 4 #	<2 #	<20 #	<2 #	<2 #
9Cl-PF3ONS (756426-58-1)	<1 ng/l	TM434			<5 #	<1 4 #	<1 #	<10 #	<1 #	<1 #
PFNS (68259-12-1)	<1 ng/l	TM434			<5 #	<1 4 #	<1 #	<10 #	<1 #	<1 #
FHxSA (41997-13-1)	<1 ng/l	TM434			<5 #	<1 4 #	<1 #	<10 #	<1 #	<1 #
PFDoA (307-55-1)	<2 ng/l	TM434			<10 #	<2 4 #	<2 #	<20 #	<2 #	<2 #
PFDS (335-77-3)	<2 ng/l	TM434			<10 #	<2 4 #	<2 #	<20 #	<2 #	<2 #
PFTrDA (72629-94-8)	<3 ng/l	TM434			<15 #	<3 4 #	<3 #	<30 #	<3 #	<3 #
11Cl-PF3OUdS (763051-92-9)	<2 ng/l	TM434			<10 #	<2 4 #	<2 #	<20 #	<2 #	<2 #
PFUnDS (749786-16-1)	<2 ng/l	TM434			<10 #	<2 4 #	<2 #	<20 #	<2 4 #	<2 4 #
PFTeA (376-06-7)	<1 ng/l	TM434			<5 #	<1 4 #	<1 #	<10 #	<1 #	<1 #



CERTIFICATE OF ANALYSIS

Validated

SDG: 250402-101
Client Ref.: 25/4047

Report Number: 764454
Location: LHR042 Thorney Lane DC1

Superseded Report: 762733

SVOC MS (W) - Aqueous

Results Legend			Customer Sample Ref.	Canal 3				
# ISO17025 accredited. 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**@ Sample deviation (see appendix)			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	Surface Water (SW) 01/04/2025 02/04/2025 250402-101 31318768 EW2A				
Component	LOD/Units	Method						
1,2,4-Trichlorobenzene (aq)	<1 µg/l	TM176	<4	#				
1,2-Dichlorobenzene (aq)	<1 µg/l	TM176	<4	#				
1,3-Dichlorobenzene (aq)	<1 µg/l	TM176	<4	#				
1,4-Dichlorobenzene (aq)	<1 µg/l	TM176	<4	#				
2,4,5-Trichlorophenol (aq)	<1 µg/l	TM176	<4	#				
2,4,6-Trichlorophenol (aq)	<1 µg/l	TM176	<4	#				
2,4-Dichlorophenol (aq)	<1 µg/l	TM176	<4	#				
2,4-Dimethylphenol (aq)	<1 µg/l	TM176	<4	#				
2,4-Dinitrotoluene (aq)	<1 µg/l	TM176	<4	#				
2,6-Dinitrotoluene (aq)	<1 µg/l	TM176	<4	#				
2-Chloronaphthalene (aq)	<1 µg/l	TM176	<4	#				
2-Chlorophenol (aq)	<1 µg/l	TM176	<4	#				
2-Methylnaphthalene (aq)	<1 µg/l	TM176	<4	#				
2-Methylphenol (aq)	<1 µg/l	TM176	<4	#				
2-Nitroaniline (aq)	<1 µg/l	TM176	<4	#				
2-Nitrophenol (aq)	<1 µg/l	TM176	<4	#				
3-Nitroaniline (aq)	<1 µg/l	TM176	<4	#				
4-Bromophenylphenylether (aq)	<1 µg/l	TM176	<4	#				
4-Chloro-3-methylphenol (aq)	<1 µg/l	TM176	<4	#				
4-Chloroaniline (aq)	<1 µg/l	TM176	<4	#				
4-Chlorophenylphenylether (aq)	<1 µg/l	TM176	<4	#				
4-Methylphenol (aq)	<1 µg/l	TM176	<4	#				
4-Nitroaniline (aq)	<1 µg/l	TM176	<4	#				
4-Nitrophenol (aq)	<1 µg/l	TM176	<4	#				
Azobenzene (aq)	<1 µg/l	TM176	<4	#				
Acenaphthylene (aq)	<1 µg/l	TM176	<4	#				
Acenaphthene (aq)	<1 µg/l	TM176	<4	#				
Anthracene (aq)	<1 µg/l	TM176	<4	#				
bis(2-Chloroethyl)ether (aq)	<1 µg/l	TM176	<4	#				
bis(2-Chloroethoxy)methane (aq)	<1 µg/l	TM176	<4	#				
bis(2-Ethylhexyl) phthalate (aq)	<2 µg/l	TM176	<8	#				
Butylbenzyl phthalate (aq)	<1 µg/l	TM176	<4	#				
Benzo(a)anthracene (aq)	<1 µg/l	TM176	<4	#				



CERTIFICATE OF ANALYSIS

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SDG: 250402-101
Client Ref.: 25/4047

Report Number: 764454

Superseded Report: 762733

Location: LHR042 Thorney Lane DC1

SVOC MS (W) - Aqueous

Results Legend			Customer Sample Ref.	Canal 3				
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfiltTotal / 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)			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	Surface Water (SW) 01/04/2025 02/04/2025 250402-101 31318768 EW2A				
Component	LOD/Units	Method						
Benzo(b)fluoranthene (aq)	<1 µg/l	TM176	<4	#				
Benzo(k)fluoranthene (aq)	<1 µg/l	TM176	<4	#				
Benzo(a)pyrene (aq)	<1 µg/l	TM176	<4	#				
Benzo(g,h,i)perylene (aq)	<1 µg/l	TM176	<4	#				
Carbazole (aq)	<1 µg/l	TM176	<4	#				
Chrysene (aq)	<1 µg/l	TM176	<4	#				
Dibenzofuran (aq)	<1 µg/l	TM176	<4	#				
n-Dibutyl phthalate (aq)	<1 µg/l	TM176	<4	#				
Diethyl phthalate (aq)	<1 µg/l	TM176	<4	#				
Dibenzo(a,h)anthracene (aq)	<1 µg/l	TM176	<4	#				
Dimethyl phthalate (aq)	<1 µg/l	TM176	<4	#				
n-Dioctyl phthalate (aq)	<5 µg/l	TM176	<20	#				
Fluoranthene (aq)	<1 µg/l	TM176	<4	#				
Fluorene (aq)	<1 µg/l	TM176	<4	#				
Hexachlorobenzene (aq)	<1 µg/l	TM176	<4	#				
Hexachlorobutadiene (aq)	<1 µg/l	TM176	<4	#				
Pentachlorophenol (aq)	<1 µg/l	TM176	<4					
Phenol (aq)	<1 µg/l	TM176	<4					
n-Nitroso-n-dipropylamine (aq)	<1 µg/l	TM176	<4	#				
Hexachloroethane (aq)	<1 µg/l	TM176	<4	#				
Nitrobenzene (aq)	<1 µg/l	TM176	<4	#				
Naphthalene (aq)	<1 µg/l	TM176	<4	#				
Isophorone (aq)	<1 µg/l	TM176	<4	#				
Hexachlorocyclopentadiene (aq)	<1 µg/l	TM176	<4					
Phenanthrene (aq)	<1 µg/l	TM176	<4	#				
Indeno(1,2,3-cd)pyrene (aq)	<1 µg/l	TM176	<4	#				
Pyrene (aq)	<1 µg/l	TM176	<4	#				

SDG: 250402-101

Report Number: 764454

Superseded Report: 762733

Client Ref.: 25/4047

Location: LHR042 Thorney Lane DC1

TPH CWG (W)[illegible]



CERTIFICATE OF ANALYSIS

Validated

SDG: 250402-101
Client Ref.: 25/4047

Report Number: 764454

Superseded Report: 762733

Location: LHR042 Thorney Lane DC1

VOC MS (W)

Results Legend			Customer Sample Ref.		BH25-03	BH25-04	Canal 2	Canal 3	Drainage 1 (Round 1)	DS25-02
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfiltTotal / 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)			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		Ground Water (GW) 01/04/2025 02/04/2025 250402-101 31318359 EW2A	Ground Water (GW) 01/04/2025 02/04/2025 250402-101 31318355 EW2A	Surface Water (SW) 01/04/2025 02/04/2025 250402-101 31318769 EW2A	Surface Water (SW) 01/04/2025 02/04/2025 250402-101 31318768 EW2A	Ground Water (GW) 01/04/2025 02/04/2025 250402-101 31318767 EW1AA	Ground Water (GW) 01/04/2025 02/04/2025 250402-101 31318352 EW2A
Component	LOD/Units	Method								
Dibromofluoromethane**	%	TM208						108		
Toluene-d8**	%	TM208			97.5	99.5	99.4	84.3	98.3	97.4
4-Bromofluorobenzene**	%	TM208						84.6		
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	#	<1	#	<1	#	<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	#	<1	#	<1	#	<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	#	<1	#	<1	#	6.41	<1
trans-1,3-Dichloropropene	<1 µg/l	TM208						<1		
1,1,2-Trichloroethane	<1 µg/l	TM208						<1		
1,3-Dichloropropane	<1 µg/l	TM208						<1		



CERTIFICATE OF ANALYSIS

Validated

SDG: 250402-101
Client Ref.: 25/4047

Report Number: 764454
Location: LHR042 Thorney Lane DC1

Superseded Report: 762733

VOC MS (W)

Results Legend			Customer Sample Ref.		BH25-03	BH25-04	Canal 2	Canal 3	Drainage 1 (Round 1)	DS25-02
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		Ground Water (GW)	Ground Water (GW)	Surface Water (SW)	Surface Water (SW)	Ground Water (GW)	Ground Water (GW)
m	mCERTS accredited.				01/04/2025	01/04/2025	01/04/2025	01/04/2025	01/04/2025	01/04/2025
aq	Aqueous / settled sample.									
diss.filt	Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.					02/04/2025	02/04/2025	02/04/2025	02/04/2025	02/04/2025	02/04/2025
** % 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					250402-101	250402-101	250402-101	250402-101	250402-101	250402-101
*** 6:2 FTAB (see appendix)					31318359	31318355	31318769	31318768	31318767	31318352
1-4**@ Sample deviation (see appendix)					EW2A	EW2A	EW2A	EW2A	EW1AA	EW2A
Component	LOD/Units	Method								
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	<1	<1	<1	7.56	<1
m,p-Xylene	<1 µg/l	TM208			#	#	#	#	#	#
o-Xylene	<1 µg/l	TM208			#	#	#	#	35.5	<1
Styrene	<1 µg/l	TM208			#	#	#	#	#	#
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						1.17	#	
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	#	
1,2,3-Trichlorobenzene	<1 µg/l	TM208						<1	#	
1,3,5-Trichlorobenzene	<1 µg/l	TM208						<1	#	

SDG: 250402-101

Report Number: 764454

Superseded Report: 762733

Client Ref.: 25/4047

Location: LHR042 Thorney Lane DC1

VOC MS (W)[illegible]



CERTIFICATE OF ANALYSIS

Validated

SDG: 250402-101 Report Number: 764454 Superseded Report: 762733
Client Ref.: 25/4047 Location: LHR042 Thorney Lane DC1

Notification of NDPs (No determination possible)

Date Received : 02/04/2025 11:59:54

Sample No	Customer Sample Ref.	Depth (m)	Test	Comment
31318767	Drainage 1 (Round 1) EW1AA		Dissolved Organic/Inorganic Carbon	Sample contains oil / product



CERTIFICATE OF ANALYSIS

Validated

SDG: 250402-101

Report Number: 764454

Superseded Report: 762733

Client Ref.: 25/4047

Location: LHR042 Thorney Lane DC1

Data Amendment

Sample No. :	All	Date of Amendment :	12/05/2025	Origin:	Client Request
Sample Ref.	Reason	Previous	Amended		
All	Sample ID Change	D525	DS25		



CERTIFICATE OF ANALYSIS

Validated

SDG: 250402-101
Client Ref.: 25/4047

Report Number: 764454
Location: LHR042 Thorney Lane DC1

Superseded Report: 762733

Table of Results - Appendix

Method No	Description
TM090	Determination of Total Organic Carbon/Total Inorganic Carbon in Water and Waste Water
TM099	Determination of Ammonium in Water Samples using the Kone Analyser
TM176	Determination of SVOCs in Water by GCMS
TM259	Determination of Phenols in Waters and Leachates by HPLC
TM152	Analysis of Aqueous Samples by ICP-MS
TM208	Determination of Volatile Organic Compounds by Headspace / GC-MS in Waters
TM227	Determination of Total Cyanide, Free (Easily Liberatable) Cyanide and Thiocyanate
TM256	Determination of pH, EC, TDS and Alkalinity in Aqueous samples
TM178	Determination of Polynuclear Aromatic Hydrocarbons (PAH) by GC-MS in Waters
TM331	Low Level Hexavalent Chromium
TM439	Determination of Extractable Petroleum Hydrocarbons (EPH) CWG banding by GC-FID on liquids
TM183	Determination of Trace Level Mercury in Waters and Leachates by PSA Cold Vapour Atomic Fluorescence Spectrometry
TM184	The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers
TM245	Determination of GRO by Headspace in waters
TM434	Analysis of PFAS

NA = not applicable.

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



CERTIFICATE OF ANALYSIS

Validated

SDG: 250402-101
Client Ref.: 25/4047

Report Number: 764454
Location: LHR042 Thorney Lane DC1

Superseded Report: 762733

Test Completion Dates

Lab Sample No(s)	31318359	31318355	31318769	31318768	31318767	31318352	31318353	31318354	31318351	31318360
Customer Sample Ref.	BH25-03	BH25-04	Canal 2	Canal 3	Drainage 1 (Round 1)	DS25-02	DS25-03	DS25-04	DS25-05	DS25-07
AGS Ref.	EW2A	EW2A	EW2A	EW2A	EW1AA	EW2A	EW2A	EW2A	EW2A	EW2A
Depth										
Type	Ground Water	Ground Water	Surface Water	Surface Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
Ammoniacal Nitrogen	07-Apr-2025	07-Apr-2025	07-Apr-2025	07-Apr-2025	07-Apr-2025	07-Apr-2025	07-Apr-2025	07-Apr-2025	07-Apr-2025	07-Apr-2025
Anions by Kone (w)	04-Apr-2025	04-Apr-2025	07-Apr-2025	04-Apr-2025	04-Apr-2025	04-Apr-2025	04-Apr-2025	04-Apr-2025	04-Apr-2025	07-Apr-2025
Cyanide Comp/Free/Total/Thiocyanate	08-Apr-2025	08-Apr-2025	08-Apr-2025	08-Apr-2025	08-Apr-2025	08-Apr-2025	08-Apr-2025	08-Apr-2025	08-Apr-2025	08-Apr-2025
Dissolved Metals by ICP-MS	07-Apr-2025	08-Apr-2025	04-Apr-2025	04-Apr-2025	04-Apr-2025	07-Apr-2025	07-Apr-2025	08-Apr-2025	07-Apr-2025	04-Apr-2025
Dissolved Organic/Inorganic Carbon	04-Apr-2025	04-Apr-2025	05-Apr-2025	04-Apr-2025		04-Apr-2025	04-Apr-2025	06-Apr-2025	04-Apr-2025	05-Apr-2025
EPH and CWG by FID	08-Apr-2025	08-Apr-2025	08-Apr-2025	08-Apr-2025	09-Apr-2025	08-Apr-2025	08-Apr-2025	08-Apr-2025	08-Apr-2025	09-Apr-2025
GRO by GC-FID (W)	08-Apr-2025	08-Apr-2025	08-Apr-2025	08-Apr-2025	08-Apr-2025	08-Apr-2025	08-Apr-2025	08-Apr-2025	08-Apr-2025	08-Apr-2025
Low Level Hexavalent Chromium (w)	08-Apr-2025	08-Apr-2025	08-Apr-2025	07-Apr-2025	07-Apr-2025	08-Apr-2025	07-Apr-2025	07-Apr-2025	08-Apr-2025	08-Apr-2025
Mercury Dissolved	08-Apr-2025	08-Apr-2025	08-Apr-2025	08-Apr-2025	08-Apr-2025	08-Apr-2025	08-Apr-2025	08-Apr-2025	08-Apr-2025	08-Apr-2025
PAH Spec MS - Aqueous (W)	08-Apr-2025	08-Apr-2025	07-Apr-2025	08-Apr-2025	09-Apr-2025	08-Apr-2025	08-Apr-2025	08-Apr-2025	08-Apr-2025	08-Apr-2025
PFAS Liquids (Full Suite)	16-Apr-2025	16-Apr-2025	16-Apr-2025	16-Apr-2025	17-Apr-2025	16-Apr-2025	16-Apr-2025	16-Apr-2025	16-Apr-2025	16-Apr-2025
pH Value	07-Apr-2025	07-Apr-2025	07-Apr-2025	07-Apr-2025	08-Apr-2025	07-Apr-2025	07-Apr-2025	07-Apr-2025	07-Apr-2025	07-Apr-2025
Phenols by HPLC (W)	07-Apr-2025	09-Apr-2025	07-Apr-2025	07-Apr-2025	07-Apr-2025	07-Apr-2025	07-Apr-2025	09-Apr-2025	07-Apr-2025	07-Apr-2025
SVOC MS (W) - Aqueous				10-Apr-2025						
Total Metals by ICP-MS	07-Apr-2025	08-Apr-2025	07-Apr-2025	07-Apr-2025	07-Apr-2025	07-Apr-2025	07-Apr-2025	08-Apr-2025	07-Apr-2025	07-Apr-2025
TPH CWG (W)	08-Apr-2025	08-Apr-2025	08-Apr-2025	08-Apr-2025	09-Apr-2025	08-Apr-2025	08-Apr-2025	08-Apr-2025	08-Apr-2025	09-Apr-2025
VOC MS (W)	08-Apr-2025	08-Apr-2025	08-Apr-2025	08-Apr-2025	08-Apr-2025	08-Apr-2025	08-Apr-2025	08-Apr-2025	08-Apr-2025	08-Apr-2025

Lab Sample No(s)	31318357	31318358
Customer Sample Ref.	DS25-10	DS25-11
AGS Ref.	EW2A	EW1A
Depth		
Type	Ground Water	Ground Water
Ammoniacal Nitrogen	07-Apr-2025	07-Apr-2025
Anions by Kone (w)	07-Apr-2025	07-Apr-2025
Cyanide Comp/Free/Total/Thiocyanate	08-Apr-2025	08-Apr-2025
Dissolved Metals by ICP-MS	04-Apr-2025	04-Apr-2025
Dissolved Organic/Inorganic Carbon	05-Apr-2025	05-Apr-2025
EPH and CWG by FID	09-Apr-2025	09-Apr-2025
GRO by GC-FID (W)	08-Apr-2025	08-Apr-2025
Low Level Hexavalent Chromium (w)	08-Apr-2025	08-Apr-2025
Mercury Dissolved	08-Apr-2025	08-Apr-2025
PAH Spec MS - Aqueous (W)	08-Apr-2025	08-Apr-2025
PFAS Liquids (Full Suite)	22-Apr-2025	22-Apr-2025
pH Value	07-Apr-2025	07-Apr-2025
Phenols by HPLC (W)	07-Apr-2025	07-Apr-2025
Total Metals by ICP-MS	07-Apr-2025	07-Apr-2025
TPH CWG (W)	09-Apr-2025	09-Apr-2025
VOC MS (W)	08-Apr-2025	08-Apr-2025



CERTIFICATE OF ANALYSIS

SDG: 250402-101
Client Ref: 25/4047

Report Number: 764454
Location: LHR042 Thorney Lane DC1

Superseded Report: 762733

Appendix

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.

General

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 Anthophyllite	-
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.



Unit 7-8 Hawarden Business Park
Manor Road (off Manor Lane)
Hawarden
Deeside
CH5 3US

Tel: (01244) 528777
email: hawardencustomerservices@alsglobal.com
Website: www.alsenvironmental.co.uk

Concept Engineering Consultants Ltd
218 Northfields Road
London
W13 9SJ

Attention: Gabriela Mandache

CERTIFICATE OF ANALYSIS

Date of report Generation:	17 April 2025
Customer:	Concept Engineering Consultants Ltd
Sample Delivery Group (SDG):	250403-60
Your Reference:	25/4047
Location:	LHR042 Thorney Lane DC1
Report No:	762570
Order Number:	105349 (CL6865)

This report has been revised and directly supersedes 761862 in its entirety.

We received 2 samples on Thursday April 03, 2025 and 2 of these samples were scheduled for analysis which was completed on Thursday April 17, 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





CERTIFICATE OF ANALYSIS

Validated

SDG: 250403-60
Client Ref.: 25/4047

Report Number: 762570
Location: LHR042 Thorney Lane DC1

Superseded Report: 761862

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
31323550	Drainage 2A	EW2A		01/04/2025
31323551	DS25-12	EW1A		01/04/2025

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



CERTIFICATE OF ANALYSIS

Validated

SDG: 250403-60
Client Ref.: 25/4047

Report Number: 762570
Location: LHR042 Thorney Lane DC1

Superseded Report: 761862

Results Legend	Lab Sample No(s)		31 323551										31 323551									
	Customer Sample Reference		Drainage 2A										DS25-12									
	AGS Reference		EW2A										EW1A									
	Depth (m)																					
	Container		Vial (ALE297)	NaOH (ALE245)	HNO3 Unfiltered (ALE204)	HNO3 Filtered (ALE204)	H2SO4 (ALE244)	Digitube for PFAS analysis.	500ml Plastic (ALE208)	250ml Amber GL PTFE/PE (ALE219)	0.5l glass bottle (ALE227)	Vial (ALE297)	NaOH (ALE245)	HNO3 Unfiltered (ALE204)	HNO3 Filtered (ALE204)	H2SO4 (ALE244)	Digitube for PFAS analysis.	500ml Plastic (ALE208)	250ml Amber GL PTFE/PE (ALE219)	0.5l glass bottle (ALE227)	Vial (ALE297)	NaOH (ALE245)
	Sample Type		GW	GW	GW	GW	GW	GW	GW	GW	GW	GW	GW	GW	GW	GW	GW	GW	GW	GW	GW	GW
Ammoniacal Nitrogen	All	NDPs: 0 Tests: 2					X										X					
Anions by Kone (w)	All	NDPs: 0 Tests: 2			X													X				
Cyanide Comp/Free/Total/Thiocyanate	All	NDPs: 0 Tests: 2										X										X
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 2					X										X					
Dissolved Organic/Inorganic Carbon	All	NDPs: 0 Tests: 2	X																X			
EPH and CWG by FID	All	NDPs: 0 Tests: 2	X																X			
GRO by GC-FID (W)	All	NDPs: 0 Tests: 2											X									X
Low Level Hexavalent Chromium (w)	All	NDPs: 0 Tests: 2			X													X				
Mercury Dissolved	All	NDPs: 0 Tests: 2					X															X
PAH Spec MS - Aqueous (W)	All	NDPs: 0 Tests: 2			X														X			
PFAS Liquids (Full Suite)	All	NDPs: 0 Tests: 2					X											X				
pH Value	All	NDPs: 0 Tests: 2			X														X			
Phenols by HPLC (W)	All	NDPs: 0 Tests: 2					X														X	
Total Metals by ICP-MS	All	NDPs: 0 Tests: 2											X									X
TPH CWG (W)	All	NDPs: 0 Tests: 2	X																	X		



CERTIFICATE OF ANALYSIS

Validated

SDG: 250403-60
Client Ref.: 25/4047

Report Number: 762570
Location: LHR042 Thorney Lane DC1

Superseded Report: 761862

Results Legend



Test



No Determination Possible

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)

Customer
Sample Reference

AGS Reference

Depth (m)

Container

Sample Type

VOC MS (W)

All

NDPs: 0
Tests: 2

31323550

Drainage 2A

EW2A

Vial (ALE297)

GW

X

31323551

DS25-12

EW1A

Vial (ALE297)

GW

X

NaOH (ALE245)

GW

HNO3 Unfiltered (ALE204)

GW

HNO3 Filtered (ALE204)

GW

H2SO4 (ALE244)

GW

Digitube for PFAS analysis.

GW

500ml Plastic (ALE208)

GW

250ml Amber Cl. PTFE/PE (ALE219)

GW

0.5l glass bottle (ALE227)

GW

Vial (ALE297)

GW

NaOH (ALE245)

GW

HNO3 Unfiltered (ALE204)

GW

HNO3 Filtered (ALE204)

GW

H2SO4 (ALE244)

GW

Digitube for PFAS analysis.

GW

500ml Plastic (ALE208)

GW

250ml Amber Cl. PTFE/PE (ALE219)

GW

0.5l glass bottle (ALE227)

GW



CERTIFICATE OF ANALYSIS

Validated

SDG: 250403-60
Client Ref.: 25/4047

Report Number: 762570
Location: LHR042 Thorney Lane DC1

Superseded Report: 761862

Results Legend			Customer Sample Ref.		Drainage 2A		DS25-12					
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		Ground Water (GW)		Ground Water (GW)					
M	mCERTS accredited.				01/04/2025		01/04/2025					
aq	Aqueous / settled sample.				03/04/2025		03/04/2025					
diss.filt	Dissolved / filtered sample.				250403-60		250403-60					
tot.unfilt	Total / unfiltered sample.				31323550		31323551					
* Subcontracted - refer to subcontractor report for accreditation status.					EW2A		EW1A					
** % 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										
Carbon, Organic (diss.filt)	<3 mg/l	TM090	23.2		<3							
Ammoniacal Nitrogen as N	<0.2 mg/l	TM099	2.23		<0.2		#		#			
Ammoniacal Nitrogen as NH3	<0.2 mg/l	TM099	2.71		<0.2		#		#			
Antimony (diss.filt)	<1 µg/l	TM152	<1		<1		#		#			
Arsenic (diss.filt)	<0.5 µg/l	TM152	0.777		<0.5		#		#			
Beryllium (diss.filt)	<0.1 µg/l	TM152	<0.1		<0.1		#		#			
Cadmium (diss.filt)	<0.08 µg/l	TM152	<0.08		<0.08		#		#			
Chromium (diss.filt)	<1 µg/l	TM152	<1		<1		#		#			
Copper (diss.filt)	<0.3 µg/l	TM152	0.332		<0.3		#		#			
Lead (diss.filt)	<0.2 µg/l	TM152	<0.2		<0.2		#		#			
Manganese (diss.filt)	<3 µg/l	TM152	702		<3		#		#			
Nickel (diss.filt)	<0.4 µg/l	TM152	3.21		<0.4		#		#			
Selenium (diss.filt)	<1 µg/l	TM152	<1		<1		#		#			
Vanadium (diss.filt)	<1 µg/l	TM152	<1		<1		#		#			
Zinc (diss.filt)	<1 µg/l	TM152	10.8		1.17		#		#			
Calcium (Dis.Filt)	<0.2 mg/l	TM152	43.6		57		#		#			
Hardness, Total as CaCO3 unfiltered	<0.35 mg/l	TM152	120		199							
Mercury (diss.filt)	<0.01 µg/l	TM183	<0.01		<0.01		#		#			
Chloride	<2 mg/l	TM184	9.2		8.2		#		#			
Cyanide, Total	<0.05 mg/l	TM227	<0.05		<0.05		#		#			
pH	<1 pH Units	TM256	7.12		7.9		#		#			
Phenol	<0.002 mg/l	TM259	1.87		<0.002		#		#			
Cresols	<0.006 mg/l	TM259	0.08		<0.006		#		#			
Xylenols	<0.008 mg/l	TM259	<0.016		<0.008		#		#			
Phenols, Total Detected monohydric	<0.016 mg/l	TM259	1.95		<0.016		#		#			
Low Level Hexavalent Chromium	<0.003 mg/l	TM331	<0.003		<0.003		#		#			
PFBA (375-22-4)	<2 ng/l	TM434	<10		<2		#		#			
PFMOPra (377-73-1)	<1 ng/l	TM434	<5		<1		#		#			
3:3 FTCA (356-02-5)	<2 ng/l	TM434	<10		<2		#		#			
PFPA (2706-90-3)	<1 ng/l	TM434	<5		<1		#		#			
PFMOBA (863090-89-5)	<1 ng/l	TM434	<5		<1		#		#			
4:2 FTS (757124-72-4)	<1 ng/l	TM434	<5		<1		#		#			
NFDHA (151772-58-6)	<3 ng/l	TM434	<15		<3		#		#			



CERTIFICATE OF ANALYSIS

Validated

SDG: 250403-60
Client Ref.: 25/4047

Report Number: 762570
Location: LHR042 Thorney Lane DC1

Superseded Report: 761862

Results Legend			Customer Sample Ref.		Drainage 2A		DS25-12					
# ISO17025 accredited. 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# Sample deviation (see appendix)			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		Ground Water (GW) 01/04/2025		Ground Water (GW) 01/04/2025					
Component	LOD/Units	Method										
PFBS (375-73-5)	<1 ng/l	TM434	<5		<1		#		#			
PFHxA (307-24-4)	<1 ng/l	TM434	<5		<1		#		#			
HFPO-DA (13252-13-6)	<2 ng/l	TM434	<10		<2		#		#			
PFEESA (113507-82-7)	<1 ng/l	TM434	<5		<1		#		#			
PFHpA (375-85-9)	<1 ng/l	TM434	<5		<1		#		#			
PFPeS (2706-91-4)	<1 ng/l	TM434	<5		<1		#		#			
5:3 FTCA (914637-49-3)	<5 ng/l	TM434	<25		<5		#		#			
ADONA (919005-14-4)	<1 ng/l	TM434	<5		<1		#		#			
6:2 FTS (27619-97-2)	<1 ng/l	TM434	<5		<1		#		#			
FBSA (30334-69-1)	<1 ng/l	TM434	<5		<1		#		#			
PFOA (335-67-1)	<0.65 ng/l	TM434	<3.25		<0.65		#		#			
PFHxS (355-46-4)	<1 ng/l	TM434	<5		<1		#		#			
PFNA (375-95-1)	<1 ng/l	TM434	<5		<1		#		#			
PFecHS (133201-07-7)	<1 ng/l	TM434	<5		<1		#		#			
PFHpS (375-92-8)	<1 ng/l	TM434	<5		<1		#		#			
8:2 FTS (39108-34-4)	<2 ng/l	TM434	<10		<2		#		#			
HFPO-TA (13252-14-7)	<5 ng/l	TM434	<25		<5		#		#			
PFDA (335-76-2)	<2 ng/l	TM434	<10		<2		#		#			
MeFOSAA (2355-31-9)	<2 ng/l	TM434	<10		<2		◆ #		◆ #			
7:3 FTCA (812-70-4)	<5 ng/l	TM434	<25		<5		#		#			
Linear PFOS (1763-23-1)	<0.65 ng/l	TM434	<3.25		<0.65		#		#			
Branched PFOS	<0.65 ng/l	TM434	<3.25		<0.65		#		#			
EtFOSAA (2991-50-6)	<2 ng/l	TM434	<10		<2		◆ #		◆ #			
PFUnA (2058-94-8)	<2 ng/l	TM434	<10		<2		#		#			
9CI-PF3ONS (756426-58-1)	<1 ng/l	TM434	<5		<1		#		#			
PFNS (68259-12-1)	<1 ng/l	TM434	<5		<1		#		#			
FHxSA (41997-13-1)	<1 ng/l	TM434	<5		<1		#		#			
PFDoA (307-55-1)	<2 ng/l	TM434	<10		<2		#		#			
PFDS (335-77-3)	<2 ng/l	TM434	<10		<2		#		#			
PFTTrDA (72629-94-8)	<3 ng/l	TM434	<15		<3		#		#			
11CI-PF3OUdS (763051-92-9)	<2 ng/l	TM434	<10		<2		#		#			
PFUnDS (749786-16-1)	<2 ng/l	TM434	<10		<2		#		#			
PFTeA (376-06-7)	<1 ng/l	TM434	<5		<1		#		#			



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SDG: 250403-60
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Report Number: 762570
Location: LHR042 Thorney Lane DC1

Superseded Report: 761862

Results Legend			Customer Sample Ref.		Drainage 2A		DS25-12						
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		Ground Water (GW)		Ground Water (GW)						
M	mCERTS accredited.				01/04/2025		01/04/2025						
aq	Aqueous / settled sample.												
diss.filt	Dissolved / filtered sample.												
tot.unfilt	Total / unfiltered sample.												
*	Subcontracted - refer to subcontractor report for accreditation status.				03/04/2025		03/04/2025						
**	% 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		250403-60		250403-60		250403-60						
***	6:2 FTAB (see appendix)		31323550		31323550		31323551						
1-4**	Sample deviation (see appendix)		EW2A		EW2A		EW1A						
Component	LOD/Units	Method											
PFOSA (754-91-6)	<2 ng/l	TM434	<10		<2								
			#		#								
PFDoS (79780-39-5)	<2 ng/l	TM434	<10		<2								
			#		#								
PFTrDS (174675-49-1)	<1 ng/l	TM434	<5		<1								
			#		#								
PFHxDA (67905-19-5)	<1 ng/l	TM434	<5		<1								
			#		#								
MeFOSE (24448-09-7)	<10 ng/l	TM434	<50		<10								
			◆ #		◆ #								
N-MeFOSA (31506-32-8)	<1 ng/l	TM434	<5		<1								
			#		#								
EtFOSE (1691-99-2)	<10 ng/l	TM434	<50		<10								
			◆ #		◆ #								
PFODA (16517-11-6)	<1 ng/l	TM434	<5		<1								
			#		#								
N-EtFOSA (4151-50-2)	<1 ng/l	TM434	<5		<1								
			#		#								
6:2 FTAB (34455-29-3)	<10 ng/l	TM434	<50		<10								
Total PFOS	<0.65 ng/l	TM434	<3.25		<0.65								
			#		#								
Total PFAS DWI 47	<90 ng/l	TM434	<450		<90								



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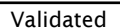
SDG: 250403-60
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Report Number: 762570
Location: LHR042 Thorney Lane DC1

Superseded Report: 761862

PAH Spec MS - Aqueous (W)

Results Legend			Customer Sample Ref.		Drainage 2A		DS25-12					
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfiltTotal / 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)			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		Ground Water (GW) 01/04/2025 03/04/2025 250403-60 31323550 EW2A		Ground Water (GW) 01/04/2025 03/04/2025 250403-60 31323551 EW1A					
Component	LOD/Units	Method										
Naphthalene (aq)	<0.01 µg/l	TM178	<1	#	<0.1	#						
Acenaphthene (aq)	<0.005 µg/l	TM178	<0.05	#	<0.005	#						
Acenaphthylene (aq)	<0.005 µg/l	TM178	<0.05	#	<0.005	#						
Fluoranthene (aq)	<0.005 µg/l	TM178	0.142	#	<0.005	#						
Anthracene (aq)	<0.005 µg/l	TM178	<0.05	#	<0.005	#						
Phenanthrene (aq)	<0.005 µg/l	TM178	0.0893	#	<0.005	#						
Fluorene (aq)	<0.005 µg/l	TM178	<0.05	#	<0.005	#						
Chrysene (aq)	<0.005 µg/l	TM178	<0.05	#	<0.005	#						
Pyrene (aq)	<0.005 µg/l	TM178	0.127	#	<0.005	#						
Benzo(a)anthracene (aq)	<0.005 µg/l	TM178	<0.05	#	<0.005	#						
Benzo(b)fluoranthene (aq)	<0.005 µg/l	TM178	<0.05	#	<0.005	#						
Benzo(k)fluoranthene (aq)	<0.005 µg/l	TM178	<0.05	#	<0.005	#						
Benzo(a)pyrene (aq)	<0.002 µg/l	TM178	0.0261	#	<0.002	#						
Dibenzo(a,h)anthracene (aq)	<0.005 µg/l	TM178	<0.05	#	<0.005	#						
Benzo(g,h,i)perylene (aq)	<0.005 µg/l	TM178	<0.05	#	<0.005	#						
Indeno(1,2,3-cd)pyrene (aq)	<0.005 µg/l	TM178	<0.05	#	<0.005	#						
PAH, Total Detected USEPA 16 (aq)	<0.082 µg/l	TM178	<0.82	#	<0.082	#						



Superseded Report: 761862

Location: LHR042 Thorney Lane DC1



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Location: LHR042 Thorney Lane DC1

Superseded Report: 761862

VOC MS (W)

Results Legend			Customer Sample Ref.		Drainage 2A		DS25-12				
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfiltTotal / 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)			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		Ground Water (GW) 01/04/2025 03/04/2025 250403-60 31323550 EW2A		Ground Water (GW) 01/04/2025 03/04/2025 250403-60 31323551 EW1A				
Component	LOD/Units	Method									
Toluene-d8**	%	TM208	97.3		97.3						
Methyl tertiary butyl ether (MTBE)	<1 µg/l	TM208	<1		<1		#				
Benzene	<1 µg/l	TM208	<1		<1		#				
Toluene	<1 µg/l	TM208	1.5		<1		#				
Ethylbenzene	<1 µg/l	TM208	<1		<1		#				
m,p-Xylene	<1 µg/l	TM208	<1		<1		#				
o-Xylene	<1 µg/l	TM208	<1		<1		#				
Sum of detected Xylenes	<2 µg/l	TM208	<2		<2						
Sum of BTEX	<5 µg/l	TM208	<5		<5						



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Location: LHR042 Thorney Lane DC1

Superseded Report: 761862

Table of Results - Appendix

Method No	Description
TM152	Analysis of Aqueous Samples by ICP-MS
TM208	Determination of Volatile Organic Compounds by Headspace / GC-MS in Waters
TM227	Determination of Total Cyanide, Free (Easily Liberatable) Cyanide and Thiocyanate
TM256	Determination of pH, EC, TDS and Alkalinity in Aqueous samples
TM090	Determination of Total Organic Carbon/Total Inorganic Carbon in Water and Waste Water
TM099	Determination of Ammonium in Water Samples using the Kone Analyser
TM259	Determination of Phenols in Waters and Leachates by HPLC
TM178	Determination of Polynuclear Aromatic Hydrocarbons (PAH) by GC-MS in Waters
TM331	Low Level Hexavalent Chromium
TM439	Determination of Extractable Petroleum Hydrocarbons (EPH) CWG banding by GC-FID on liquids
TM183	Determination of Trace Level Mercury in Waters and Leachates by PSA Cold Vapour Atomic Fluorescence Spectrometry
TM184	The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers
TM245	Determination of GRO by Headspace in waters
TM434	Analysis of PFAS

NA = not applicable.

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



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Location: LHR042 Thorney Lane DC1

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Test Completion Dates

Lab Sample No(s)	31323550	31323551
Customer Sample Ref.	Drainage 2A	DS25-12
AGS Ref.	EW2A	EW1A
Depth		
Type	Ground Water	Ground Water

Ammoniacal Nitrogen	07-Apr-2025	07-Apr-2025
Anions by Kone (w)	07-Apr-2025	07-Apr-2025
Cyanide Comp/Free/Total/Thiocyanate	08-Apr-2025	08-Apr-2025
Dissolved Metals by ICP-MS	08-Apr-2025	08-Apr-2025
Dissolved Organic/Inorganic Carbon	06-Apr-2025	06-Apr-2025
EPH and CWG by FID	09-Apr-2025	09-Apr-2025
GRO by GC-FID (W)	09-Apr-2025	09-Apr-2025
Low Level Hexavalent Chromium (w)	09-Apr-2025	09-Apr-2025
Mercury Dissolved	09-Apr-2025	09-Apr-2025
PAH Spec MS - Aqueous (W)	08-Apr-2025	08-Apr-2025
PFAS Liquids (Full Suite)	17-Apr-2025	17-Apr-2025
pH Value	08-Apr-2025	08-Apr-2025
Phenols by HPLC (W)	10-Apr-2025	09-Apr-2025
Total Metals by ICP-MS	08-Apr-2025	08-Apr-2025
TPH CWG (W)	09-Apr-2025	09-Apr-2025
VOC MS (W)	09-Apr-2025	09-Apr-2025



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Appendix

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.

General

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 Anthophyllite	-
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.



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Attention: Gabriela Mandache

CERTIFICATE OF ANALYSIS

Date of report Generation:	17 April 2025
Customer:	Concept Engineering Consultants Ltd
Sample Delivery Group (SDG):	250403-58
Your Reference:	25/4047
Location:	LHR042 Thorney Lane DC1
Report No:	762568
Order Number:	105360 (CL6870)

This report has been revised and directly supersedes 761981 in its entirety.

We received 4 samples on Thursday April 03, 2025 and 4 of these samples were scheduled for analysis which was completed on Thursday April 17, 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





CERTIFICATE OF ANALYSIS

Validated

SDG: 250403-58
Client Ref.: 25/4047

Report Number: 762568
Location: LHR042 Thorney Lane DC1

Superseded Report: 761981

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
31323513	Attenuation Pond	EW2A		02/04/2025
31323511	Canal 1	EW2A		02/04/2025
31323512	Canal 4	EW2A		02/04/2025
31323514	Drainage 1A	EW2A		02/04/2025

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

SDG: 250403-58
Client Ref.: 25/4047

Report Number: 762568

Superseded Report: 761981

Location: LHR042 Thorney Lane DC1

[illegible]

SDG: 250403-58

Report Number: 762568

Superseded Report: 761981

Client Ref.: 25/4047

Location: LHR042 Thorney Lane DC1

Results Legend X Test N No Determination Possible 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)	Customer Sample Reference	AGS Reference	Depth (m)	Container	Sample Type																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
					0.5l glass bottle (ALE227)	SW																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														</

31323514	Drainage 1A	EW2A		Vial (ALE297)	SW				X
				NaOH (ALE245)	SW				
				HNO3 Unfiltered (ALE204)	SW				
				HNO3 Filtered (ALE204)	SW				
				H2SO4 (ALE244)	SW				
				Digitube fo PFAS analysis.	SW				
				500ml Plastic (ALE208)	SW				
				250ml Amber Gl. PTFE/PE (ALE219)	SW				
				0.5l glass bottle (ALE227)	SW	X			
				Vial (ALE297)	SW				X
				NaOH (ALE245)	SW				
				HNO3 Unfiltered (ALE204)	SW				
				HNO3 Filtered (ALE204)	SW				
				H2SO4 (ALE244)	SW				
31323512	Canal 4	EW2A		Digitube fo PFAS analysis.	SW				
				500ml Plastic (ALE208)	SW				
				250ml Amber Gl. PTFE/PE (ALE219)	SW				
				0.5l glass bottle (ALE227)	SW				
				Vial (ALE297)	SW				



CERTIFICATE OF ANALYSIS

Validated

SDG: 250403-58
Client Ref.: 25/4047

Report Number: 762568
Location: LHR042 Thorney Lane DC1

Superseded Report: 761981

Results Legend			Customer Sample Ref.		Attenuation Pond	Canal 1	Canal 4	Drainage 1A		
# ISO17025 accredited. 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*§@ Sample deviation (see appendix)	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		Surface Water (SW) 02/04/2025 03/04/2025 250403-58 31323513 EW2A		Surface Water (SW) 02/04/2025 03/04/2025 250403-58 31323511 EW2A		Surface Water (SW) 02/04/2025 03/04/2025 250403-58 31323512 EW2A		Surface Water (SW) 02/04/2025 03/04/2025 250403-58 31323514 EW2A	
Component	LOD/Units	Method								
Carbon, Organic (diss.filt)	<3 mg/l	TM090	17		6.61	5.8				
Ammoniacal Nitrogen as N	<0.2 mg/l	TM099	<0.2		<0.2	<0.2	18.1			
Ammoniacal Nitrogen as NH3	<0.2 mg/l	TM099	<0.2		<0.2	<0.2	22			
Antimony (diss.filt)	<1 µg/l	TM152	1.71		1.78	1.83				
Arsenic (diss.filt)	<0.5 µg/l	TM152	1.87		1.2	1.41				
Beryllium (diss.filt)	<0.1 µg/l	TM152	<0.1		<0.1	<0.1				
Cadmium (diss.filt)	<0.08 µg/l	TM152	<0.08		<0.08	<0.08				
Chromium (diss.filt)	<1 µg/l	TM152	<1		<1	<1				
Copper (diss.filt)	<0.3 µg/l	TM152	4.7		2.85	2.84				
Lead (diss.filt)	<0.2 µg/l	TM152	1.04		0.255	0.307				
Manganese (diss.filt)	<3 µg/l	TM152	17.9		11.6	18.9				
Nickel (diss.filt)	<0.4 µg/l	TM152	46.9		5.54	5.56				
Selenium (diss.filt)	<1 µg/l	TM152	<1		<1	<1				
Vanadium (diss.filt)	<1 µg/l	TM152	<1		<1	<1				
Zinc (diss.filt)	<1 µg/l	TM152	20.5		15.4	13				
Calcium (Dis.Filt)	<0.2 mg/l	TM152	88.6		121	118				
Hardness, Total as CaCO3 unfiltered	<0.35 mg/l	TM152	377		354	337	5660			
Mercury (diss.filt)	<0.01 µg/l	TM183	<0.01		<0.01	<0.01				
Chloride	<2 mg/l	TM184	269		50.6	52.7	139			
Cyanide, Total	<0.05 mg/l	TM227	<0.05		<0.05	<0.05	<0.05			
pH	<1 pH Units	TM256	7.67		7.91	7.85	7.36			
Phenol	<0.002 mg/l	TM259	<0.002		<0.002	<0.002	1.21			
Cresols	<0.006 mg/l	TM259	<0.006		<0.006	<0.006	0.72			
Xylenols	<0.008 mg/l	TM259	<0.008		<0.008	<0.008	<0.08			
Phenols, Total Detected monohydric	<0.016 mg/l	TM259	<0.016		<0.016	<0.016	1.93			
Low Level Hexavalent Chromium	<0.003 mg/l	TM331	<0.003		<0.003	<0.003	<0.06			
PFBA (375-22-4)	<2 ng/l	TM434	39		19.2	16.8				
PFMOPra (377-73-1)	<1 ng/l	TM434	<5		<1	<1				
3:3 FTCA (356-02-5)	<2 ng/l	TM434	<10		<2	<2				
PFPA (2706-90-3)	<1 ng/l	TM434	229		12.7	9.83				
PFMOBA (863090-89-5)	<1 ng/l	TM434	<5		<1	<1				
4:2 FTS (757124-72-4)	<1 ng/l	TM434	<5		<1	<1				
NFDHA (151772-58-6)	<3 ng/l	TM434	<15		<3	<3				



CERTIFICATE OF ANALYSIS

Validated

SDG: 250403-58
Client Ref.: 25/4047

Report Number: 762568
Location: LHR042 Thorney Lane DC1

Superseded Report: 761981

Results Legend			Customer Sample Ref.		Attenuation Pond	Canal 1	Canal 4	Drainage 1A		
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		Surface Water (SW)	Surface Water (SW)	Surface Water (SW)	Surface Water (SW)		
m	mCERTS accredited.				02/04/2025	02/04/2025	02/04/2025	02/04/2025		
aq	Aqueous / settled sample.									
diss.filt	Dissolved / filtered sample.				03/04/2025	03/04/2025	03/04/2025	03/04/2025		
tot.unfilt	Total / unfiltered sample.				250403-58	250403-58	250403-58	250403-58		
* Subcontracted - refer to subcontractor report for accreditation status.					31323513	31323511	31323512	31323514		
** % 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					EW2A	EW2A	EW2A	EW2A		
*** 6:2 FTAB (see appendix)										
1-4+@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFBS (375-73-5)	<1 ng/l	TM434			14.6	5.1	4.67			
					#	#	#			
PFHxA (307-24-4)	<1 ng/l	TM434			115	10.5	9.5			
					#	#	#			
HFPO-DA (13252-13-6)	<2 ng/l	TM434			<10	<2	<2			
					#	#	#			
PFEESA (113507-82-7)	<1 ng/l	TM434			<5	<1	<1			
					#	#	#			
PFHpA (375-85-9)	<1 ng/l	TM434			82	7.8	6.27			
					#	#	#			
PFPeS (2706-91-4)	<1 ng/l	TM434			<5	1.04	1.14			
					#	#	#			
5:3 FTCA (914637-49-3)	<5 ng/l	TM434			<25	<5	<5			
					#	#	#			
ADONA (919005-14-4)	<1 ng/l	TM434			<5	<1	<1			
					#	#	#			
6:2 FTS (27619-97-2)	<1 ng/l	TM434			<5	<1	<1			
					#	#	#			
FBSA (30334-69-1)	<1 ng/l	TM434			<5	<1	<1			
					#	#	#			
PFOA (335-67-1)	<0.65 ng/l	TM434			48.8	11.1	10.3			
					#	#	#			
PFHxS (355-46-4)	<1 ng/l	TM434			7.72	8.75	8.23			
					#	#	#			
PFNA (375-95-1)	<1 ng/l	TM434			6.97	<1	<1			
					#	#	#			
PFecHS (133201-07-7)	<1 ng/l	TM434			<5	1.87	1.83			
					#	#	#			
PFHpS (375-92-8)	<1 ng/l	TM434			<5	<1	<1			
					#	#	#			
8:2 FTS (39108-34-4)	<2 ng/l	TM434			<10	<2	<2			
					#	#	#			
HFPO-TA (13252-14-7)	<5 ng/l	TM434			<25	<5	<5			
					#	#	#			
PFDA (335-76-2)	<2 ng/l	TM434			<10	<2	<2			
					#	#	#			
MeFOSAA (2355-31-9)	<2 ng/l	TM434			<10	<2	<2			
					◆ #	◆ #	◆ #			
7:3 FTCA (812-70-4)	<5 ng/l	TM434			<25	<5	<5			
					#	#	#			
Linear PFOS (1763-23-1)	<0.65 ng/l	TM434			10.6	4.98	4.96			
					#	#	#			
Branched PFOS	<0.65 ng/l	TM434			19.3	7.87	6.81			
					#	#	#			
EtFOSAA (2991-50-6)	<2 ng/l	TM434			<10	<2	<2			
					◆ #	◆ #	◆ #			
PFUnA (2058-94-8)	<2 ng/l	TM434			<10	<2	<2			
					#	#	#			
9CI-PF3ONS (756426-58-1)	<1 ng/l	TM434			<5	<1	<1			
					#	#	#			
PFNS (68259-12-1)	<1 ng/l	TM434			<5	<1	<1			
					#	#	#			
FHxSA (41997-13-1)	<1 ng/l	TM434			<5	<1	<1			
					#	#	#			
PFDoA (307-55-1)	<2 ng/l	TM434			<10	<2	<2			
					#	#	#			
PFDS (335-77-3)	<2 ng/l	TM434			<10	<2	<2			
					#	#	#			
PFTTrDA (72629-94-8)	<3 ng/l	TM434			<15	<3	<3			
					#	#	#			
11CI-PF3OUdS (763051-92-9)	<2 ng/l	TM434			<10	<2	<2			
					#	#	#			
PFUnDS (749786-16-1)	<2 ng/l	TM434			<10	<2	<2			
					#	#	#			
PFTeA (376-06-7)	<1 ng/l	TM434			<5	<1	<1			
					#	#	#			



Location: LHR042 Thorney Lane DC1

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Validated

SDG: 250403-58
Client Ref.: 25/4047

Report Number: 762568

Superseded Report: 761981

Location: LHR042 Thorney Lane DC1

SVOC MS (W) - Aqueous

Results Legend			Customer Sample Ref.	Drainage 1A				
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfiltTotal / 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)			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	Surface Water (SW) 02/04/2025 03/04/2025 250403-58 31323514 EW2A				
Component	LOD/Units	Method						
1,2,4-Trichlorobenzene (aq)	<1 µg/l	TM176	<100	#				
1,2-Dichlorobenzene (aq)	<1 µg/l	TM176	<100	#				
1,3-Dichlorobenzene (aq)	<1 µg/l	TM176	<100	#				
1,4-Dichlorobenzene (aq)	<1 µg/l	TM176	<100	#				
2,4,5-Trichlorophenol (aq)	<1 µg/l	TM176	<100	#				
2,4,6-Trichlorophenol (aq)	<1 µg/l	TM176	<100	#				
2,4-Dichlorophenol (aq)	<1 µg/l	TM176	<100	#				
2,4-Dimethylphenol (aq)	<1 µg/l	TM176	<100	#				
2,4-Dinitrotoluene (aq)	<1 µg/l	TM176	<100	#				
2,6-Dinitrotoluene (aq)	<1 µg/l	TM176	<100	#				
2-Chloronaphthalene (aq)	<1 µg/l	TM176	<100	#				
2-Chlorophenol (aq)	<1 µg/l	TM176	<100	#				
2-Methylnaphthalene (aq)	<1 µg/l	TM176	7360	#				
2-Methylphenol (aq)	<1 µg/l	TM176	<100	#				
2-Nitroaniline (aq)	<1 µg/l	TM176	<100	#				
2-Nitrophenol (aq)	<1 µg/l	TM176	<100	#				
3-Nitroaniline (aq)	<1 µg/l	TM176	<100					
4-Bromophenylphenylether (aq)	<1 µg/l	TM176	<100	#				
4-Chloro-3-methylphenol (aq)	<1 µg/l	TM176	<100	#				
4-Chloroaniline (aq)	<1 µg/l	TM176	<100					
4-Chlorophenylphenylether (aq)	<1 µg/l	TM176	<100	#				
4-Methylphenol (aq)	<1 µg/l	TM176	645	#				
4-Nitroaniline (aq)	<1 µg/l	TM176	<100	#				
4-Nitrophenol (aq)	<1 µg/l	TM176	<100					
Azobenzene (aq)	<1 µg/l	TM176	<100	#				
Acenaphthylene (aq)	<1 µg/l	TM176	<100	#				
Acenaphthene (aq)	<1 µg/l	TM176	148	#				
Anthracene (aq)	<1 µg/l	TM176	<100	#				
bis(2-Chloroethyl)ether (aq)	<1 µg/l	TM176	<100	#				
bis(2-Chloroethoxy)methane (aq)	<1 µg/l	TM176	<100	#				
bis(2-Ethylhexyl) phthalate (aq)	<2 µg/l	TM176	1170	#				
Butylbenzyl phthalate (aq)	<1 µg/l	TM176	<100	#				
Benzo(a)anthracene (aq)	<1 µg/l	TM176	<100	#				



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SDG: 250403-58
Client Ref.: 25/4047

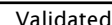
Report Number: 762568

Superseded Report: 761981

Location: LHR042 Thorney Lane DC1

SVOC MS (W) - Aqueous

Results Legend		Customer Sample Ref.	Drainage 1A				
# ISO17025 accredited. 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+@ Sample deviation (see appendix)		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	Surface Water (SW) 02/04/2025 03/04/2025 250403-58 31323514 EW2A				
Component	LOD/Units	Method					
Benzo(b)fluoranthene (aq)	<1 µg/l	TM176	<100 #				
Benzo(k)fluoranthene (aq)	<1 µg/l	TM176	<100 #				
Benzo(a)pyrene (aq)	<1 µg/l	TM176	<100 #				
Benzo(g,h,i)perylene (aq)	<1 µg/l	TM176	<100 #				
Carbazole (aq)	<1 µg/l	TM176	<100 #				
Chrysene (aq)	<1 µg/l	TM176	<100 #				
Dibenzofuran (aq)	<1 µg/l	TM176	<100 #				
n-Dibutyl phthalate (aq)	<1 µg/l	TM176	<100 #				
Diethyl phthalate (aq)	<1 µg/l	TM176	<100 #				
Dibenzo(a,h)anthracene (aq)	<1 µg/l	TM176	<100 #				
Dimethyl phthalate (aq)	<1 µg/l	TM176	<100 #				
n-Dioctyl phthalate (aq)	<5 µg/l	TM176	<500 #				
Fluoranthene (aq)	<1 µg/l	TM176	<100 #				
Fluorene (aq)	<1 µg/l	TM176	294 #				
Hexachlorobenzene (aq)	<1 µg/l	TM176	<100 #				
Hexachlorobutadiene (aq)	<1 µg/l	TM176	<100 #				
Pentachlorophenol (aq)	<1 µg/l	TM176	<100				
Phenol (aq)	<1 µg/l	TM176	683				
n-Nitroso-n-dipropylamine (aq)	<1 µg/l	TM176	<100 #				
Hexachloroethane (aq)	<1 µg/l	TM176	<100 #				
Nitrobenzene (aq)	<1 µg/l	TM176	<100 #				
Naphthalene (aq)	<1 µg/l	TM176	1840 #				
Isophorone (aq)	<1 µg/l	TM176	<100 #				
Hexachlorocyclopentadiene (aq)	<1 µg/l	TM176	<100				
Phenanthrene (aq)	<1 µg/l	TM176	571 #				
Indeno(1,2,3-cd)pyrene (aq)	<1 µg/l	TM176	<100 #				
Pyrene (aq)	<1 µg/l	TM176	117 #				



Superseded Report: 761981

Location: LHR042 Thorney Lane DC1



CERTIFICATE OF ANALYSIS

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SDG: 250403-58
Client Ref.: 25/4047

Report Number: 762568
Location: LHR042 Thorney Lane DC1

Superseded Report: 761981

VOC MS (W)

Results Legend			Customer Sample Ref.		Attenuation Pond	Canal 1	Canal 4	Drainage 1A		
# ISO17025 accredited. 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*§@ Sample deviation (see appendix)	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		Surface Water (SW) 02/04/2025		Surface Water (SW) 02/04/2025	Surface Water (SW) 02/04/2025	Surface Water (SW) 02/04/2025			
Component	LOD/Units	Method	Surface Water (SW) 03/04/2025 250403-58 31323513 EW2A		Surface Water (SW) 03/04/2025 250403-58 31323511 EW2A	Surface Water (SW) 03/04/2025 250403-58 31323512 EW2A	Surface Water (SW) 03/04/2025 250403-58 31323514 EW2A			
Dibromofluoromethane**	%	TM208					107			
Toluene-d8**	%	TM208	96.5		98.5	98	89.8			
4-Bromofluorobenzene**	%	TM208					81.2			
Dichlorodifluoromethane	<1 µg/l	TM208					<100			
Chloromethane	<1 µg/l	TM208					<100	#		
Vinyl chloride	<1 µg/l	TM208					<100	#		
Bromomethane	<1 µg/l	TM208					<100	#		
Chloroethane	<1 µg/l	TM208					<100	#		
Trichlorofluoromethane	<1 µg/l	TM208					<100	#		
1,1-Dichloroethene	<1 µg/l	TM208					<100	#		
Carbon disulphide	<1 µg/l	TM208					<100	#		
Dichloromethane	<3 µg/l	TM208					<300	#		
Methyl tertiary butyl ether (MTBE)	<1 µg/l	TM208	<1	#	<1	#	<100	#		
trans-1,2-Dichloroethene	<1 µg/l	TM208					<100	#		
1,1-Dichloroethane	<1 µg/l	TM208					<100	#		
cis-1,2-Dichloroethene	<1 µg/l	TM208					<100	#		
2,2-Dichloropropane	<1 µg/l	TM208					<100			
Bromochloromethane	<1 µg/l	TM208					<100	#		
Chloroform	<1 µg/l	TM208					<100	#		
1,1,1-Trichloroethane	<1 µg/l	TM208					<100	#		
1,1-Dichloropropene	<1 µg/l	TM208					<100	#		
Carbontetrachloride	<1 µg/l	TM208					<100	#		
1,2-Dichloroethane	<1 µg/l	TM208					<100	#		
Benzene	<1 µg/l	TM208	<1	#	<1	#	<100	#		
Trichloroethene	<1 µg/l	TM208					<100	#		
1,2-Dichloropropane	<1 µg/l	TM208					<100	#		
Dibromomethane	<1 µg/l	TM208					<100	#		
Bromodichloromethane	<1 µg/l	TM208					<100	#		
cis-1,3-Dichloropropene	<1 µg/l	TM208					<100	#		
Toluene	<1 µg/l	TM208	<1	#	<1	#	316	#		
trans-1,3-Dichloropropene	<1 µg/l	TM208					<100	#		
1,1,2-Trichloroethane	<1 µg/l	TM208					<100	#		
1,3-Dichloropropane	<1 µg/l	TM208					<100	#		



CERTIFICATE OF ANALYSIS

Validated

SDG: 250403-58
Client Ref.: 25/4047

Report Number: 762568
Location: LHR042 Thorney Lane DC1

Superseded Report: 761981

VOC MS (W)

Results Legend			Customer Sample Ref.		Attenuation Pond	Canal 1	Canal 4	Drainage 1A		
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		Surface Water (SW) 02/04/2025	Surface Water (SW) 02/04/2025	Surface Water (SW) 02/04/2025	Surface Water (SW) 02/04/2025		
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.					03/04/2025 250403-58 31323513 EW2A	03/04/2025 250403-58 31323511 EW2A	03/04/2025 250403-58 31323512 EW2A	03/04/2025 250403-58 31323514 EW2A		
** % 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								
Tetrachloroethene	<1 µg/l	TM208						<100	#	
Dibromochloromethane	<1 µg/l	TM208						<100	#	
1,2-Dibromoethane	<1 µg/l	TM208						<100	#	
Chlorobenzene	<1 µg/l	TM208						<100	#	
1,1,1,2-Tetrachloroethane	<1 µg/l	TM208						<100	#	
Ethylbenzene	<1 µg/l	TM208			<1	<1	<1	899	#	
m,p-Xylene	<1 µg/l	TM208			1.92	<1	<1	4830	#	
o-Xylene	<1 µg/l	TM208			1.67	<1	<1	2640	#	
Styrene	<1 µg/l	TM208						<100	#	
Bromoform	<1 µg/l	TM208						<100	#	
Isopropylbenzene	<1 µg/l	TM208						926	#	
1,1,2,2-Tetrachloroethane	<1 µg/l	TM208						<100	#	
1,2,3-Trichloropropane	<1 µg/l	TM208						<100	#	
Bromobenzene	<1 µg/l	TM208						<100	#	
Propylbenzene	<1 µg/l	TM208						2510	#	
2-Chlorotoluene	<1 µg/l	TM208						<100	#	
1,3,5-Trimethylbenzene	<1 µg/l	TM208						7160	#	
4-Chlorotoluene	<1 µg/l	TM208						<100	#	
tert-Butylbenzene	<1 µg/l	TM208						<100	#	
1,2,4-Trimethylbenzene	<1 µg/l	TM208						22800	#	
sec-Butylbenzene	<1 µg/l	TM208						2020	#	
4-iso-Propyltoluene	<1 µg/l	TM208						1900	#	
1,3-Dichlorobenzene	<1 µg/l	TM208						<100	#	
1,4-Dichlorobenzene	<1 µg/l	TM208						<100	#	
n-Butylbenzene	<1 µg/l	TM208						<100	#	
1,2-Dichlorobenzene	<1 µg/l	TM208						<100	#	
1,2-Dibromo-3-chloropropane	<1 µg/l	TM208						<100	#	
1,2,4-Trichlorobenzene	<1 µg/l	TM208						<100	#	
Hexachlorobutadiene	<1 µg/l	TM208						<100	#	
tert-Amyl methyl ether (TAME)	<1 µg/l	TM208						<100	#	
Naphthalene	<1 µg/l	TM208						5770	#	
1,2,3-Trichlorobenzene	<1 µg/l	TM208						<100	#	
1,3,5-Trichlorobenzene	<1 µg/l	TM208						<100	#	



CERTIFICATE OF ANALYSIS

Validated

SDG: 250403-58
Client Ref.: 25/4047

Report Number: 762568
Location: LHR042 Thorney Lane DC1

Superseded Report: 761981

Notification of NDPs (No determination possible)

Date Received : 03/04/2025 09:56:37

Sample No	Customer Sample Ref.	Depth (m)	Test	Comment
31323514	Drainage 1A EW2A		PFAS Liquids (Full Suite)	Sample contains oil / product
31323514	Drainage 1A EW2A		Mercury Dissolved	Sample unsuitable for analysis
31323514	Drainage 1A EW2A		Dissolved Metals by ICP-MS	Sample unsuitable for analysis
31323514	Drainage 1A EW2A		Dissolved Organic/Inorganic Carbon	Sample contains oil / product
31323514	Drainage 1A EW2A		PAH Spec MS - Aqueous (W)	Sample unsuitable for analysis



CERTIFICATE OF ANALYSIS

Validated

SDG: 250403-58
Client Ref.: 25/4047

Report Number: 762568
Location: LHR042 Thorney Lane DC1

Superseded Report: 761981

Table of Results - Appendix

Method No	Description
TM178	Determination of Polynuclear Aromatic Hydrocarbons (PAH) by GC-MS in Waters
TM331	Low Level Hexavalent Chromium
TM439	Determination of Extractable Petroleum Hydrocarbons (EPH) CWG banding by GC-FID on liquids
TM152	Analysis of Aqueous Samples by ICP-MS
TM208	Determination of Volatile Organic Compounds by Headspace / GC-MS in Waters
TM227	Determination of Total Cyanide, Free (Easily Liberatable) Cyanide and Thiocyanate
TM256	Determination of pH, EC, TDS and Alkalinity in Aqueous samples
TM183	Determination of Trace Level Mercury in Waters and Leachates by PSA Cold Vapour Atomic Fluorescence Spectrometry
TM184	The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers
TM245	Determination of GRO by Headspace in waters
TM434	Analysis of PFAS
TM090	Determination of Total Organic Carbon/Total Inorganic Carbon in Water and Waste Water
TM099	Determination of Ammonium in Water Samples using the Kone Analyser
TM176	Determination of SVOCs in Water by GCMS
TM259	Determination of Phenols in Waters and Leachates by HPLC

NA = not applicable.

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



CERTIFICATE OF ANALYSIS

Validated

SDG: 250403-58
Client Ref.: 25/4047

Report Number: 762568
Location: LHR042 Thorney Lane DC1

Superseded Report: 761981

Test Completion Dates

Lab Sample No(s)
Customer Sample Ref.

AGS Ref.
Depth
Type

	31323513	31323511	31323512	31323514
	Attenuation Pond	Canal 1	Canal 4	Drainage 1A
	EW2A	EW2A	EW2A	EW2A
	Surface Water	Surface Water	Surface Water	Surface Water
Ammoniacal Nitrogen	07-Apr-2025	07-Apr-2025	07-Apr-2025	06-Apr-2025
Anions by Kone (w)	07-Apr-2025	07-Apr-2025	07-Apr-2025	07-Apr-2025
Cyanide Comp/Free/Total/Thiocyanate	08-Apr-2025	08-Apr-2025	08-Apr-2025	08-Apr-2025
Dissolved Metals by ICP-MS	08-Apr-2025	08-Apr-2025	08-Apr-2025	
Dissolved Organic/Inorganic Carbon	07-Apr-2025	07-Apr-2025	07-Apr-2025	
EPH and CWG by FID	09-Apr-2025	09-Apr-2025	09-Apr-2025	10-Apr-2025
GRO by GC-FID (W)	09-Apr-2025	09-Apr-2025	09-Apr-2025	10-Apr-2025
Low Level Hexavalent Chromium (w)	08-Apr-2025	09-Apr-2025	09-Apr-2025	09-Apr-2025
Mercury Dissolved	09-Apr-2025	09-Apr-2025	09-Apr-2025	
PAH Spec MS - Aqueous (W)	08-Apr-2025	09-Apr-2025	09-Apr-2025	
PFAS Liquids (Full Suite)	17-Apr-2025	17-Apr-2025	17-Apr-2025	
pH Value	08-Apr-2025	08-Apr-2025	08-Apr-2025	08-Apr-2025
Phenols by HPLC (W)	09-Apr-2025	09-Apr-2025	09-Apr-2025	10-Apr-2025
SVOC MS (W) - Aqueous				11-Apr-2025
Total Metals by ICP-MS	08-Apr-2025	08-Apr-2025	08-Apr-2025	08-Apr-2025
TPH CWG (W)	09-Apr-2025	09-Apr-2025	09-Apr-2025	10-Apr-2025
VOC MS (W)	09-Apr-2025	09-Apr-2025	09-Apr-2025	10-Apr-2025



CERTIFICATE OF ANALYSIS

SDG: 250403-58
Client Ref: 25/4047

Report Number: 762568
Location: LHR042 Thorney Lane DC1

Superseded Report: 761981

Appendix

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.

General

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 Anthophyllite	-
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.



Unit 7-8 Hawarden Business Park
Manor Road (off Manor Lane)
Hawarden
Deeside
CH5 3US

Tel: (01244) 528777
email: hawardencustomerservices@alsglobal.com
Website: www.alsenvironmental.co.uk

Concept Engineering Consultants Ltd
218 Northfields Road
London
W13 9SJ

Attention: Gabriela Mandache

CERTIFICATE OF ANALYSIS

Date of report Generation:	25 April 2025
Customer:	Concept Engineering Consultants Ltd
Sample Delivery Group (SDG):	250408-50
Your Reference:	25/4047
Location:	LHR042 Thorney Lane DC1
Report No:	763155
Order Number:	105419 (CL6895)

This report has been revised and directly supersedes 762326 in its entirety.

We received 8 samples on Tuesday April 08, 2025 and 8 of these samples were scheduled for analysis which was completed on Friday April 25, 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





CERTIFICATE OF ANALYSIS

Validated

SDG: 250408-50
Client Ref.: 25/4047

Report Number: 763155
Location: LHR042 Thorney Lane DC1

Superseded Report: 762326

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
31347109	BH25-03	EW3A		07/04/2025
31347110	BH25-05	EW3A		07/04/2025
31347111	DS25-07	EW3A		07/04/2025
31347112	DS25-08	EW3A		07/04/2025
31347113	DS25-09	EW3A		07/04/2025
31347115	DS25-10	EW3A		07/04/2025
31347116	DS25-15	EW1A		07/04/2025
31347117	DS25-16	EW1A		07/04/2025

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



CERTIFICATE OF ANALYSIS

Validated

SDG: 250408-50
Client Ref.: 25/4047

Report Number: 763155
Location: LHR042 Thorney Lane DC1

Superseded Report: 762326

Results Legend X Test N No Determination Possible 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)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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CERTIFICATE OF ANALYSIS

Validated

SDG: 250408-50
Client Ref.: 25/4047

Report Number: 763155
Location: LHR042 Thorney Lane DC1

Superseded Report: 762326

Results Legend



Test



No Determination Possible

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)

Customer
Sample Reference

AGS Reference

Depth (m)

Container

Sample Type

VOC MS (W)

All

NDPs: 0
Tests: 8

31347109

BH25-03

EW3A

0.5l glass bottle
(ALE227)

GW

X

31347111
31347110

DS25-07
BH25-05

EW3A

0.5l glass bottle
(ALE227)

GW

X

Vial (ALE297)

GW

X

NaOH (ALE245)

GW

HNO3 Unfiltered
(ALE204)

GW

HNO3 Filtered
(ALE204)

GW

H2SO4 (ALE244)

GW

Digitube for PFAS
analysis.

GW

500ml Plastic
(ALE208)

GW

250ml Amber Cl.
PTFE/PE (ALE219)

GW

0.5l glass bottle
(ALE227)

GW

Vial (ALE297)

GW

NaOH (ALE245)

GW

HNO3 Unfiltered
(ALE204)

GW

HNO3 Filtered
(ALE204)

GW

H2SO4 (ALE244)

GW

Digitube for PFAS
analysis.

GW

500ml Plastic
(ALE208)

GW

250ml Amber Cl.
PTFE/PE (ALE219)

GW

0.5l glass bottle
(ALE227)

GW

31347113	DS25-09	EW3A		Digitube fo PFAS analysis.	GW		
				500ml Plastic (ALE208)	GW		
				250ml Amber Gl. PTFE/PE (ALE219)	GW		
				0.5l glass bottle (ALE227)	GW		
				Vial (ALE297)	GW	X	
31347112	DS25-08	EW3A		NaOH (ALE245)	GW		
				HNO3 Unfiltered (ALE204)	GW		
				HNO3 Filtered (ALE204)	GW		
				H2SO4 (ALE244)	GW		
				Digitube fo PFAS analysis.	GW		
				500ml Plastic (ALE208)	GW		
				250ml Amber Gl. PTFE/PE (ALE219)	GW		
				0.5l glass bottle (ALE227)	GW		
				Vial (ALE297)	GW	X	
				NaOH (ALE245)	GW		
31347111	DS25-07	EW3A		HNO3 Unfiltered (ALE204)	GW		
				HNO3 Filtered (ALE204)	GW		
				H2SO4 (ALE244)	GW		
				Digitube fo PFAS analysis.	GW		
				500ml Plastic (ALE208)	GW		
				250ml Amber Gl. PTFE/PE (ALE219)	GW		
				0.5l glass bottle (ALE227)	GW		
				Vial (ALE297)	GW		
				NaOH (ALE245)	GW		
				HNO3 Unfiltered (ALE204)	GW		



CERTIFICATE OF ANALYSIS

Validated

SDG: 250408-50
Client Ref.: 25/4047

Report Number: 763155
Location: LHR042 Thorney Lane DC1

Superseded Report: 762326

Results Legend X Test N No Determination Possible 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)		31347113		31347115		31347116	
	Customer Sample Reference		DS25-09		DS25-10		DS25-15	
	AGS Reference		EW3A		EW3A		EW1A	
	Depth (m)							
	Container		H2SO4 (ALE244)	HNO3 Filtered (ALE204)	HNO3 Unfiltered (ALE204)	NaOH (ALE245)	Vial (ALE297)	250ml Amber Gl. PTFE/PE (ALE219)
	Sample Type		GW	GW	GW	GW	GW	GW
Ammoniacal Nitrogen	All	NDPs: 0 Tests: 8	X					X
Anions by Kone (w)	All	NDPs: 0 Tests: 8						X
Cyanide Comp/Free/Total/Thiocyanate	All	NDPs: 0 Tests: 8			X		X	
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 8	X					X
Dissolved Organic/Inorganic Carbon	All	NDPs: 0 Tests: 8						X
EPH and CWG by FID	All	NDPs: 0 Tests: 8						X
GRO by GC-FID (W)	All	NDPs: 0 Tests: 8						X
Low Level Hexavalent Chromium (w)	All	NDPs: 0 Tests: 8						X
Mercury Dissolved	All	NDPs: 0 Tests: 8	X					X
PAH Spec MS - Aqueous (W)	All	NDPs: 0 Tests: 8						X
PFAS Liquids (Full Suite)	All	NDPs: 0 Tests: 8						X
pH Value	All	NDPs: 0 Tests: 8						X
Phenols by HPLC (W)	All	NDPs: 0 Tests: 8	X					X
SVOC MS (W) - Aqueous	All	NDPs: 0 Tests: 1						X
Total Metals by ICP-MS	All	NDPs: 0 Tests: 8		X				

SDG: 250408-50

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Results Legend X Test N No Determination Possible 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)	Customer Sample Reference	AGS Reference	Depth (m)	Container	Sample Type
	31347113	DS25-09	EW3A		H2SO4 (ALE244)	GW
					Digitube for PFAS analysis.	GW
					500ml Plastic (ALE208)	GW
					250ml Amber GL, PTFE/PE (ALE219)	GW
					0.5l glass bottle (ALE227)	GW
					Vial (ALE297)	GW
					NaOH (ALE245)	GW
				HNO3 Unfiltered (ALE204)	GW	
				HNO3 Filtered (ALE204)	GW	
				H2SO4 (ALE244)	GW	
				Digitube for PFAS analysis.	GW	
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				Vial (ALE297)	GW	
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				Digitube for PFAS analysis.	GW	
				500ml Plastic (ALE208)	GW	
				250ml Amber GL, PTFE/PE (ALE219)	GW	
				0.5l glass bottle (ALE227)	GW	

31347117	DS25-16	EW1A		Vial (ALE297)	GW				X
				NaOH (ALE245)	GW				
				HNO3 Unfiltered (ALE204)	GW				
				HNO3 Filtered (ALE204)	GW				
				H2SO4 (ALE244)	GW				
				Digitube fo PFAS analysis.	GW				
				500ml Plastic (ALE208)	GW				
				250ml Amber Cl. PTFE/PE (ALE219)	GW				
				0.5l glass bottle (ALE227)	GW	X			
				Vial (ALE297)	GW				X
31347116	DS25-15	EW1A		NaOH (ALE245)	GW				
				HNO3 Unfiltered (ALE204)	GW				
				HNO3 Filtered (ALE204)	GW				



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Results Legend			Customer Sample Ref.		BH25-03	BH25-05	DS25-07	DS25-08	DS25-09	DS25-10
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)
M	mCERTS accredited.				07/04/2025	07/04/2025	07/04/2025	07/04/2025	07/04/2025	07/04/2025
aq	Aqueous / settled sample.				08/04/2025	08/04/2025	08/04/2025	08/04/2025	08/04/2025	08/04/2025
diss.filt	Dissolved / filtered sample.				250408-50	250408-50	250408-50	250408-50	250408-50	250408-50
tot.unfilt	Total / unfiltered sample.				31347109	31347110	31347111	31347112	31347113	31347115
* Subcontracted - refer to subcontractor report for accreditation status.					EW3A	EW3A	EW3A	EW3A	EW3A	EW3A
** % 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								
Carbon, Organic (diss.filt)	<3 mg/l	TM090			11.5	33.9	10.5	9.64	3.94	12.1
Ammoniacal Nitrogen as N	<0.2 mg/l	TM099			0.808	153	3.43	4.84	0.402	7.59
Ammoniacal Nitrogen as NH3	<0.2 mg/l	TM099								
Antimony (diss.filt)	<1 µg/l	TM152			<1	<1	1.23	<1	<1	<1
Arsenic (diss.filt)	<0.5 µg/l	TM152			9.56	38.5	10.4	8.64	1.35	22.2
Beryllium (diss.filt)	<0.1 µg/l	TM152			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (diss.filt)	<0.08 µg/l	TM152			<0.08	<0.08	<0.08	<0.08	0.129	<0.08
Chromium (diss.filt)	<1 µg/l	TM152			<1	<1	<1	<1	<1	<1
Copper (diss.filt)	<0.3 µg/l	TM152			<0.3	0.922	2.27	<0.3	1.74	<0.3
Lead (diss.filt)	<0.2 µg/l	TM152			<0.2	0.356	<0.2	<0.2	<0.2	<0.2
Manganese (diss.filt)	<3 µg/l	TM152			3270	307	<3	1640	524	253
Nickel (diss.filt)	<0.4 µg/l	TM152			27.4	32.3	5.64	13.1	9.28	33.4
Selenium (diss.filt)	<1 µg/l	TM152			<1	1.42	2.11	<1	<1	<1
Vanadium (diss.filt)	<1 µg/l	TM152			<1	4.35	26.9	<1	<1	1.49
Zinc (diss.filt)	<1 µg/l	TM152			5.59	1.6	2.13	6.07	2.24	1.13
Calcium (Dis.Filt)	<0.2 mg/l	TM152			163	7.25	45.8	38.8	45.1	47.5
Hardness, Total as CaCO3 unfiltered	<0.35 mg/l	TM152			482	29.4	120	114	130	142
Mercury (diss.filt)	<0.01 µg/l	TM183			<0.01	0.091	0.0108	<0.01	<0.01	0.0184
Chloride	<2 mg/l	TM184			41.3	73.7	55.3	74.3	79.6	65.9
Cyanide, Total	<0.05 mg/l	TM227			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
pH	<1 pH Units	TM256			7.28	9.7	11.3	7.83	7.78	9.41
Phenol	<0.002 mg/l	TM259			<0.002	0.09	<0.002	<0.002	<0.002	<0.002
Cresols	<0.006 mg/l	TM259			<0.006	0.04	<0.006	<0.006	<0.006	0.02
Xylenols	<0.008 mg/l	TM259			<0.008	0.03	<0.008	<0.008	<0.008	0.02
Phenols, Total Detected monohydric	<0.016 mg/l	TM259			<0.016	0.16	<0.016	<0.016	<0.016	0.04
Low Level Hexavalent Chromium	<0.003 mg/l	TM331			<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
PFBA (375-22-4)	<2 ng/l	TM434			53.3	37.2	<20	21.1	24.7	<10
PFMOPra (377-73-1)	<1 ng/l	TM434			<5	<5	<10	<5	<1	<5
3:3 FTCA (356-02-5)	<2 ng/l	TM434			<10	<10	<20	<10	<2	<10
PFPA (2706-90-3)	<1 ng/l	TM434			80.9	114	<10	61.9	12.8	15.8
PFMOBA (863090-89-5)	<1 ng/l	TM434			<5	<5	<10	<5	<1	<5
4:2 FTS (757124-72-4)	<1 ng/l	TM434			<5	<5	<10	<5	<1	<5
NFDHA (151772-58-6)	<3 ng/l	TM434			<15	<15	<30	<15	<3	<15



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Results Legend			Customer Sample Ref.		BH25-03	BH25-05	DS25-07	DS25-08	DS25-09	DS25-10
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfiltTotal / 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)			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		Ground Water (GW) 07/04/2025 08/04/2025 250408-50 31347109 EW3A	Ground Water (GW) 07/04/2025 08/04/2025 250408-50 31347110 EW3A	Ground Water (GW) 07/04/2025 08/04/2025 250408-50 31347111 EW3A	Ground Water (GW) 07/04/2025 08/04/2025 250408-50 31347112 EW3A	Ground Water (GW) 07/04/2025 08/04/2025 250408-50 31347113 EW3A	Ground Water (GW) 07/04/2025 08/04/2025 250408-50 31347115 EW3A
Component	LOD/Units	Method								
PFBS (375-73-5)	<1 ng/l	TM434			55.5 #	22.8 #	<10 #	8.46 4 #	5.01 #	28 4 #
PFHxA (307-24-4)	<1 ng/l	TM434			72.5 #	62.1 #	19.4 #	42.8 4 #	5.03 #	13.9 4 #
HFPO-DA (13252-13-6)	<2 ng/l	TM434			<10 #	<10 #	<20 #	<10 4 #	<2 #	<10 4 #
PFEESA (113507-82-7)	<1 ng/l	TM434			<5 #	<5 #	<10 #	<5 4 #	<1 #	<5 4 #
PFHpA (375-85-9)	<1 ng/l	TM434			31.1 #	39 #	18 #	30.9 4 #	5.16 #	12.2 4 #
PFPeS (2706-91-4)	<1 ng/l	TM434			9.26 #	7.72 #	10.2 #	6.56 4 #	1.36 #	<5 4 #
5:3 FTCA (914637-49-3)	<5 ng/l	TM434			<25 #	<25 #	<50 #	<25 4 #	<5 #	<25 4 #
ADONA (919005-14-4)	<1 ng/l	TM434			<5 #	<5 #	<10 #	<5 4 #	<1 #	<5 4 #
6:2 FTS (27619-97-2)	<1 ng/l	TM434			19.9 #	61.9 #	<10 #	7.11 4 #	4.14 #	<5 4 #
FBSA (30334-69-1)	<1 ng/l	TM434			19 #	<5 #	<10 #	<5 4 #	3.34 #	7.41 4 #
PFOA (335-67-1)	<0.65 ng/l	TM434			55.6 #	90.6 #	30.6 #	56.6 4 #	15.2 #	20.1 4 #
PFHxS (355-46-4)	<1 ng/l	TM434			136 #	22 #	14.7 #	20.2 4 #	8.06 #	8.6 4 #
PFNA (375-95-1)	<1 ng/l	TM434			<5 #	6.95 #	<10 #	<5 4 #	1.98 #	<5 4 #
PFecHS (133201-07-7)	<1 ng/l	TM434			<5 #	<5 #	<10 #	<5 4 #	<1 #	<5 4 #
PFHpS (375-92-8)	<1 ng/l	TM434			<5 #	<5 #	<10 #	<5 4 #	<1 #	<5 4 #
8:2 FTS (39108-34-4)	<2 ng/l	TM434			<10 #	<10 #	<20 #	<10 4 #	<2 #	<10 4 #
HFPO-TA (13252-14-7)	<5 ng/l	TM434			<25 #	<25 #	<50 #	<25 4 #	<5 #	<25 4 #
PFDA (335-76-2)	<2 ng/l	TM434			<10 #	<10 #	<20 #	<10 4 #	<2 #	<10 4 #
MeFOSAA (2355-31-9)	<2 ng/l	TM434			<10 ◆ #	<10 ◆ #	<20 ◆ #	<10 4 ◆ #	<2 ◆ #	<10 4 ◆ #
7:3 FTCA (812-70-4)	<5 ng/l	TM434			<25 #	<25 #	<50 #	<25 4 #	<5 #	<25 4 #
Linear PFOS (1763-23-1)	<0.65 ng/l	TM434			44.6 #	71.2 #	21.8 #	24.2 4 #	22 #	12.1 4 #
Branched PFOS	<0.65 ng/l	TM434			70.7 #	46.2 #	18.8 #	11.6 4 #	16.6 #	15.3 4 #
EtFOSAA (2991-50-6)	<2 ng/l	TM434			<10 ◆ #	<10 ◆ #	<20 ◆ #	<10 4 ◆ #	<2 ◆ #	<10 4 ◆ #
PFUnA (2058-94-8)	<2 ng/l	TM434			<10 #	<10 #	<20 #	<10 4 #	<2 #	<10 4 #
9CI-PF3ONS (756426-58-1)	<1 ng/l	TM434			<5 #	<5 #	<10 #	<5 4 #	<1 #	<5 4 #
PFNS (68259-12-1)	<1 ng/l	TM434			<5 #	<5 #	<10 #	<5 4 #	<1 #	<5 4 #
FHxSA (41997-13-1)	<1 ng/l	TM434			<5 #	<5 #	<10 #	<5 4 #	<1 #	<5 4 #
PFDoA (307-55-1)	<2 ng/l	TM434			<10 #	<10 #	<20 #	<10 4 #	<2 #	<10 4 #
PFDS (335-77-3)	<2 ng/l	TM434			<10 #	<10 #	<20 #	<10 4 #	<2 #	<10 4 #
PFTrDA (72629-94-8)	<3 ng/l	TM434			<15 #	<15 #	<30 #	<15 4 #	<3 #	<15 4 #
11CI-PF3OUdS (763051-92-9)	<2 ng/l	TM434			<10 #	<10 #	<20 #	<10 4 #	<2 #	<10 4 #
PFUnDS (749786-16-1)	<2 ng/l	TM434			<10 #	<10 #	<20 #	<10 4 #	<2 #	<10 4 #
PFTeA (376-06-7)	<1 ng/l	TM434			<5 #	<5 #	<10 #	<5 4 #	<1 #	<5 4 #



CERTIFICATE OF ANALYSIS

Validated

SDG: 250408-50
Client Ref.: 25/4047

Report Number: 763155
Location: LHR042 Thorney Lane DC1

Superseded Report: 762326

Results Legend		Customer Sample Ref.	DS25-15	DS25-16				
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfiltTotal / 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)		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	Ground Water (GW) 07/04/2025	Ground Water (GW) 07/04/2025				
Component	LOD/Units	Method						
Carbon, Organic (diss.filt)	<3 mg/l	TM090	4.56	<3				
Ammoniacal Nitrogen as N	<0.2 mg/l	TM099	0.429	<0.2				
Ammoniacal Nitrogen as NH3	<0.2 mg/l	TM099	0.521	<0.2				
Antimony (diss.filt)	<1 µg/l	TM152	<1	<1				
Arsenic (diss.filt)	<0.5 µg/l	TM152	1.29	<0.5				
Beryllium (diss.filt)	<0.1 µg/l	TM152	<0.1	<0.1				
Cadmium (diss.filt)	<0.08 µg/l	TM152	0.118	<0.08				
Chromium (diss.filt)	<1 µg/l	TM152	<1	<1				
Copper (diss.filt)	<0.3 µg/l	TM152	1.53	<0.3				
Lead (diss.filt)	<0.2 µg/l	TM152	<0.2	<0.2				
Manganese (diss.filt)	<3 µg/l	TM152	532	<3				
Nickel (diss.filt)	<0.4 µg/l	TM152	8.88	<0.4				
Selenium (diss.filt)	<1 µg/l	TM152	<1	<1				
Vanadium (diss.filt)	<1 µg/l	TM152	<1	<1				
Zinc (diss.filt)	<1 µg/l	TM152	1.98	<1				
Calcium (Dis.Filt)	<0.2 mg/l	TM152	45.7	54.5				
Hardness, Total as CaCO3 unfiltered	<0.35 mg/l	TM152	129	200				
Mercury (diss.filt)	<0.01 µg/l	TM183	<0.01	<0.01				
Chloride	<2 mg/l	TM184	78.9	8.2				
Cyanide, Total	<0.05 mg/l	TM227	<0.05	<0.05				
pH	<1 pH Units	TM256	7.82	7.91				
Phenol	<0.002 mg/l	TM259	<0.002	<0.002				
Cresols	<0.006 mg/l	TM259	<0.006	<0.006				
Xylenols	<0.008 mg/l	TM259	<0.008	<0.008				
Phenols, Total Detected monohydric	<0.016 mg/l	TM259	<0.016	<0.016				
Low Level Hexavalent Chromium	<0.003 mg/l	TM331	<0.003	<0.003				
PFBA (375-22-4)	<2 ng/l	TM434	21.3	<2				
PFMOPra (377-73-1)	<1 ng/l	TM434	<1	<1				
3:3 FTCA (356-02-5)	<2 ng/l	TM434	<2	<2				
PFPA (2706-90-3)	<1 ng/l	TM434	9.71	<1				
PFMOBA (863090-89-5)	<1 ng/l	TM434	<1	<1				
4:2 FTS (757124-72-4)	<1 ng/l	TM434	<1	<1				
NFDHA (151772-58-6)	<3 ng/l	TM434	<3	<3				



CERTIFICATE OF ANALYSIS

Validated

SDG: 250408-50
Client Ref.: 25/4047

Report Number: 763155
Location: LHR042 Thorney Lane DC1

Superseded Report: 762326

Results Legend		Customer Sample Ref. Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	DS25-15		DS25-16				
#	ISO17025 accredited.		Ground Water (GW) 07/04/2025 08/04/2025 250408-50 31347116 EW1A	Ground Water (GW) 07/04/2025 08/04/2025 250408-50 31347117 EW1A					
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**	Sample deviation (see appendix)								
Component	LOD/Units	Method							
PFBS (375-73-5)	<1 ng/l	TM434	6.41	<1					
			#	#					
PFHxA (307-24-4)	<1 ng/l	TM434	5.34	<1					
			#	#					
HFPO-DA (13252-13-6)	<2 ng/l	TM434	<2	<2					
			#	#					
PFEESA (113507-82-7)	<1 ng/l	TM434	<1	<1					
			#	#					
PFHpA (375-85-9)	<1 ng/l	TM434	4.62	<1					
			#	#					
PFPeS (2706-91-4)	<1 ng/l	TM434	1.58	<1					
			#	#					
5:3 FTCA (914637-49-3)	<5 ng/l	TM434	<5	<5					
			#	#					
ADONA (919005-14-4)	<1 ng/l	TM434	<1	<1					
			#	#					
6:2 FTS (27619-97-2)	<1 ng/l	TM434	3.83	<1					
			#	#					
FBSA (30334-69-1)	<1 ng/l	TM434	2.73	<1					
			#	#					
PFOA (335-67-1)	<0.65 ng/l	TM434	14.7	<0.65					
			#	#					
PFHxS (355-46-4)	<1 ng/l	TM434	7.16	<1					
			#	#					
PFNA (375-95-1)	<1 ng/l	TM434	<1	<1					
			#	#					
PFecHS (133201-07-7)	<1 ng/l	TM434	<1	<1					
			#	#					
PFHpS (375-92-8)	<1 ng/l	TM434	<1	<1					
			#	#					
8:2 FTS (39108-34-4)	<2 ng/l	TM434	<2	<2					
			#	#					
HFPO-TA (13252-14-7)	<5 ng/l	TM434	<5	<5					
			#	#					
PFDA (335-76-2)	<2 ng/l	TM434	2.31	<2					
			#	#					
MeFOSAA (2355-31-9)	<2 ng/l	TM434	<2	<2					
			◆ #	◆ #					
7:3 FTCA (812-70-4)	<5 ng/l	TM434	<5	<5					
			#	#					
Linear PFOS (1763-23-1)	<0.65 ng/l	TM434	21.7	<0.65					
			#	#					
Branched PFOS	<0.65 ng/l	TM434	16.8	<0.65					
			#	#					
EtFOSAA (2991-50-6)	<2 ng/l	TM434	<2	<2					
			◆ #	◆ #					
PFUnA (2058-94-8)	<2 ng/l	TM434	<2	<2					
			#	#					
9CI-PF3ONS (756426-58-1)	<1 ng/l	TM434	<1	<1					
			#	#					
PFNS (68259-12-1)	<1 ng/l	TM434	<1	<1					
			#	#					
FHxSA (41997-13-1)	<1 ng/l	TM434	<1	<1					
			#	#					
PFDoA (307-55-1)	<2 ng/l	TM434	<2	<2					
			#	#					
PFDS (335-77-3)	<2 ng/l	TM434	<2	<2					
			#	#					
PFTTrDA (72629-94-8)	<3 ng/l	TM434	<3	<3					
			#	#					
11CI-PF3OUdS (763051-92-9)	<2 ng/l	TM434	<2	<2					
			#	#					
PFUnDS (749786-16-1)	<2 ng/l	TM434	<2	<2					
			#	#					
PFTeA (376-06-7)	<1 ng/l	TM434	<1	<1					
			#	#					

SDG: 250408-50
Client Ref.: 25/4047

Report Number: 763155

Superseded Report: 762326

Location: LHR042 Thorney Lane DC1

[illegible]



CERTIFICATE OF ANALYSIS

Validated

SDG: 250408-50
Client Ref.: 25/4047

Report Number: 763155

Superseded Report: 762326

Location: LHR042 Thorney Lane DC1

PAH Spec MS - Aqueous (W)

Results Legend			Customer Sample Ref.		DS25-15		DS25-16					
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfiltTotal / 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)			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		Ground Water (GW) 07/04/2025 08/04/2025 250408-50 31347116 EW1A		Ground Water (GW) 07/04/2025 08/04/2025 250408-50 31347117 EW1A					
Component	LOD/Units	Method										
Naphthalene (aq)	<0.01 µg/l	TM178	<0.1		<0.1		#					
Acenaphthene (aq)	<0.005 µg/l	TM178	<0.005		<0.005		#					
Acenaphthylene (aq)	<0.005 µg/l	TM178	<0.005		<0.005		#					
Fluoranthene (aq)	<0.005 µg/l	TM178	<0.005		<0.005		#					
Anthracene (aq)	<0.005 µg/l	TM178	<0.005		<0.005		#					
Phenanthrene (aq)	<0.005 µg/l	TM178	<0.005		<0.005		#					
Fluorene (aq)	<0.005 µg/l	TM178	<0.005		<0.005		#					
Chrysene (aq)	<0.005 µg/l	TM178	<0.005		<0.005		#					
Pyrene (aq)	<0.005 µg/l	TM178	0.0327		<0.005		#					
Benzo(a)anthracene (aq)	<0.005 µg/l	TM178	<0.005		<0.005		#					
Benzo(b)fluoranthene (aq)	<0.005 µg/l	TM178	<0.005		<0.005		#					
Benzo(k)fluoranthene (aq)	<0.005 µg/l	TM178	<0.005		<0.005		#					
Benzo(a)pyrene (aq)	<0.002 µg/l	TM178	<0.002		<0.002		#					
Dibenzo(a,h)anthracene (aq)	<0.005 µg/l	TM178	<0.005		<0.005		#					
Benzo(g,h,i)perylene (aq)	<0.005 µg/l	TM178	<0.005		<0.005		#					
Indeno(1,2,3-cd)pyrene (aq)	<0.005 µg/l	TM178	<0.005		<0.005		#					
PAH, Total Detected USEPA 16 (aq)	<0.082 µg/l	TM178	<0.082		<0.082		#					



CERTIFICATE OF ANALYSIS

Validated

SDG: 250408-50
Client Ref.: 25/4047

Report Number: 763155
Location: LHR042 Thorney Lane DC1

Superseded Report: 762326

SVOC MS (W) - Aqueous

Results Legend			Customer Sample Ref.	DS25-10				
# ISO17025 accredited. 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*§@ Sample deviation (see appendix)			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	Ground Water (GW) 07/04/2025 08/04/2025 250408-50 31347115 EW3A				
Component	LOD/Units	Method						
1,2,4-Trichlorobenzene (aq)	<1 µg/l	TM176	<2	#				
1,2-Dichlorobenzene (aq)	<1 µg/l	TM176	<2	#				
1,3-Dichlorobenzene (aq)	<1 µg/l	TM176	<2	#				
1,4-Dichlorobenzene (aq)	<1 µg/l	TM176	<2	#				
2,4,5-Trichlorophenol (aq)	<1 µg/l	TM176	<2	#				
2,4,6-Trichlorophenol (aq)	<1 µg/l	TM176	<2	#				
2,4-Dichlorophenol (aq)	<1 µg/l	TM176	<2	#				
2,4-Dimethylphenol (aq)	<1 µg/l	TM176	5.03	#				
2,4-Dinitrotoluene (aq)	<1 µg/l	TM176	<2	#				
2,6-Dinitrotoluene (aq)	<1 µg/l	TM176	<2	#				
2-Chloronaphthalene (aq)	<1 µg/l	TM176	<2	#				
2-Chlorophenol (aq)	<1 µg/l	TM176	<2	#				
2-Methylnaphthalene (aq)	<1 µg/l	TM176	<2	#				
2-Methylphenol (aq)	<1 µg/l	TM176	<2	#				
2-Nitroaniline (aq)	<1 µg/l	TM176	<2	#				
2-Nitrophenol (aq)	<1 µg/l	TM176	<2	#				
3-Nitroaniline (aq)	<1 µg/l	TM176	<2					
4-Bromophenylphenylether (aq)	<1 µg/l	TM176	<2	#				
4-Chloro-3-methylphenol (aq)	<1 µg/l	TM176	<2	#				
4-Chloroaniline (aq)	<1 µg/l	TM176	<2					
4-Chlorophenylphenylether (aq)	<1 µg/l	TM176	<2	#				
4-Methylphenol (aq)	<1 µg/l	TM176	<2	#				
4-Nitroaniline (aq)	<1 µg/l	TM176	<2	#				
4-Nitrophenol (aq)	<1 µg/l	TM176	<2					
Azobenzene (aq)	<1 µg/l	TM176	<2	#				
Acenaphthylene (aq)	<1 µg/l	TM176	<2	#				
Acenaphthene (aq)	<1 µg/l	TM176	<2	#				
Anthracene (aq)	<1 µg/l	TM176	<2	#				
bis(2-Chloroethyl)ether (aq)	<1 µg/l	TM176	<2	#				
bis(2-Chloroethoxy)methane (aq)	<1 µg/l	TM176	<2	#				
bis(2-Ethylhexyl) phthalate (aq)	<2 µg/l	TM176	<4	#				
Butylbenzyl phthalate (aq)	<1 µg/l	TM176	<2	#				
Benzo(a)anthracene (aq)	<1 µg/l	TM176	<2	#				



CERTIFICATE OF ANALYSIS

Validated

SDG: 250408-50
Client Ref.: 25/4047

Report Number: 763155
Location: LHR042 Thorney Lane DC1

Superseded Report: 762326

SVOC MS (W) - Aqueous

Results Legend			Customer Sample Ref.	DS25-10				
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfiltTotal / 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)			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	Ground Water (GW) 07/04/2025 08/04/2025 250408-50 31347115 EW3A				
Component	LOD/Units	Method						
Benzo(b)fluoranthene (aq)	<1 µg/l	TM176	<2	#				
Benzo(k)fluoranthene (aq)	<1 µg/l	TM176	<2	#				
Benzo(a)pyrene (aq)	<1 µg/l	TM176	<2	#				
Benzo(g,h,i)perylene (aq)	<1 µg/l	TM176	<2	#				
Carbazole (aq)	<1 µg/l	TM176	<2	#				
Chrysene (aq)	<1 µg/l	TM176	<2	#				
Dibenzofuran (aq)	<1 µg/l	TM176	<2	#				
n-Dibutyl phthalate (aq)	<1 µg/l	TM176	<2	#				
Diethyl phthalate (aq)	<1 µg/l	TM176	<2	#				
Dibenzo(a,h)anthracene (aq)	<1 µg/l	TM176	<2	#				
Dimethyl phthalate (aq)	<1 µg/l	TM176	<2	#				
n-Dioctyl phthalate (aq)	<5 µg/l	TM176	<10	#				
Fluoranthene (aq)	<1 µg/l	TM176	<2	#				
Fluorene (aq)	<1 µg/l	TM176	<2	#				
Hexachlorobenzene (aq)	<1 µg/l	TM176	<2	#				
Hexachlorobutadiene (aq)	<1 µg/l	TM176	<2	#				
Pentachlorophenol (aq)	<1 µg/l	TM176	<2					
Phenol (aq)	<1 µg/l	TM176	<2					
n-Nitroso-n-dipropylamine (aq)	<1 µg/l	TM176	<2	#				
Hexachloroethane (aq)	<1 µg/l	TM176	<2	#				
Nitrobenzene (aq)	<1 µg/l	TM176	<2	#				
Naphthalene (aq)	<1 µg/l	TM176	<2	#				
Isophorone (aq)	<1 µg/l	TM176	<2	#				
Hexachlorocyclopentadiene (aq)	<1 µg/l	TM176	<2					
Phenanthrene (aq)	<1 µg/l	TM176	<2	#				
Indeno(1,2,3-cd)pyrene (aq)	<1 µg/l	TM176	<2	#				
Pyrene (aq)	<1 µg/l	TM176	<2	#				



CERTIFICATE OF ANALYSIS

Validated

SDG: 250408-50
Client Ref.: 25/4047

Report Number: 763155
Location: LHR042 Thorney Lane DC1

Superseded Report: 762326

TPH CWG (W)

Results Legend			Customer Sample Ref.		DS25-15		DS25-16					
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfiltTotal / 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)	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		Ground Water (GW) 07/04/2025 08/04/2025 250408-50 31347116 EW1A		Ground Water (GW) 07/04/2025 08/04/2025 250408-50 31347117 EW1A							
Component	LOD/Units	Method	95		91							
GRO Surrogate % recovery**	%	TM245										
GRO >C5-C12 (HS_1D_TOTAL)	<50 µg/l	TM245	<50 #		<50 #							
Aliphatics >C5-C6 (HS_1D_AL)	<10 µg/l	TM245	<10		<10							
Aliphatics >C6-C8 (HS_1D_AL)	<10 µg/l	TM245	<10		<10							
Aliphatics >C8-C10 (HS_1D_AL)	<10 µg/l	TM245	<10		<10							
Aliphatics >C10-C12 (HS_1D_AL)	<10 µg/l	TM245	<10		<10							
Aliphatics >C12-C16 (aq) (SPECD_AL1_W)	<10 µg/l	TM439	<10		<10							
Aliphatics >C16-C21 (aq) (SPECD_AL2_W)	<10 µg/l	TM439	<10		<10							
Aliphatics >C21-C35 (aq) (SPECD_AL3_W)	<10 µg/l	TM439	<10		<10							
Total Aliphatics >C12-C35 (aq) (EPHAL12_35T_GC_W)	<10 µg/l	TM439	<10		<10							
Aromatics >EC5-EC7 (HS_1D_AR)	<10 µg/l	TM245	<10		<10							
Aromatics >EC7-EC8 (HS_1D_AR)	<10 µg/l	TM245	<10		<10							
Aromatics >EC8-EC10	<10 µg/l	TM245	<10		<10							
Aromatics >EC10-EC12	<10 µg/l	TM245	<10		<10							
Aromatics >EC12-EC16 (aq) (SPECD_AROM1_W)	<10 µg/l	TM439	<10		<10							
Aromatics >EC16-EC21 (aq) (SPECD_AROM2_W)	<10 µg/l	TM439	<10		<10							
Aromatics >EC21-EC35 (aq) (SPECD_AROM3_W)	<10 µg/l	TM439	<10		<10							
Total Aromatics >EC12-EC35 (aq) (EPHAR12_35T_GC_W)	<10 µg/l	TM439	<10		<10							
Total Aliphatics & Aromatics >C5-35 (aq)	<10 µg/l	TM439	<10		<10							



CERTIFICATE OF ANALYSIS

Validated

SDG: 250408-50
Client Ref.: 25/4047

Report Number: 763155

Superseded Report: 762326

Location: LHR042 Thorney Lane DC1

VOC MS (W)

Results Legend			Customer Sample Ref.		BH25-03	BH25-05	DS25-07	DS25-08	DS25-09	DS25-10
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfiltTotal / 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)			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		Ground Water (GW) 07/04/2025 08/04/2025 250408-50 31347109 EW3A	Ground Water (GW) 07/04/2025 08/04/2025 250408-50 31347110 EW3A	Ground Water (GW) 07/04/2025 08/04/2025 250408-50 31347111 EW3A	Ground Water (GW) 07/04/2025 08/04/2025 250408-50 31347112 EW3A	Ground Water (GW) 07/04/2025 08/04/2025 250408-50 31347113 EW3A	Ground Water (GW) 07/04/2025 08/04/2025 250408-50 31347115 EW3A
Component	LOD/Units	Method								
Dibromofluoromethane**	%	TM208								106
Toluene-d8**	%	TM208	98.9	98.2	98.1	99.3	99.4	99.3		
4-Bromofluorobenzene**	%	TM208								99.2
Dichlorodifluoromethane	<1 µg/l	TM208								<1
Chloromethane	<1 µg/l	TM208								<1
Vinyl chloride	<1 µg/l	TM208								#
Bromomethane	<1 µg/l	TM208								#
Chloroethane	<1 µg/l	TM208								#
Trichlorofluoromethane	<1 µg/l	TM208								#
1,1-Dichloroethene	<1 µg/l	TM208								#
Carbon disulphide	<1 µg/l	TM208								#
Dichloromethane	<3 µg/l	TM208								#
Methyl tertiary butyl ether (MTBE)	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	<1	#
trans-1,2-Dichloroethene	<1 µg/l	TM208								#
1,1-Dichloroethane	<1 µg/l	TM208								#
cis-1,2-Dichloroethene	<1 µg/l	TM208								#
2,2-Dichloropropane	<1 µg/l	TM208								#
Bromochloromethane	<1 µg/l	TM208								#
Chloroform	<1 µg/l	TM208								#
1,1,1-Trichloroethane	<1 µg/l	TM208								#
1,1-Dichloropropene	<1 µg/l	TM208								#
Carbontetrachloride	<1 µg/l	TM208								#
1,2-Dichloroethane	<1 µg/l	TM208								#
Benzene	<1 µg/l	TM208	<1	1.46	<1	<1	<1	<1	<1	#
Trichloroethene	<1 µg/l	TM208								#
1,2-Dichloropropane	<1 µg/l	TM208								#
Dibromomethane	<1 µg/l	TM208								#
Bromodichloromethane	<1 µg/l	TM208								#
cis-1,3-Dichloropropene	<1 µg/l	TM208								#
Toluene	<1 µg/l	TM208	<1	2.91	<1	<1	<1	<1	<1	#
trans-1,3-Dichloropropene	<1 µg/l	TM208								#
1,1,2-Trichloroethane	<1 µg/l	TM208								#
1,3-Dichloropropane	<1 µg/l	TM208								#



CERTIFICATE OF ANALYSIS

Validated

SDG: 250408-50
Client Ref.: 25/4047

Report Number: 763155

Superseded Report: 762326

Location: LHR042 Thorney Lane DC1

VOC MS (W)

Results Legend			Customer Sample Ref.		BH25-03	BH25-05	DS25-07	DS25-08	DS25-09	DS25-10
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)
M	mCERTS accredited.				07/04/2025	07/04/2025	07/04/2025	07/04/2025	07/04/2025	07/04/2025
AQ	Aqueous / settled sample.									
Diss.	filtr Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.									
*	Subcontracted - refer to subcontractor report for accreditation status.				08/04/2025	08/04/2025	08/04/2025	08/04/2025	08/04/2025	08/04/2025
**	% 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				250408-50	250408-50	250408-50	250408-50	250408-50	250408-50
***	6:2 FTAB (see appendix)				31347109	31347110	31347111	31347112	31347113	31347115
1-4	Sample deviation (see appendix)				EW3A	EW3A	EW3A	EW3A	EW3A	EW3A
Component	LOD/Units	Method								
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 #	<1 #	<1 #	<1 #	<1 #	<1 #
m,p-Xylene	<1 µg/l	TM208			<1 #	1.19 #	<1 #	<1 #	<1 #	<1 #
o-Xylene	<1 µg/l	TM208			<1 #	1.12 #	<1 #	<1 #	<1 #	<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								2.2 #
1,2,3-Trichlorobenzene	<1 µg/l	TM208								<1 #
1,3,5-Trichlorobenzene	<1 µg/l	TM208								<1 #



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SDG: 250408-50
Client Ref.: 25/4047

Report Number: 763155
Location: LHR042 Thorney Lane DC1

Superseded Report: 762326

VOC MS (W)

Results Legend			Customer Sample Ref.		DS25-15		DS25-16					
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfiltTotal / 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)			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		Ground Water (GW) 07/04/2025 08/04/2025 250408-50 31347116 EW1A		Ground Water (GW) 07/04/2025 08/04/2025 250408-50 31347117 EW1A					
Component	LOD/Units	Method										
Toluene-d8**	%	TM208	99.7		100							
Methyl tertiary butyl ether (MTBE)	<1 µg/l	TM208	<1		<1		#		#			
Benzene	<1 µg/l	TM208	<1		<1		#		#			
Toluene	<1 µg/l	TM208	<1		<1		#		#			
Ethylbenzene	<1 µg/l	TM208	<1		<1		#		#			
m,p-Xylene	<1 µg/l	TM208	<1		<1		#		#			
o-Xylene	<1 µg/l	TM208	<1		<1		#		#			
Sum of detected Xylenes	<2 µg/l	TM208	<2		<2							
Sum of BTEX	<5 µg/l	TM208	<5		<5							



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Table of Results - Appendix

Method No	Description
TM090	Determination of Total Organic Carbon/Total Inorganic Carbon in Water and Waste Water
TM099	Determination of Ammonium in Water Samples using the Kone Analyser
TM176	Determination of SVOCs in Water by GCMS
TM259	Determination of Phenols in Waters and Leachates by HPLC
TM152	Analysis of Aqueous Samples by ICP-MS
TM208	Determination of Volatile Organic Compounds by Headspace / GC-MS in Waters
TM227	Determination of Total Cyanide, Free (Easily Liberatable) Cyanide and Thiocyanate
TM256	Determination of pH, EC, TDS and Alkalinity in Aqueous samples
TM178	Determination of Polynuclear Aromatic Hydrocarbons (PAH) by GC-MS in Waters
TM331	Low Level Hexavalent Chromium
TM439	Determination of Extractable Petroleum Hydrocarbons (EPH) CWG banding by GC-FID on liquids
TM183	Determination of Trace Level Mercury in Waters and Leachates by PSA Cold Vapour Atomic Fluorescence Spectrometry
TM184	The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers
TM245	Determination of GRO by Headspace in waters
TM434	Analysis of PFAS

NA = not applicable.

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



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Test Completion Dates

Lab Sample No(s)	31347109	31347110	31347111	31347112	31347113	31347115	31347116	31347117
Customer Sample Ref.	BH25-03	BH25-05	DS25-07	DS25-08	DS25-09	DS25-10	DS25-15	DS25-16
AGS Ref.	EW3A	EW3A	EW3A	EW3A	EW3A	EW3A	EW1A	EW1A
Depth								
Type	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
Ammoniacal Nitrogen	11-Apr-2025	11-Apr-2025	11-Apr-2025	11-Apr-2025	11-Apr-2025	11-Apr-2025	11-Apr-2025	11-Apr-2025
Anions by Kone (w)	10-Apr-2025	10-Apr-2025	10-Apr-2025	10-Apr-2025	10-Apr-2025	10-Apr-2025	10-Apr-2025	10-Apr-2025
Cyanide Comp/Free/Total/Thiocyanate	14-Apr-2025	14-Apr-2025	14-Apr-2025	14-Apr-2025	14-Apr-2025	14-Apr-2025	14-Apr-2025	14-Apr-2025
Dissolved Metals by ICP-MS	11-Apr-2025	11-Apr-2025	11-Apr-2025	11-Apr-2025	11-Apr-2025	11-Apr-2025	11-Apr-2025	11-Apr-2025
Dissolved Organic/Inorganic Carbon	10-Apr-2025	10-Apr-2025	10-Apr-2025	10-Apr-2025	10-Apr-2025	10-Apr-2025	10-Apr-2025	10-Apr-2025
EPH and CWG by FID	14-Apr-2025	14-Apr-2025	14-Apr-2025	14-Apr-2025	14-Apr-2025	14-Apr-2025	14-Apr-2025	14-Apr-2025
GRO by GC-FID (W)	10-Apr-2025	10-Apr-2025	10-Apr-2025	10-Apr-2025	10-Apr-2025	10-Apr-2025	10-Apr-2025	10-Apr-2025
Low Level Hexavalent Chromium (w)	14-Apr-2025	12-Apr-2025	14-Apr-2025	14-Apr-2025	14-Apr-2025	14-Apr-2025	14-Apr-2025	14-Apr-2025
Mercury Dissolved	14-Apr-2025	14-Apr-2025	14-Apr-2025	14-Apr-2025	14-Apr-2025	14-Apr-2025	14-Apr-2025	14-Apr-2025
PAH Spec MS - Aqueous (W)	15-Apr-2025	16-Apr-2025	15-Apr-2025	15-Apr-2025	11-Apr-2025	15-Apr-2025	15-Apr-2025	15-Apr-2025
PFAS Liquids (Full Suite)	23-Apr-2025	23-Apr-2025	23-Apr-2025	25-Apr-2025	23-Apr-2025	25-Apr-2025	23-Apr-2025	23-Apr-2025
pH Value	11-Apr-2025	11-Apr-2025	11-Apr-2025	11-Apr-2025	11-Apr-2025	11-Apr-2025	11-Apr-2025	11-Apr-2025
Phenols by HPLC (W)	15-Apr-2025	16-Apr-2025	16-Apr-2025	16-Apr-2025	16-Apr-2025	15-Apr-2025	15-Apr-2025	15-Apr-2025
SVOC MS (W) - Aqueous						15-Apr-2025		
Total Metals by ICP-MS	11-Apr-2025	11-Apr-2025	11-Apr-2025	11-Apr-2025	11-Apr-2025	11-Apr-2025	11-Apr-2025	11-Apr-2025
TPH CWG (W)	14-Apr-2025	14-Apr-2025	14-Apr-2025	14-Apr-2025	14-Apr-2025	14-Apr-2025	14-Apr-2025	14-Apr-2025
VOC MS (W)	10-Apr-2025	10-Apr-2025	10-Apr-2025	10-Apr-2025	10-Apr-2025	10-Apr-2025	10-Apr-2025	10-Apr-2025



CERTIFICATE OF ANALYSIS

SDG: 250408-50
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Report Number: 763155
Location: LHR042 Thorney Lane DC1

Superseded Report: 762326

Appendix

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.

General

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 Anthophyllite	-
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.



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Concept Engineering Consultants Ltd
218 Northfields Road
London
W13 9SJ

Attention: Gabriela Mandache

CERTIFICATE OF ANALYSIS

Date of report Generation:	23 April 2025
Customer:	Concept Engineering Consultants Ltd
Sample Delivery Group (SDG):	250409-44
Your Reference:	25/4047
Location:	LHR042 Thorney Lane DC1
Report No:	762842
Order Number:	105463 (CL6906)

This report has been revised and directly supersedes 762468 in its entirety.

We received 6 samples on Wednesday April 09, 2025 and 6 of these samples were scheduled for analysis which was completed on Wednesday April 23, 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





CERTIFICATE OF ANALYSIS

Validated

SDG: 250409-44
Client Ref.: 25/4047

Report Number: 762842
Location: LHR042 Thorney Lane DC1

Superseded Report: 762468

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
31351627	BH25-04	EW3A		08/04/2025
31351623	DS25-02	EW3A		08/04/2025
31351624	DS25-03	EW3A		08/04/2025
31351622	DS25-04	EW3A		08/04/2025
31351626	DS25-05	EW3A		08/04/2025
31351625	DS25-06	EW3A		08/04/2025

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



CERTIFICATE OF ANALYSIS

Validated

SDG: 250409-44
Client Ref.: 25/4047

Report Number: 762842
Location: LHR042 Thorney Lane DC1

Superseded Report: 762468

Results Legend X Test N No Determination Possible 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)		31 351 627												31 351 623												31 351 624																
	Customer Sample Reference		BH25-04												DS25-02												DS25-03																
	AGS Reference		EW3A												EW3A												EW3A																
	Depth (m)																																										
	Container		0.5l glass bottle (ALE227)												Vial (ALE297)												NaOH (ALE245)																
			HNO3 Unfiltered (ALE204)												HNO3 Filtered (ALE204)												H2SO4 (ALE244)																
	Sample Type		GW												GW												GW																
Ammoniacal Nitrogen	All	NDPs: 0 Tests: 6																																									
Anions by Kone (w)	All	NDPs: 0 Tests: 6																																									
Cyanide Comp/Free/Total/Thiocyanate	All	NDPs: 0 Tests: 6																																									
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 6																																									
Dissolved Organic/Inorganic Carbon	All	NDPs: 0 Tests: 6																																									
EPH and CWG by FID	All	NDPs: 0 Tests: 6																																									
GRO by GC-FID (W)	All	NDPs: 0 Tests: 6																																									
Low Level Hexavalent Chromium (w)	All	NDPs: 0 Tests: 6																																									
Mercury Dissolved	All	NDPs: 0 Tests: 6																																									
PAH Spec MS - Aqueous (W)	All	NDPs: 0 Tests: 6																																									
PFAS Liquids (Full Suite)	All	NDPs: 0 Tests: 6																																									
pH Value	All	NDPs: 0 Tests: 6																																									
Phenols by HPLC (W)	All	NDPs: 0 Tests: 6																																									
Total Metals by ICP-MS	All	NDPs: 0 Tests: 6																																									
TPH CWG (W)	All	NDPs: 0 Tests: 6																																									



CERTIFICATE OF ANALYSIS

Validated

SDG: 250409-44
Client Ref.: 25/4047

Report Number: 762842
Location: LHR042 Thorney Lane DC1

Superseded Report: 762468

Results Legend

- X** Test
N No Determination Possible

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)

Customer
Sample Reference

AGS Reference

Depth (m)

Container

Sample Type

VOC MS (W)

All

NDPs: 0
Tests: 6

31351627

BH25-04

EW3A

Vial (ALE297)
(ALE227)

X

31351624
31351623

DS25-03
DS25-02

EW3A
EW3A

0.5l glass bottle
(ALE227)
Vial (ALE297)
(ALE227)

X

31351626	DS25-05	EW3A		Digitube fo PFAS analysis.	GW		
				500ml Plastic (ALE208)	GW		
				250ml Amber Gl. PTFE/PE (ALE219)	GW		
				0.5l glass bottle (ALE227)	GW		
				Vial (ALE297)	GW	X	
				NaOH (ALE245)	GW		
				HNO3 Unfiltered (ALE204)	GW		
				HNO3 Filtered (ALE204)	GW		
				H2SO4 (ALE244)	GW		
				Digitube fo PFAS analysis.	GW		
31351622	DS25-04	EW3A		500ml Plastic (ALE208)	GW		
				250ml Amber Gl. PTFE/PE (ALE219)	GW		
				0.5l glass bottle (ALE227)	GW		
				Vial (ALE297)	GW		
				NaOH (ALE245)	GW		
				HNO3 Unfiltered (ALE204)	GW		
				HNO3 Filtered (ALE204)	GW		
				H2SO4 (ALE244)	GW		
				Digitube fo PFAS analysis.	GW		
				500ml Plastic (ALE208)	GW		
31351624	DS25-03	EW3A		250ml Amber Gl. PTFE/PE (ALE219)	GW		
				0.5l glass bottle (ALE227)	GW		
				Vial (ALE297)	GW	X	
				NaOH (ALE245)	GW		
				HNO3 Unfiltered (ALE204)	GW		
				HNO3 Filtered (ALE204)	GW		
				H2SO4 (ALE244)	GW		
				Digitube fo PFAS analysis.	GW		
				500ml Plastic (ALE208)	GW		
				250ml Amber Gl. PTFE/PE (ALE219)	GW		



CERTIFICATE OF ANALYSIS

Validated

SDG: 250409-44
Client Ref.: 25/4047

Report Number: 762842
Location: LHR042 Thorney Lane DC1

Superseded Report: 762468

Results Legend	Lab Sample No(s)		31351626		31351625	
	Customer Sample Reference		DS25-05		DS25-06	
	AGS Reference		EW3A		EW3A	
	Depth (m)					
	Container		H2SO4 (ALE244)	HNO3 Filtered (ALE204)	HNO3 Unfiltered (ALE204)	NaOH (ALE245)
	Sample Type		GW	GW	GW	GW
Ammoniacal Nitrogen	All	NDPs: 0 Tests: 6	X			X
Anions by Kone (w)	All	NDPs: 0 Tests: 6				X
Cyanide Comp/Free/Total/Thiocyanate	All	NDPs: 0 Tests: 6		X		X
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 6	X		X	
Dissolved Organic/Inorganic Carbon	All	NDPs: 0 Tests: 6			X	
EPH and CWG by FID	All	NDPs: 0 Tests: 6			X	
GRO by GC-FID (W)	All	NDPs: 0 Tests: 6		X		X
Low Level Hexavalent Chromium (w)	All	NDPs: 0 Tests: 6			X	
Mercury Dissolved	All	NDPs: 0 Tests: 6	X		X	
PAH Spec MS - Aqueous (W)	All	NDPs: 0 Tests: 6			X	
PFAS Liquids (Full Suite)	All	NDPs: 0 Tests: 6			X	
pH Value	All	NDPs: 0 Tests: 6			X	
Phenols by HPLC (W)	All	NDPs: 0 Tests: 6	X		X	
Total Metals by ICP-MS	All	NDPs: 0 Tests: 6		X		X
TPH CWG (W)	All	NDPs: 0 Tests: 6			X	



CERTIFICATE OF ANALYSIS

Validated

SDG: 250409-44
Client Ref.: 25/4047

Report Number: 762842
Location: LHR042 Thorney Lane DC1

Superseded Report: 762468

Results Legend



Test



No Determination Possible

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)

31351626

31351625

Customer
Sample Reference

DS25-05

DS25-06

AGS Reference

EW3A

EW3A

Depth (m)

Container

Sample Type

Vial (ALE297)	GW
NaOH (ALE245)	GW
HNO3 Unfiltered (ALE204)	GW
HNO3 Filtered (ALE204)	GW
H2SO4 (ALE244)	GW
Digitube to PFAS analysis.	GW
500ml Plastic (ALE208)	GW
250ml Amber GL. PTFE/PE (ALE219)	GW
0.5l glass bottle (ALE227)	GW
Vial (ALE297)	GW
NaOH (ALE245)	GW
HNO3 Unfiltered (ALE204)	GW
HNO3 Filtered (ALE204)	GW
H2SO4 (ALE244)	GW

VOC MS (W)

All

NDPs: 0
Tests: 6

X

X



CERTIFICATE OF ANALYSIS

Validated

SDG: 250409-44
Client Ref.: 25/4047

Report Number: 762842
Location: LHR042 Thorney Lane DC1

Superseded Report: 762468

Results Legend		Customer Sample Ref.	BH25-04	DS25-02	DS25-03	DS25-04	DS25-05	DS25-06
# ISO17025 accredited. 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**@ Sample deviation (see appendix)	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		Ground Water (GW) 08/04/2025 09/04/2025 250409-44 31351627 EW3A	Ground Water (GW) 08/04/2025 09/04/2025 250409-44 31351623 EW3A	Ground Water (GW) 08/04/2025 09/04/2025 250409-44 31351624 EW3A	Ground Water (GW) 08/04/2025 09/04/2025 250409-44 31351622 EW3A	Ground Water (GW) 08/04/2025 09/04/2025 250409-44 31351626 EW3A	Ground Water (GW) 08/04/2025 09/04/2025 250409-44 31351625 EW3A
Component	LOD/Units	Method						
Carbon, Organic (diss.filt)	<3 mg/l	TM090	9.17	6.9	9.01	15.2	3.84	7.52
Ammoniacal Nitrogen as N	<0.2 mg/l	TM099	<0.2	<0.2	1.97	3.79	0.487	0.63
Ammoniacal Nitrogen as NH3	<0.2 mg/l	TM099	<0.2	<0.2	2.39	4.6	0.591	0.765
Antimony (diss.filt)	<1 µg/l	TM152	<1	1.23	<1	1.7	<1	<1
Arsenic (diss.filt)	<0.5 µg/l	TM152	0.762	6.25	0.625	16.3	0.535	1.86
Beryllium (diss.filt)	<0.1 µg/l	TM152	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (diss.filt)	<0.08 µg/l	TM152	0.142	<0.08	<0.08	<0.08	<0.08	0.0829
Chromium (diss.filt)	<1 µg/l	TM152	<1	<1	<1	<1	<1	<1
Copper (diss.filt)	<0.3 µg/l	TM152	2.79	2.58	1.94	1.23	1.99	2.26
Lead (diss.filt)	<0.2 µg/l	TM152	<0.2	<0.2	<0.2	2.49	<0.2	<0.2
Manganese (diss.filt)	<3 µg/l	TM152	2810	<3	1770	12.9	347	1860
Nickel (diss.filt)	<0.4 µg/l	TM152	9.14	2.03	5.99	3.96	3.88	8.73
Selenium (diss.filt)	<1 µg/l	TM152	<1	1.35	<1	<1	<1	<1
Vanadium (diss.filt)	<1 µg/l	TM152	<1	12.4	<1	13.5	<1	<1
Zinc (diss.filt)	<1 µg/l	TM152	7.16	3.35	1.74	<1	1.09	2.27
Calcium (Dis.Filt)	<0.2 mg/l	TM152	142	28.7	127	44.1	86.1	91.9
Hardness, Total as CaCO3 unfiltered	<0.35 mg/l	TM152	400	76.7	364	113	231	259
Mercury (diss.filt)	<0.01 µg/l	TM183	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chloride	<2 mg/l	TM184	66.4	32.1	77.9	21.2	18	43.1
Cyanide, Total	<0.05 mg/l	TM227	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
pH	<1 pH Units	TM256	7	9.38	7.84	7.78	7.45	5.15
Phenol	<0.002 mg/l	TM259	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cresols	<0.006 mg/l	TM259	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Xylenols	<0.008 mg/l	TM259	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
Phenols, Total Detected monohydric	<0.016 mg/l	TM259	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016
Low Level Hexavalent Chromium	<0.003 mg/l	TM331	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
PFBA (375-22-4)	<2 ng/l	TM434	209	20.2	218	18.7	8.35	85.1
PFMOPra (377-73-1)	<1 ng/l	TM434	<1	<1	<1	<1	<1	<1
3:3 FTCA (356-02-5)	<2 ng/l	TM434	<2	<2	<2	<2	<2	<2
PFPA (2706-90-3)	<1 ng/l	TM434	209	<1	237	<1	11.5	69.2
PFMOBA (863090-89-5)	<1 ng/l	TM434	<1	<1	<1	<1	<1	<1
4:2 FTS (757124-72-4)	<1 ng/l	TM434	<1	<1	<1	<1	<1	<1
NFDHA (151772-58-6)	<3 ng/l	TM434	<3	<3	<3	<3	<3	<3



CERTIFICATE OF ANALYSIS

Validated

SDG: 250409-44
Client Ref.: 25/4047

Report Number: 762842
Location: LHR042 Thorney Lane DC1

Superseded Report: 762468

Results Legend			Customer Sample Ref.	BH25-04	DS25-02	DS25-03	DS25-04	DS25-05	DS25-06						
# ISO17025 accredited. 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* Sample deviation (see appendix)	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	Ground Water (GW) 08/04/2025 09/04/2025 250409-44 31351627 EW3A		Ground Water (GW) 08/04/2025 09/04/2025 250409-44 31351623 EW3A	Ground Water (GW) 08/04/2025 09/04/2025 250409-44 31351624 EW3A	Ground Water (GW) 08/04/2025 09/04/2025 250409-44 31351622 EW3A	Ground Water (GW) 08/04/2025 09/04/2025 250409-44 31351626 EW3A	Ground Water (GW) 08/04/2025 09/04/2025 250409-44 31351625 EW3A							
Component	LOD/Units	Method													
PFBS (375-73-5)	<1 ng/l	TM434		92.7	#	4 #	85.3	#	4 #	2.23	#	26.9	#	4 #	
PFHxA (307-24-4)	<1 ng/l	TM434		313	#	4 #	23.8	#	4 #	6.37	#	76.7	#	4 #	
HFPO-DA (13252-13-6)	<2 ng/l	TM434	<2	#	4 #	<2	#	4 #	<2	#	<2	#	4 #		
PFEESA (113507-82-7)	<1 ng/l	TM434	<1	#	4 #	<1	#	4 #	<1	#	<1	#	4 #		
PFHpA (375-85-9)	<1 ng/l	TM434	306	#	4 #	18	#	4 #	3.24	#	85.4	#	4 #		
PFPeS (2706-91-4)	<1 ng/l	TM434	73.3	#	4 #	<1	#	4 #	<1	#	18.7	#	4 #		
5:3 FTCA (914637-49-3)	<5 ng/l	TM434	<5	#	4 #	<5	#	4 #	<5	#	<5	#	4 #		
ADONA (919005-14-4)	<1 ng/l	TM434	<1	#	4 #	<1	#	4 #	<1	#	<1	#	4 #		
6:2 FTS (27619-97-2)	<1 ng/l	TM434	1.23	#	4 #	6.21	#	4 #	7.28	#	<1	#	1.48	#	4 #
FBSA (30334-69-1)	<1 ng/l	TM434	1.16	#	4 #	1.78	#	4 #	1.06	#	<1	#	<1	#	4 #
PFOA (335-67-1)	<0.65 ng/l	TM434	630	#	4 #	38.2	#	4 #	23	#	10.2	#	225	#	4 #
PFHxS (355-46-4)	<1 ng/l	TM434	279	#	4 #	10.6	#	4 #	3.26	#	<1	#	78.9	#	4 #
PFNA (375-95-1)	<1 ng/l	TM434	1.69	#	4 #	4.63	#	4 #	2.22	#	1.09	#	2.67	#	4 #
PFecHS (133201-07-7)	<1 ng/l	TM434	6.87	#	4 #	3.6	#	4 #	7.73	#	<1	#	2.88	#	4 #
PFHpS (375-92-8)	<1 ng/l	TM434	<1	#	4 #	<1	#	4 #	<1	#	<1	#	<1	#	4 #
8:2 FTS (39108-34-4)	<2 ng/l	TM434	<2	#	4 #	<2	#	4 #	<2	#	<2	#	<2	#	4 #
HFPO-TA (13252-14-7)	<5 ng/l	TM434	<5	#	4 #	<5	#	4 #	<5	#	<5	#	<5	#	4 #
PFDA (335-76-2)	<2 ng/l	TM434	<2	#	4 #	2.55	#	4 #	3.37	#	<2	#	<2	#	4 #
MeFOSAA (2355-31-9)	<2 ng/l	TM434	<2	◆ #	4 ◆ #	<2	◆ #	4 ◆ #	2.64	◆ #	<2	◆ #	<2	4 ◆ #	
7:3 FTCA (812-70-4)	<5 ng/l	TM434	<5	#	4 #	<5	#	4 #	<5	#	<5	#	<5	#	4 #
Linear PFOS (1763-23-1)	<0.65 ng/l	TM434	11	#	4 #	9.45	#	4 #	11.7	#	1.81	#	13	#	4 #
Branched PFOS	<0.65 ng/l	TM434	10.3	#	4 #	7.67	#	4 #	6.34	#	1.22	#	13.3	#	4 #
EtFOSAA (2991-50-6)	<2 ng/l	TM434	<2	◆ #	4 ◆ #	<2	◆ #	4 ◆ #	<2	◆ #	<2	◆ #	<2	4 ◆ #	
PFUnA (2058-94-8)	<2 ng/l	TM434	<2	#	4 #	<2	#	4 #	<2	#	<2	#	<2	#	4 #
9CI-PF3ONS (756426-58-1)	<1 ng/l	TM434	<1	#	4 #	<1	#	4 #	<1	#	<1	#	<1	#	4 #
PFNS (68259-12-1)	<1 ng/l	TM434	<1	#	4 #	<1	#	4 #	<1	#	<1	#	<1	#	4 #
FHxSA (41997-13-1)	<1 ng/l	TM434	<1	#	4 #	<1	#	4 #	<1	#	<1	#	<1	#	4 #
PFDoA (307-55-1)	<2 ng/l	TM434	<2	#	4 #	<2	#	4 #	<2	#	<2	#	<2	#	4 #
PFDS (335-77-3)	<2 ng/l	TM434	<2	#	4 #	<2	#	4 #	<2	#	<2	#	<2	#	4 #
PFTrDA (72629-94-8)	<3 ng/l	TM434	<3	#	4 #	<3	#	4 #	<3	#	<3	#	<3	#	4 #
11CI-PF3OUdS (763051-92-9)	<2 ng/l	TM434	<2	#	4 #	<2	#	4 #	<2	#	<2	#	<2	#	4 #
PFUnDS (749786-16-1)	<2 ng/l	TM434	<2	#	4 #	<2	#	4 #	<2	#	<2	#	<2	#	4 #
PFTeA (376-06-7)	<1 ng/l	TM434	<1	#	4 #	<1	#	4 #	<1	#	<1	#	<1	#	4 #



Client Ref.: 25/4047

Location: LHR042 Thorney Lane DC1



CERTIFICATE OF ANALYSIS

Validated

SDG: 250409-44
Client Ref.: 25/4047

Report Number: 762842
Location: LHR042 Thorney Lane DC1

Superseded Report: 762468

Table of Results - Appendix

Method No	Description
TM178	Determination of Polynuclear Aromatic Hydrocarbons (PAH) by GC-MS in Waters
TM331	Low Level Hexavalent Chromium
TM439	Determination of Extractable Petroleum Hydrocarbons (EPH) CWG banding by GC-FID on liquids
TM090	Determination of Total Organic Carbon/Total Inorganic Carbon in Water and Waste Water
TM099	Determination of Ammonium in Water Samples using the Kone Analyser
TM259	Determination of Phenols in Waters and Leachates by HPLC
TM152	Analysis of Aqueous Samples by ICP-MS
TM208	Determination of Volatile Organic Compounds by Headspace / GC-MS in Waters
TM227	Determination of Total Cyanide, Free (Easily Liberatable) Cyanide and Thiocyanate
TM256	Determination of pH, EC, TDS and Alkalinity in Aqueous samples
TM183	Determination of Trace Level Mercury in Waters and Leachates by PSA Cold Vapour Atomic Fluorescence Spectrometry
TM184	The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers
TM245	Determination of GRO by Headspace in waters
TM434	Analysis of PFAS

NA = not applicable.

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



CERTIFICATE OF ANALYSIS

Validated

SDG: 250409-44
Client Ref.: 25/4047

Report Number: 762842
Location: LHR042 Thorney Lane DC1

Superseded Report: 762468

Test Completion Dates

Lab Sample No(s)
Customer Sample Ref.

AGS Ref.
Depth
Type

	31351627	31351623	31351624	31351622	31351626	31351625
	BH25-04	DS25-02	DS25-03	DS25-04	DS25-05	DS25-06
	EW3A	EW3A	EW3A	EW3A	EW3A	EW3A
	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
Ammoniacal Nitrogen	15-Apr-2025	11-Apr-2025	15-Apr-2025	15-Apr-2025	15-Apr-2025	15-Apr-2025
Anions by Kone (w)	11-Apr-2025	15-Apr-2025	15-Apr-2025	15-Apr-2025	11-Apr-2025	15-Apr-2025
Cyanide Comp/Free/Total/Thiocyanate	14-Apr-2025	15-Apr-2025	14-Apr-2025	15-Apr-2025	15-Apr-2025	15-Apr-2025
Dissolved Metals by ICP-MS	15-Apr-2025	15-Apr-2025	14-Apr-2025	14-Apr-2025	14-Apr-2025	15-Apr-2025
Dissolved Organic/Inorganic Carbon	11-Apr-2025	11-Apr-2025	12-Apr-2025	12-Apr-2025	12-Apr-2025	11-Apr-2025
EPH and CWG by FID	14-Apr-2025	14-Apr-2025	15-Apr-2025	15-Apr-2025	15-Apr-2025	14-Apr-2025
GRO by GC-FID (W)	14-Apr-2025	14-Apr-2025	14-Apr-2025	14-Apr-2025	14-Apr-2025	14-Apr-2025
Low Level Hexavalent Chromium (w)	16-Apr-2025	16-Apr-2025	16-Apr-2025	16-Apr-2025	16-Apr-2025	16-Apr-2025
Mercury Dissolved	16-Apr-2025	16-Apr-2025	16-Apr-2025	16-Apr-2025	16-Apr-2025	16-Apr-2025
PAH Spec MS - Aqueous (W)	16-Apr-2025	15-Apr-2025	16-Apr-2025	16-Apr-2025	16-Apr-2025	15-Apr-2025
PFAS Liquids (Full Suite)	23-Apr-2025	23-Apr-2025	23-Apr-2025	23-Apr-2025	23-Apr-2025	23-Apr-2025
pH Value	15-Apr-2025	15-Apr-2025	15-Apr-2025	15-Apr-2025	15-Apr-2025	15-Apr-2025
Phenols by HPLC (W)	17-Apr-2025	16-Apr-2025	17-Apr-2025	17-Apr-2025	16-Apr-2025	17-Apr-2025
Total Metals by ICP-MS	15-Apr-2025	14-Apr-2025	14-Apr-2025	14-Apr-2025	14-Apr-2025	15-Apr-2025
TPH CWG (W)	14-Apr-2025	14-Apr-2025	15-Apr-2025	15-Apr-2025	15-Apr-2025	14-Apr-2025
VOC MS (W)	14-Apr-2025	14-Apr-2025	14-Apr-2025	14-Apr-2025	14-Apr-2025	14-Apr-2025



CERTIFICATE OF ANALYSIS

SDG: 250409-44
Client Ref: 25/4047

Report Number: 762842
Location: LHR042 Thorney Lane DC1

Superseded Report: 762468

Appendix

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.

General

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 Anthophyllite	-
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.



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TEST REPORT

The results relate only to the items tested, calibrated or sampled



GAS ANALYSIS

Customer: Concept Site Investigations, 4 Oak Spinney Park, Ratby Lane, Leicester Forest East, Leicester, LE3 3AW

Date Received: 14 April 2025

Date Sampled: 07 April 2025

Report N° GA16638

Date Analysed: 16 April 2025

Site: Thorney Lane

SAMPLE REFERENCE	Analysis % V/V						
	Carbon Dioxide (CO ₂)	Oxygen (O ₂)	Carbon Monoxide (CO)	Hydrogen (H ₂)	Nitrogen (N ₂)	Methane (CH ₄)	Hydrogen Sulphide (H ₂ S)†
Method of Analysis	6	4	6	4	4	3	5
BH 24-03	6.03	3.7	<0.0005	0.0014	87.6	0.32	<0.0001
DS 24-02	3.03	18.1	<0.0005	<0.0005	77.9	0.02	<0.0001
BH 25-03	0.53	22.3	0.0005	<0.0005	77.8	<0.02	<0.0001

Method of 3 G.C. with F.I.D. - ENV/GAS03

6 G.C. with F.I.D. - ENV/GAS09

Analysis:- 4 G.C. with T.C.D. - ENV/GAS09

5 G.C. with F.P.D. (Not UKAS Accredited)

† Not UKAS Accredited

Customer Analytical RequirementsCO₂, O₂, CO, H₂, N₂, CH₄, H₂S**Authorised by**

Daniel Bignell

Comment Box

Authorised by:

Analyst: Stephen Bass

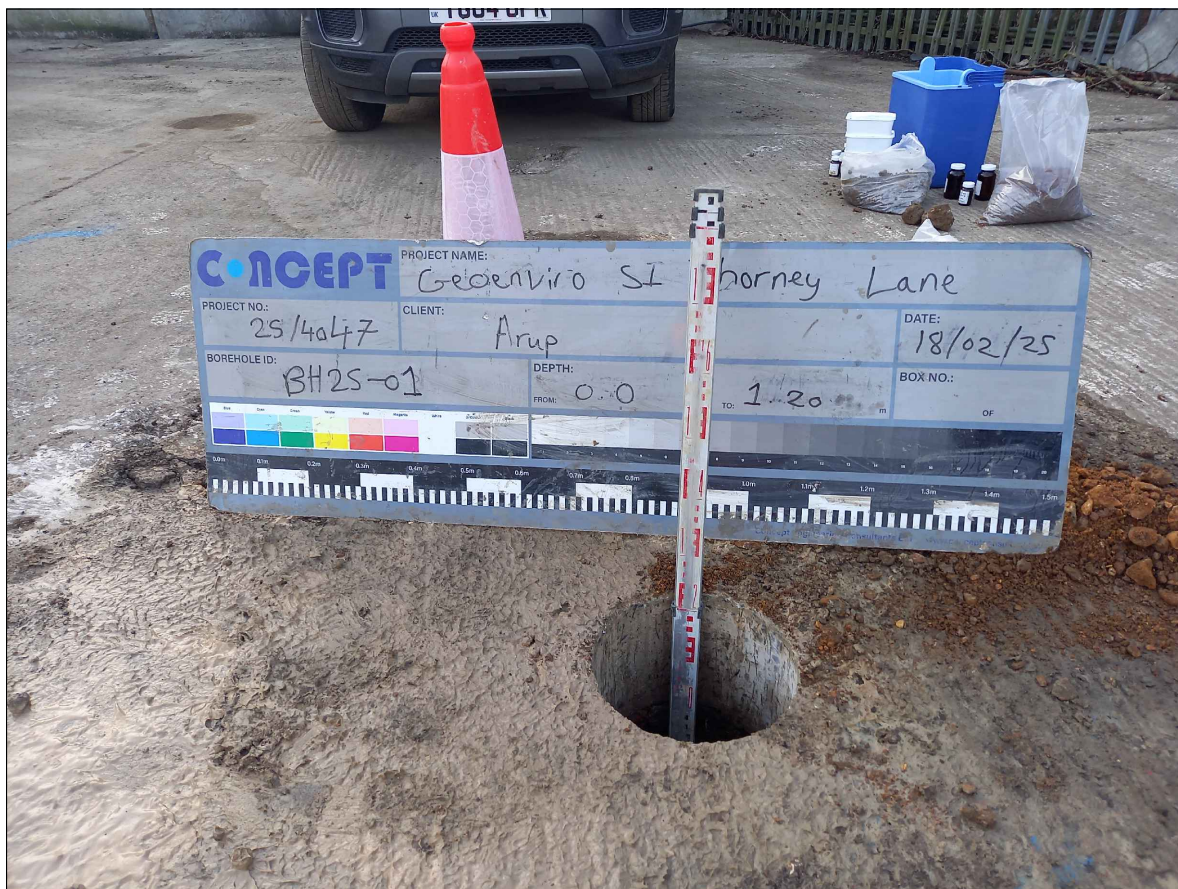
Issue Date: 22 April 2025

SOCOTEC accepts no responsibility for the collection of any of the samples referred to in this report.

Daniel Bignell, Quality Manager -SLA
Direct Dial: 01 283 554461

15. PHOTOGRAPHS

Project No	25/4047	Hole ID	BH25-01	 CONCEPT A PHENNA GROUP COMPANY SITE INVESTIGATIONS HEAD OFFICE: 47-49 Brunel Road Old Oak Common Acton London W3 7AR Tel: 020 8811 2800 +44(0) 20 8740 1553 MIDLANDS OFFICE: Unit D Herd Way Brierley Industrial Estate Coventry CV3 2SD Tel: 024 7708 7870 +44(0) 24 7708 7870
Project Name	LHR042 Thorney Lane DC1	Photograph No	001 & 002	
Client	ARUP	Date	February 2025	



Photograph No 001



Photograph No 002