

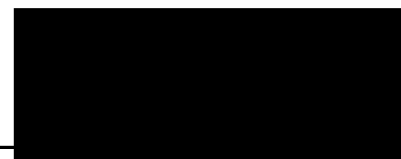


APPENDIX H

Groundwater Analysis (May, June and September 2020) & tabulated summary November 2019 to September 2020



Unit A2
Windmill Road
Ponswood Industrial Estate
St Leonards on Sea
East Sussex
TN38 9BY



THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 20-28132

Issue: 1

Date of Issue: 20/05/2020

Contact: Glyn Evans

Customer Details: GESL
Unit 7
Danworth Farm
Hurstpierpoint
West Sussex BN6 9GL

Quotation No: Q19-01488

Order No: 2674

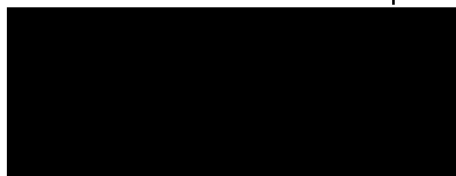
Customer Reference: GE18103

Date Received: 14/05/2020

Date Approved: 20/05/2020

Details: Cornfield Close - Littlehampton

Approved by:



Mike Varley, Technical Manager

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

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Sample Summary

Report No.: 20-28132, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
204067	BH110 5.92	12/05/2020	14/05/2020		
204068	BH103 6.00	12/05/2020	14/05/2020		
204069	BHA 5.90	12/05/2020	14/05/2020		
204070	BHB 6.21	12/05/2020	14/05/2020		
204071	BHC 6.32	12/05/2020	14/05/2020		

Results Summary

Report No.: 20-28132, issue number 1

ELAB Reference	204067	204068	204069	204070	204071
Customer Reference					
Sample ID					
Sample Type	WATER	WATER	WATER	WATER	WATER
Sample Location	BH110	BH103	BHA	BHB	BHC
Sample Depth (m)	5.92	6.00	5.90	6.21	6.32
Sampling Date	12/05/2020	12/05/2020	12/05/2020	12/05/2020	12/05/2020

Determinand	Codes	Units	LOD					
Dissolved Metals								
Arsenic	U	ug/l	5	< 5	< 5	< 5	8	< 5
Boron	N	ug/l	5	557	566	950	677	903
Barium	U	ug/l	5	88	131	63	213	60
Beryllium	U	ug/l	5	< 5	< 5	< 5	< 5	< 5
Cadmium	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
Chromium	U	ug/l	5	< 5	< 5	< 5	< 5	< 5
Copper	U	ug/l	5	< 5	< 5	< 5	< 5	< 5
Iron	U	ug/l	140	224	< 140	< 140	4880	< 140
Mercury	U	ug/l	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	U	ug/l	5	13	44	18	41	< 5
Lead	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
Selenium	U	ug/l	5	< 5	< 5	< 5	< 5	< 5
Vanadium	N	ug/l	5	< 5	< 5	< 5	< 5	< 5
Zinc	U	ug/l	5	8	15	17	< 5	5
Anions								
Chloride	U	mg/l	0.5	53.8	25.5	37.5	46.7	206
Nitrate	U	mg/l	0.5	6.2	3.3	36.4	< 0.5	255
Sulphate	U	mg/l	0.5	229	194	466	48.0	333
Inorganics								
Elemental Sulphur	N	mg/l	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Ammoniacal Nitrogen as N	N	mg/l	0.1	17	33	8.2	33	< 0.1
Free ammonia (NH3)	N	mg/l	0.1	24	49	12	49	< 0.1
Hexavalent Chromium	U	ug/l	100	< 100	< 100	< 100	< 100	< 100
Sulphide	N	mg/l	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Miscellaneous								
Total Alkalinity (CaCO3)	N	mg/l	5	872	930	1150	2230	1370
Biochemical Oxygen Demand (5 day)	N	mg/l	2	< 2	2	< 2	2	< 2
Chemical Oxygen Demand	N	mg/l	2	20	15	8	34	11
Electrical Conductivity	U	uS/cm	50	1530	1480	1940	1660	2310
Dissolved organic carbon	N	mg/l	1.5	7.0	5.9	7.0	13	5.1
Dissolved Oxygen	N	mg/l	0.1	3.2	2.3	3.5	1.3	5.6
pH	U	pH units	0.1	6.7	6.7	6.6	6.7	6.8
Suspended Solids	N	mg/l	0.1	870	52000	25000	20000	8300
Phenols								
Phenol	N	ug/l	1	< 1	< 1	< 1	< 1	< 1
M,P-Cresol	N	ug/l	1	< 1	< 1	< 1	< 1	< 1
O-Cresol	N	ug/l	1	< 1	< 1	< 1	< 1	< 1
3,4-Dimethylphenol	N	ug/l	1	< 1	< 1	< 1	< 1	< 1
2,3-Dimethylphenol	N	ug/l	1	< 1	< 1	< 1	< 1	< 1
2,3,5-trimethylphenol	N	ug/l	1	< 1	< 1	< 1	< 1	< 1
Total Monohydric Phenols	N	ug/l	1	< 1	< 1	< 1	< 1	< 1

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Results Summary

Report No.: 20-28132, issue number 1

ELAB Reference	204067	204068	204069	204070	204071
Customer Reference					
Sample ID					
Sample Type	WATER	WATER	WATER	WATER	WATER
Sample Location	BH110	BH103	BHA	BHB	BHC
Sample Depth (m)	5.92	6.00	5.90	6.21	6.32
Sampling Date	12/05/2020	12/05/2020	12/05/2020	12/05/2020	12/05/2020

Determinand	Codes	Units	LOD					
Polyaromatic hydrocarbons								
Naphthalene GCMS	N	ug/l	0.01	0.01	0.01	0.01	0.82	0.04
Acenaphthylene GCMS	N	ug/l	0.01	< 0.01	< 0.01	< 0.01	0.23	0.03
Acenaphthene GCMS	N	ug/l	0.01	< 0.01	< 0.01	< 0.01	0.25	0.01
Fluorene GCMS	N	ug/l	0.01	< 0.01	< 0.01	< 0.01	0.68	0.03
Phenanthrene GCMS	N	ug/l	0.01	0.09	0.06	0.03	2.77	0.11
Anthracene GCMS	N	ug/l	0.01	0.03	0.02	< 0.01	0.70	0.03
Fluoranthene GCMS	N	ug/l	0.01	0.21	0.20	0.07	5.31	0.33
Pyrene GCMS	N	ug/l	0.01	0.22	0.17	0.07	4.83	0.33
Benzo (a) anthracene GCMS	N	ug/l	0.01	0.14	0.12	0.03	4.37	0.24
Chrysene GCMS	N	ug/l	0.01	0.13	0.11	0.04	3.74	0.20
Benzo (b) fluoranthene GCMS	N	ug/l	0.01	0.11	0.12	0.04	6.00	0.27
Benzo (k) fluoranthene GCMS	N	ug/l	0.01	0.10	0.10	0.04	4.22	0.20
Benzo (a) pyrene GCMS	N	ug/l	0.01	0.12	0.12	0.04	6.20	0.30
Indeno (1,2,3-cd) pyrene GCMS	N	ug/l	0.01	0.05	0.07	0.02	4.57	0.20
Dibenzo(a,h)anthracene GCMS	N	ug/l	0.01	0.02	0.02	< 0.01	2.28	0.05
Benzo(ghi)perylene GCMS	N	ug/l	0.01	0.07	0.07	0.03	4.78	0.20
Total PAH(16) GCMS	N	ug/l	0.01	1.30	1.21	0.46	51.8	2.56
TPH CWG								
>C5-C6 Aliphatic	N	ug/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C6-C8 Aliphatic	N	ug/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C8-C10 Aliphatic	N	ug/l	5	< 5.0	< 5.0	19.1	24.0	< 5.0
>C10-C12 Aliphatic	N	ug/l	5	< 5.0	< 5.0	9.1	48.1	< 5.0
>C12-C16 Aliphatic	N	ug/l	5	< 5.0	< 5.0	18.6	172	< 5.0
>C16-C21 Aliphatic	N	ug/l	5	< 5.0	< 5.0	19.6	305	8.8
>C21-C35 Aliphatic	N	ug/l	5	< 5.0	9.6	54.7	599	16.5
>C35-C40 Aliphatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	20.8	< 5.0
Total (>C5-C40) Aliphatic	N	ug/l	5	< 5.0	9.6	121	1170	25.3
>C5-C7 Aromatic	N	ug/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C7-C8 Aromatic	N	ug/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C8-C10 Aromatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	10.4	< 5.0
>C10-C12 Aromatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	39.0	< 5.0
>C12-C16 Aromatic	N	ug/l	5	< 5.0	< 5.0	9.1	163	< 5.0
>C16-C21 Aromatic	N	ug/l	5	< 5.0	< 5.0	13.2	297	5.9
>C21-C35 Aromatic	N	ug/l	5	< 5.0	7.3	36.1	505	10.0
>C35-C40 Aromatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	19.2	< 5.0
Total (>C5-C40) Aromatic	N	ug/l	5	< 5.0	7.3	58.4	1030	15.9
Total (>C5-C40) Ali/Aro	N	ug/l	5	< 5.0	16.9	180	2200	41.3
PCB (ICES 7 congeners)								
PCB 28	N	ug/l	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
PCB 52	N	ug/l	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
PCB 101	N	ug/l	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
PCB118	N	ug/l	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
PCB 153	N	ug/l	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
PCB 138	N	ug/l	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
PCB 180	N	ug/l	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
PCB (7 Congeners)	N	ug/l	0.1	< 0.1	< 0.1	< 0.1	0.2	< 0.1

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Results Summary

Report No.: 20-28132, issue number 1

ELAB Reference	204067	204068	204069	204070	204071
Customer Reference					
Sample ID					
Sample Type	WATER	WATER	WATER	WATER	WATER
Sample Location	BH110	BH103	BHA	BHB	BHC
Sample Depth (m)	5.92	6.00	5.90	6.21	6.32
Sampling Date	12/05/2020	12/05/2020	12/05/2020	12/05/2020	12/05/2020
Determinand	Codes	Units	LOD		
VOC					
MTBE	N	ug/l	1	< 1	< 1
Heptane	N	ug/l	1	< 1	< 1
Octane	N	ug/l	1	< 1	< 1
Nonane	N	ug/l	1	< 1	< 1
Benzene	N	ug/l	1	< 1	< 1
Toluene	N	ug/l	1	< 1	< 1
Ethylbenzene	N	ug/l	1	< 1	< 1
m+p-xylene	N	ug/l	1	< 1	< 1
o-xylene	N	ug/l	1	< 1	< 1
cis-1,2-dichloroethene	N	ug/l	1	< 1	< 1
1,1-Dichloroethane	N	ug/l	1	< 1	< 1
Chloroform	N	ug/l	1	< 1	< 1
Tetrachloromethane	N	ug/l	1	< 1	< 1
1,1,1-Trichloroethane	N	ug/l	1	< 1	< 1
Trichloroethylene	N	ug/l	1	< 1	< 1
Tetrachloroethylene	N	ug/l	1	< 1	< 1
1,1,1,2-Tetrachloroethane	N	ug/l	1	< 1	< 1
1,1,2,2-Tetrachloroethane	N	ug/l	1	< 1	< 1
Chlorobenzene	N	ug/l	1	< 1	< 1
Bromobenzene	N	ug/l	1	< 1	< 1
Bromodichloromethane	N	ug/l	1	< 1	< 1
Methylethylbenzene	N	ug/l	1	< 1	< 1
1,1-Dichloro-1-propene	N	ug/l	1	< 1	< 1
Trans - 1-2 - dichloroethylene	N	ug/l	1	< 1	< 1
2,2-Dichloropropane	N	ug/l	1	< 1	< 1
Bromochloromethane	N	ug/l	1	< 1	< 1
1,2-Dichloroethane	N	ug/l	1	< 1	< 1
Dibromomethane	N	ug/l	1	< 1	< 1
1,2-Dichloropropane	N	ug/l	1	< 1	< 1
cis-1,3-Dichloro-1-propene	N	ug/l	1	< 1	< 1
trans-1,3-Dichloro-1-propene	N	ug/l	1	< 1	< 1
1,1,2-Trichloroethane	N	ug/l	1	< 1	< 1
Dibromochloromethane	N	ug/l	1	< 1	< 1
1,3-Dichloropropane	N	ug/l	1	< 1	< 1
Dibromoethane	N	ug/l	1	< 1	< 1
Styrene	N	ug/l	1	< 1	< 1
Propylbenzene	N	ug/l	1	< 1	< 1
2-Chlorotoluene	N	ug/l	1	< 1	< 1
1,2,4-Trimethylbenzene	N	ug/l	1	< 1	< 1
4-Chlorotoluene	N	ug/l	1	< 1	< 1
t-butylbenzene	N	ug/l	1	< 1	< 1
1,3,5-Trimethylbenzene	N	ug/l	1	< 1	< 1
1-methylpropylbenzene	N	ug/l	1	< 1	< 1
p-cymene	N	ug/l	1	< 1	< 1
1,3-Dichlorobenzene	N	ug/l	1	< 1	< 1
Butylbenzene	N	ug/l	1	< 1	< 1
1,2-Dibromo-3-chloropropane	N	ug/l	1	< 1	< 1
Hexachlorobutadiene	N	ug/l	1	< 1	< 1
1-2-3 - Trichlorobenzene	N	ug/l	1	< 1	< 1
Naphthalene	N	ug/l	1	< 1	< 1
1-2-4 - Trichlorobenzene	N	ug/l	1	< 1	< 1
1,4-Dichlorobenzene	N	ug/l	1	< 1	< 1
1,2-Dichlorobenzene	N	ug/l	1	< 1	< 1
Bromoform	N	ug/l	1	< 1	< 1

Results Summary

Report No.: 20-28132, issue number 1

ELAB Reference				204067	204068	204069	204070	204071
Customer Reference								
Sample ID								
Sample Type				WATER	WATER	WATER	WATER	WATER
Sample Location				BH110	BH103	BHA	BHB	BHC
Sample Depth (m)				5.92	6.00	5.90	6.21	6.32
Sampling Date				12/05/2020	12/05/2020	12/05/2020	12/05/2020	12/05/2020
Determinand	Codes	Units	LOD					
SVOC								
Phenol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Aniline	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Bis(2-chloroethyl)ether	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
2-Chlorophenol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,3-Dichlorobenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,4-Dichlorobenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Benzyl Alcohol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,2-Dichlorobenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
2-Methylphenol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Bis(2-chloroisopropyl)ether	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
3 and 4-methylphenol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
N-Nitrosodi-n-propylamine	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Hexachloroethane	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Nitrobenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Isophorone	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
2-Nitrophenol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
2,4-Dimethylphenol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Bis(2-chloroethoxy)methane	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
2,4-Dichlorophenol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,3,5-Trichlorobenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Naphthalene	N	ug/l	0.01	0.01	< 0.01	0.01	0.77	0.04
3-Chloroaniline	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Hexachloro-1,3-butadiene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
4-Chloro-3-methylphenol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
2-Methynaphthalene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1-Methylnaphthalene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Hexachlorocyclopentadiene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
2,4,6-Trichlorophenol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
2,4,5-Trichlorophenol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1-Chloronaphthalene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
2-Nitroaniline	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,4-Dinitrobenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Dimethyl phthalate	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1-3-dinitrobenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
2-6-dinitrotoluene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Acenaphthylene	N	ug/l	0.01	< 0.01	< 0.01	< 0.01	0.23	0.02
1,2-Dinitrobenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
3-Nitroaniline	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Acenaphthene	N	ug/l	0.01	< 0.01	< 0.01	< 0.01	0.35	< 0.01
4-nitrophenol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Dibenzofuran	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00

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Results Summary

Report No.: 20-28132, issue number 1

				ELAB Reference	204067	204068	204069	204070	204071
				Customer Reference					
				Sample ID					
				Sample Type	WATER	WATER	WATER	WATER	WATER
				Sample Location	BH110	BH103	BHA	BHB	BHC
				Sample Depth (m)	5.92	6.00	5.90	6.21	6.32
				Sampling Date	12/05/2020	12/05/2020	12/05/2020	12/05/2020	12/05/2020
Determinand		Codes	Units	LOD					
SVOC									
2,3,5,6-Tetrachlorophenol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
2,3,4,6-Tetrachlorophenol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Diethyl phthalate	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1-chloro-4-phenoxybenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Fluorene	N	ug/l	0.01	< 0.01	< 0.01	< 0.01	0.59	0.02	
4-Nitroaniline	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Dinitro-o-cresol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Diphenylamine	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Azobenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1-bromo-4-phenoxybenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Hexachlorobenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Pentachlorophenol	N	ug/l	1	< 1.00	< 1.00	< 1.00	1.12	< 1.00	
Phenanthrene	N	ug/l	0.01	0.07	0.05	0.02	2.29	0.08	
Anthracene	N	ug/l	0.01	0.02	0.01	< 0.01	0.51	0.02	
Carbazole	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Dibutyl phthalate	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Fluoranthene	N	ug/l	0.01	0.17	0.16	0.05	4.64	0.27	
Pyrene	N	ug/l	0.01	0.18	0.15	0.06	4.49	0.28	
Butyl benzyl phthalate	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Bis-2-ethylhexyladipate	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Butyl benzyl phthalate	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Benzo(a)anthracene	N	ug/l	0.01	0.07	0.06	0.02	2.89	0.14	
Chrysene	N	ug/l	0.01	0.10	0.08	0.03	3.32	0.16	
Bis(2-ethylhexyl)phthalate	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Benzo(b)fluoranthene	N	ug/l	0.01	0.05	0.04	0.02	3.71	0.15	
Benzo(k)fluoranthene	N	ug/l	0.01	0.06	0.05	0.02	3.67	0.18	
Benzo(a)pyrene	N	ug/l	0.01	0.05	0.06	0.01	4.34	0.18	
Indeno(1,2,3-CD)pyrene	N	ug/l	0.01	0.02	0.03	0.01	2.85	0.11	
Dibenz(ah)anthracene	N	ug/l	0.01	< 0.01	0.01	< 0.01	1.22	0.05	
Benzo(ghi)perylene	N	ug/l	0.01	0.03	0.04	0.02	3.60	0.14	

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The Environmental Laboratory Ltd. Reg. No. 3882193

Method Summary

Report No.: 20-28132, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Water					
Aliphatic/Aromatic hydrocarbons in water	N		19/05/2020		GC-FID
Aromatic hydrocarbons in water	N		19/05/2020		GC-FID
Phenols in waters	N		15/05/2020		HPLC
Alkalinity in waters	N		15/05/2020	100	Titrimetry
Dissolved metals by ICP in waters	U		15/05/2020	101	ICPMS
Dissolved organic carbon	N		18/05/2020	102	IR
pH of waters	U		15/05/2020	113	Electromeric
Chromium Hexavalent in waters	U		15/05/2020	123	Colorimetry
Sulphide in water	N		19/05/2020	134	Colorimetry
PAHs and/or PCBs in waters	N		18/05/2020	135	GC-MS
Electrical conductivity of water	U		15/05/2020	136	Electromeric
BOD	N		20/05/2020	142	5 Day
COD (Chemical Oxygen Demand in waters)	N		18/05/2020	143	Colorimetry
Ammonia in waters	N		15/05/2020	151	Colorimetry
Suspended Solids in waters	N		19/05/2020	155	Gravimetry
SVOC in waters	N		18/05/2020	167	GC-MS
PAHs and/or PCBs in waters	N		18/05/2020	170	GC-MS
Low range Aliphatic hydrocarbons water	N		18/05/2020	200	GC-MS
Low range Aromatic hydrocarbons water	N		18/05/2020	200	GC-MS
VOC in waters	N		14/05/2020	200	GC-MS
Elemental Sulphur by HPLC in waters	N		18/05/2020	206	HPLC
DO (Dissolved Oxygen) in waters	N		15/05/2020	211	Electromeric
Aliphatic hydrocarbons in water	N		18/05/2020	215	GC-FID
Aromatic hydrocarbons in water	N		18/05/2020	215	GC-FID
Anions	U		15/05/2020	270	Ion Chromatography

Tests marked N are not UKAS accredited



Report Information

Report No.: 20-28132, issue number 1

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"

Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed.

ELAB are unable to provide an interpretation or opinion on the content of this report.

The results relate only to the sample received.

PCB congener results may include any coeluting PCBs

Uncertainty of measurement for the determinands tested are available upon request

Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.

Deviation Codes

-
- | | |
|---|--|
| a | No date of sampling supplied |
| b | No time of sampling supplied (Waters Only) |
| c | Sample not received in appropriate containers |
| d | Sample not received in cooled condition |
| e | The container has been incorrectly filled |
| f | Sample age exceeds stability time (sampling to receipt) |
| g | Sample age exceeds stability time (sampling to analysis) |

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month

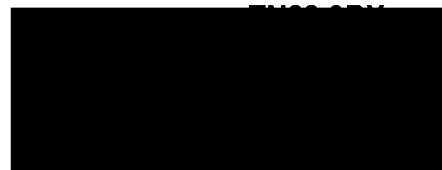
All water samples will be retained for 7 days following the date of the test report

Charges may apply to extended sample storage



2683

Unit A2
Windmill Road
Ponswood Industrial Estate
St Leonards on Sea
East Sussex



THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 20-28455

Issue: 1

Date of Issue: 22/06/2020

Contact: Glyn Evans

Customer Details: GESL
Unit 7
Danworth Farm
Hurstpierpoint
West Sussex BN6 9GL

Quotation No: Q19-01488

Order No: PO2756

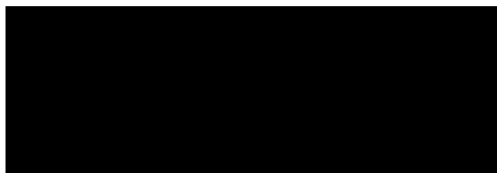
Customer Reference: GE18103

Date Received: 15/06/2020

Date Approved: 22/06/2020

Details: Cornfield Close, Littlehampton

Approved by:



Mike Varley, Technical Manager

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

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Sample Summary

Report No.: 20-28455, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
206008	BH110 6.30	11/06/2020	15/06/2020		
206009	BH103 6.40	11/06/2020	15/06/2020		
206010	BHA 6.27	11/06/2020	15/06/2020		
206011	BHB 6.64	11/06/2020	15/06/2020		
206012	BHC 6.74	11/06/2020	15/06/2020		

Results Summary

Report No.: 20-28455, issue number 1

ELAB Reference	206008	206009	206010	206011	206012
Customer Reference					
Sample ID					
Sample Type	WATER	WATER	WATER	WATER	WATER
Sample Location	BH110	BH103	BHA	BHB	BHC
Sample Depth (m)	6.30	6.40	6.27	6.64	6.74
Sampling Date	11/06/2020	11/06/2020	11/06/2020	11/06/2020	11/06/2020

Determinand	Codes	Units	LOD					
Dissolved Metals								
Arsenic	U	ug/l	5	< 5	< 5	< 5	< 5	< 5
Boron	N	ug/l	5	472	682	1180	736	1080
Barium	U	ug/l	5	68	134	61	229	55
Beryllium	U	ug/l	5	< 5	< 5	< 5	< 5	< 5
Cadmium	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
Chromium	U	ug/l	5	5	< 5	< 5	< 5	< 5
Copper	U	ug/l	5	< 5	< 5	< 5	< 5	< 5
Iron	U	ug/l	140	< 140	< 140	984	< 140	< 140
Mercury	U	ug/l	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	U	ug/l	5	10	49	20	49	< 5
Lead	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
Selenium	U	ug/l	5	< 5	< 5	< 5	< 5	< 5
Vanadium	N	ug/l	5	< 5	< 5	< 5	< 5	< 5
Zinc	U	ug/l	5	< 5	14	15	< 5	< 5
Anions								
Chloride	U	mg/l	0.5	57.5	22.2	33.0	39.8	164
Nitrate	U	mg/l	0.5	10.0	42.1	16.5	0.5	230
Sulphate	U	mg/l	0.5	180	206	599	51.7	335
Inorganics								
Elemental Sulphur	N	mg/l	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Ammoniacal Nitrogen as N	N	mg/l	0.1	17	33	17	82	0.2
Free ammonia (NH3)	N	mg/l	0.1	24	49	24	120	0.2
Hexavalent Chromium	U	ug/l	100	< 100	< 100	< 100	< 100	< 100
Sulphide	N	mg/l	0.1	0.5	0.1	0.1	0.2	0.3
Miscellaneous								
Total Alkalinity (CaCO3)	N	mg/l	5	510	755	660	750	460
Biochemical Oxygen Demand (5 day)	N	mg/l	2	4	38	2	< 2	< 2
Chemical Oxygen Demand	N	mg/l	2	15	17	17	30	11
Electrical Conductivity	U	uS/cm	50	1370	1610	2050	1620	2200
Dissolved organic carbon	N	mg/l	1.5	6.8	7.9	8.4	12	5.4
Dissolved Oxygen	N	mg/l	0.1	3.6	2.1	3.1	1.6	5.1
pH	U	pH units	0.1	6.7	6.7	6.7	6.8	6.8
Suspended Solids	N	mg/l	0.1	56	4700	250	170	28
Phenols								
Phenol	N	ug/l	1	< 1	< 1	< 1	< 1	< 1
M,P-Cresol	N	ug/l	1	< 1	< 1	< 1	< 1	< 1
O-Cresol	N	ug/l	1	< 1	< 1	< 1	< 1	< 1
3,4-Dimethylphenol	N	ug/l	1	< 1	< 1	< 1	< 1	< 1
2,3-Dimethylphenol	N	ug/l	1	< 1	< 1	< 1	< 1	< 1
2,3,5-trimethylphenol	N	ug/l	1	< 1	< 1	< 1	< 1	< 1
Total Monohydric Phenols	N	ug/l	1	< 1	< 1	< 1	< 1	< 1

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Results Summary

Report No.: 20-28455, issue number 1

ELAB Reference	206008	206009	206010	206011	206012
Customer Reference					
Sample ID					
Sample Type	WATER	WATER	WATER	WATER	WATER
Sample Location	BH110	BH103	BHA	BHB	BHC
Sample Depth (m)	6.30	6.40	6.27	6.64	6.74
Sampling Date	11/06/2020	11/06/2020	11/06/2020	11/06/2020	11/06/2020

Determinand	Codes	Units	LOD					
Polyaromatic hydrocarbons								
Naphthalene GCMS	N	ug/l	0.01	0.02	0.01	0.02	< 0.01	0.02
Acenaphthylene GCMS	N	ug/l	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene GCMS	N	ug/l	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluorene GCMS	N	ug/l	0.01	< 0.01	< 0.01	< 0.01	0.02	< 0.01
Phenanthrene GCMS	N	ug/l	0.01	< 0.01	< 0.01	0.02	0.04	< 0.01
Anthracene GCMS	N	ug/l	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluoranthene GCMS	N	ug/l	0.01	< 0.01	< 0.01	0.01	0.03	0.01
Pyrene GCMS	N	ug/l	0.01	< 0.01	< 0.01	0.01	0.03	0.01
Benzo (a) anthracene GCMS	N	ug/l	0.01	< 0.01	< 0.01	0.01	< 0.01	< 0.01
Chrysene GCMS	N	ug/l	0.01	< 0.01	< 0.01	0.01	< 0.01	< 0.01
Benzo (b) fluoranthene GCMS	N	ug/l	0.01	< 0.01	< 0.01	0.02	< 0.01	< 0.01
Benzo (k) fluoranthene GCMS	N	ug/l	0.01	< 0.01	< 0.01	0.02	< 0.01	< 0.01
Benzo (a) pyrene GCMS	N	ug/l	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Indeno (1,2,3-cd) pyrene GCMS	N	ug/l	0.01	< 0.01	< 0.01	0.02	< 0.01	< 0.01
Dibenzo(a,h)anthracene GCMS	N	ug/l	0.01	< 0.01	< 0.01	0.04	< 0.01	< 0.01
Benzo(ghi)perylene GCMS	N	ug/l	0.01	< 0.01	< 0.01	0.02	< 0.01	< 0.01
Total PAH(16) GCMS	N	ug/l	0.01	0.06	0.07	0.23	0.17	0.09
TPH CWG								
>C5-C6 Aliphatic	N	ug/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C6-C8 Aliphatic	N	ug/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C8-C10 Aliphatic	N	ug/l	5	< 5.0	6.0	< 5.0	< 5.0	< 5.0
>C10-C12 Aliphatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C12-C16 Aliphatic	N	ug/l	5	< 5.0	5.3	< 5.0	< 5.0	6.0
>C16-C21 Aliphatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	5.9
>C21-C35 Aliphatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	7.3
>C35-C40 Aliphatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total (>C5-C40) Aliphatic	N	ug/l	5	< 5.0	11.3	< 5.0	< 5.0	19.2
>C5-C7 Aromatic	N	ug/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C7-C8 Aromatic	N	ug/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C8-C10 Aromatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C10-C12 Aromatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C12-C16 Aromatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C16-C21 Aromatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C21-C35 Aromatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C35-C40 Aromatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total (>C5-C40) Aromatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total (>C5-C40) Ali/Aro	N	ug/l	5	< 5.0	11.3	< 5.0	< 5.0	19.2
PCB (ICES 7 congeners)								
PCB 28	N	ug/l	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
PCB 52	N	ug/l	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
PCB 101	N	ug/l	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
PCB118	N	ug/l	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
PCB 153	N	ug/l	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
PCB 138	N	ug/l	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
PCB 180	N	ug/l	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
PCB (7 Congeners)	N	ug/l	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

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The Environmental Laboratory Ltd. Reg. No. 3882193

Results Summary

Report No.: 20-28455, issue number 1

ELAB Reference	206008	206009	206010	206011	206012
Customer Reference					
Sample ID					
Sample Type	WATER	WATER	WATER	WATER	WATER
Sample Location	BH110	BH103	BHA	BHB	BHC
Sample Depth (m)	6.30	6.40	6.27	6.64	6.74
Sampling Date	11/06/2020	11/06/2020	11/06/2020	11/06/2020	11/06/2020
Determinand	Codes	Units	LOD		
VOC					
MTBE	N	ug/l	1	< 1	< 1
Heptane	N	ug/l	1	< 1	< 1
Octane	N	ug/l	1	< 1	< 1
Nonane	N	ug/l	1	< 1	< 1
Benzene	N	ug/l	1	< 1	< 1
Toluene	N	ug/l	1	< 1	< 1
Ethylbenzene	N	ug/l	1	< 1	< 1
m+p-xylene	N	ug/l	1	< 1	< 1
o-xylene	N	ug/l	1	< 1	< 1
cis-1,2-dichloroethene	N	ug/l	1	< 1	< 1
1,1-Dichloroethane	N	ug/l	1	< 1	< 1
Chloroform	N	ug/l	1	< 1	< 1
Tetrachloromethane	N	ug/l	1	< 1	< 1
1,1,1-Trichloroethane	N	ug/l	1	< 1	< 1
Trichloroethylene	N	ug/l	1	< 1	< 1
Tetrachloroethylene	N	ug/l	1	< 1	< 1
1,1,1,2-Tetrachloroethane	N	ug/l	1	< 1	< 1
1,1,2,2-Tetrachloroethane	N	ug/l	1	< 1	< 1
Chlorobenzene	N	ug/l	1	< 1	< 1
Bromobenzene	N	ug/l	1	< 1	< 1
Bromodichloromethane	N	ug/l	1	< 1	< 1
Methylethylbenzene	N	ug/l	1	< 1	< 1
1,1-Dichloro-1-propene	N	ug/l	1	< 1	< 1
Trans-1,2-dichloroethylene	N	ug/l	1	< 1	< 1
2,2-Dichloropropane	N	ug/l	1	< 1	< 1
Bromochloromethane	N	ug/l	1	< 1	< 1
1,2-Dichloroethane	N	ug/l	1	< 1	< 1
Dibromomethane	N	ug/l	1	< 1	< 1
1,2-Dichloropropane	N	ug/l	1	< 1	< 1
cis-1,3-Dichloro-1-propene	N	ug/l	1	< 1	< 1
trans-1,3-Dichloro-1-propene	N	ug/l	1	< 1	< 1
1,1,2-Trichloroethane	N	ug/l	1	< 1	< 1
Dibromochloromethane	N	ug/l	1	< 1	< 1
1,3-Dichloropropane	N	ug/l	1	< 1	< 1
Dibromoethane	N	ug/l	1	< 1	< 1
Styrene	N	ug/l	1	< 1	< 1
Propylbenzene	N	ug/l	1	< 1	< 1
2-Chlorotoluene	N	ug/l	1	< 1	< 1
1,2,4-Trimethylbenzene	N	ug/l	1	< 1	< 1
4-Chlorotoluene	N	ug/l	1	< 1	< 1
t-butylbenzene	N	ug/l	1	< 1	< 1
1,3,5-Trimethylbenzene	N	ug/l	1	< 1	< 1
1-methylpropylbenzene	N	ug/l	1	< 1	< 1
p-cymene	N	ug/l	1	< 1	< 1
1,3-Dichlorobenzene	N	ug/l	1	< 1	< 1
Butylbenzene	N	ug/l	1	< 1	< 1
1,2-Dibromo-3-chloropropane	N	ug/l	1	< 1	< 1
Hexachlorobutadiene	N	ug/l	1	< 1	< 1
1,2,3-Trichlorobenzene	N	ug/l	1	< 1	< 1
Naphthalene	N	ug/l	1	< 1	< 1
1,2,4-Trichlorobenzene	N	ug/l	1	< 1	< 1
1,4-Dichlorobenzene	N	ug/l	1	< 1	< 1
1,2-Dichlorobenzene	N	ug/l	1	< 1	< 1
Bromoform	N	ug/l	1	< 1	< 1



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Results Summary

Report No.: 20-28455, issue number 1

ELAB Reference	206008	206009	206010	206011	206012
Customer Reference					
Sample ID					
Sample Type	WATER	WATER	WATER	WATER	WATER
Sample Location	BH110	BH103	BHA	BHB	BHC
Sample Depth (m)	6.30	6.40	6.27	6.64	6.74
Sampling Date	11/06/2020	11/06/2020	11/06/2020	11/06/2020	11/06/2020

Determinand	Codes	Units	LOD					
SVOC								
Phenol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Aniline	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Bis(2-chloroethyl)ether	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
2-Chlorophenol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,3-Dichlorobenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,4-Dichlorobenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Benzyl Alcohol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,2-Dichlorobenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
2-Methylphenol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Bis(2-chloroisopropyl)ether	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
3 and 4-methylphenol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
N-Nitrosodi-n-propylamine	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Hexachloroethane	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Nitrobenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Isophorone	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
2-Nitrophenol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
2,4-Dimethylphenol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Bis(2-chloroethoxy)methane	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
2,4-Dichlorophenol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,3,5-Trichlorobenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Naphthalene	N	ug/l	0.01	0.02	0.01	0.02	0.01	0.02
3-Chloroaniline	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Hexachloro-1,3-butadiene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
4-Chloro-3-methylphenol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
2-Methylnaphthalene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1-Methylnaphthalene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Hexachlorocyclopentadiene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
2,4,6-Trichlorophenol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
2,4,5-Trichlorophenol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1-Chloronaphthalene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
2-Nitroaniline	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,4-Dinitrobenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Dimethyl phthalate	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1-3-dinitrobenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
2-6-dinitrotoluene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Acenaphthylene	N	ug/l	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2-Dinitrobenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
3-Nitroaniline	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Acenaphthene	N	ug/l	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
4-nitrophenol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Dibenzofuran	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
2,3,5,6-Tetrachlorophenol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
2,3,4,6-Tetrachlorophenol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Diethyl phthalate	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1-chloro-4-phenoxybenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Fluorene	N	ug/l	0.01	< 0.01	< 0.01	< 0.01	0.01	< 0.01
4-Nitroaniline	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Dinitro-o-cresol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Diphenylamine	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Azobenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1-bromo-4-phenoxybenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Hexachlorobenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Pentachlorophenol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00

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The Environmental Laboratory Ltd. Reg. No. 3882193



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Results Summary

Report No.: 20-28455, issue number 1

ELAB Reference	206008	206009	206010	206011	206012			
Customer Reference								
Sample ID								
Sample Type	WATER	WATER	WATER	WATER	WATER			
Sample Location	BH110	BH103	BHA	BHB	BHC			
Sample Depth (m)	6.30	6.40	6.27	6.64	6.74			
Sampling Date	11/06/2020	11/06/2020	11/06/2020	11/06/2020	11/06/2020			
Determinand	Codes	Units	LOD					
SVOC								
Phenanthrene	N	ug/l	0.01	< 0.01	< 0.01	< 0.01	0.04	< 0.01
Anthracene	N	ug/l	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Carbazole	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Dibutyl phthalate	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Fluoranthene	N	ug/l	0.01	< 0.01	< 0.01	< 0.01	0.03	0.01
Pyrene	N	ug/l	0.01	< 0.01	< 0.01	< 0.01	0.03	0.01
Butyl benzyl phthalate	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Bis-2-ethylhexyladipate	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Butyl benzyl phthalate	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Benzo(a)anthracene	N	ug/l	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chrysene	N	ug/l	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bis(2-ethylhexyl)phthalate	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Benzo(b)fluoranthene	N	ug/l	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	N	ug/l	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	N	ug/l	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-CD)pyrene	N	ug/l	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenz(ah)anthracene	N	ug/l	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(ghi)perylene	N	ug/l	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

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Method Summary

Report No.: 20-28455, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Water					
Aliphatic/Aromatic hydrocarbons in water	N		17/06/2020		GC-FID
Aromatic hydrocarbons in water	N		17/06/2020		GC-FID
Phenols in waters	N		16/06/2020		HPLC
Alkalinity in waters	N		16/06/2020	100	Titrimetry
Dissolved metals by ICP in waters	U		16/06/2020	101	ICPMS
Dissolved organic carbon	N		17/06/2020	102	IR
pH of waters	U		16/06/2020	113	Electromeric
Chromium Hexavalent in waters	U		16/06/2020	123	Colorimetry
Sulphide in water	N		17/06/2020	134	Colorimetry
PAHs and/or PCBs in waters	N		16/06/2020	135	GC-MS
Electrical conductivity of water	U		16/06/2020	136	Electromeric
BOD	N		22/06/2020	142	5 Day
COD (Chemical Oxygen Demand in waters)	N		17/06/2020	143	Colorimetry
Ammonia in waters	N		16/06/2020	151	Colorimetry
Suspended Solids in waters	N		17/06/2020	155	Gravimetry
SVOC in waters	N		16/06/2020	167	GC-MS
PAHs and/or PCBs in waters	N		16/06/2020	170	GC-MS
Low range Aliphatic hydrocarbons water	N		17/06/2020	200	GC-MS
Low range Aromatic hydrocarbons water	N		17/06/2020	200	GC-MS
VOC in waters	N		15/06/2020	200	GC-MS
Elemental Sulphur by HPLC in waters	N		17/06/2020	206	HPLC
DO (Dissolved Oxygen) in waters	N		16/06/2020	211	Electromeric
Aliphatic hydrocarbons in water	N		16/06/2020	215	GC-FID
Aromatic hydrocarbons in water	N		16/06/2020	215	GC-FID
Anions	U		16/06/2020	270	Ion Chromatography

Tests marked N are not UKAS accredited



Report Information

Report No.: 20-28455, issue number 1

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"

Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed.

ELAB are unable to provide an interpretation or opinion on the content of this report.

The results relate only to the sample received.

PCB congener results may include any coeluting PCBs

Uncertainty of measurement for the determinands tested are available upon request

Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.

Deviation Codes

-
- | | |
|---|--|
| a | No date of sampling supplied |
| b | No time of sampling supplied (Waters Only) |
| c | Sample not received in appropriate containers |
| d | Sample not received in cooled condition |
| e | The container has been incorrectly filled |
| f | Sample age exceeds stability time (sampling to receipt) |
| g | Sample age exceeds stability time (sampling to analysis) |

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month

All water samples will be retained for 7 days following the date of the test report

Charges may apply to extended sample storage



Unit A2
Windmill Road
Ponswood Industrial Estate
St Leonards on Sea
East Sussex
TN38 9BY

THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 20-29705

Issue: 1

Date of Issue: 11/09/2020

Contact: Glyn Evans

Customer Details: GESL
Unit 7
Danworth Farm
Hurstpierpoint
West Sussex BN6 9GL

Quotation No: Q19-01488

Order No: PO2973

Customer Reference: GE18103

Date Received: 04/09/2020

Date Approved: 11/09/2020

Details: Cornfield Close, Littlehampton

Approved by:

Mike Varley, Technical Manager

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

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Sample Summary

Report No.: 20-29705, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
213209	BH103 6.60	03/09/2020	04/09/2020		



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Results Summary

Report No.: 20-29705, issue number 1

ELAB Reference	213209
Customer Reference	
Sample ID	
Sample Type	WATER
Sample Location	BH103
Sample Depth (m)	6.60
Sampling Date	03/09/2020

Determinand	Codes	Units	LOD	
Dissolved Metals				
Arsenic	U	ug/l	5	< 5
Boron	N	ug/l	5	568
Barium	U	ug/l	5	127
Beryllium	U	ug/l	5	< 5
Cadmium	U	ug/l	1	< 1
Chromium	U	ug/l	5	< 5
Copper	U	ug/l	5	< 5
Iron	U	ug/l	140	< 140
Mercury	U	ug/l	0.1	< 0.1
Nickel	U	ug/l	5	59
Lead	U	ug/l	1	< 1
Selenium	U	ug/l	5	< 5
Vanadium	N	ug/l	5	< 5
Zinc	U	ug/l	5	11
Anions				
Chloride	U	mg/l	0.5	24.4
Nitrate	U	mg/l	0.5	9.9
Sulphate	U	mg/l	0.5	202
Inorganics				
Elemental Sulphur	N	mg/l	0.1	< 0.1
Ammoniacal Nitrogen as N	N	mg/l	0.1	4.1
Free ammonia (NH3)	N	mg/l	0.1	6.1
Hexavalent Chromium	U	ug/l	100	< 100
Sulphide	N	mg/l	0.1	< 0.1
Miscellaneous				
Total Alkalinity (CaCO3)	N	mg/l	5	690
Biochemical Oxygen Demand (5 day)	N	mg/l	2	7
Chemical Oxygen Demand	N	mg/l	2	30
Electrical Conductivity	U	uS/cm	50	1570
Dissolved organic carbon	N	mg/l	1.5	6.7
Dissolved Oxygen	N	mg/l	0.1	5.2
pH	U	pH units	0.1	6.7
Suspended Solids	N	mg/l	0.1	17000
Phenols				
Phenol	N	ug/l	1	< 1
M,P-Cresol	N	ug/l	1	< 1
O-Cresol	N	ug/l	1	< 1
3,4-Dimethylphenol	N	ug/l	1	< 1
2,3-Dimethylphenol	N	ug/l	1	< 1
2,3,5-trimethylphenol	N	ug/l	1	< 1
Total Monohydric Phenols	N	ug/l	1	< 1



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Results Summary

Report No.: 20-29705, issue number 1

ELAB Reference	213209
Customer Reference	
Sample ID	
Sample Type	WATER
Sample Location	BH103
Sample Depth (m)	6.60
Sampling Date	03/09/2020

Determinand	Codes	Units	LOD	
Polyaromatic hydrocarbons				
Naphthalene GCMS	N	ug/l	0.01	< 0.01
Acenaphthylene GCMS	N	ug/l	0.01	< 0.01
Acenaphthene GCMS	N	ug/l	0.01	< 0.01
Fluorene GCMS	N	ug/l	0.01	< 0.01
Phenanthrene GCMS	N	ug/l	0.01	0.01
Anthracene GCMS	N	ug/l	0.01	< 0.01
Fluoranthene GCMS	N	ug/l	0.01	0.04
Pyrene GCMS	N	ug/l	0.01	0.03
Benzo (a) anthracene GCMS	N	ug/l	0.01	0.02
Chrysene GCMS	N	ug/l	0.01	0.02
Benzo (b) fluoranthene GCMS	N	ug/l	0.01	0.02
Benzo (k) fluoranthene GCMS	N	ug/l	0.01	0.02
Benzo (a) pyrene GCMS	N	ug/l	0.01	0.02
Indeno (1,2,3-cd) pyrene GCMS	N	ug/l	0.01	0.02
Dibenzo(a,h)anthracene GCMS	N	ug/l	0.01	< 0.01
Benzo(ghi)perylene GCMS	N	ug/l	0.01	0.02
Total PAH(16) GCMS	N	ug/l	0.01	0.24
TPH CWG				
>C5-C6 Aliphatic	N	ug/l	1	< 1.0
>C6-C8 Aliphatic	N	ug/l	1	< 1.0
>C8-C10 Aliphatic	N	ug/l	5	7.7
>C10-C12 Aliphatic	N	ug/l	5	12.9
>C12-C16 Aliphatic	N	ug/l	5	38.8
>C16-C21 Aliphatic	N	ug/l	5	60.2
>C21-C35 Aliphatic	N	ug/l	5	208
>C35-C40 Aliphatic	N	ug/l	5	26.7
Total (>C5-C40) Aliphatic	N	ug/l	5	355
>C5-C7 Aromatic	N	ug/l	1	< 1.0
>C7-C8 Aromatic	N	ug/l	1	< 1.0
>C8-C10 Aromatic	N	ug/l	5	9.4
>C10-C12 Aromatic	N	ug/l	5	15.2
>C12-C16 Aromatic	N	ug/l	5	38.8
>C16-C21 Aromatic	N	ug/l	5	46.8
>C21-C35 Aromatic	N	ug/l	5	144
>C35-C40 Aromatic	N	ug/l	5	41.2
Total (>C5-C40) Aromatic	N	ug/l	5	296
Total (>C5-C40) Ali/Aro	N	ug/l	5	650
PCB (ICES 7 congeners)				
PCB 28	N	ug/l	0.1	< 0.1
PCB 52	N	ug/l	0.1	< 0.1
PCB 101	N	ug/l	0.1	< 0.1
PCB118	N	ug/l	0.1	< 0.1
PCB 153	N	ug/l	0.1	< 0.1
PCB 138	N	ug/l	0.1	< 0.1
PCB 180	N	ug/l	0.1	< 0.1
PCB (7 Congeners)	N	ug/l	0.1	< 0.1

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Results Summary

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Report No.: 20-29705, issue number 1

ELAB Reference	213209
Customer Reference	
Sample ID	
Sample Type	WATER
Sample Location	BH103
Sample Depth (m)	6.60
Sampling Date	03/09/2020

Determinand	Codes	Units	LOD
VOC			
MTBE	N	ug/l	1
Heptane	N	ug/l	1
Octane	N	ug/l	1
Nonane	N	ug/l	1
Benzene	N	ug/l	1
Toluene	N	ug/l	1
Ethylbenzene	N	ug/l	1
m+p-xylene	N	ug/l	1
o-xylene	N	ug/l	1
cis-1,2-dichloroethene	N	ug/l	1
1,1-Dichloroethane	N	ug/l	1
Chloroform	N	ug/l	1
Tetrachloromethane	N	ug/l	1
1,1,1-Trichloroethane	N	ug/l	1
Trichloroethylene	N	ug/l	1
Tetrachloroethylene	N	ug/l	1
1,1,1,2-Tetrachloroethane	N	ug/l	1
1,1,2,2-Tetrachloroethane	N	ug/l	1
Chlorobenzene	N	ug/l	1
Bromobenzene	N	ug/l	1
Bromodichloromethane	N	ug/l	1
Methylethylbenzene	N	ug/l	1
1,1-Dichloro-1-propene	N	ug/l	1
Trans-1,2-dichloroethylene	N	ug/l	1
2,2-Dichloropropane	N	ug/l	1
Bromochloromethane	N	ug/l	1
1,2-Dichloroethane	N	ug/l	1
Dibromomethane	N	ug/l	1
1,2-Dichloropropane	N	ug/l	1
cis-1,3-Dichloro-1-propene	N	ug/l	1
trans-1,3-Dichloro-1-propene	N	ug/l	1
1,1,2-Trichloroethane	N	ug/l	1
Dibromochloromethane	N	ug/l	1
1,3-Dichloropropane	N	ug/l	1
Dibromoethane	N	ug/l	1
Styrene	N	ug/l	1
Propylbenzene	N	ug/l	1
2-Chlorotoluene	N	ug/l	1
1,2,4-Trimethylbenzene	N	ug/l	1
4-Chlorotoluene	N	ug/l	1
t-butylbenzene	N	ug/l	1
1,3,5-Trimethylbenzene	N	ug/l	1
1-methylpropylbenzene	N	ug/l	1
p-cymene	N	ug/l	1
1,3-Dichlorobenzene	N	ug/l	1
Butylbenzene	N	ug/l	1
1,2-Dibromo-3-chloropropane	N	ug/l	1
Hexachlorobutadiene	N	ug/l	1
1,2,3-Trichlorobenzene	N	ug/l	1
Naphthalene	N	ug/l	1
1,2,4-Trichlorobenzene	N	ug/l	1
1,4-Dichlorobenzene	N	ug/l	1
1,2-Dichlorobenzene	N	ug/l	1
Bromoform	N	ug/l	1

Results Summary

Report No.: 20-29705, issue number 1

ELAB Reference	213209
Customer Reference	
Sample ID	
Sample Type	WATER
Sample Location	BH103
Sample Depth (m)	6.60
Sampling Date	03/09/2020

Determinand	Codes	Units	LOD	
SVOC				
Phenol	N	ug/l	1	< 1.00
Aniline	N	ug/l	1	< 1.00
Bis(2-chloroethyl)ether	N	ug/l	1	< 1.00
2-Chlorophenol	N	ug/l	1	< 1.00
1,3-Dichlorobenzene	N	ug/l	1	< 1.00
1,4-Dichlorobenzene	N	ug/l	1	< 1.00
Benzyl Alcohol	N	ug/l	1	< 1.00
1,2-Dichlorobenzene	N	ug/l	1	< 1.00
2-Methylphenol	N	ug/l	1	< 1.00
Bis(2-chloroisopropyl)ether	N	ug/l	1	< 1.00
3 and 4-methylphenol	N	ug/l	1	< 1.00
N-Nitrosodi-n-propylamine	N	ug/l	1	< 1.00
Hexachloroethane	N	ug/l	1	< 1.00
Nitrobenzene	N	ug/l	1	< 1.00
Isophorone	N	ug/l	1	< 1.00
2-Nitrophenol	N	ug/l	1	< 1.00
2,4-Dimethylphenol	N	ug/l	1	< 1.00
Bis(2-chloroethoxy)methane	N	ug/l	1	< 1.00
2,4-Dichlorophenol	N	ug/l	1	< 1.00
1,3,5-Trichlorobenzene	N	ug/l	1	< 1.00
Naphthalene	N	ug/l	0.01	< 0.01
3-Chloroaniline	N	ug/l	1	< 1.00
Hexachloro-1,3-butadiene	N	ug/l	1	< 1.00
4-Chloro-3-methylphenol	N	ug/l	1	< 1.00
2-Methylnaphthalene	N	ug/l	1	< 1.00
1-Methylnaphthalene	N	ug/l	1	< 1.00
Hexachlorocyclopentadiene	N	ug/l	1	< 1.00
2,4,6-Trichlorophenol	N	ug/l	1	< 1.00
2,4,5-Trichlorophenol	N	ug/l	1	< 1.00
1-Chloronaphthalene	N	ug/l	1	< 1.00
2-Nitroaniline	N	ug/l	1	< 1.00
1,4-Dinitrobenzene	N	ug/l	1	< 1.00
Dimethyl phthalate	N	ug/l	1	< 1.00
1-3-dinitrobenzene	N	ug/l	1	< 1.00
2-6-dinitrotoluene	N	ug/l	1	< 1.00
Acenaphthylene	N	ug/l	0.01	< 0.01
1,2-Dinitrobenzene	N	ug/l	1	< 1.00
3-Nitroaniline	N	ug/l	1	< 1.00
Acenaphthene	N	ug/l	0.01	< 0.01
4-nitrophenol	N	ug/l	1	< 1.00
Dibenzofuran	N	ug/l	1	< 1.00
2,3,5,6-Tetrachlorophenol	N	ug/l	1	< 1.00
2,3,4,6-Tetrachlorophenol	N	ug/l	1	< 1.00
Diethyl phthalate	N	ug/l	1	< 1.00
1-chloro-4-phenoxybenzene	N	ug/l	1	< 1.00
Fluorene	N	ug/l	0.01	< 0.01
4-Nitroaniline	N	ug/l	1	< 1.00
Dinitro-o-cresol	N	ug/l	1	< 1.00
Diphenylamine	N	ug/l	1	< 1.00
Azobenzene	N	ug/l	1	< 1.00
1-bromo-4-phenoxybenzene	N	ug/l	1	< 1.00
Hexachlorobenzene	N	ug/l	1	< 1.00
Pentachlorophenol	N	ug/l	1	< 1.00

Tests marked N are not UKAS accredited.

The Environmental Laboratory Ltd. Reg. No. 3882193



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Results Summary

Report No.: 20-29705, issue number 1

ELAB Reference	213209
Customer Reference	
Sample ID	
Sample Type	WATER
Sample Location	BH103
Sample Depth (m)	6.60
Sampling Date	03/09/2020

Determinand	Codes	Units	LOD	
SVOC				
Phenanthrene	N	ug/l	0.01	< 0.01
Anthracene	N	ug/l	0.01	< 0.01
Carbazole	N	ug/l	1	< 1.00
Dibutyl phthalate	N	ug/l	1	< 1.00
Fluoranthene	N	ug/l	0.01	0.03
Pyrene	N	ug/l	0.01	0.03
Butyl benzyl phthalate	N	ug/l	1	< 1.00
Bis-2-ethylhexyladipate	N	ug/l	1	< 1.00
Butyl benzyl phthalate	N	ug/l	1	< 1.00
Benzo(a)anthracene	N	ug/l	0.01	0.01
Chrysene	N	ug/l	0.01	0.02
Bis(2-ethylhexyl)phthalate	N	ug/l	1	< 1.00
Benzo(b)fluoranthene	N	ug/l	0.01	0.01
Benzo(k)fluoranthene	N	ug/l	0.01	0.01
Benzo(a)pyrene	N	ug/l	0.01	0.01
Indeno(1,2,3-CD)pyrene	N	ug/l	0.01	0.02
Dibenz(ah)anthracene	N	ug/l	0.01	< 0.01
Benzo(ghi)perylene	N	ug/l	0.01	0.03

Method Summary

Report No.: 20-29705, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Water					
Aliphatic/Aromatic hydrocarbons in water	N		11/09/2020		GC-FID
Aromatic hydrocarbons in water	N		11/09/2020		GC-FID
Phenols in waters	N		08/09/2020		HPLC
Alkalinity in waters	N		09/09/2020	100	Titrimetry
Dissolved organic carbon	N		09/09/2020	102	IR
pH of waters	U		09/09/2020	113	Electromeric
Chromium Hexavalent in waters	U		10/09/2020	123	Colorimetry
Sulphide in water	N		11/09/2020	134	Colorimetry
PAHs and/or PCBs in waters	N		11/09/2020	135	GC-MS
Electrical conductivity of water	U		09/09/2020	136	Electromeric
BOD	N		11/09/2020	142	5 Day
COD (Chemical Oxygen Demand in waters)	N		11/09/2020	143	Colorimetry
Ammonia in waters	N		09/09/2020	151	Colorimetry
Suspended Solids in waters	N		10/09/2020	155	Gravimetry
SVOC in waters	N		11/09/2020	167	GC-MS
PAHs and/or PCBs in waters	N		11/09/2020	170	GC-MS
Low range Aliphatic hydrocarbons water	N		08/09/2020	200	GC-MS
Low range Aromatic hydrocarbons water	N		08/09/2020	200	GC-MS
VOC in waters	N		07/09/2020	200	GC-MS
Elemental Sulphur by HPLC in waters	N		09/09/2020	206	HPLC
DO (Dissolved Oxygen) in waters	N		09/09/2020	211	Electromeric
Aliphatic hydrocarbons in water	N		11/09/2020	215	GC-FID
Aromatic hydrocarbons in water	N		11/09/2020	215	GC-FID
Anions	U		08/09/2020	270	Ion Chromatography
Dissolved metals by ICP in waters	U		08/09/2020	301	ICPMS

Tests marked N are not UKAS accredited



Report Information

Report No.: 20-29705, issue number 1

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"

Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed.

ELAB are unable to provide an interpretation or opinion on the content of this report.

The results relate only to the sample received.

PCB congener results may include any coeluting PCBs

Uncertainty of measurement for the determinands tested are available upon request

Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.

Deviation Codes

-
- | | |
|---|--|
| a | No date of sampling supplied |
| b | No time of sampling supplied (Waters Only) |
| c | Sample not received in appropriate containers |
| d | Sample not received in cooled condition |
| e | The container has been incorrectly filled |
| f | Sample age exceeds stability time (sampling to receipt) |
| g | Sample age exceeds stability time (sampling to analysis) |

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month

All water samples will be retained for 7 days following the date of the test report

Charges may apply to extended sample storage

Groundwater Analysis - Tabulated Summary (Baseline 2019 and Monitoring March, May, June and September 2020)

Site: Cornfield Close, Lewes

Client: Thakeham Client Limited

Job Number: GE18103

Tabulated results to show a direct comparison of monitoring data against baseline monitoring. (Green=below baseline, Amber = above baseline)

Determinand	Units	LOD	Baseline					
			ELAB/12 Reference	199915	204068	206009	213209	
			Customer Reference	35mm	35mm	35mm	35mm	35mm
			Sample ID	BH103	BH103	BH103	BH103	BH103
			Sample Type	WATER	WATER	WATER	WATER	WATER
			Sample Location					
			Sample Depth (m)	5.63	4.18	6.00	6.40	6.60
Sampling Date			05/11/2019	10/03/2020	12/05/2020	11/06/2020	11/06/2020	
Arsenic	ug/l	5	<0.5	<0.5	<0.5	<0.5	<0.5	
Boron	ug/l	5	265	891	366	862	568	
Barium	ug/l	5	<5	118	131	124	127	
Beryllium	ug/l	5	<0.5	<0.5	<0.5	<0.5	<0.5	
Cadmium	ug/l	1	<0.1	<0.1	<0.1	<0.1	<0.1	
Chromium	ug/l	5	<0.5	<0.5	<0.5	<0.5	<0.5	
Copper	ug/l	5	<0.5	<0.5	<0.5	<0.5	<0.5	
Iron	ug/l	140	<140	<140	<140	<140	<140	
Mercury	ug/l	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Nickel	ug/l	5	<0.5	33	44	49	59	
Lead	ug/l	1	<0.1	<0.1	<0.1	<0.1	<0.1	
Selenium	ug/l	5	<0.5	<0.5	<0.5	<0.5	<0.5	
Vanadium	ug/l	5	<0.5	<0.5	<0.5	<0.5	<0.5	
Zinc	ug/l	5	<0.5	13	15	14	11	
Chloride	mg/l	0.5	83.7	33.5	25.5	22.3	34.4	
Nitrate	mg/l	0.5	22.0	6.2	2.2	4.2	9.9	
Sulphate	mg/l	0.5	128	180	194	206	202	
Elemental Sulphur	mg/l	100	<0.1	<0.1	<0.1	<0.1	<0.1	
Ammoniacal Nitrogen as N	mg/l	0.1	1.6	29	33	33	4.1	
Free ammonia (NH3)	mg/l	1.5	2.4	43	49	49	6.1	
Hexavalent Chromium	ug/l	0.1	<0.02	<0.02	<0.02	<0.02	<0.02	
Sulphide	mg/l	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Phenol	ug/l	1	<0.1	<0.1	<0.1	<0.1	<0.1	
M.P. Crestol	ug/l	1	<0.1	<0.1	<0.1	<0.1	<0.1	
O-Crestol	ug/l	1	<0.1	<0.1	<0.1	<0.1	<0.1	
3,4-Dimethylphenol	ug/l	1	<0.1	<0.1	<0.1	<0.1	<0.1	
2,3-Dimethylphenol	ug/l	1	<0.1	<0.1	<0.1	<0.1	<0.1	
2,3,5-trimethylphenol	ug/l	1	<0.1	<0.1	<0.1	<0.1	<0.1	
Total Monohydric Phenols	ug/l	1	<0.1	<0.1	<0.1	<0.1	<0.1	
Naphthalene GCMS	ug/l	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Acenaphthylene GCMS	ug/l	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Acenaphthene GCMS	ug/l	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Fluorene GCMS	ug/l	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Phenanthrene GCMS	ug/l	0.01	<0.01	0.14	0.06	<0.01	<0.01	
Anthracene GCMS	ug/l	0.01	<0.01	0.06	0.02	<0.01	<0.01	
Fluoranthene GCMS	ug/l	0.01	<0.01	0.38	0.20	<0.01	0.04	
Pyrene GCMS	ug/l	0.01	<0.01	0.35	0.17	<0.01	0.03	
Benzo (a) anthracene GCMS	ug/l	0.01	<0.01	0.30	0.12	<0.01	0.02	
Chrysene GCMS	ug/l	0.01	<0.01	0.17	0.11	<0.01	0.02	
Benzo (b) fluoranthene GCMS	ug/l	0.01	<0.01	0.15	0.12	<0.01	0.02	
Benzo (k) fluoranthene GCMS	ug/l	0.01	<0.01	0.12	0.10	<0.01	0.02	
Benzo (a) pyrene GCMS	ug/l	0.01	<0.01	0.13	0.12	<0.01	0.02	
Indeno (1,2,3-cd) pyrene GCMS	ug/l	0.01	<0.01	0.17	0.07	<0.01	0.02	
Dibenz(a,h)anthracene GCMS	ug/l	0.01	<0.01	0.25	0.02	<0.01	<0.01	
Benzo(b)fluoranthene GCMS	ug/l	0.01	<0.01	0.08	0.07	<0.01	0.02	
Total PAH(S) GCMS	ug/l	0.01	0.25	2.34	1.21	0.97	0.24	
<C5-C6 Aliphatic	ug/l	1	<1.0	<1.0	<1.0	<1.0	<1.0	
<C5-C8 Aliphatic	ug/l	1	<1.0	<1.0	<1.0	<1.0	<1.0	
<C8-C10 Aliphatic	ug/l	5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
<C10-C12 Aliphatic	ug/l	5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
<C12-C16 Aliphatic	ug/l	5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
<C16-C21 Aliphatic	ug/l	5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
<C21-C35 Aliphatic	ug/l	5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
<C35-C40 Aliphatic	ug/l	5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
Total (<C5-C40) Aliphatic	ug/l	5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
<C5-C7 Aromatic	ug/l	1	<1.0	<1.0	<1.0	<1.0	<1.0	
<C7-C8 Aromatic	ug/l	1	<1.0	<1.0	<1.0	<1.0	<1.0	
<C8-C10 Aromatic	ug/l	1.5	<1.5	<1.5	<1.5	<1.5	<1.5	
<C10-C12 Aromatic	ug/l	5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
<C12-C16 Aromatic	ug/l	5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
<C16-C21 Aromatic	ug/l	5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
<C21-C35 Aromatic	ug/l	5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
<C35-C40 Aromatic	ug/l	5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
Total (<C5-C40) Aromatic	ug/l	5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
Total (<C5-C40) All/Aro	ug/l	5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
PCB 28	ug/l	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
PCB 52	ug/l	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
PCB 101	ug/l	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
PCB 118	ug/l	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
PCB 153	ug/l	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
PCB 138	ug/l	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
PCB 180	ug/l	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
PCB (7 Congeners)	ug/l	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	



Groundwater Analysis - Tabulated Summary (Baseline 2019 and Monitoring March, May, June and September 2020)

Site: Cornfield Close, Lewes

Client: Thakeham Client Limited

Job Number: GE18103

Tabulated results to show a direct comparison of monitoring data against baseline monitoring. (Green=below baseline, Amber = above baseline)

ELAB/12 Reference Customer Reference Sample ID Sample Type Sample Location Sample Depth (m)		Units	LOD	Baseline				Baseline				
				199917	204070	206011	206012	199618	204071	206012	206012	
				35mm	35mm	35mm	35mm	35mm	35mm	35mm	35mm	
				BH6	BH6	BH6	BH6	BH6	BH6	BH6	BH6	
				WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
				5.32	4.57	6.21	6.64	5.10	4.58	6.32	6.74	
				06/11/2019	10/03/2020	12/05/2020	11/06/2020	06/11/2019	10/03/2020	12/05/2020	11/06/2020	
Determinand												
Arsenic	ug/l	5		11	<5	8	<5	<5	<5	<5	<5	<5
Boron	ug/l	5		508	211	871	796	810	799	903	1202	
Barium	ug/l	5		191	221	213	229	46	67	60	55	
Beryllium	ug/l	5		<5	<5	<5	<5	<5	<5	<5	<5	
Cadmium	ug/l	1		<1	<1	<1	<1	<1	<1	<1	<1	
Chromium	ug/l	5		<5	<5	<5	<5	<5	<5	<5	<5	
Copper	ug/l	5		<5	<5	<5	<5	<5	<5	<5	<5	
Iron	ug/l	140		2250	<140	8880	140	<140	<140	140	<140	
Mercury	ug/l	0.1		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Nickel	ug/l	5		24	43	41	49	<5	<5	<5	<5	
Lead	ug/l	1		<1	<1	<1	<1	<1	<1	<1	<1	
Selenium	ug/l	5		<5	<5	<5	<5	<5	<5	<5	<5	
Vanadium	ug/l	5		<5	<5	<5	<5	<5	<5	<5	<5	
Zinc	ug/l	5		<5	<5	<5	<5	<5	<5	<5	<5	
Chloride	mg/l	0.5		195	34.5	46.7	39.8	106	179	206	184	
Nitrate	mg/l	0.5		<0.5	<0.5	<0.5	<0.5	102	214	255	230	
Sulphate	mg/l	0.5		133	46.5	48.0	41.7	199	345	333	335	
Elemental Sulphur	mg/l	100		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Ammoniacal Nitrogen as N	mg/l	0.1		41	82	39	82	0.2	<0.1	<0.1	0.2	
Free ammonia (NH3)	mg/l	1.5		61	120	49	120	0.2	<0.1	<0.1	0.2	
Hexavalent Chromium	ug/l	0.1		<103	<100	<100	<100	<100	<100	<100	<100	
Sulphide	mg/l	0.1		0.2	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	0.3	
Phenol	ug/l	1		<1	<1	<1	<1	<1	<1	<1	<1	
M.P. Crestol	ug/l	1		<1	<1	<1	<1	<1	<1	<1	<1	
O-Crestol	ug/l	1		<1	<1	<1	<1	<1	<1	<1	<1	
3,4-Dimethylphenol	ug/l	1		<1	<1	<1	<1	<1	<1	<1	<1	
2,3-Dimethylphenol	ug/l	1		<1	<1	<1	<1	<1	<1	<1	<1	
2,3,5-trimethylphenol	ug/l	1		<1	<1	<1	<1	<1	<1	<1	<1	
Total Monohydric Phenols	ug/l	1		<1	<1	<1	<1	<1	<1	<1	<1	
Naphthalene GCMS	ug/l	0.01		0.09	0.02	0.62	<0.01	<0.1	0.01	0.04	0.02	
Acenaphthylene GCMS	ug/l	0.01		<0.01	<0.01	0.22	<0.01	<0.01	<0.01	0.03	<0.01	
Acenaphthene GCMS	ug/l	0.01		0.06	<0.01	0.25	<0.01	<0.01	<0.01	0.01	<0.01	
Fluorene GCMS	ug/l	0.01		0.06	<0.01	0.68	<0.02	<0.01	<0.01	0.03	<0.01	
Phenanthrene GCMS	ug/l	0.01		0.04	0.03	2.77	0.04	0.02	<0.01	0.11	<0.01	
Anthracene GCMS	ug/l	0.01		0.01	0.02	0.70	<0.01	<0.01	<0.01	0.03	<0.01	
Fluoranthene GCMS	ug/l	0.01		0.04	0.05	5.31	0.01	0.06	<0.01	0.33	0.01	
Pyrene GCMS	ug/l	0.01		0.03	0.04	4.83	0.03	0.06	<0.01	0.33	0.01	
Benzo (a) anthracene GCMS	ug/l	0.01		0.01	0.03	4.37	<0.01	0.03	<0.01	0.24	<0.01	
Chrysene GCMS	ug/l	0.01		0.01	0.02	3.74	<0.01	0.04	<0.01	0.20	<0.01	
Benzo (b) fluoranthene GCMS	ug/l	0.01		0.01	0.01	6.00	<0.01	0.03	<0.01	0.47	<0.01	
Benzo (k) fluoranthene GCMS	ug/l	0.01		0.01	0.02	2.22	<0.01	0.03	<0.01	0.20	<0.01	
Benzo (a) pyrene GCMS	ug/l	0.01		0.01	0.01	6.20	<0.01	0.03	<0.01	0.30	<0.01	
Indeno (1,2,3-cd) pyrene GCMS	ug/l	0.01		0.01	0.01	4.57	<0.01	0.02	<0.01	0.20	<0.01	
Dibenz(a,h)anthracene GCMS	ug/l	0.01		<0.01	<0.01	2.28	<0.01	<0.01	<0.01	0.05	<0.01	
Benzo(b)fluoranthene GCMS	ug/l	0.01		0.01	<0.01	4.78	<0.01	0.03	<0.01	0.20	<0.01	
Total PAH(S) GCMS	ug/l	0.01		0.42	0.28	51.8	0.17	0.39	0.34	2.96	0.09	
<C5-C6 Aliphatic	ug/l	1		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
<C6-C8 Aliphatic	ug/l	1		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
<C8-C10 Aliphatic	ug/l	5-10		5.5	<5.0	24.0	<5.0	<5.0	<5.0	<5.0	<5.0	
<C10-C12 Aliphatic	ug/l	5-10		11.5	<5.0	48.1	<5.0	<5.0	<5.0	<5.0	<5.0	
<C12-C16 Aliphatic	ug/l	5-10		28.2	<5.0	172	<5.0	<5.0	<5.0	<5.0	<5.0	
<C16-C21 Aliphatic	ug/l	5-10		29.4	<5.0	305	<5.0	<5.0	<5.0	6.8	5.9	
>C21-C28 Aliphatic	ug/l	5-10		29.4	<5.0	308	<5.0	<5.0	<5.0	16.5	7.1	
>C28-C40 Aliphatic	ug/l	5-10		29.4	<5.0	30.8	<5.0	<5.0	<5.0	25.3	5.8	
Total (>C40) Aliphatic	ug/l	5-10		128	<5.0	1170	<5.0	<5.0	<5.0	25.3	19.2	
<C5-C7 Aromatic	ug/l	1		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
<C7-C8 Aromatic	ug/l	1		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
<C8-C10 Aromatic	ug/l	1.5		8.6	<5.0	10.4	<5.0	<5.0	<5.0	<5.0	<5.0	
<C10-C12 Aromatic	ug/l	5-10		23.5	<5.0	39.0	<5.0	<5.0	<5.0	<5.0	<5.0	
<C12-C16 Aromatic	ug/l	5-10		29.4	<5.0	183	<5.0	<5.0	<5.0	<5.0	<5.0	
<C16-C21 Aromatic	ug/l	5-10		16.5	<5.0	29.7	<5.0	<5.0	<5.0	5.9	<5.0	
>C21-C35 Aromatic	ug/l	5-10		34.7	<5.0	505	<5.0	8.1	<5.0	10.0	<5.0	
>C35-C40 Aromatic	ug/l	5-10		<5.0	<5.0	19.2	<5.0	<5.0	<5.0	<5.0	<5.0	
Total (>C40) Aromatic	ug/l	5-10		111	<5.0	1939	<5.0	8.3	<5.0	15.9	<5.0	
Total (>C40) Alk/Aro	ug/l	5-10		239	<5.0	2200	<5.0	8.3	<5.0	41.3	19.2	
PCB 28	ug/l	0.1		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
PCB 52	ug/l	0.1		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
PCB 101	ug/l	0.1		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
PCB 118	ug/l	0.1		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
PCB 153	ug/l	0.1		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
PCB 138	ug/l	0.1		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
PCB 180	ug/l	0.1		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
PCB (7 Congeners)	ug/l	0.1		<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	