



APPENDIX 2 - Site Photographs



Photograph 1 – Utilities Clearance being undertaken at the proposed location of BH14.



Photograph 2 – Dando 3000 cable percussive drilling rig in position over BH08 with acoustic barriers in place.



Photograph 3 – Pilcon 1500 cable percussive drilling rig in position over BH02 with acoustic barriers in place.



Photograph 4 - Window sample rig in position over WS02.



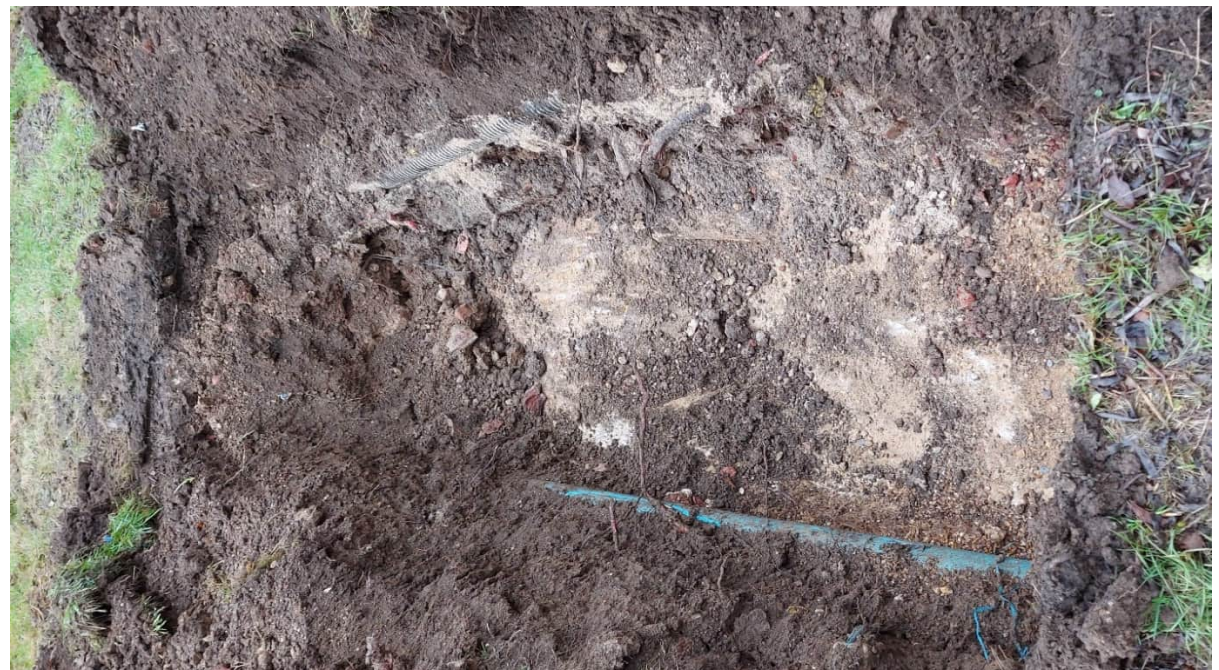
Photograph 5 – SA01 before the soakaway test was undertaken.



Photograph 6 – SA02A before the soakaway test was undertaken.



Photograph 7 – SA03 with the water ingress from the shallow made ground soils.



Photograph 8 – TP03 with concrete obstruction and services along the faces of the pit.



Photograph 9 – TP04.



Photograph 10 – TP09 with staining visible along the southern face of the pit.



Photograph 11 – TP05 post reinstatement.



Photograph 12 – SA01 post reinstatement.



Photograph 13 – BH03 post reinstatement.



Photograph 14 – Wall by BH15 post cleaning up.



APPENDIX 3 - Exploratory Hole Logs



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Borehole Log

Borehole No.

BH01E

Sheet 1 of 4

Project Name: HOLLOWAY PRISON	Project No. GRO-20291	Co-ords: 530096.03 - 185698.77	Hole Type CP
Location: LONDON		Level: 34.82	Scale 1:50
Client: WATERMAN		Dates: 09/02/2021 - 11/02/2021	Logged By BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.10	34.72		MADE GROUND: Tarmac.	
					0.35	34.47		MADE GROUND: Grey reinforced concrete.	
		0.50	ES		0.35	34.47		MADE GROUND: Geomembrane.	
					0.70	34.12		MADE GROUND: Orange brown slightly sandy very clayey subangular to rounded medium to coarse gravel of chert.	
					0.80	34.02		MADE GROUND: Grey reinforced concrete.	1
		1.20	D		1.10	33.72		MADE GROUND: Brown fine to medium sand and subrounded to rounded fine to medium gravel of pea shingle, rare brick and rare chert.	
		1.20	ES	N=5 (1,0/1,1,2,1)				MADE GROUND: Soft orange brown slightly sandy gravelly clay. Gravel is subangular to subrounded fine to coarse of mixed lithologies including brick, chert and quartzite.	
		1.50	B					Soft brown CLAY.	2
		2.00	D		1.90	32.92			
		2.00	ES	N=6 (1,1/1,2,1,2)					
		2.00	B						
		2.50 - 3.00	B						
		3.00	D						3
		3.00	ES	N=7 (1,1/2,2,1,2)					
		3.00	B						
		3.50 - 4.00	B					Soft to firm from 3.50m bgl.	
		4.00	ES						4
		4.00 - 4.45	U						
		4.45	D						
		4.50 - 5.00	B						
	5.00	D						5	
	5.00	ES	N=12 (2,2/2,3,3,4)						
	5.00	B							
	5.50 - 6.00	B							
	6.00 - 6.45	U						6	
	6.45	D							
	6.50 - 7.00	B							
	7.00	D						7	
	7.00	ES	N=15 (2,2/2,4,4,5)						
	7.50 - 8.00	B							
	8.00 - 8.45	U						8	
	8.45	D							
	8.50 - 9.00	B							
	9.00	D						9	
	9.00	ES	N=20 (3,3/4,5,6,5)						
	9.50 - 10.00	B							
	10.00	ES						10	

Continued on next sheet

Remarks

1. Hand excavated pit to 1.20m bgl. 2. No groundwater encountered. 3. Dual installation, deep well to 35.00m bgl, shallow well to 3.00m bgl. Deep well comprises 31.00m plain pipe and 4.00m slotted pipe, shallow well comprises 1.00m plain pipe and 2.00m slotted pipe. 4. All PID results 0 - 0.2ppm.





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Borehole Log

Borehole No.

BH01E

Sheet 2 of 4

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530096.03 - 185698.77

Hole Type
CP

Location: LONDON

Level: 34.82

Scale
1:50

Client: WATERMAN

Dates: 09/02/2021 - 11/02/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		10.00 - 10.45	U	N=22 (3,3/5,5,6,6)	10.60	24.22	Firm to stiff grey CLAY.	11	
		10.45	D						
		10.50 - 11.00	B						
		11.00	D						
		11.00	D						
		11.50 - 12.00	B						
		12.00 - 12.45	U						
		12.45	D						
		12.50 - 13.00	B						
		13.00	D						
		13.00	D						
		13.50 - 14.00	B						
		14.00 - 14.45	U						
		14.45	D						
		14.50 - 15.00	B						
		15.00	D						
		15.00	ES						
		15.00	D						
		16.00 - 16.50	B						
		16.50 - 16.95	U						
		16.95	D						
		17.50 - 18.00	B						
		18.00	D						
		18.00	D						
		19.00 - 19.50	B						
		19.50 - 19.95	U						
		19.95	D						
				N=24 (3,3/5,6,6,7)			Stiff from 13.00m bgl.	13	
				N=26 (3,4/5,7,7,7)				15	
				N=29 (4,4/6,7,8,8)				18	

Continued on next sheet

Remarks

1. Hand excavated pit to 1.20m bgl. 2. No groundwater encountered. 3. Dual installation, deep well to 35.00m bgl, shallow well to 3.00m bgl. Deep well comprises 31.00m plain pipe and 4.00m slotted pipe, shallow well comprises 1.00m plain pipe and 2.00m slotted pipe. 4. All PID results 0 - 0.2ppm.





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Borehole Log

Borehole No.

BH01E

Sheet 3 of 4

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530096.03 - 185698.77

Hole Type
CP

Location: LONDON

Level: 34.82

Scale
1:50

Client: WATERMAN

Dates: 09/02/2021 - 11/02/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		20.00	ES						
		20.50 - 21.00	B						
		21.00 21.00	D	N=33 (12,7/7,9,8,9)				Claystone recorded between 20.80m and 21.10m bgl.	21
		22.00 - 22.50	B						22
		22.50 - 22.95	U						
		22.95	D						23
		23.50 - 24.00	B						
		24.00 24.00	D	N=35 (5,5/7,9,9,10)					24
		25.00 25.00 - 25.50	ES B						25
		25.50 - 25.95	U						
		25.95	D						26
		26.50 - 27.00	B						
		27.00 27.00	D	N=39 (6,6/8,9,11,11)					27
		28.00 - 28.50	B						28
		28.50 - 28.95	U						
		28.95	D						29
		29.50 - 30.00	B						
		30.00	D						30

Continued on next sheet

Remarks

1. Hand excavated pit to 1.20m bgl. 2. No groundwater encountered. 3. Dual installation, deep well to 35.00m bgl, shallow well to 3.00m bgl. Deep well comprises 31.00m plain pipe and 4.00m slotted pipe, shallow well comprises 1.00m plain pipe and 2.00m slotted pipe. 4. All PID results 0 - 0.2ppm.





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Borehole Log

Borehole No.

BH01E

Sheet 4 of 4

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530096.03 - 185698.77

Hole Type
CP

Location: LONDON

Level: 34.82

Scale
1:50

Client: WATERMAN

Dates: 09/02/2021 - 11/02/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		30.00 30.00	ES	N=43 (6,7/9,11,11,12)				
		31.00 - 31.50	B					
		31.50 - 31.95	U					
		31.95	D					
		32.50 - 33.00	B					
		33.00 33.00	D	N=47 (7,7/10,10,13,14)				
		34.00 - 34.50	B					
		34.50 - 34.95	U					
		34.85 35.00	D ES					
		35.50 - 36.00	B					
		36.00 36.00	D	N=50 (8,8/50 for 280mm)			Very stiff from 36.00m bgl.	
		37.00 - 37.50	B					
		37.50 37.50	D	N=50 (8,10/50 for 265mm)				
		38.50 - 39.00	B					
		39.00 39.00	D	N=50 (9,10/50 for 240mm)				
		39.50 - 40.00	B					
		40.00	ES		40.00	-5.18	End of borehole at 40.00 m	

Remarks

1. Hand excavated pit to 1.20m bgl. 2. No groundwater encountered. 3. Dual installation, deep well to 35.00m bgl, shallow well to 3.00m bgl. Deep well comprises 31.00m plain pipe and 4.00m slotted pipe, shallow well comprises 1.00m plain pipe and 2.00m slotted pipe. 4. All PID results 0 - 0.2ppm.





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Borehole Log

Borehole No.

BH02

Sheet 1 of 3

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530124.16 - 185678.61

Hole Type
CP

Location: LONDON

Level: 35.10

Scale
1:50

Client: WATERMAN

Dates: 25/01/2021 - 26/01/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.35	34.75		MADE GROUND: Tarmac over reinforced concrete.	
		0.50	ES		0.50 - 1.00			MADE GROUND: Soft brown dark grey slightly sandy slightly cobbly gravelly clay. Gravel is angular to subangular fine to coarse of mixed lithologies including ash, concrete, brick, chert, quartzite, wood and rare clinker. Cobbles are subangular of brick. Slight hydrocarbon odour.	
		1.00	ES		1.20				
		1.20	D		1.20			MADE GROUND: Soft brown grey slightly gravelly clay. Gravel is subangular fine to coarse of mixed lithologies including ash, chert and brick. Slight hydrocarbon odour.	
		1.70	ES		1.70 - 2.00			Soft to firm brown CLAY.	
		2.00 - 2.45	B	N=5 (1,0/1,2,1,1)	1.90	33.20			
		2.45	D		2.50 - 3.00				
		2.70	B		3.00				
		3.00	D		3.00				
		3.50 - 4.00	B	N=11 (1,1/2,2,3,4)					
		3.70	ES						
		4.00 - 4.45	U						
		4.45	D						
		4.50 - 5.00	B						
		4.70	ES						
		5.00	D						
		5.00	D						
		5.50 - 6.00	B	N=15 (2,2/3,4,4,4)					
		6.00 - 6.45	U						
		6.45	D						
		6.50 - 7.00	B						
	7.00	D							
	7.00	D							
	7.50 - 8.00	B	N=19 (3,3/5,4,5,5)						
	8.00 - 8.30	U							
	8.30 - 8.80	B							
	9.00	D							
	9.00	D							
	9.50	ES							
	9.50 - 10.00	B	N=21 (3,3/4,5,6,6)						
	10.00 - 10.45	U							

Firm from 3.20m bgl.

Continued on next sheet

Remarks

1. Hand dug to pit 1.20m bgl. 2. No groundwater encountered. 3. Chiselling between 11.10m and 11.70m bgl (90 mins) 4. Dual installation, deep well to 25.00m bgl and shallow well to 3.00m bgl. Deep well comprises 21.00m plain pipe and 4.00m slotted pipe. Shallow well comprises 1.00m plain pipe and 2.00m slotted pipe. 5. PID results: 0.5m - 10.9ppm, 1.0m - 7.9ppm, 1.7m - 6.5ppm, all other PID results 0 - 0.2ppm.





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Borehole Log

Borehole No.

BH02

Sheet 2 of 3

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530124.16 - 185678.61

Hole Type
CP

Location: LONDON

Level: 35.10

Scale
1:50

Client: WATERMAN

Dates: 25/01/2021 - 26/01/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		10.45 10.50 - 11.00	D B	N=50 (4,21/50 for 15mm)	10.70	24.40	Stiff grey CLAY. <i>Claystone encountered between 10.70m and 11.10m bgl.</i>	11	
		11.00 11.00	D						
		11.10 - 11.70	B	N=27 (3,4/4,6,8,9)				12	
		12.00 12.00	D						
		12.50 - 13.00	B	N=25 (4,5/4,5,7,9)				13	
		13.00 - 13.45	U						
		13.45 13.50 - 14.00	D B	N=30 (5,5/6,7,7,10)				14	
		14.00 14.00	D						
		14.50 - 15.00 14.60	B ES	N=32 (5,7/6,8,8,10)				15	
		15.00 - 15.45	U						
		15.45 15.50 - 16.00	D B					16	
		16.00 - 16.50	B						
		16.50 16.50	D					17	
		17.00 - 17.50	B						
		18.00 - 18.45	U					18	
		18.45 18.50 - 19.00	D B						
		19.50 19.50	D					19	
		20.00 - 20.50	B						

Continued on next sheet

Remarks

1. Hand dug to pit 1.20m bgl. 2. No groundwater encountered. 3. Chiselling between 11.10m and 11.70m bgl (90 mins) 4. Dual installation, deep well to 25.00m bgl and shallow well to 3.00m bgl. Deep well comprises 21.00m plain pipe and 4.00m slotted pipe. Shallow well comprises 1.00m plain pipe and 2.00m slotted pipe. 5. PID results: 0.5m - 10.9ppm, 1.0m - 7.9ppm, 1.7m - 6.5ppm, all other PID results 0 - 0.2ppm.





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Borehole Log

Borehole No.

BH02

Sheet 3 of 3

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530124.16 - 185678.61

Hole Type
CP

Location: LONDON

Level: 35.10

Scale
1:50

Client: WATERMAN

Dates: 25/01/2021 - 26/01/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		21.00 - 21.45	U	N=37 (4,6/8,9,10,10)	25.00	10.10		
		21.45	D					
		21.50 - 22.00	B					
		22.50	D					
		22.50	D					
		23.00 - 23.50	B					
		24.00 - 24.45	U					
		24.45	D					
		24.50 - 25.00	B					
		24.60	ES					
	25.00	ES					End of borehole at 25.00 m	

Remarks

1. Hand dug to pit 1.20m bgl. 2. No groundwater encountered. 3. Chiselling between 11.10m and 11.70m bgl (90 mins) 4. Dual installation, deep well to 25.00m bgl and shallow well to 3.00m bgl. Deep well comprises 21.00m plain pipe and 4.00m slotted pipe. Shallow well comprises 1.00m plain pipe and 2.00m slotted pipe. 5. PID results: 0.5m - 10.9ppm, 1.0m - 7.9ppm, 1.7m - 6.5ppm, all other PID results 0 - 0.2ppm.





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Borehole Log

Borehole No.

BH03

Sheet 1 of 4

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530158.87 - 185642.44

Hole Type
CP

Location: LONDON

Level: 34.81

Scale
1:50

Client: WATERMAN

Dates: 01/02/2021 - 02/02/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
					0.30	34.51		MADE GROUND: Tarmac over concrete.
		0.50	ES		0.40	34.41		MADE GROUND: Brown slightly clayey sandy subangular fine to coarse gravel of mixed lithologies including chert, quartzite, brick, concrete and rare ash.
		0.50 - 1.00	B					Soft brown CLAY.
		1.00	ES					<i>Slight diesel odour between 0.40m and 0.65m bgl.</i>
		1.20	D					<i>Soft to firm from 1.00m bgl.</i>
		1.20		N=7 (1,1/1,2,2,2)				
		1.70	ES					
		1.70 - 2.00	B					
		2.00 - 2.45	U					
		2.45	D					
		2.50	ES					<i>Firm from 3.00m bgl.</i>
		2.50 - 3.00	B					
		3.00	D					
		3.00		N=10 (1,2/1,3,3,3)				
		3.50	ES					
		3.50 - 4.00	B					
		4.00 - 4.45	U					
		4.45	D					
		4.50	ES					
		4.50 - 5.00	B					
		5.00	D					
	5.00		N=14 (2,2/3,3,4,4)					
	5.50 - 6.00	B						
	6.00 - 6.45	U						
	6.45	D						
	6.50 - 7.00	B						
	7.00	D						
	7.00		N=16 (2,3/3,3,4,6)					
	7.50 - 8.00	B						
	8.00 - 8.45	U						
	8.45	D						
	8.50 - 9.00	B		8.60	26.21		Stiff grey CLAY.	
	9.00	D						
	9.00		N=21 (3,3/4,6,5,6)					
	9.50 - 10.00	B						
	10.00	ES						

Continued on next sheet

Remarks

1. Hand excavated pit to 1.20m bgl. 2. No groundwater encountered. 3. Backfilled with arisings and bentonite. 4. PID results: 0.50m - 1.6ppm, all other PID results 0 - 0.2ppm.





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Borehole Log

Borehole No.

BH03

Sheet 2 of 4

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530158.87 - 185642.44

Hole Type
CP

Location: LONDON

Level: 34.81

Scale
1:50

Client: WATERMAN

Dates: 01/02/2021 - 02/02/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		10.00 - 10.45	U	N=24 (3,5/5,6,6,7)					
		10.45	D						
		10.50 - 11.00	B						
		11.00	D						
		11.00							
		11.50 - 12.00	B						
		12.00 - 12.45	U						
		12.30	D						
		12.35 - 12.85	B						
		13.00	D						
		13.00		N=25 (5,5/5,6,7,7)					
		13.50 - 14.00	B						
		14.00 - 14.45	U						
		14.45	D						
		14.50 - 15.00	B						
		15.00	D						
		15.00	ES						
		15.00		N=31 (5,7/7,8,9)					
		15.50 - 16.00	B						
		16.50 - 16.95	U						
	16.95	D							
	17.00 - 17.50	B							
	18.00	D							
	18.00		N=36 (5,7/7,8,9,12)						
	18.50 - 19.00	B							
	19.50		N=44 (20,5/10,10,11,13)						
	19.50 - 20.00	B							
	20.00	ES							

Claystone encountered between 12.30m and 12.50m bgl.

Claystone encountered between 19.50m and 19.65m bgl.

Continued on next sheet

Remarks

1. Hand excavated pit to 1.20m bgl. 2. No groundwater encountered. 3. Backfilled with arisings and bentonite. 4. PID results: 0.50m - 1.6ppm, all other PID results 0 - 0.2ppm.





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Borehole Log

Borehole No.

BH03

Sheet 4 of 4

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530158.87 - 185642.44

Hole Type
CP

Location: LONDON

Level: 34.81

Scale
1:50

Client: WATERMAN

Dates: 01/02/2021 - 02/02/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		30.45 30.50 - 31.00	D B					
		31.50 31.50	D	N=41 (7,7/9,10,11,11)				
		32.00	ES					
		33.00 33.00	D	N=42 (8,9/10,10,10,12)				
		33.50 - 34.00	B					
		34.50 34.50	D	N=37 (8,8/10,11,3,13)				
		35.00 - 35.50	B					
		36.00 36.00	D	N=46 (9,10/10,11,11,14)				
		36.50 - 37.00	B					
		37.50 37.50	D	N=48 (10,10/11,11,12,14)				
	38.00 - 38.50	B						
	39.00 39.00	D	N=50 (11,14/50 for 225mm)					
	39.50 - 40.00	B						
				40.00	-5.19		End of borehole at 40.00 m	

Remarks

1. Hand excavated pit to 1.20m bgl. 2. No groundwater encountered. 3. Backfilled with arisings and bentonite. 4. PID results: 0.50m - 1.6ppm, all other PID results 0 - 0.2ppm.





GROUNDTECH
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Borehole Log

Borehole No.

BH04

Sheet 1 of 4

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530208.55 - 185611.10

Hole Type
CP

Location: LONDON

Level: 34.37

Scale
1:50

Client: WATERMAN

Dates: 25/01/2021 - 26/01/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.30	34.07		MADE GROUND: Tarmac over reinforced concrete.	
		0.50	D		0.35	34.02		MADE GROUND: Pale brown sandy subangular to subrounded fine to coarse gravel of mixed lithologies including chert and quartzite.	
		0.50 - 1.00	B					MADE GROUND: Dark brown red slightly clayey slightly cobbly sandy subangular fine to coarse gravel of mixed lithologies including brick, concrete and rare ash.	
		1.00	D		0.95	33.42		Soft brown CLAY.	1
		1.00	ES						
		1.20	D	N=6 (1,1/1,1,2,2)					
		1.20 - 1.70	B						
		2.00	ES						2
		2.00 - 2.45	U					<i>Firm from 2.00m bgl.</i>	
		2.45	D						
		2.50 - 3.00	B						
		3.00	D						3
		3.00	ES	N=7 (1,1/2,1,2,2)					
		3.00							
		3.50 - 4.00	B						
		4.00	ES						4
		4.00 - 4.45	U					<i>Firm to stiff from 4.00m bgl.</i>	
		4.45	D						
		4.50 - 5.00	B						
		5.00	ES						5
		5.00		N=16 (2,3/3,4,5,4)					
		5.00 - 5.45	D						
		5.50 - 6.00	B						
		6.00 - 6.45	U						6
		6.45	D						
		6.50 - 7.00	B						
		7.00	D						7
		7.00 - 7.45	D	N=20 (3,3/4,5,6,5)					
		7.50 - 8.00	B						
		8.00 - 8.45	U						8
		8.45	D						
		8.50 - 9.00	B						
		9.00	D						9
		9.00 - 9.45	D	N=24 (3,4/5,6,6,7)					
		9.50 - 10.00	B						
		10.00	ES						10

Continued on next sheet

Remarks

1. Hand dug pit to 1.20m bgl. 2. No groundwater encountered. 3. Installation to 35.00m bgl, 31.00m plain pipe and 4.00m slotted pipe. 4. All PID results 0 - 0.2ppm.





GROUNDTECH
CONSULTING

Borehole Log

Borehole No.

BH04

Sheet 2 of 4

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530208.55 - 185611.10

Hole Type
CP

Location: LONDON

Level: 34.37

Scale
1:50

Client: WATERMAN

Dates: 25/01/2021 - 26/01/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		10.00 - 10.45	U	N=27 (3,4/5,7,7,8)	10.20	24.17	Stiff grey CLAY.	
		10.45	D					
		10.50 - 11.00	B					
		11.00	D					
		11.00 - 11.45	D					
		11.50 - 12.00	B					
		12.00 - 12.45	U					
		12.45	D					
		12.50 - 13.00	B					
		13.00	D					
		13.00 - 13.45	D	N=28 (4,4/6,7,7,8)				
		13.50 - 14.00	B					
		14.00 - 14.45	U					
		14.45	D					
		14.50 - 15.00	B					
		15.00	ES					
		15.00	D					
		15.00 - 15.45	D					
		16.00 - 16.50	B					
		16.50 - 16.95	U					
		16.95	D	N=30 (4,4/6,8,8,8)				
		17.50 - 18.00	B					
		18.00	D					
		18.00 - 18.45	D					
		19.00 - 19.50	B					
		19.50 - 19.95	U					
		19.95	D					
		18.00	D		N=34 (4,5/7,9,9,9)			
		18.00 - 18.45	D					
		19.00 - 19.50	B					
		19.50 - 19.95	U					
		19.95	D					

Continued on next sheet

Remarks

1. Hand dug pit to 1.20m bgl. 2. No groundwater encountered. 3. Installation to 35.00m bgl, 31.00m plain pipe and 4.00m slotted pipe. 4. All PID results 0 - 0.2ppm.





GROUNDTECH
CONSULTING

Borehole Log

Borehole No.

BH04

Sheet 3 of 4

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530208.55 - 185611.10

Hole Type
CP

Location: LONDON

Level: 34.37

Scale
1:50

Client: WATERMAN

Dates: 25/01/2021 - 26/01/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		20.00	ES						
		20.50 - 21.00	B						
		21.00 21.00	D	N=36 (5,6/7,9,10,10)					21
		22.00	B						22
		22.50 - 22.95	U						
		22.95	D						23
		23.50 - 24.00	B						
		24.00 24.00	D	N=38 (6,6/8,9,9,12)					24
		25.00 25.00	ES ES						25
		25.00 - 25.50	B						
		25.50 - 25.95	U						
		25.95	D						26
		26.50 - 27.00	B						
		27.00 27.00	D	N=37 (7,8/8,8,10,11)				Claystone encountered from 26.60m to 26.80m bgl.	27
		28.00	B						28
		28.50 - 28.95	U						
		28.85	D						29
		29.50 - 30.00	B						
		30.00	D						30

Continued on next sheet

Remarks

1. Hand dug pit to 1.20m bgl. 2. No groundwater encountered. 3. Installation to 35.00m bgl, 31.00m plain pipe and 4.00m slotted pipe. 4. All PID results 0 - 0.2ppm.





GROUNDTECH
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Borehole Log

Borehole No.

BH04

Sheet 4 of 4

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530208.55 - 185611.10

Hole Type
CP

Location: LONDON

Level: 34.37

Scale
1:50

Client: WATERMAN

Dates: 25/01/2021 - 26/01/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		30.00	ES	N=41 (8,8/9,10,10,12)				
		30.00	ES					
		30.00						
			31.00 - 31.50	B				31
			31.50 - 31.95	U				
			31.95	D				32
			32.50	B				
			33.00	D	N=45 (8,9/10,10,12,13)			33
			33.00					
			34.00 - 34.50	B				34
			34.50 - 34.95	U				
			34.85	D	N=50 (9,9/11,12,12,15)			35
			35.00	ES				
			35.00	ES				
			35.50 - 36.00	B				
			36.00	D	N=50 (9,9/11,12,12,15)			36
			36.00					
			37.00	B				37
		37.50 - 37.95	U					
		37.85	D				38	
		38.50 - 39.00	B					
		39.00	D	N=50 (10,14/50 for 220mm)			39	
		39.00						
		40.00	ES		40.00	-5.63	40	

End of borehole at 40.00 m

Remarks

1. Hand dug pit to 1.20m bgl. 2. No groundwater encountered. 3. Installation to 35.00m bgl, 31.00m plain pipe and 4.00m slotted pipe. 4. All PID results 0 - 0.2ppm.





GROUNDTECH
CONSULTING

Borehole Log

Borehole No.

BH05

Sheet 1 of 4

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530064.21 - 185651.80

Hole Type
CP

Location: LONDON

Level: 35.73

Scale
1:50

Client: WATERMAN

Dates: 03/02/2021 - 04/02/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
					0.25	35.48		MADE GROUND: Tarmac over concrete.
					0.40	35.33		MADE GROUND: Orange brown slightly sandy very clayey subangular to subrounded medium to coarse gravel of chert.
		0.50	B	N=6 (1,1/2,1,1,2)				Soft brown CLAY.
		0.50	ES					
		1.00	ES					
		1.20	B					
		1.20	D					
		1.70	ES					
		2.00 - 2.45	U					
		2.45	D	N=10 (2,2/1,2,3,4)				<u>Soft to firm from 3.00m bgl.</u>
		2.50	B					
		2.50	ES					
		3.00	D					
		3.00						
		3.50	B					
		3.50	ES					<u>Firm from 3.50m bgl.</u>
		4.00 - 4.45	U					
		4.45	D	N=15 (2,3/3,4,4,4)				
		4.50	B					
		4.50	ES					
		5.00	D					
		5.00						
		5.50 - 6.00	B					
		6.00 - 6.45	U					
		6.45	D	N=21 (3,4/5,5,5,6)				
		6.50 - 7.00	B					
		7.00	D					
		7.00						
		7.50 - 8.00	B					
		8.00 - 8.45	U					
		8.45	D	N=23 (3,5/5,5,6,7)				
		8.50 - 9.00	B					
		9.00	D					
		9.00						
		9.50 - 10.00	B					
		10.00	ES					
					9.60	26.13		Stiff grey CLAY.
								Continued on next sheet

Remarks

1. Hand excavated pit to 1.20m bgl. 2. No groundwater encountered. 3. Installation to 35.00m, 31.00 plain pipe and 4.00m slotted pipe. 4. All PID results 0 - 0.2ppm.





GROUNDTECH
CONSULTING

Borehole Log

Borehole No.

BH05

Sheet 2 of 4

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530064.21 - 185651.80

Hole Type
CP

Location: LONDON

Level: 35.73

Scale
1:50

Client: WATERMAN

Dates: 03/02/2021 - 04/02/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		10.00 - 10.45	U	N=31 (5,6/7,7,8,9)					
		10.45	D						
		10.50 - 11.00	B						
		11.00	D						11
		11.00	D						
		11.50 - 12.00	B						
		12.00 - 12.45	U						12
		12.45	D						
		12.50 - 13.00	B						
		13.00	D						13
		13.00	D	N=26 (4,3/4,6,7,9)					
		13.50 - 14.00	B						
		14.00 - 14.45	U						14
		14.45	D						
		14.50 - 15.00	B						
		15.00	D						15
		15.00	ES						
		15.00	ES						
		15.50 - 16.00	B						16
		16.50 - 16.95	U						
		16.95	D					17	
		17.00 - 17.50	B						
		18.00	D	N=33 (6,5/7,8,8,10)					
		18.00	D						18
		18.50 - 19.00	B						
		19.50 - 19.95	U						19
		19.95	D						
									20

Continued on next sheet

Remarks

1. Hand excavated pit to 1.20m bgl. 2. No groundwater encountered. 3. Installation to 35.00m, 31.00 plain pipe and 4.00m slotted pipe. 4. All PID results 0 - 0.2ppm.





GROUNDTECH
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Borehole Log

Borehole No.

BH05

Sheet 3 of 4

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530064.21 - 185651.80

Hole Type
CP

Location: LONDON

Level: 35.73

Scale
1:50

Client: WATERMAN

Dates: 03/02/2021 - 04/02/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		20.50 - 21.00	B						21
		21.50 21.50	D	N=37 (6,6/7,8,10,12)					
		22.00 22.00 - 22.50	ES B						22
		23.00 - 23.45	U						23
		23.45 23.50 - 24.00	D B						24
		24.50 24.50	D	N=33 (6,7/6,7,9,11)					25
		25.00 - 25.50	B						26
		26.00 26.00 - 26.45	ES U						27
		26.45 26.50 - 27.00	D B						28
		27.50 27.50	D	N=35 (6,7/7,8,9,11)					29
		28.00 - 28.50	B						30
		29.00 - 29.45 29.15 29.25 - 29.95	U D B						

Continued on next sheet

Remarks

1. Hand excavated pit to 1.20m bgl. 2. No groundwater encountered. 3. Installation to 35.00m, 31.00 plain pipe and 4.00m slotted pipe. 4. All PID results 0 - 0.2ppm.





GROUNDTECH
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Borehole Log

Borehole No.

BH05

Sheet 4 of 4

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530064.21 - 185651.80

Hole Type
CP

Location: LONDON

Level: 35.73

Scale
1:50

Client: WATERMAN

Dates: 03/02/2021 - 04/02/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		30.50 30.50	D	N=40 (7,8/9,10,10,11)					
		31.00 - 31.50	B						31
		31.50	ES						
		32.00 - 32.45	U						32
		32.45 32.50 - 33.00	D B						33
		33.50 33.50	D	N=46 (8,8/9,11,13,13)					34
		34.00 - 34.50	B						
		35.50 - 35.95	U						35
		35.90 36.00 - 36.50	D B						36
		37.00 37.00	D	N=49 (9,10/10,12,13,14)					37
		37.50 - 38.00	B						38
		38.50 - 38.95	U						
		38.95 39.00 - 39.50	D B						39
		39.50 39.50 39.90	D D	N=50 (10,12/50 for 225mm)	40.00	-4.27		End of borehole at 40.00 m	40

Remarks

1. Hand excavated pit to 1.20m bgl. 2. No groundwater encountered. 3. Installation to 35.00m, 31.00 plain pipe and 4.00m slotted pipe. 4. All PID results 0 - 0.2ppm.





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Borehole Log

Borehole No.

BH06

Sheet 1 of 2

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530084.36 - 185630.52

Hole Type
CP

Location: LONDON

Level: 35.59

Scale
1:50

Client: WATERMAN

Dates: 18/01/2021 - 19/01/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description							
		Depth (m)	Type	Results											
		0.50	D	N=13 (2,2/2,3,4,4)	0.80	34.79		MADE GROUND: Grass over brown slightly sandy gravelly clay topsoil. Gravel is angular to subrounded fine to coarse of mixed lithologies including brick and chert.							
		0.50	ES												
		1.00	B							N=16 (2,3/3,4,4,5)				Firm brown mottled grey CLAY.	1
		1.00	D												
		1.00	ES												
		1.20	D												
		1.20	D												
		1.50	D												
		2.00	B												
		2.00	ES												
		2.00 - 2.45	U												
		2.50	D												
		3.00	B							N=20 (4,4/5,4,5,6)				Firm to stiff from 1.80m bgl.	
		3.00	D												
		3.00	ES												
		3.00	D												
		3.50	D												
		4.00	B							N=21 (4,4/5,5,6,5)				Occasional calcite crystals from 4.5m bgl.	
		4.00	D												
		4.00	ES												
4.00 - 4.45	U														
5.00	B	N=25 (4,5/5,6,7,7)													
5.00	D														
5.00	ES														
5.50	D														
6.00	B	N=25 (4,5/5,6,7,7)													
6.00 - 6.45	U														
6.50	D	N=25 (4,5/5,6,7,7)													
7.00	B														
7.00	D	N=25 (4,5/5,6,7,7)													
7.50	D														
8.00	B	N=25 (4,5/5,6,7,7)													
8.00 - 8.45	U														
8.50	D	N=25 (4,5/5,6,7,7)													
9.00	B														
9.00	D	N=25 (4,5/5,6,7,7)													
9.50	D														
10.00	B	N=25 (4,5/5,6,7,7)													
10.00	B														

Continued on next sheet

Remarks

1. Hand dug pit to 1.20m bgl. 2. Seepage at 0.40m bgl. 3. Chiselling from 12.70m - 13.00m (60 mins) and 18.60m - 18.80m (60 mins). 4. Installation to 8.00m bgl, 5.00m plan pipe and 3.00m slotted pipe. 5. All PID results 0 - 0.2ppm.





GROUNDTECH
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Borehole Log

Borehole No.

BH06

Sheet 2 of 2

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530084.36 - 185630.52

Hole Type
CP

Location: LONDON

Level: 35.59

Scale
1:50

Client: WATERMAN

Dates: 18/01/2021 - 19/01/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		10.00	ES						
		10.00 - 10.45	U						
		10.50	D						
		11.00	B	N=28 (4,5/6,7,7,8)					11
		11.00	D						
		11.50	D						
		12.00	B	N=28 (5,5/6,7,7,8)					12
		12.00 - 12.45	U						
		12.50	D						
		12.70	D						
		13.00	B						13
		13.00	D						
		14.00 - 14.45	U						14
		14.50	D						
		15.00	B	N=30 (5,6/6,7,8,9)					15
		15.00	ES						
		15.00	D						
		15.50	D						
		16.00	B						16
		16.50 - 16.95	U						
	17.00	B	N=30 (3,3/4,5,10,11)					17	
	17.00	D							
	17.50	D							
	18.00	B						18	
	18.00	D							
	18.50	D							
	18.60	D							
	19.00	B						19	
	19.50 - 19.95	U							
	20.00	ES		20.00	15.59			20	

Weak grey distinctly weathered claystone between 12.7m and 13.0m bgl.

Weak grey distinctly weathered claystone between 18.6m and 18.8m bgl.

End of borehole at 20.00 m

Remarks

1. Hand dug pit to 1.20m bgl. 2. Seepage at 0.40m bgl. 3. Chiselling from 12.70m - 13.00m (60 mins) and 18.60m - 18.80m (60 mins). 4. Installation to 8.00m bgl, 5.00m plan pipe and 3.00m slotted pipe. 5. All PID results 0 - 0.2ppm.





GROUNDTECH
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Borehole Log

Borehole No.

BH07

Sheet 1 of 2

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530084.17 - 185580.77

Hole Type
CP

Location: LONDON

Level: 36.47

Scale
1:50

Client: WATERMAN

Dates: 19/01/2021 - 20/01/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
Well					0.30	36.17		MADE GROUND: Tarmac over concrete.	
		0.50 0.50	D ES		0.60	35.87		MADE GROUND: Brown medium to coarse sand and angular to subrounded medium to coarse gravel of mixed lithologies including chert, slate, quartzite and concrete.	
		1.00 1.00 1.20 1.20 1.50 1.50	D ES D B ES	N=29 (5,6/6,7,8,8)	1.40	35.07		MADE GROUND: Brown red cobbly sandy angular to subrounded medium to coarse gravel of brick, concrete and chert.	1
		2.00 2.00 - 2.45	ES U					Firm brown mottled grey CLAY.	
		2.50	B					<i>Firm to stiff and dark brown from 2.00m bgl.</i>	2
		3.00 3.00 3.00 3.50	D ES B	N=14 (2,2/3,3,4,4)					3
		4.00 4.00 - 4.45	ES U						4
		4.50	B						
		5.00 5.00 5.00 5.00	B D ES	N=20 (2,3/4,5,5,6)				<i>Occasional calcite crystals from 5.00m bgl.</i>	5
		6.00 - 6.45	U						6
		6.50	B						
		7.00 7.00	D	N=21 (4,5/5,5,6,5)					7
		8.00 - 8.45	U						8
		8.50	B						
		9.00 9.00 9.00	B D	N=24 (4,4/5,6,6,7)					9
		9.50	B		9.50	26.97		Stiff grey CLAY.	
		10.00	ES						10

Continued on next sheet

Remarks

1. Hand dug pit to 1.20m bgl. 2. No groundwater encountered. 3. Chiselling from 13.10m - 13.40m (60 mins). 4. Backfilled with arisings and bentonite. 5. All PID results 0 - 0.2ppm.





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Borehole Log

Borehole No.

BH07

Sheet 2 of 2

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530084.17 - 185580.77

Hole Type
CP

Location: LONDON

Level: 36.47

Scale
1:50

Client: WATERMAN

Dates: 19/01/2021 - 20/01/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		10.00 - 10.45	U						
		11.00 11.00	D	N=28 (5,5/6,6,7,9)					11
		11.50	B						
		12.00 - 12.45	U						12
		12.50	B						
		13.00 13.00	D	N=24 (4,5/6,6,5,7)				Weak grey distinctly weathered claystone between 13.0m and 13.3m bgl.	13
		13.50	B						
		14.00 - 14.45	U						14
		14.50	B						
		15.00 15.00 15.00	D ES	N=29 (5,6/6,7,8,8)					15
		15.50	B						16
		17.00 17.00 - 17.45	B U						17
		18.00 18.00	D	N=33 (6,7/8,8,9,8)					18
		18.50	B						19
		19.50 19.50 - 19.95	B U						
		20.00	ES		20.00	16.47		End of borehole at 20.00 m	20

Remarks

1. Hand dug pit to 1.20m bgl. 2. No groundwater encountered. 3. Chiselling from 13.10m - 13.40m (60 mins). 4. Backfilled with arisings and bentonite. 5. All PID results 0 - 0.2ppm.





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Borehole Log

Borehole No.

BH08

Sheet 1 of 2

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530170.69 - 485598.60

Hole Type
CP

Location: LONDON

Level: 34.94

Scale
1:50

Client: WATERMAN

Dates: 22/01/2021 - 22/01/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
					0.35	34.59		MADE GROUND: Tarmac over reinforced concrete.
					0.60	34.34		MADE GROUND: Soft brown slightly gravelly clay. Gravel is subangular fine to coarse of mixed lithologies including quartzite, chert, brick and rare ash.
		0.50	D					Soft to firm brown CLAY. Occasional subrounded medium gravel of chert between 0.60m and 1.30m bgl.
		0.50	ES					
		0.50 - 1.00	B					
		1.00	D					
		1.00	ES					
		1.20	D					
		1.20		N=9 (1,1/2,2,2,3)				
		1.20 - 1.70	B					
		2.00	ES					
		2.00 - 2.45	U					
		2.50	D					
		2.50 - 3.00	B					
		3.00	D					
		3.00	ES					
		3.00		N=12 (2,3/2,3,3,4)				
		3.00 - 3.50	B					
		3.50	D					
		4.00	ES					
	4.00 - 4.45	U						
	4.45	D						
	4.50 - 5.00	B						
	5.00	ES					Firm to stiff from 5.00m bgl.	
	5.00		N=16 (2,2/3,4,4,5)					
	5.00 - 5.45	D						
	5.00 - 5.50	B						
	6.00 - 6.45	U						
	6.45	D						
	6.50 - 7.00	B						
	7.00	D						
	7.00		N=22 (3,4/5,6,5,6)					
	7.50 - 8.00	B						
	8.00 - 8.45	U						
	8.45	D						
	8.50 - 9.00	B						
	9.00	D						
	9.00		N=23 (4,5/5,5,6,7)					
	9.50 - 10.00	B						
	10.00	ES		9.80	25.14		Firm to stiff grey CLAY.	

Continued on next sheet

Remarks

1. Hand dug to pit 1.20m bgl. 2. No groundwater encountered. 3. Installation to 8.00m bgl, 5.00m plain pipe and 3.00m slotted pipe. 4. All PID results 0 - 0.2ppm.





GROUNDTECH
CONSULTING

Borehole Log

Borehole No.

BH08

Sheet 2 of 2

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530170.69 - 485598.60

Hole Type
CP

Location: LONDON

Level: 34.94

Scale
1:50

Client: WATERMAN

Dates: 22/01/2021 - 22/01/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		10.35	D	N=29 (4,5/6,7,8,8)					
		10.50 - 10.95	U						
		10.50 - 11.00	B						<i>Stiff from 10.50m bgl.</i>
		11.00	D						
		11.00							
		11.50 - 12.00	B						
		12.45	D						
		12.50 - 13.00	B						
		13.00	D						N=29 (5,5/6,7,8,8)
		13.00							
		13.50 - 14.00	B						
		14.00 - 14.45	U						
		14.45	D						
		14.50 - 15.00	B						
		15.00	D	N=32 (5,5/7,8,9,8)					
		15.00	ES						
		15.00							
		15.50 - 16.00	B						
		16.50 - 16.95	U						
		16.95	D						
	17.50 - 18.00	B	N=37 (6,6/8,9,10,10)						
	18.00	D							
	18.00								
	19.00 - 19.50	B							
	19.50 - 19.95	U							
	19.90	D							
	19.90	ES							
				20.00	14.94	End of borehole at 20.00 m			

Remarks

1. Hand dug to pit 1.20m bgl. 2. No groundwater encountered. 3. Installation to 8.00m bgl, 5.00m plain pipe and 3.00m slotted pipe. 4. All PID results 0 - 0.2ppm.





GROUNDTECH
CONSULTING

Borehole Log

Borehole No.

BH09

Sheet 1 of 5

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530116.50 - 185560.68

Hole Type
CP

Location: LONDON

Level: 35.93

Scale
1:50

Client: WATERMAN

Dates: 27/01/2021 - 29/01/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.20			0.20	35.73		MADE GROUND: Brown slightly gravelly sandy clay topsoil. Gravel is subangular to subrounded fine to coarse of mixed lithologies including brick.	
		0.50	ES					MADE GROUND: Brown slightly cobbly clayey gravelly sand. Gravel is angular to subrounded fine to coarse of mixed lithologies including brick, quartzite, chert, ash and rare concrete. Cobbles are subangular of brick.	1
		0.50 - 1.00	B	N=5 (1,1/1,2,1,1)				<i>Slight organic / hydrocarbon odour between 0.20m and 0.60m bgl.</i>	
		1.00	ES						
		1.20	B		1.80	34.13			
		1.20 - 1.60	B		2.10	33.83		MADE GROUND: Soft brown sandy gravelly clay. Gravel is subangular fine to coarse of mixed lithologies including chert, brick and quartzite.	2
		1.60	ES					Soft to firm brown CLAY.	
		1.90	ES						
		2.00	D	N=5 (2,1/1,1,2,1)					
		2.00 - 2.60	B						
		2.90	ES						
		3.00	D	N=7 (2,1/1,2,2,2)				3	
		3.00	B				<i>Firm from 3.00m bgl.</i>		
		3.50 - 4.00	B						
		4.00	ES					4	
		4.00 - 4.45	U						
		4.45	D						
		4.50 - 5.00	B						
		5.00	D					5	
		5.00	ES	N=13 (2,2/3,2,4,4)					
		5.00	B						
		5.50 - 6.00	B						
		6.00	ES					6	
		6.00 - 6.45	U						
		6.45	D						
		6.50 - 7.00	B						
		7.00	D					7	
		7.00	ES	N=19 (3,4/4,4,5,6)					
		7.00	B						
		7.50 - 8.00	B						
		8.00	ES					8	
		8.00 - 8.45	U						
		8.45	D						
		8.50 - 9.00	B						
		8.80			8.80	27.13			
		9.00	ES	N=28 (10,15/10,7,5,6)			Stiff grey CLAY with occasional bands of claystone.	9	
		9.00	B						
		9.00 - 9.50	B						
		9.80	D						
		10.00	D					10	

Continued on next sheet

Remarks

1. Hand dug pit to 1.20m bgl. 2. No groundwater encountered. 3. Installation to 35.00m bgl, 31.00m plain pipe and 4.00m slotted pipe. 4. PID results: 0.5m - 0.9ppm, 1.0m - 0.3ppm, all other PID results 0 - 0.2ppm.





GROUNDTECH
CONSULTING

Borehole Log

Borehole No.

BH09

Sheet 2 of 5

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530116.50 - 185560.68

Hole Type
CP

Location: LONDON

Level: 35.93

Scale
1:50

Client: WATERMAN

Dates: 27/01/2021 - 29/01/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		10.00		N=25 (5,5/6,5,7,7)					
		10.50 - 11.00	B						
		11.00	ES						11
		11.00 - 11.45	U						
		11.45	D						
		11.50 - 12.00	B						
		12.00	D						12
		12.00		N=27 (3,3/4,6,8,9)					
		12.50 - 13.00	B						
		13.00 - 13.45	U						13
		13.45	D						
		13.50 - 14.00	B						
		14.00	D						14
		14.00		N=28 (4,5/6,7,6,9)					
		14.50 - 15.00	B						
		15.00	ES						15
		15.00 - 15.45	U						
		15.45	D						
		15.50 - 16.00	B						16
		16.50	D						
		16.50		N=25 (4,5/7,7,6,5)					
		17.00 - 17.50	B						17
		18.00 - 18.45	U						
		18.45	D						18
		19.00 - 19.50	B						
		19.50	ES						19
		20.00	D						20

Continued on next sheet

Remarks

1. Hand dug pit to 1.20m bgl. 2. No groundwater encountered. 3. Installation to 35.00m bgl, 31.00m plain pipe and 4.00m slotted pipe. 4. PID results: 0.5m - 0.9ppm, 1.0m - 0.3ppm, all other PID results 0 - 0.2ppm.





GROUNDTECH
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Borehole Log

Borehole No.

BH09

Sheet 3 of 5

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530116.50 - 185560.68

Hole Type
CP

Location: LONDON

Level: 35.93

Scale
1:50

Client: WATERMAN

Dates: 27/01/2021 - 29/01/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		20.00		N=32 (5,6/7,7,8,10)				
		20.50 - 21.00	B					
		21.50 - 21.95	U					
		21.95 22.00 - 22.50	D B					
		23.00 23.00	D	N=37 (4,6/8,9,10,10)				
		23.50 - 24.00 23.50 - 33.00	B B					
		24.50 - 24.95	U					
		24.85 25.00 - 25.50	D B					
		26.00 26.00	D	N=37 (5,7/6,10,10,11)				
		26.50 26.50 - 27.00	ES B					
		27.50 - 27.95	U					
		27.90 28.00 - 28.50	D B					
		29.00 29.00	D	N=40 (7,7/8,10,11,11)				
		30.00	ES					

Continued on next sheet

Remarks

1. Hand dug pit to 1.20m bgl. 2. No groundwater encountered. 3. Installation to 35.00m bgl, 31.00m plain pipe and 4.00m slotted pipe. 4. PID results: 0.5m - 0.9ppm, 1.0m - 0.3ppm, all other PID results 0 - 0.2ppm.





GROUNDTECH
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Borehole Log

Borehole No.

BH09

Sheet 4 of 5

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530116.50 - 185560.68

Hole Type
CP

Location: LONDON

Level: 35.93

Scale
1:50

Client: WATERMAN

Dates: 27/01/2021 - 29/01/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		30.50 - 30.95	U						
		30.90	D						
		31.00 - 31.50	B						31
		32.00	D						
		32.00		N=39 (7,7/8,10,10,11)					32
		33.50 - 33.95	U						
		33.85	D						
		34.00 - 34.50	B						34
		35.00	D						
		35.00	ES						35
		35.00		N=44 (8,8/10,11,11,12)					
		35.50 - 36.00	B						36
	36.50	D							
	36.50		N=47 (8,8/9,12,12,14)					37	
	37.00 - 37.50	B							
	38.00	D							
	38.00		N=47 (7,9/9,10,13,15)					38	
	39.50	B							
	39.50	D							
	39.50	ES						39	
				40.00	-4.07			40	

Continued on next sheet

Remarks

1. Hand dug pit to 1.20m bgl. 2. No groundwater encountered. 3. Installation to 35.00m bgl, 31.00m plain pipe and 4.00m slotted pipe. 4. PID results: 0.5m - 0.9ppm, 1.0m - 0.3ppm, all other PID results 0 - 0.2ppm.





GROUNDTECH
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Borehole Log

Borehole No.

BH10

Sheet 1 of 4

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530169.11 - 185526.88

Hole Type
CP

Location: LONDON

Level: 37.00

Scale
1:50

Client: WATERMAN

Dates: 19/01/2021 - 22/01/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.40	36.60		MADE GROUND: Tarmac over reinforced concrete.	
		0.50	ES					MADE GROUND: Soft to firm dark brown slightly sandy slightly cobbly gravelly clay. Gravel is subangular fine to coarse of mixed lithologies including brick, concrete, ash and chert. Cobbles are subangular to subrounded of brick.	1
		1.00	D						
		1.00	ES						
		1.20	D						
		1.20		N=6 (1,1/1,1,2,2)	1.40	35.60			
		1.50	D						
		1.50 - 2.00	B					Firm brown CLAY.	
		2.00	ES						2
		2.00 - 2.45	U						
		2.50 - 3.00	B						
		3.00	D						3
		3.00	ES					<u>Firm to stiff from 3.00m bgl.</u>	
		3.00		N=19 (3,3/3,4,5,7)					
		3.50	D						
		3.50 - 4.00	B						
		4.00	ES						4
		4.00 - 4.45	U						
		4.50 - 5.00	B						
		5.00	D						5
		5.00	ES						
		5.00		N=22 (3,3/4,5,5,8)					
		5.50	D						
		5.50 - 6.00	B						
		6.00 - 6.45	U						6
		6.50 - 7.00	B						
		7.00	D						7
		7.00		N=22 (3,4/4,6,6,6)					
		7.50	D						
		7.50 - 8.00	B						
		8.00 - 8.45	U						8
		8.45	D						
		8.50 - 9.00	B						
		9.00	D						9
		9.00		N=29 (4,5/5,7,8,9)					
		9.50	D						
		9.50 - 10.00	B		9.70	27.30			
		10.00	ES					Stiff grey CLAY.	10

Continued on next sheet

Remarks

1. Hand dug pit to 1.20m bgl. 2. No Groundwater encountered. 3. Chiselling between 19.20m - 19.40m (30 mins), between 26.40m - 26.70m (60 mins) and between 28.00m - 28.90m (120 mins). 4. Installation to 35m bgl, 31m plain pipe and 4m slotted pipe. 5. All PID results 0 - 0.2ppm.





GROUNDTECH
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Borehole Log

Borehole No.

BH10

Sheet 2 of 4

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530169.11 - 185526.88

Hole Type
CP

Location: LONDON

Level: 37.00

Scale
1:50

Client: WATERMAN

Dates: 19/01/2021 - 22/01/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description			
		Depth (m)	Type	Results							
		10.00 - 10.45	U	N=30 (5,5/5,7,9,9)							
		10.45	D								
		10.50 - 11.00	B								
		11.00	D							11	
		11.00	D								
		11.50	D								
		11.50 - 12.00	B								
		12.00 - 12.45	U							12	
		12.45	D								
		12.50 - 13.00	B								
		13.00	D		N=36 (6,6/7,7,9,13)					13	
		13.00	D								
		13.50	D								
		13.50 - 14.00	B								
		14.00 - 14.45	U								14
		14.45 - 14.50	D								
		14.50 - 15.00	B								
		15.00	D			N=32 (7,7/7,7,9,9)					15
		15.00	ES								
		15.00	D								
		15.50	D								
		15.50 - 16.00	B								
		16.00 - 16.50	B							16	
		16.50 - 16.95	U								
		17.00	D							17	
		17.50	D								
		17.50 - 18.00	B								
		18.00	D	N=31 (6,7/7,7,7,10)						18	
		18.00	D								
		18.50	D								
		18.50 - 19.00	B								
		19.00	D							19	
		19.00 - 19.50	B								
		19.50 - 19.95	U								
		20.00	D							20	

Occasional thin (<0.1m) bands of Claystone from 12.00m bgl.

Band of Claystone between 19.20m and 19.40m bgl.

Continued on next sheet

Remarks
1. Hand dug pit to 1.20m bgl. 2. No Groundwater encountered. 3. Chiselling between 19.20m - 19.40m (30 mins), between 26.40m - 26.70m (60 mins) and between 28.00m - 28.90m (120 mins). 4. Installation to 35m bgl, 31m plain pipe and 4m slotted pipe. 5. All PID results 0 - 0.2ppm.





GROUNDTECH
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Borehole Log

Borehole No.

BH10

Sheet 3 of 4

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530169.11 - 185526.88

Hole Type
CP

Location: LONDON

Level: 37.00

Scale
1:50

Client: WATERMAN

Dates: 19/01/2021 - 22/01/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		20.00	ES					
		20.50	D					
		20.50 - 21.00	B					
		21.00	D					
		21.00		N=34 (7,7/7,8,8,11)				
		21.50	D					
		21.50 - 22.00	B					
		22.00	D					
		22.50 - 22.95	U					
		23.00	D					
		23.50	D					
		23.50 - 24.00	B					
		24.00	D					
		24.00		N=39 (7,7/9,9,9,12)				
		24.50	D					
		24.50 - 25.00	B					
		25.00	ES					
		25.50 - 26.00	U					
		26.00	D					
		26.50	D					
		26.50 - 27.00	B				Band of Claystone between 26.40m and 26.70m bgl.	
		27.00	D					
		27.00		N=50 (9,10/10,12,14,14)				
		27.50	D					
		27.50 - 28.00	B					
		28.00	D					
		28.00		N=50 (9,11/50 for 245mm)				
		28.40	D					
		28.40		N=50 (10,13/50 for 230mm)				
		29.00	D					
		29.50	D					
		29.50 - 30.00	B					
		30.00	D					

Continued on next sheet

Remarks

1. Hand dug pit to 1.20m bgl. 2. No Groundwater encountered. 3. Chiselling between 19.20m - 19.40m (30 mins), between 26.40m - 26.70m (60 mins) and between 28.00m - 28.90m (120 mins). 4. Installation to 35m bgl, 31m plain pipe and 4m slotted pipe. 5. All PID results 0 - 0.2ppm.





GROUNDTECH
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Borehole Log

Borehole No.

BH10

Sheet 4 of 4

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530169.11 - 185526.88

Hole Type
CP

Location: LONDON

Level: 37.00

Scale
1:50

Client: WATERMAN

Dates: 19/01/2021 - 22/01/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		30.00	ES	N=39 (8,9/9,9,10,11)	40.00	-3.00		
		30.00						
		30.50	D					
		31.00	D					
		31.50	D	N=41 (9,9/10,10,10,11)				
		31.50						
		31.50 - 32.00	B					
		32.00	D					
		32.50	D	N=48 (8,9/11,11,12,14)				
		32.50 - 33.00	B					
		33.00	D					
		33.00						
		33.50	D	N=50 (9,9/10,12,12,16)				
		33.50 - 34.00	B					
		34.00	D					
		34.50	D	N=50 (10,10/12,12,13,13)				
		34.50						
		34.50 - 35.00	B					
		35.00	D					
		35.00	ES					
	35.50	D	N=50 (10,12/12,14,15,9)					
	35.50 - 36.00	B						
	36.00	D						
	36.00							
	36.50	D	N=50 (13,12/50 for 230mm)					
	36.50 - 37.00	B						
	37.00	D						
	37.50	D						
	37.50							
	37.50 - 38.00	B						
	38.00	D						
	38.50	D						
	38.50 - 39.00	B						
	39.00	D						
	39.00							
	39.50	D						
	39.50 - 40.00	B						
	39.90	ES						
	40.00	D						

Remarks

1. Hand dug pit to 1.20m bgl. 2. No Groundwater encountered. 3. Chiselling between 19.20m - 19.40m (30 mins), between 26.40m - 26.70m (60 mins) and between 28.00m - 28.90m (120 mins). 4. Installation to 35m bgl, 31m plain pipe and 4m slotted pipe. 5. All PID results 0 - 0.2ppm.



End of borehole at 40.00 m



GROUNDTECH
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Borehole Log

Borehole No.

BH11

Sheet 1 of 3

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530009.52 - 185625.75

Hole Type
CP

Location: LONDON

Level: 38.09

Scale
1:50

Client: WATERMAN

Dates: 11/02/2021 - 12/02/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.20			0.20	37.89		MADE GROUND: Grass over dark brown very sandy gravelly clay topsoil. Gravel is subangular fine to coarse of mixed lithologies including brick and chert.	
		0.50 0.50 - 1.00	ES B					MADE GROUND: Soft brown gravelly clay. Gravel is subangular fine to medium of mixed lithologies including brick, chert, quartzite, ash and rare concrete.	1
		1.00 1.20 1.20 - 1.70	ES B	N=5 (2,2/1,1,2,1)					
		1.70 2.00 2.00	ES D		1.75	36.34		Soft to firm brown CLAY.	2
		2.50 2.50 - 3.00	ES B	N=6 (1,1/2,1,2,1)					
		3.00 - 3.45	U						3
		3.50 3.50 3.50 - 4.00	D ES B					<i>Firm from 3.50m bgl.</i>	
		4.00 4.00	D	N=11 (2,1/2,3,2,4)					4
		4.50 4.50 - 5.00	ES B						
		5.00 - 5.45	U						5
		5.45 5.50 5.50 - 6.00	D ES B						
		6.00 6.00	D	N=17 (2,4/3,4,5,5)					6
		6.50 - 7.00	B						
		7.00 - 7.45	U						7
		7.45 7.50 - 8.00	D B						
		8.00 8.00	D	N=23 (4,5/5,6,5,7)					8
		8.50 - 9.00	B						
		9.00 - 9.45 9.00 - 9.50	U B		9.00	29.09		Weak grey distinctly weathered CLAYSTONE.	9
		10.00	ES						10

Continued on next sheet

Remarks

1. Hand excavated pit to 1.20m bgl. 2. No groundwater encountered. 3. Backfilled with arisings and bentonite. 4. All PID results 0 - 0.2ppm.





GROUNDTECH
CONSULTING

Borehole Log

Borehole No.

BH11

Sheet 3 of 3

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530009.52 - 185625.75

Hole Type
CP

Location: LONDON

Level: 38.09

Scale
1:50

Client: WATERMAN

Dates: 11/02/2021 - 12/02/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		20.00 - 20.50	B	N=32 (7,7/7,8,9,8)				
		20.50 20.50	D					
		21.50 - 22.00	B					
		22.00 - 22.45	U					
		22.45	D					
		23.00 - 23.50	B	N=35 (6,8/7,9,8,11)				
		23.50 23.50	D					
		24.50 - 25.00	B					
		25.00 25.00 - 25.45	ES U					
		25.45	D					
		26.00 - 26.50	B	N=40 (8,9/10,10,9,11)				
		26.50 26.50 - 26.95	D					
		27.50 - 28.00	B					
		28.00 - 28.45	U					
		28.45	D					
		29.00 - 29.50	B	N=46 (9,9/10,12,11,13)				
	29.50 29.50	D						
	29.95	D						
				30.00	8.09		End of borehole at 30.00 m	

Remarks

1. Hand excavated pit to 1.20m bgl. 2. No groundwater encountered. 3. Backfilled with arisings and bentonite. 4. All PID results 0 - 0.2ppm.





GROUNDTECH
CONSULTING

Borehole Log

Borehole No.

BH12

Sheet 1 of 4

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530021.45 - 185617.40

Hole Type
CP

Location: LONDON

Level: 38.26

Scale
1:50

Client: WATERMAN

Dates: 09/02/2021 - 11/02/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.20			0.20	38.06		MADE GROUND: Grass over dark brown slightly gravelly slightly sandy clay topsoil. Gravel is subangular fine to coarse of mixed lithologies including brick and chert.	
		0.50 - 1.00	ES B						
		1.00	ES		0.80	37.46		MADE GROUND: Soft slightly sandy gravelly clay. Gravel is subangular fine to coarse of mixed lithologies including brick, chert, quartzite, rare concrete and rare ash. Soft to firm brown CLAY.	1
		1.20	D						
		1.20		N=5 (1,1/2,1,1,1)					
		1.70 - 2.00	B						
		2.00	ES						2
		2.00 - 2.45	U						
		2.45	D						
		2.50 - 3.00	B						
		3.00	D						3
		3.00	ES						
		3.00		N=7 (2,1/1,2,1,3)					
		3.50 - 4.00	B						
		4.00	ES						4
		4.00 - 4.45	U					Firm from 4.00m bgl.	
		4.45	D						
		4.50 - 5.00	B						
		5.00	D						5
		5.00	ES						
		5.00		N=12 (2,3/2,3,3,4)					
		5.50 - 6.00	B						
		6.00 - 6.45	U						6
		6.45	D						
		6.50 - 7.00	B						
		7.00	D						7
		7.00		N=17 (2,4/3,5,4,5)					
		7.50 - 8.00	B						
		8.00 - 8.45	U						8
		8.45	D						
		8.50 - 9.00	B						
		9.00	D						9
		9.00		N=27 (4,5/5,7,7,8)				Firm to stiff from 9.00m bgl.	
		9.50 - 10.00	B						
		10.00	ES						10

Continued on next sheet

Remarks

1. Hand excavated pit to 1.20m bgl. 2. No groundwater encountered. 3. Installation to 8.00m bgl, 5.00 plain pipe and 3.00m slotted pipe. 4. PID results: 20.0m - 0.4ppm, 25.0m - 0.4ppm, all other PID results 0 - 0.2ppm.





GROUNDTECH
CONSULTING

Borehole Log

Borehole No.

BH12

Sheet 2 of 4

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530021.45 - 185617.40

Hole Type
CP

Location: LONDON

Level: 38.26

Scale
1:50

Client: WATERMAN

Dates: 09/02/2021 - 11/02/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description					
		Depth (m)	Type	Results									
		10.00 - 10.45	U	N=22 (4,6/5,5,5,7)	10.50	27.76		Stiff grey CLAY with occasional thin claystone bands.					
		10.45	D										
		10.50 - 11.00	B										
		11.00	D										
		11.00											
		11.50 - 12.00	B										
		12.00 - 12.45	U										
		12.45	D										
		12.50 - 13.00	B										
		13.00	D										
		13.00											
		13.50 - 14.00	B										
		14.00 - 14.45	U										
		14.45	D										
		14.50 - 15.00	B										
		15.00	D										
		15.00	ES										
		15.00											
	15.50 - 16.00	B											
	16.50 - 16.95	U											
	16.95	D											
	17.00 - 17.50	B											
	18.00	D											
	18.00												
	18.50 - 19.00	B											
	19.50 - 19.95	U											
	19.95	D											

Continued on next sheet

Remarks

1. Hand excavated pit to 1.20m bgl. 2. No groundwater encountered. 3. Installation to 8.00m bgl, 5.00 plain pipe and 3.00m slotted pipe. 4. PID results: 20.0m - 0.4ppm, 25.0m - 0.4ppm, all other PID results 0 - 0.2ppm.





GROUNDTECH
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Borehole Log

Borehole No.

BH12

Sheet 3 of 4

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530021.45 - 185617.40

Hole Type
CP

Location: LONDON

Level: 38.26

Scale
1:50

Client: WATERMAN

Dates: 09/02/2021 - 11/02/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		20.00 20.00 - 20.50	ES B						
		21.00 21.00 - 21.45	D	N=35 (6,6/7,9,9,10)					21
		21.50 - 22.00	B						22
		22.50 - 22.95	U						
		22.95 - 23.00 23.00 - 23.50	D B						23
		24.00 24.00 - 24.45	D	N=39 (7,7/9,10,10,10)					24
		24.50 - 25.00	B						
		25.00 25.50 - 25.95	ES U						25
		25.95 26.00 - 26.50	D B						26
		27.00 27.00 27.50 - 28.00	D B	N=40 (8,8/8,10,10,12)					27
		28.50 - 28.95	U						28
		28.95 29.00 - 29.50	D B						29
		30.00	D						30

Continued on next sheet

Remarks

1. Hand excavated pit to 1.20m bgl. 2. No groundwater encountered. 3. Installation to 8.00m bgl, 5.00 plain pipe and 3.00m slotted pipe. 4. PID results: 20.0m - 0.4ppm, 25.0m - 0.4ppm, all other PID results 0 - 0.2ppm.





GROUNDTECH
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Borehole Log

Borehole No.

BH12

Sheet 4 of 4

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530021.45 - 185617.40

Hole Type
CP

Location: LONDON

Level: 38.26

Scale
1:50

Client: WATERMAN

Dates: 09/02/2021 - 11/02/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		30.00		N=43 (8,9/9,10,12,12)					
		30.50 - 31.00	B						
		31.00	ES						31
		31.50 - 31.95	U						
		31.95	D						32
		32.00 - 32.50	B						
		33.00	D						33
		33.00			N=47 (8,8/10,11,13,13)				
		33.50 - 34.00	B						34
		34.50 - 34.95	U						
		34.95	D						35
		35.50 - 36.00	B						
		36.00	D						36
		36.00	ES						
		36.00			N=51 (10,10/11,12,14,14)				37
		36.50 - 37.00	B						
		37.50 - 37.95	U						
	37.90	D						38	
	38.00 - 38.50	B							
	39.00	D						39	
	39.00			N=50 (11,13/50 for 225mm)					
	39.50 - 40.00	B						40	
					40.00	-1.74		End of borehole at 40.00 m	

Remarks

1. Hand excavated pit to 1.20m bgl. 2. No groundwater encountered. 3. Installation to 8.00m bgl, 5.00 plain pipe and 3.00m slotted pipe. 4. PID results: 20.0m - 0.4ppm, 25.0m - 0.4ppm, all other PID results 0 - 0.2ppm.





GROUNDTECH
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Borehole Log

Borehole No.

BH13

Sheet 1 of 4

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530047.07 - 185565.48

Hole Type
CP

Location: LONDON

Level: 38.75

Scale
1:50

Client: WATERMAN

Dates: 02/02/2021 - 03/02/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
Well		0.20			0.20	38.55	Legend	MADE GROUND: Tarmac over concrete.
		0.40			0.40	38.35		MADE GROUND: Pale brown sandy subrounded medium to coarse gravel of mixed lithologies including quartzite.
		0.50	ES	N=3 (1,0/1,0,1,1)	2.15	36.60	Legend	MADE GROUND: Soft brown gravelly clay. Gravel is subangular fine to coarse of mixed lithologies including brick, concrete, chert, quartzite and ash.
		0.50 - 1.00	B					
		1.00	D					
		1.00	ES	N=5 (1,1/1,2,1,1)	2.15	36.60	Legend	Soft to firm brown CLAY with occasional calcite crystals.
		1.20	D					
		1.20	D					
		1.50	ES	N=11 (1,2/2,2,3,4)	2.15	36.60	Legend	Soft to firm brown CLAY with occasional calcite crystals.
		1.50 - 2.00	B					
		2.00	D					
		2.00	ES	N=16 (2,2/3,4,4,5)	2.15	36.60	Legend	Soft to firm brown CLAY with occasional calcite crystals.
		2.00	D					
		2.00	D					
		2.50 - 3.00	B	N=19 (2,3/4,5,5,5)	2.15	36.60	Legend	Soft to firm brown CLAY with occasional calcite crystals.
		3.00	ES					
		3.00 - 3.45	U					
		3.45	D	N=19 (2,3/4,5,5,5)	2.15	36.60	Legend	Soft to firm brown CLAY with occasional calcite crystals.
		3.50 - 4.00	B					
		4.00	D					
	4.00	ES	N=19 (2,3/4,5,5,5)	2.15	36.60	Legend	Soft to firm brown CLAY with occasional calcite crystals.	
	4.00	D						
	4.00	D						
	4.50 - 5.00	B	N=19 (2,3/4,5,5,5)	2.15	36.60	Legend	Soft to firm brown CLAY with occasional calcite crystals.	
	5.00	ES						
	5.00 - 5.45	U						
	5.45	D	N=19 (2,3/4,5,5,5)	2.15	36.60	Legend	Soft to firm brown CLAY with occasional calcite crystals.	
	5.50 - 6.00	B						
	6.00	D						
	6.00	D	N=19 (2,3/4,5,5,5)	2.15	36.60	Legend	Soft to firm brown CLAY with occasional calcite crystals.	
	6.00	D						
	6.00	D						
	6.50 - 7.00	B	N=19 (2,3/4,5,5,5)	2.15	36.60	Legend	Soft to firm brown CLAY with occasional calcite crystals.	
	7.00 - 7.45	U						
	7.45	D						
	7.45	D	N=19 (2,3/4,5,5,5)	2.15	36.60	Legend	Soft to firm brown CLAY with occasional calcite crystals.	
	7.50 - 8.00	B						
	8.00	D						
	8.00	D	N=19 (2,3/4,5,5,5)	2.15	36.60	Legend	Soft to firm brown CLAY with occasional calcite crystals.	
	8.50 - 9.00	B						
	9.00 - 9.45	U						
	9.45	D	N=19 (2,3/4,5,5,5)	2.15	36.60	Legend	Soft to firm brown CLAY with occasional calcite crystals.	
	9.45	D						
	9.45	D						
	9.50 - 10.00	B	N=19 (2,3/4,5,5,5)	2.15	36.60	Legend	Soft to firm brown CLAY with occasional calcite crystals.	
	10.00	D						
	10.00	D						

Firm from 4.00m bgl.

Firm to stiff from 6.00m bgl.

Stiff grey CLAY.

Continued on next sheet

Remarks

1. Hand excavated pit to 1.20m bgl. 2. No groundwater encountered. 3. Backfilled with arisings and bentonite. 4. All PID results 0 - 0.2ppm.





GROUNDTECH
CONSULTING

Borehole Log

Borehole No.

BH13

Sheet 2 of 4

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530047.07 - 185565.48

Hole Type
CP

Location: LONDON

Level: 38.75

Scale
1:50

Client: WATERMAN

Dates: 02/02/2021 - 03/02/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		10.00 10.00	ES	N=25 (4,4/5,6,7,7)					
		10.50 - 11.00	B						
		11.00 - 11.45	U					11	
		11.45 11.50 - 12.00	D B					12	
		12.00 12.00	D	N=27 (4,4/5,7,7,8)				12	
		12.50 - 13.00	B						
		13.00 - 13.45	U					13	
		13.45 13.50 - 14.00	D B					14	
		14.00 14.00	D	N=29 (4,4/6,7,8,8)				14	
		14.50 - 15.00	B						
		15.00 15.00 - 15.45	ES U					15	
		15.45	D						
		16.00 16.00 - 16.50	B	N=31 (4,5/6,8,9,8)				16	
		16.50	D						
		17.50 - 18.00	B					17	
		18.00 - 18.45	U					18	
		18.45	D						
		19.00 - 19.50	B					19	
		19.50 19.50	D	N=32 (4,5/7,8,8,9)				19	
		20.00	ES						

Claystone encountered between 17.60m and 17.90m bgl.

Continued on next sheet

Remarks

1. Hand excavated pit to 1.20m bgl. 2. No groundwater encountered. 3. Backfilled with arisings and bentonite. 4. All PID results 0 - 0.2ppm.





GROUNDTECH
CONSULTING

Borehole Log

Borehole No.

BH13

Sheet 3 of 4

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530047.07 - 185565.48

Hole Type
CP

Location: LONDON

Level: 38.75

Scale
1:50

Client: WATERMAN

Dates: 02/02/2021 - 03/02/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description			
		Depth (m)	Type	Results							
Well		20.50 - 21.00	B				Legend	Stratum Description			
		21.00 - 21.45	U							Claystone encountered between 20.40m and 20.70m bgl.	21
		21.45	D								
		22.00 - 22.50	B								22
		22.50 22.50	D	N=34 (4,5/8,9,8,9)							23
		23.50 - 24.00	B								
		24.00 - 24.45	U								24
		24.45	D								
		25.00 25.00 25.00	D ES	N=36 (5,5/8,9,9,10)							25
		25.00 - 25.50	B								26
		26.50 - 27.00	B								
		27.00 - 27.45	U								27
		27.45	D								
		28.00 - 28.50	B								28
		28.50 28.50	D	N=50 (6,7/8,9,17,16)						Claystone encountered between 28.80m and 29.00m bgl.	29
	29.50 - 30.00	B									
	30.00	ES						30			

Continued on next sheet

Remarks

1. Hand excavated pit to 1.20m bgl. 2. No groundwater encountered. 3. Backfilled with arisings and bentonite. 4. All PID results 0 - 0.2ppm.





GROUNDTECH
CONSULTING

Borehole Log

Borehole No.

BH13

Sheet 4 of 4

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530047.07 - 185565.48

Hole Type
CP

Location: LONDON

Level: 38.75

Scale
1:50

Client: WATERMAN

Dates: 02/02/2021 - 03/02/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		30.00 - 30.45	U						
		30.45	D						
		31.00 - 31.50	B						
		31.50 31.50	D						N=40 (6,8/9,10,10,11)
		32.50 - 33.00	B						
		33.00 - 33.45	U						
		33.45	D						
		34.00 - 34.50	B						
		34.50 34.50	D						N=47 (8,9/10,10,12,15)
		35.00	ES						
		35.50 - 36.00	B						
		36.00 - 36.45	U						
		36.35	D						
		37.00 - 37.50	B						
		37.50 37.50	D						N=50 (9,11/50 for 280mm)
		38.50 - 39.00	B						
		39.00	D						
	40.00	ES	40.00	-1.25	End of borehole at 40.00 m				

Remarks

1. Hand excavated pit to 1.20m bgl. 2. No groundwater encountered. 3. Backfilled with arisings and bentonite. 4. All PID results 0 - 0.2ppm.





GROUNDTECH
CONSULTING

Borehole Log

Borehole No.

BH14

Sheet 1 of 4

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530092.02 - 185532.88

Hole Type
CP

Location: LONDON

Level: 38.65

Scale
1:50

Client: WATERMAN

Dates: 27/01/2021 - 29/01/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.25			0.25	38.40		MADE GROUND: Tarmac over concrete.
		0.50	D		0.45	38.20		MADE GROUND: Soft brown slightly sandy very gravelly clay. Gravel is subangular to subrounded fine to coarse of mixed lithologies including quartzite and chert.
		0.50	ES		0.65	38.00		
		0.50 - 1.00	B		0.80	37.85		MADE GROUND: Red brown sandy cobbly subangular medium to coarse gravel of brick. Cobbles are subangular to subrounded of brick.
		1.00	D					
		1.20		N=50 (9,12/50 for 285mm)				MADE GROUND: Pale brown slightly clayey very gravelly medium to coarse sand. Gravel is subangular fine to coarse of mixed lithologies including chert, quartzite, brick and concrete.
		1.50	ES					
		1.50 - 2.00	B					MADE GROUND: Pale brown fine to medium sand and subrounded fine to coarse gravel of chert, quartzite and chert.
		2.00	D		2.30	36.35		
		2.00	ES					Soft to firm brown CLAY.
		2.00	ES	N=10 (6,7/3,2,2,3)				
		2.50 - 3.00	B					
		3.00	D					
		3.00	ES					Firm with occasional calcite crystals from 4.00m bgl.
		3.00	ES	N=10 (1,2/2,3,2,3)				
		3.50 - 4.00	B					
		4.00	ES					
		4.00 - 4.45	U					
		4.45	D					
		4.50 - 5.00	B					
		5.00	D					
		5.00	ES					N=16 (2,3/3,4,4,5)
		5.00	ES					
		5.50 - 6.00	B					
		6.00 - 6.45	U					
		6.45	D					
		6.50 - 7.00	B					
		7.00	D					N=18 (3,3/4,4,5,5)
		7.00	D					
		7.50 - 8.00	B					
		8.00 - 8.45	U					
		8.45	D					
		8.50 - 9.00	B					
		9.00	D					N=25 (3,4/5,6,7,7)
		9.00	D					
		9.50 - 10.00	B		9.60	29.05		Stiff grey CLAY.
		10.00	ES					Continued on next sheet

Remarks

1. Hand dug pit to 1.20m bgl. 2. No groundwater encountered. 3. Installation to 35.00m bgl, 31.00m plain pipe and 4.00m slotted pipe. 4. PID results: 1.0m - 0.3ppm, 1.5m - 0.5ppm, all other PID results 0 - 0.2ppm.





GROUNDTECH
CONSULTING

Borehole Log

Borehole No.

BH14

Sheet 2 of 4

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530092.02 - 185532.88

Hole Type
CP

Location: LONDON

Level: 38.65

Scale
1:50

Client: WATERMAN

Dates: 27/01/2021 - 29/01/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		10.00 - 10.45	U	N=26 (3,4/6,7,6,7)			<i>Claystone encountered between 12.60m and 12.90m bgl.</i>		
		10.45	D						
		10.50 - 11.00	B						
		11.00	D						
		11.00	D						
		11.50 - 12.00	B						
		12.00 - 12.45	U						
		12.45	D						
		12.50 - 13.00	B						
		13.00	D						
		13.00	D						
		13.50 - 14.00	B						
		14.00 - 14.45	U						
		14.35	D						
		14.50 - 15.00	B						
		15.00	D						
		15.00	ES						
		15.00	ES						
		16.00 - 16.50	B	N=29 (4,4/6,7,8,8)					
		16.50 - 16.95	U						
		16.95	D						
		17.50 - 18.00	B						
		18.00	D						
		18.00	D						
		19.00 - 19.50	B						
		19.50 - 19.95	U						
		19.95	D						
		19.95	D		N=31 (4,5/6,8,8,9)				
		19.95	D						

Continued on next sheet

Remarks

1. Hand dug pit to 1.20m bgl. 2. No groundwater encountered. 3. Installation to 35.00m bgl, 31.00m plain pipe and 4.00m slotted pipe. 4. PID results: 1.0m - 0.3ppm, 1.5m - 0.5ppm, all other PID results 0 - 0.2ppm.





GROUNDTECH
CONSULTING

Borehole Log

Borehole No.

BH14

Sheet 3 of 4

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530092.02 - 185532.88

Hole Type
CP

Location: LONDON

Level: 38.65

Scale
1:50

Client: WATERMAN

Dates: 27/01/2021 - 29/01/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		20.00	ES						
		20.50 - 21.00	B						
		21.00 21.00	D	N=33 (4,5/7,8,8,10)					21
		22.00 - 22.50	B						22
		22.50 - 22.95 22.50 - 22.95	U U						
		22.95	D						23
		23.50 - 24.00	B						
		24.00 24.00	D	N=34 (4,5/7,9,9,9)					24
		25.00 25.00 - 25.50	ES B						25
		25.85	D						26
		26.50 - 27.00	B						
		27.00 27.00	D	N=37 (5,6/8,8,10,11)					27
		28.00 - 28.50	B						28
		28.50 - 28.95	U						
		28.95 29.00 - 39.00	D D						29
		29.50 - 30.00	B						
		30.00	D						30

Continued on next sheet

Remarks

1. Hand dug pit to 1.20m bgl. 2. No groundwater encountered. 3. Installation to 35.00m bgl, 31.00m plain pipe and 4.00m slotted pipe. 4. PID results: 1.0m - 0.3ppm, 1.5m - 0.5ppm, all other PID results 0 - 0.2ppm.





GROUNDTECH
CONSULTING

Borehole Log

Borehole No.

BH14

Sheet 4 of 4

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530092.02 - 185532.88

Hole Type
CP

Location: LONDON

Level: 38.65

Scale
1:50

Client: WATERMAN

Dates: 27/01/2021 - 29/01/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		30.00 30.00	ES	N=39 (7,7/8,10,10,11)				
		31.00 - 31.50	B					31
		31.50 - 31.95	U					
		31.85	D					32
		32.50 - 33.00	B					
		33.00 33.00	D	N=47 (8,8/10,11,13,13)				33
		34.00 - 34.50	B					34
		34.50 - 34.95	U					
		34.95 35.00	D ES					35
		35.50 - 36.00	B					
		36.00 36.00	D	N=50 (9,10/11,13,13,13)				36
		37.00 - 37.50	B					37
		37.50 - 37.95	U					
		37.85	D					38
		38.50 - 39.00	B					
		39.00		N=50 (10,13/50 for 220mm)				39
		39.50 - 40.00	B					
		40.00	ES		40.00	-1.35		40

End of borehole at 40.00 m

Remarks

1. Hand dug pit to 1.20m bgl. 2. No groundwater encountered. 3. Installation to 35.00m bgl, 31.00m plain pipe and 4.00m slotted pipe. 4. PID results: 1.0m - 0.3ppm, 1.5m - 0.5ppm, all other PID results 0 - 0.2ppm.





GROUNDTECH
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Borehole Log

Borehole No.

BH15

Sheet 1 of 3

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530153.07 - 185504.08

Hole Type
CP

Location: LONDON

Level: 37.80

Scale
1:50

Client: WATERMAN

Dates: 28/01/2021 - 28/01/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.20			0.20	37.60		MADE GROUND: Grass over dark brown gravelly sandy clay topsoil. Gravel is angular to subrounded fine to coarse of mixed lithologies including brick, concrete and chert.	1 2 3 4 5 6 7 8 9 10
		0.50	ES						
		1.00	D	N=11 (1,1/2,3,3,3)	1.00	36.80		Firm brown CLAY.	
		1.00	ES						
		1.20	B						
		2.00	D	N=15 (2,3/3,4,4,4)				<u>Firm to stiff from 1.90m bgl.</u>	
		2.00	ES						
		2.00	B						
		2.50 - 3.00	B						
		3.00	D	N=18 (3,3/4,4,4,6)					
		3.00	ES						
		3.00 - 3.45	U						
		3.50 - 4.00	B						
		4.00	D	N=23 (4,4/5,5,6,7)					
		4.00	B						
		4.50 - 5.00	B						
5.00	D	N=24 (4,4/5,5,6,8)							
5.00	ES								
5.00 - 5.45	U								
5.50 - 6.00	B								
6.00	D								
6.00	B								
6.50 - 7.00	B								
7.00	D								
7.00 - 7.45	U								
7.50 - 8.00	B								
8.00	D								
8.00	B								
8.50 - 9.00	B								
9.00	D								
9.00 - 9.45	U								
9.50 - 10.00	B								
10.00	D								

Continued on next sheet

Remarks

1. Hand excavated pit to 1.20m bgl. 2. Groundwater encountered at 3.50m bgl rising to 3.00m after 20 minutes. 3. Backfilled with arisings and bentonite. 4. All PID results 0 - 0.2ppm.





GROUNDTECH
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Borehole Log

Borehole No.

BH15

Sheet 2 of 3

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530153.07 - 185504.08

Hole Type
CP

Location: LONDON

Level: 37.80

Scale
1:50

Client: WATERMAN

Dates: 28/01/2021 - 28/01/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
		Depth (m)	Type	Results						
		10.00 10.00	ES	N=26 (4,5/5,6,7,8)	10.50	27.30				
		10.50 - 11.00	B							
		11.00 11.00 - 11.45	D U							11
		11.50 - 12.00	B							
		12.00 12.00	D	N=31 (5,6/6,7,8,10)						12
		12.50 - 13.00	B							
		13.00 13.00 - 13.45	D U							13
		13.50 - 14.00	B							
		14.00 14.00	D	N=37 (5,6/7,8,10,12)						14
		14.50 - 15.00	B							
		15.00 15.00 15.00 - 15.45	D ES U							15
		15.50 - 16.00	B							
		16.00	D							16
		16.50		N=39 (6,7/7,9,10,13)						
		17.00 - 17.50	B							
		17.50	D							
		18.00 - 18.45	U							18
		18.50 - 19.00	B							
		19.00	D							19
		19.50		N=47 (7,8/10,10,13,14)						
	20.00	D								

Continued on next sheet

Remarks

1. Hand excavated pit to 1.20m bgl. 2. Groundwater encountered at 3.50m bgl rising to 3.00m after 20 minutes. 3. Backfilled with arisings and bentonite. 4. All PID results 0 - 0.2ppm.





GROUNDTECH
CONSULTING

Borehole Log

Borehole No.

BH15

Sheet 3 of 3

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530153.07 - 185504.08

Hole Type
CP

Location: LONDON

Level: 37.80

Scale
1:50

Client: WATERMAN

Dates: 28/01/2021 - 28/01/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		20.00	ES					
		20.00 - 20.50	B					
		21.00	D					21
		21.00 - 21.45	U					
		21.50 - 22.00	B					
		22.00	D					22
		23.00		N=50 (8,10/50 for 240mm)				23
		23.50 - 24.00	B					
		24.00	D					24
		24.50		N=50 (9,10/50 for 235mm)				
	24.50 - 25.00	B						
	25.00	D		25.00	12.80			25
	25.00	ES					End of borehole at 25.00 m	
								26
								27
								28
								29
								30

Remarks

1. Hand excavated pit to 1.20m bgl. 2. Groundwater encountered at 3.50m bgl rising to 3.00m after 20 minutes. 3. Backfilled with arisings and bentonite. 4. All PID results 0 - 0.2ppm.





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Borehole Log

Borehole No.

BH16

Sheet 1 of 4

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530001.19 - 185600.86

Hole Type
CP

Location: LONDON

Level: 38.24

Scale
1:50

Client: WATERMAN

Dates: 05/02/2021 - 09/02/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
		Depth (m)	Type	Results						
		0.15			0.15	38.09		MADE GROUND: Tarmac over grey concrete.		
		0.40			0.40	37.84		MADE GROUND: Grey pink slightly clayey sandy subangular medium gravel of mixed lithologies including quartzite and granite.		
		0.50	B	N=4 (1,1/0,1,1,2)				MADE GROUND: Soft brown slightly sandy very gravelly clay. Gravel is angular to subrounded fine to coarse of mixed lithologies including chert, quartzite, brick, concrete and rare ash. Occasional subangular cobbles of brick.	1	
		0.50	ES							
		1.00	ES							
		1.20	B							
		1.20								
		1.70	ES							
		2.00	B	N=6 (2,1/1,1,2,2)	2.00	36.24		MADE GROUND: Soft to firm slightly gravelly clay. Gravel is subangular fine to coarse of mixed lithologies including brick, chert and quartzite.	2	
		2.00	ES							
		2.60	ES	N=6 (2,1/1,1,2,2)	2.60	35.64		Soft to firm brown mottled grey CLAY.	3	
		2.65	D							
		3.00	D							
		3.00								
		3.50	B	N=15 (3,4/3,4,4,4)				Firm from 4.50m bgl.	4	
		3.50	ES							
		4.00	ES	N=15 (3,4/3,4,4,4)					5	
		4.00	U							
		4.45	D	N=15 (3,4/3,4,4,4)					6	
		4.50	B							
		5.00	D	N=15 (3,4/3,4,4,4)					7	
		5.00								
		5.50	B	N=18 (3,4/5,4,4,5)					8	
		6.00	ES							
		6.00	U	N=18 (3,4/5,4,4,5)					9	
		6.45	D							
		6.50	B	N=18 (3,4/5,4,4,5)					10	
		7.00	D							
		7.00		N=18 (3,4/5,4,4,5)					10	
		7.50	B							
		8.00	U	N=21 (4,4/5,6,5,5)					10	
		8.45	D							
		8.80	B	N=21 (4,4/5,6,5,5)	8.50	29.74		Firm to stiff grey CLAY with occasional bands of claystone.	9	
		8.80	D							
		9.00	D	N=21 (4,4/5,6,5,5)					10	
		9.00								
		9.50	B	N=21 (4,4/5,6,5,5)					10	
		9.50								

Continued on next sheet

Remarks

1. Hand excavated it to 1.20m bgl. 2. No groundwater encountered. 3. Installation to 35.00m bgl, 31.00m plain pipe and 4.00m slotted pipe. 4. All PID results 0 - 0.2ppm.





GROUNDTECH
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Borehole Log

Borehole No.

BH16

Sheet 2 of 4

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530001.19 - 185600.86

Hole Type
CP

Location: LONDON

Level: 38.24

Scale
1:50

Client: WATERMAN

Dates: 05/02/2021 - 09/02/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
1		10.45	D	N=28 (5,5/6,7,7,8)				
		10.50	B					
		11.00	D					
		11.00	ES					
		11.00						
		11.50	B					
		12.00	U					
		12.45	D					
		12.50	B					
		13.00	D					
		13.00						
		13.50	B					
		14.00	U					
		14.45	D					
		14.50	B					
		15.00	D					
		15.00						
		15.50	B					
		15.50	ES					
		16.50	U					
	16.95	D						
	17.00	B						
	18.00	D						
	18.00							
	18.50	B						
	19.50	U						
	19.95	D						

Continued on next sheet

Remarks

1. Hand excavated it to 1.20m bgl. 2. No groundwater encountered. 3. Installation to 35.00m bgl, 31.00m plain pipe and 4.00m slotted pipe. 4. All PID results 0 - 0.2ppm.





GROUNDTECH
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Borehole Log

Borehole No.

BH16

Sheet 3 of 4

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530001.19 - 185600.86

Hole Type
CP

Location: LONDON

Level: 38.24

Scale
1:50

Client: WATERMAN

Dates: 05/02/2021 - 09/02/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		20.00	B						
		21.00	D	N=39 (7,7/8,9,11,11)					21
		21.00							
		21.50	B						22
		22.50	U						
		22.95	D						23
		23.00	B						
		23.00	ES						
		24.00	D	N=37 (6,8/8,8,10,11)					24
		24.00							
		24.50	B						25
		25.50	U						
		25.95	D						26
		26.00	B						
		27.00	D						27
		27.00		N=38 (6,7/8,10,10,10)					
		27.50	B						28
		28.50	U						
		28.95	D						29
		29.00	B						
		29.00	ES						
		30.00	D						30

Continued on next sheet

Remarks

1. Hand excavated it to 1.20m bgl. 2. No groundwater encountered. 3. Installation to 35.00m bgl, 31.00m plain pipe and 4.00m slotted pipe. 4. All PID results 0 - 0.2ppm.





GROUNDTECH
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Borehole Log

Borehole No.

BH16

Sheet 4 of 4

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530001.19 - 185600.86

Hole Type
CP

Location: LONDON

Level: 38.24

Scale
1:50

Client: WATERMAN

Dates: 05/02/2021 - 09/02/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		30.00		N=39 (7,7/7,9,11,12)				
		30.50	B					
		31.50	U					
		31.95	D					
		32.00	B					
		32.50	ES					
		33.00	D					
		33.00		N=44 (8,8/9,11,11,13)				
		33.50	B					
		34.50	U					
		34.85	D					
		35.00	B					
		36.00	D		N=48 (9,9/10,12,13,13)			
		36.50	B					
		37.50	U					
		37.85	D					
	38.00	B						
	39.00	D						
	39.00		N=51 (11,12/51 for 225mm)					
	39.50	B						
				40.00	-1.76		End of borehole at 40.00 m	

Remarks

1. Hand excavated it to 1.20m bgl. 2. No groundwater encountered. 3. Installation to 35.00m bgl, 31.00m plain pipe and 4.00m slotted pipe. 4. All PID results 0 - 0.2ppm.





GROUNDTECH
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Borehole Log

Borehole No.

BH17

Sheet 1 of 2

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 529969.61 - 185562.44

Hole Type
CP

Location: LONDON

Level: 41.95

Scale
1:50

Client: WATERMAN

Dates: 21/01/2021 - 22/01/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
		Depth (m)	Type	Results						
		0.35			0.35	41.60		MADE GROUND: Tarmac over grey concrete.		
		0.50	D		0.50	41.25		MADE GROUND: Black grey sandy angular to subrounded medium to coarse gravel of mixed lithologies including tarmac, ash, chert and concrete.		
		0.70	ES		1.00			MADE GROUND: Very soft brown slightly gravelly clay. Gravel is subangular fine to coarse of mixed lithologies including quartzite, chert and brick.	1	
		1.20	D		1.20			Soft brown CLAY.		
		1.50	ES	N=7 (1,1/2,2,2,1)	1.50 - 2.00	1.50	40.45			
		2.00	B		2.00 - 2.45					2
		2.50	ES		2.50 - 3.00					
		3.00	D		3.00					
		3.00	B		3.00 - 13.00					3
		3.50	ES	N=16 (2,3/3,4,4,5)	3.50 - 4.00				Firm from 3.00m bgl.	
		4.00	D		4.00 - 4.45					4
		4.50	B		4.50 - 5.00					
		5.00	D		5.00					5
		5.00	ES	N=22 (5,5/6,5,5,6)	5.50 - 6.00					
		6.00	B		6.00 - 6.45					6
		6.40	D		6.50 - 7.00					
		7.00	B		7.00					7
		7.00	D	N=50 (10,11/50 for 75mm)	7.50 - 8.00					
		8.00	B		8.00 - 8.45					8
		8.50	D		8.50 - 9.00					
9.00	B		9.00					9		
9.00	D	N=23 (4,5/5,6,6,6)	9.50 - 10.00							
10.00	B		10.00					10		

Continued on next sheet

Remarks

1. Hand dug pit to 1.20m bgl. 2. groundwater encountered at 1.30m bgl. 3. No installation. 4. Backfilled with arisings and bentonite. 5. All PID results 0 - 0.2ppm.





GROUNDTECH
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Borehole Log

Borehole No.

BH17

Sheet 2 of 2

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 529969.61 - 185562.44

Hole Type
CP

Location: LONDON

Level: 41.95

Scale
1:50

Client: WATERMAN

Dates: 21/01/2021 - 22/01/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
Well		10.00 - 10.45	U	N=27 (5,5/6,6,7,8)	10.50	31.45	Legend	Stratum Description
		10.50	D					
		11.00	D					
		11.00	D					
		11.50 - 12.00	B					
		12.00 - 12.45	U					
		12.50	D					
		13.00	D					
		13.50 - 14.00	B					
		14.00 - 14.45	U					
		14.50	D	N=35 (5,6/7,8,9,11)				
		15.00	D					
		15.00	ES					
		15.00	ES					
		15.50 - 16.00	B					
		16.50 - 16.95	U					
		17.00	D					
		17.00 - 17.50	B					
		18.00	D					
		18.00	D					
	18.50 - 19.00	B	N=41 (6,7/8,9,11,13)					
	19.00	D						
	19.50 - 19.95	U						
	19.90	D						
	19.90	ES						
	20.00	ES						

Remarks
1. Hand dug pit to 1.20m bgl. 2. groundwater encountered at 1.30m bgl. 3. No installation. 4. Backfilled with arisings and bentonite. 5. All PID results 0 - 0.2ppm.



End of borehole at 20.00 m



GROUNDTECH
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Borehole Log

Borehole No.

BH18

Sheet 1 of 3

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530010.40 - 185536.25

Hole Type
CP

Location: LONDON

Level: 40.84

Scale
1:50

Client: WATERMAN

Dates: 21/01/2021 - 21/01/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
					0.40	40.44		MADE GROUND: Tarmac over concrete.
		0.50 0.50	D ES					MADE GROUND: Soft brown slightly cobbly gravelly clay. Gravel is subangular to subrounded fine to coarse of mixed lithologies including brick, chert, ash, concrete and quartzite. Cobbles are subangular to subrounded of brick.
		1.00 1.00	D ES		0.90	39.94		Soft brown slightly sandy gravelly clay. Gravel is angular to subrounded fine to medium of mixed lithologies including brick and chert.
		1.00 - 1.50	ES					
		1.20	D					
		1.20	D	N=9 (1,2/2,2,3,2)				
		1.50	D					
		2.00	B		2.00	38.84		CLAYSTONE.
		2.00	D					
		2.00	ES		2.45	38.39		Firm brown CLAY.
		2.00	ES	N=50 (20,5/50 for 30mm)				
		2.90	D					
		3.00	ES					<i>Firm to stiff from 3.00m bgl.</i>
		3.00 - 3.45	U					
		3.50	B					
		4.00	D					<i>Occasional calcite crystals from 4.00m bgl.</i>
		4.00	ES	N=15 (2,2/3,3,4,5)				
		4.00	ES					
		4.50	B					
		5.00	ES					
	5.00 - 5.45	U						
	5.50	B						
	5.90	D						
	6.00	D						
	6.00	D	N=16 (2,3/3,4,4,5)					
	6.50	B						
	6.90	D						
	7.00 - 7.45	U						
	7.50	B						
	8.00	D						
	8.00	D	N=22 (4,5/5,5,6,6)					
	8.50	B						
	9.00 - 9.45	U						
	9.50	B		9.50	31.34		Stiff grey CLAY.	
	9.50	D						
	10.00	ES						

Continued on next sheet

Remarks

1. Hand dug pit to 1.20m bgl. 2. Groundwater encountered at 1.90m bgl. 3. Chiselling between 2.00m and 2.50m bgl (60 mins). 4. Installation to 8.00m bgl, 5.00m plain pipe and 3.00m slotted pipe. 5. PID results: 0.5m - 0.8ppm, 1.0m - 1.2ppm, 1.5m - 11.2ppm, all other PID results 0 - 0.2ppm.





GROUNDTECH
CONSULTING

Borehole Log

Borehole No.

BH18

Sheet 2 of 3

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530010.40 - 185536.25

Hole Type
CP

Location: LONDON

Level: 40.84

Scale
1:50

Client: WATERMAN

Dates: 21/01/2021 - 21/01/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		10.50	B	N=28 (5,5/6,7,7,8)				
		10.50	D					
		10.50						
		11.00 - 11.45	U					
		11.50	D	N=28 (5,6/6,6,7,9)				
		12.00	D					
		12.00						
		12.50	B					
		13.00 - 13.45	U	N=30 (5,6/6,7,8,9)				
		13.50	D					
		14.00	D					
		14.00						
		14.50	B	N=31 (5,6/7,7,8,9)				
		15.00	ES					
		15.00 - 15.45	U					
		15.50	D					
		16.50	D	N=36 (6,6/8,9,9,10)				
		16.50						
	17.00	B						
	18.00 - 18.45	U						
	18.50	D						
	19.00	B						
	19.50	D						
	19.50							
	19.90	ES						
	20.00	B						

Continued on next sheet

Remarks

1. Hand dug pit to 1.20m bgl. 2. Groundwater encountered at 1.90m bgl. 3. Chiselling between 2.00m and 2.50m bgl (60 mins). 4. Installation to 8.00m bgl, 5.00m plain pipe and 3.00m slotted pipe. 5. PID results: 0.5m - 0.8ppm, 1.0m - 1.2ppm, 1.5m - 11.2ppm, all other PID results 0 - 0.2ppm.





GROUNDTECH
CONSULTING

Borehole Log

Borehole No.

BH18

Sheet 3 of 3

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530010.40 - 185536.25

Hole Type
CP

Location: LONDON

Level: 40.84

Scale
1:50

Client: WATERMAN

Dates: 21/01/2021 - 21/01/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		21.00 - 21.45	U	N=36 (5,6/7,9,9,11)	25.00	15.84			21
		21.50	D						22
		22.00	B						23
		22.50 22.50	D						24
		24.00 - 24.45	U						25
		24.90	D						26
									27
									28
									29
									30

End of borehole at 25.00 m

Remarks

1. Hand dug pit to 1.20m bgl. 2. Groundwater encountered at 1.90m bgl. 3. Chiselling between 2.00m and 2.50m bgl (60 mins). 4. Installation to 8.00m bgl, 5.00m plain pipe and 3.00m slotted pipe. 5. PID results: 0.5m - 0.8ppm, 1.0m - 1.2ppm, 1.5m - 11.2ppm, all other PID results 0 - 0.2ppm.





GROUNDTECH
CONSULTING

Borehole Log

Borehole No.

BH19

Sheet 1 of 4

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530044.11 - 185509.66

Hole Type
CP

Location: LONDON

Level: 41.00

Scale
1:50

Client: WATERMAN

Dates: 05/02/2021 - 09/02/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.25	40.75		MADE GROUND: Tarmac over concrete.	
		0.50	D		0.45	40.55		MADE GROUND: Pale brown sandy subangular medium to coarse gravel of mixed lithologies including quartzite.	
		0.50 - 1.00	B					Soft brown CLAY.	
		1.00	D						1
		1.00	ES						
		1.20	D						
		1.20		N=6 (1,1/2,1,1,2)					
		2.00	D		1.80	39.20		Soft to firm mottled grey CLAY.	
		2.00	ES					Slight hydrocarbon odour between 2.00m and 3.20m bgl.	2
		2.00		N=8 (1,2/2,2,1,3)					
		2.50 - 3.00	B						
		3.00	ES						3
		3.00 - 3.45	U					Firm from 3.00m bgl.	
		3.45	D						
		3.50 - 4.00	B						
		4.00	D						4
		4.00	ES						
		4.00		N=14 (2,2/3,4,3,4)					
		4.50 - 5.00	B						
		5.00	ES						5
		5.00 - 5.45	U						
		5.45	D						
		5.50 - 6.00	B						
		6.00	D						6
		6.00		N=17 (2,2/4,4,4,5)					
		6.50 - 7.00	B						
		7.00 - 7.45	U						7
		7.45	D						
		7.50 - 8.00	B						
		8.00	D						8
		8.00		N=20 (2,3/4,5,6,5)					
		8.50 - 9.00	B						
		9.00 - 9.45	U						9
		9.45	D		9.30	31.70		Stiff grey CLAY.	
		9.50 - 10.00	B						
		10.00	D						10

Continued on next sheet

Remarks

1. Hand excavated pit to 1.20m bgl. 2. No groundwater encountered. 3. Installation to 35.00m bgl, 31.00m plain pipe and 4.00m slotted pipe. 4. PID results: 0.5m - 0.5ppm, 2.0m - 1.8ppm, 3.0m - 1.2ppm, all other PID results 0 - 0.2ppm.





GROUNDTECH
CONSULTING

Borehole Log

Borehole No.

BH19

Sheet 2 of 4

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530044.11 - 185509.66

Hole Type
CP

Location: LONDON

Level: 41.00

Scale
1:50

Client: WATERMAN

Dates: 05/02/2021 - 09/02/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		10.00 10.00	ES	N=24 (2,3/5,6,6,7)					
		10.50 - 11.00	B						
		11.00 - 11.45	U						11
		11.45 11.50 - 12.00	D B						
		12.00 12.00	D	N=26 (3,4/6,7,6,7)					12
		12.50 - 13.00	B						
		13.00 - 13.45	U						13
		13.45 13.50 - 14.00	D B						
		14.00 14.00	D	N=28 (3,4/6,7,7,8)					14
		14.50 - 15.00	B						
		15.00 15.00 - 15.45	ES U						15
		15.45	D						
		16.00 - 16.50	B						16
		16.50 16.50	D	N=30 (4,4/7,7,8,8)					
		17.50 - 18.00	B						
		18.00 - 18.45	U						17
		18.45	D						
		19.00 - 19.50	B						18
		19.50 19.50	D	N=32 (4,4/7,8,8,9)					
		20.00	ES						

Continued on next sheet

Remarks

1. Hand excavated pit to 1.20m bgl. 2. No groundwater encountered. 3. Installation to 35.00m bgl, 31.00m plain pipe and 4.00m slotted pipe. 4. PID results: 0.5m - 0.5ppm, 2.0m - 1.8ppm, 3.0m - 1.2ppm, all other PID results 0 - 0.2ppm.





GROUNDTECH
CONSULTING

Borehole Log

Borehole No.

BH19

Sheet 3 of 4

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530044.11 - 185509.66

Hole Type
CP

Location: LONDON

Level: 41.00

Scale
1:50

Client: WATERMAN

Dates: 05/02/2021 - 09/02/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		20.50 - 21.00	B						
		21.00 - 21.45	U						21
		21.45	D						
		22.00	B						22
		22.50 22.50	D	N=32 (4,5/7,8,8,9)					23
		23.50 - 24.00	B						
		24.00 - 24.45	U						24
		24.45	D						
		25.00 25.00 - 25.50	ES B						25
		25.50 25.50	D	N=36 (5,5/8,9,9,10)					26
		26.50 - 27.00	B						
		27.00 - 27.45	U						27
		27.45	D						
		28.00 - 28.80	B						28
		28.50 28.50	D	N=37 (5,6/8,8,10,11)					29
		29.50 - 30.00	B						
		30.00	ES						30

Continued on next sheet

Remarks

1. Hand excavated pit to 1.20m bgl. 2. No groundwater encountered. 3. Installation to 35.00m bgl, 31.00m plain pipe and 4.00m slotted pipe. 4. PID results: 0.5m - 0.5ppm, 2.0m - 1.8ppm, 3.0m - 1.2ppm, all other PID results 0 - 0.2ppm.





GROUNDTECH
CONSULTING

Borehole Log

Borehole No.

BH19

Sheet 4 of 4

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530044.11 - 185509.66

Hole Type
CP

Location: LONDON

Level: 41.00

Scale
1:50

Client: WATERMAN

Dates: 05/02/2021 - 09/02/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		30.00 - 30.45	U						
		30.45	D						
		31.00 - 31.50	B						31
		31.50	D	N=39 (6,7/8,9,11,11)					
		31.50							32
		32.50 - 33.00	B						
		33.00 - 33.45	U						33
		33.45	D						
		34.00 - 34.50	B						34
		34.50	D	N=46 (7,9/10,10,13,13)					
		34.50							35
		35.00	ES						
		35.50 - 36.00	B						
		36.00 - 36.45	U						36
		36.45	D						
		37.00 - 37.50	B						37
		37.50	D	N=50 (9,10/50 for 295mm)					
		37.50							38
		38.50 - 39.00	B						
		39.00	D	N=50 (9,12/50 for 245mm)					
	39.00							39	
	40.00	ES		40.00	1.00			40	

End of borehole at 40.00 m

Remarks

1. Hand excavated pit to 1.20m bgl. 2. No groundwater encountered. 3. Installation to 35.00m bgl, 31.00m plain pipe and 4.00m slotted pipe. 4. PID results: 0.5m - 0.5ppm, 2.0m - 1.8ppm, 3.0m - 1.2ppm, all other PID results 0 - 0.2ppm.





GROUNDTECH
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Borehole Log

Borehole No.

BH20

Sheet 1 of 2

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530080.81 - 185488.97

Hole Type
CP

Location: LONDON

Level: 40.92

Scale
1:50

Client: WATERMAN

Dates: 20/01/2021 - 20/01/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.40			0.40	40.52		MADE GROUND: Grey slightly sandy slightly clayey subangular medium to coarse gravel of mixed lithologies including quartzite.	
		0.50	D					MADE GROUND: Soft brown slightly cobbly gravelly clay. Gravel is subangular fine to coarse of mixed lithologies including brick, chert, quartzite and concrete. Cobbles are subangular to subrounded of brick.	1
		1.00	ES						
		1.20	D						
		1.20		N=9 (1,1/2,2,2,3)					
		1.50	ES						
		1.50 - 2.00	B		1.80	39.12			
		2.00	ES						
		2.00 - 2.45	U						
		2.50 - 3.00	B						
		3.00	D						
		3.00	ES						
		3.00		N=13 (2,2/3,3,4,3)					
		3.50 - 4.00	B						
		4.00	ES						
		4.00 - 4.45	U						
		4.50 - 5.00	B						
		5.00	D						
		5.00	ES						
		5.00		N=17 (2,3/4,5,5)					
	5.50 - 6.00	B					<u>Firm to stiff from 5.30m bgl.</u>		
	6.00 - 6.45	U							
	6.50 - 7.00	B							
	7.00	D							
	7.00		N=23 (4,5/5,5,6,7)						
	7.50 - 8.00	B							
	8.00 - 8.45	U							
	8.50 - 9.00	B							
	9.00		N=24 (4,5/5,6,6,7)						
	9.50 - 10.00	B					<u>Dark brown from 9.00m bgl.</u>		
	10.00	ES							

Continued on next sheet

Remarks

1. Hand dug pit to 1.20m bgl. 2. No groundwater encountered. 3. Backfilled with arisings and bentonite. 4. All PID results 0 - 0.2ppm.





GROUNDTECH
CONSULTING

Borehole Log

Borehole No.

BH20

Sheet 2 of 2

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530080.81 - 185488.97

Hole Type
CP

Location: LONDON

Level: 40.92

Scale
1:50

Client: WATERMAN

Dates: 20/01/2021 - 20/01/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		10.00 - 10.45	U	N=27 (5,5/6,6,7,8)	10.50	30.42		Stiff grey CLAY.
		10.50 - 11.00	B					
		11.00 11.00	D					
		11.50 - 12.00	B					
		12.00 - 12.45	U					
		12.50 - 13.00	B					
		13.00 13.00	D					
		13.50 - 14.00	B					
		14.00 - 14.45	U					
		14.50 - 15.00	B					
		15.00 15.00 15.00	D ES					
		16.00 - 16.50	B					
		16.50 - 16.95	U					
		17.00 - 17.50	B					
		18.00 18.00	D					
		19.00 - 19.20	B					
	19.50 - 19.95	U						
	20.00	ES		20.00	20.92	End of borehole at 20.00 m		

Remarks

1. Hand dug pit to 1.20m bgl. 2. No groundwater encountered. 3. Backfilled with arisings and bentonite. 4. All PID results 0 - 0.2ppm.





GROUNDTECH
CONSULTING

Borehole Log

Borehole No.

BH21

Sheet 1 of 4

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530125.52 - 185460.98

Hole Type
CP

Location: LONDON

Level: 40.27

Scale
1:50

Client: WATERMAN

Dates: 27/01/2021 - 29/01/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.20			0.20	40.07		MADE GROUND: Grass over dark brown gravelly sandy clay topsoil. Gravel is angular to subrounded fine to coarse of mixed lithologies including brick, concrete and chert.	
		0.50	ES					MADE GROUND: Red brown slightly clayey gravelly medium to coarse sand. Gravel is angular to subrounded fine to coarse of mixed lithologies including brick, chert, quartzite and rare concrete. Occasional subrounded cobbles of brick.	1
		1.00	D					Soft orange brown CLAY.	
		1.00	ES						
		1.20	D						
		1.20		N=7 (1,1/1,2,2,2)	1.40	38.87			
		1.50	D						
		1.50 - 2.00	B						
		2.00	ES						2
		2.00 - 2.45	U					Soft to firm from 2.20m bgl.	
		2.50 - 3.00	B						
		3.00	D						
		3.00	ES						3
		3.00		N=14 (2,3/3,3,4,4)					
		3.50 - 4.00	B						
		4.00	ES						
		4.00 - 4.45	U						4
		4.50 - 5.00	B						
		5.00	D						
		5.00	ES						5
		5.00		N=19 (3,3/4,5,5,5)					
		5.50 - 6.00	B						
		6.00 - 6.45	U						6
		6.50	D						
		6.50 - 7.00	B						
		7.00	D						7
		7.00		N=19 (3,4/4,5,5,5)					
		8.00 - 8.45	U						8
		8.50	D						
		8.50 - 9.00	B						
		9.00	D						9
		9.00		N=24 (4,5/5,5,6,8)					
		9.50 - 10.00	B						
		10.00	ES						10

Continued on next sheet

Remarks

1. Hand excavated pit to 1.20m bgl. 2. No groundwater encountered. 3. Chiselling from 14.90m - 15.20m (40 mins) and 28.20m - 28.40m (30 mins). 4. Installation to 35.00m bgl, 31.00m plain pipe and 4.00m slotted pipe. 5. PID results: 4.0m - 1.6ppm, 5.0m - 0.7ppm, 15.0m - 0.7ppm, all other PID results 0 - 0.2ppm.





GROUNDTECH
CONSULTING

Borehole Log

Borehole No.

BH21

Sheet 2 of 4

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530125.52 - 185460.98

Hole Type
CP

Location: LONDON

Level: 40.27

Scale
1:50

Client: WATERMAN

Dates: 27/01/2021 - 29/01/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		10.00 - 10.45	U	N=25 (5,6/6,6,6,7)	10.50	29.77	Stiff grey CLAY.		
		10.50	D						
		10.50 - 11.00	B						
		11.00	D						
		11.00							
		11.50 - 12.00	B						
		12.00 - 12.45	U						
		12.50	D						
		12.50 - 13.00	B						
		13.00	D						
		13.00							
		13.50 - 14.00	B						
		14.00 - 14.45	U						
		14.50	D						
		14.50 - 15.00	B						
		15.00	D						
		15.00	ES						
		15.00							
		15.50 - 16.00	B						
		16.00 - 16.50	B						
		16.50 - 16.95	U						
		17.00	D						
		17.00 - 17.50	B						
		18.00	D						
		18.00							
		19.00 - 19.50	B						
		19.50 - 19.95	U						
		20.00	D						
				N=27 (5,6/6,6,7,8)					
				N=50 (9,11/50 for 215mm)					
				N=33 (7,7/7,8,8,10)					

Continued on next sheet

Remarks

1. Hand excavated pit to 1.20m bgl. 2. No groundwater encountered. 3. Chiselling from 14.90m - 15.20m (40 mins) and 28.20m - 28.40m (30 mins). 4. Installation to 35.00m bgl, 31.00m plain pipe and 4.00m slotted pipe. 5. PID results: 4.0m - 1.6ppm, 5.0m - 0.7ppm, 15.0m - 0.7ppm, all other PID results 0 - 0.2ppm.





GROUNDTECH
CONSULTING

Borehole Log

Borehole No.

BH21

Sheet 3 of 4

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530125.52 - 185460.98

Hole Type
CP

Location: LONDON

Level: 40.27

Scale
1:50

Client: WATERMAN

Dates: 27/01/2021 - 29/01/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		20.00	ES						
		20.50 - 21.00	B						
		21.00 21.00	D	N=36 (7,8/8,8,10,10)					21
		22.00 - 22.50	B						22
		22.50 - 22.95	U						
		23.00	D						23
		23.50 - 24.00	B						
		24.00 24.00	D	N=43 (8,9/9,9,12,13)					24
		25.00	ES						25
		25.00 - 25.50	B						
		25.50 - 25.95	U						
		26.00	D						26
		26.50 - 27.00	B						
		27.00 27.00	D	N=48 (9,9/9,11,13,15)					27
		28.00 - 28.50	B						28
		28.50 28.50	D	N=50 (9,11/50 for 250mm)					29
		29.50 - 30.00	B						
		30.00	D						30

Continued on next sheet

Remarks

1. Hand excavated pit to 1.20m bgl. 2. No groundwater encountered. 3. Chiselling from 14.90m - 15.20m (40 mins) and 28.20m - 28.40m (30 mins). 4. Installation to 35.00m bgl, 31.00m plain pipe and 4.00m slotted pipe. 5. PID results: 4.0m - 1.6ppm, 5.0m - 0.7ppm, 15.0m - 0.7ppm, all other PID results 0 - 0.2ppm.





GROUNDTECH
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Borehole Log

Borehole No.

BH21

Sheet 4 of 4

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530125.52 - 185460.98

Hole Type
CP

Location: LONDON

Level: 40.27

Scale
1:50

Client: WATERMAN

Dates: 27/01/2021 - 29/01/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		30.00 30.00	ES	N=50 (9,13/50 for 230mm)				
		31.00 - 31.50	B					31
		31.50 31.50	D	N=50 (12,13/50 for 235mm)				32
		32.50 - 33.00	B					
		33.00 33.00	D	N=49 (9,9/11,12,13,13)				33
		34.00 - 34.50	B					34
		34.50 34.50	D	N=50 (9,10/50 for 290mm)				
		35.00	ES					35
		35.50 - 36.00	B					
		36.00 36.00	D	N=50 (10,11/50 for 280mm)				36
		37.00 - 37.50	B					37
		37.50 37.50	D	N=50 (11,13/50 for 250mm)				38
		38.50 - 39.00	B					
		39.00 39.00	D	N=50 (12,13/50 for 210mm)				39
		39.50 - 40.00	B					
		40.00	ES		40.00	0.27		40

End of borehole at 40.00 m

Remarks

1. Hand excavated pit to 1.20m bgl. 2. No groundwater encountered. 3. Chiselling from 14.90m - 15.20m (40 mins) and 28.20m - 28.40m (30 mins). 4. Installation to 35.00m bgl, 31.00m plain pipe and 4.00m slotted pipe. 5. PID results: 4.0m - 1.6ppm, 5.0m - 0.7ppm, 15.0m - 0.7ppm, all other PID results 0 - 0.2ppm.





Borehole Log

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530094.50 - 185670.39

Hole Type
WS

Location: LONDON

Level: 35.92

Scale
1:25

Client: WATERMAN

Dates: 01/02/2021 - 01/02/2021

Logged By
CW

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.00 - 1.20	B		0.10	35.82		MADE GROUND: Tarmac.	
		0.20	ES					MADE GROUND: Brown sandy subangular medium to coarse gravel of limestone.	
		0.50	ES		0.40	35.52		MADE GROUND: Soft brown gravelly reworked clay. Gravel is angular to subangular of mixed lithologies including brick and chert. <i>Cobbles of brick encountered at 0.5m bgl.</i>	
		1.00	D		1.05	34.87		MADE GROUND: Very soft to soft dark grey black ashy slightly gravelly clay. Gravel is angular to subangular fine of brick. Slight hydrocarbon odour.	1
		1.20	ES	N=8 (1,2/1,2,2,3)					
		1.50	ES					<i>Becoming firm from 1.5m bgl.</i>	
		2.00	D		2.20	33.72		Firm to stiff brown CLAY.	2
		2.00	ES	N=14 (2,2/3,3,4,4)					
		2.00	ES						
		2.50	ES						
		3.00	D					<i>Slightly sandy at 3.0m bgl.</i>	3
		3.00	ES	N=15 (2,3/3,3,4,5)					
	3.50	ES							
	4.00	D		4.00	31.92		End of borehole at 4.00 m	4	
	4.00	ES	N=19 (3,3/4,4,5,6)					5	

Remarks

1. Location cleared by specialist utility surveyor prior to breaking ground. 2. Hole broken out to 0.1m bgl. 3. No groundwater encountered. 4. Monitoring installation to 4.0m bgl. 1.0m plain, 3.0m slotted. 5. PID results: 1.5m - 0.3ppm, 2.0m - 3.8ppm, all other PID results 0 - 0.2ppm.





GROUNDTECH
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Borehole Log

Borehole No.

WS02

Sheet 1 of 1

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530144.32 - 185664.63

Hole Type
WS

Location: LONDON

Level: 34.93

Scale
1:25

Client: WATERMAN

Dates: 01/02/2021 - 01/02/2021

Logged By
CW

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.20 - 1.20	B		0.15	34.78		MADE GROUND: Tarmac.	1 2 3 4 5
					0.35	34.58		MADE GROUND: Reinforced concrete.	
		0.50	ES					MADE GROUND: Brown slightly sandy subangular medium to coarse gravel of limestone.	
		1.00	D		0.95	33.98		MADE GROUND: Soft brown gravelly reworked clay. Gravel is angular to subangular of mixed lithologies including brick and chert.	
		1.00	ES						
		1.20		N=7 (1,1/2,2,1,2)	1.20	33.73		Firm brown CLAY.	
								<i>Becoming mottled grey from 1.5m bgl.</i>	
		2.00	D						
		2.00	ES						
		2.00		N=8 (1,1/1,2,3,2)					
	3.00	D							
	3.00	ES							
	3.00		N=12 (1,2/2,3,3,4)						
	4.00	D		4.00	30.93				
	4.00	ES							
	4.00		N=24 (3,4/5,5,6,8)				End of borehole at 4.00 m		

Remarks

1. Location cleared by specialist utility surveyor prior to breaking ground. 2. Hole broken out to 0.35m bgl. 3. Groundwater encountered perched in Made Ground. 4. Relict clay pipe encountered at 0.6m bgl. 5. Monitoring installation to 4.0m bgl. 1.0 plain, 3.0m slotted. 6. All PID results 0 - 0.2ppm.





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Borehole Log

Borehole No.

WS03

Sheet 1 of 1

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530163.95 - 185576.36

Hole Type
WS

Location: LONDON

Level: 34.95

Scale
1:25

Client: WATERMAN

Dates: 01/02/2021 - 01/02/2021

Logged By
CW

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.00 - 1.00	B		0.05	34.90		MADE GROUND: Tarmac.	1
								MADE GROUND: Reinforced concrete.	
		0.30	ES		0.25	34.70		MADE GROUND: Brown sandy subangular medium to coarse gravel of limestone.	
		0.60	ES		0.50	34.45		MADE GROUND: Soft brown gravelly reworked clay. Gravel is angular to subangular of mixed lithologies including brick and chert. Soft to firm brown CLAY.	
		1.00	D		0.70	34.25			
		1.00	ES	N=8 (1,1/2,2,2,2)					
		1.20							
		2.00	D					Becoming stiff and mottled grey from 2.0m bgl.	
		2.00	ES	N=14 (1,2/3,3,4,4)					
		2.00							
	3.00	D					Lenses of sand at 3.0m bgl.	3	
	3.00	ES	N=20 (2,3/4,4,6,6)						
	3.00								
	4.00	D		4.00	30.95		End of borehole at 4.00 m	4	
	4.00	ES	N=21 (3,3/4,5,6,6)						
	4.00								

Remarks

1. Location cleared by specialist utility surveyor prior to breaking ground. 2. Hole broken out to 0.25m bgl. 3. No groundwater encountered. 4. Backfilled with arisings. 5. PID results: 1.0m - 0.6ppm, 4.0m - 0.3ppm, all other PID results 0 - 0.2ppm.





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Borehole Log

Borehole No.

WS04

Sheet 1 of 1

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530140.04 - 185492.55

Hole Type
WS

Location: LONDON

Level: 38.14

Scale
1:25

Client: WATERMAN

Dates: 02/02/2021 - 02/02/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.10	ES		0.15	37.99		MADE GROUND: Grass over dark brown slightly clayey gravelly sand topsoil. Gravel is subangular fine to coarse of mixed lithologies including chert and quartzite. MADE GROUND: Orange medium to coarse sand and subangular to rounded medium to coarse gravel of mixed lithologies including chert and quartzite. MADE GROUND: Soft brown grey slightly sandy gravelly clay. Gravel is subangular to subrounded fine to coarse of mixed lithologies including chert, quartzite, brick and rare ash. Soft to firm pale brown CLAY.
		0.30	ES		0.40	37.74		
		0.50	ES		0.65	37.49		
		0.65 - 1.00	B					
		1.00	ES					
		1.20	D					
		1.20		N=8 (1,2/1,2,2,3)				
		2.00	D					
		2.00	ES					
		2.00		N=13 (2,2/3,3,3,4)				
		3.00	D					
		3.00	ES					
	3.00		N=37 (3,3/4,14,11,8)					
							<i>Firm and mottled grey from 2.30m bgl.</i>	
							<i>Firm to stiff from 3.20m bgl.</i>	
							<i>Band of claystone between 3.35m and 3.45m bgl.</i>	
							<i>End of borehole at 4.00 m</i>	
		4.00	D		4.00	34.14		
		4.00	ES					
		4.00		N=24 (4,3/5,6,6,7)				

Remarks

1. Hand dug pit to 1.20m bgl. 2. No groundwater encountered. 3. Backfilled with arisings. 4. All PID results 0 - 0.2ppm.





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Borehole Log

Borehole No.

WS05

Sheet 1 of 1

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530129.71 - 185528.64

Hole Type
WS

Location: LONDON

Level: 38.00

Scale
1:25

Client: WATERMAN

Dates: 02/02/2021 - 02/02/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.10	ES		0.15	37.85		MADE GROUND: Grass over brown slightly sandy gravelly clay topsoil. Gravel is angular to subangular fine to coarse of mixed lithologies including brick, concrete, chert and quartzite.
		0.50	ES					MADE GROUND: Soft pale brown gravelly clay. Gravel is subangular to subrounded fine to coarse of mixed lithologies including chert, quartzite, brick and rare ash.
		0.75 - 1.50	B		0.75	37.25		Soft to firm pale brown CLAY.
		1.00	ES					
		1.20	D					
		1.20		N=20 (2,3/4,4,5,7)				
		2.00	D					
		2.00	ES					<i>Firm from 1.40m bgl.</i>
		2.00		N=20 (4,4/3,4,6,7)				
		3.00	D					
	3.00	ES					<i>Firm to stiff and mottled grey from 2.40m bgl.</i>	
	3.00		N=22 (3,4/4,5,6,7)					
	4.00	D		4.00	34.00			
	4.00	ES						
	4.00		N=22 (3,4/4,5,6,7)					End of borehole at 4.00 m

Remarks
1. Hand dug pit to 1.20m bgl. 2. No groundwater encountered. 3. Installation to 4.00m bgl, 1.00m plain pipe and 3.00m slotted pipe. 4. All PID results 0 - 0.2ppm.





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Borehole Log

Borehole No.

WS06

Sheet 1 of 1

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530098.96 - 185557.06

Hole Type
WS

Location: LONDON

Level: 37.63

Scale
1:25

Client: WATERMAN

Dates: 02/02/2021 - 02/02/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.15	ES		0.20	37.43		MADE GROUND: Grass over dark brown slightly sandy gravelly clay topsoil. Gravel is subangular to subrounded fine to coarse of mixed lithologies including brick, chert, quartzite, ash and wood.
		0.50 0.50 - 1.00	ES B					MADE GROUND: Pale brown medium sand and subangular to rounded fine to coarse gravel of mixed lithologies including chert, quartzite, brick and concrete. Occasional subangular to subrounded cobbles of brick and concrete.
		1.00	ES					
		1.20 1.20	D	N=48 (5,6/6,10,12,20)				<i>Locally clayey from 1.30m bgl.</i>
		1.50	ES					
		1.75			1.75	35.88		
	2.00 2.00 2.00	D ES	N=12 (2,2/2,3,3,4)	2.00	35.63		End of borehole at 2.00 m	

Remarks

1. Hand dug pit to 1.20m bgl. 2. No groundwater encountered. 3. Hole terminated at 2.00m bgl due to barrel becoming stuck and unable to be removed after the 2.00m to 3.00m drilling run. 4. All PID results 0 - 0.2ppm.





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Borehole Log

Borehole No.

WS07A

Sheet 1 of 1

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530079.00 - 185594.48

Hole Type
WS

Location: LONDON

Level: 35.95

Scale
1:25

Client: WATERMAN

Dates: 01/02/2021 - 01/02/2021

Logged By
CW

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.00 - 1.20	B	N=12 (1,2/3,3,3,3)	0.10	35.85		MADE GROUND: Brown slightly sandy gravelly clay topsoil. Gravel is subangular fine to coarse of mixed lithologies including brick, wood, chert and plastic.	
		0.05	ES		0.25	35.70			
		0.60	ES						MADE GROUND: Concrete. MADE GROUND: Soft brown gravelly clay. Gravel is angular to subangular of mixed lithologies including brick and chert.
		0.90							
		1.00	D		N=18 (2,3/4,3,5,6)	0.90	35.05		Firm brown mottled grey CLAY.
		1.00	ES						
		1.20							
		2.00	D		N=20 (2,4/4,4,6,6)	2.00			Becoming stiff from 2.0m bgl.
		2.00	ES						
		2.00							
	3.00	D	N=22 (3,4/5,5,6,6)	3.00			End of borehole at 4.00 m		
	3.00	ES							
	3.00								
	4.00	D		4.00	31.95				
	4.00	ES							
	4.00								

Remarks

1. Location cleared by specialist utility surveyor prior to breaking ground. 2. Hole relocated 2.0m east due to pipe encountered at 0.9m bgl. 3. No groundwater encountered. 4. All PID results 0 - 0.2ppm.





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Borehole Log

Borehole No.

WS08

Sheet 1 of 1

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530078.15 - 185596.62

Hole Type
WS

Location: LONDON

Level: 35.84

Scale
1:25

Client: WATERMAN

Dates: 02/02/2021 - 02/02/2021

Logged By
CW

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.00 - 1.20 0.05	B ES		0.10	35.74		MADE GROUND: Brown slightly sandy gravelly clay topsoil. Gravel is subangular fine to coarse of mixed lithologies including brick, wood and chert.
		0.50	ES					MADE GROUND: Soft brown gravelly reworked clay. Gravel is angular to subangular of mixed lithologies including brick and chert. <i>Cobbles of brick and concrete present between 0.1m and 1.2m bgl.</i>
		1.00 1.00	D ES					
		1.20		N=9 (1,1/1,2,3,3)				
		1.50	ES					<i>Clinker and ash between 1.4m and 1.6m bgl.</i>
		1.70			1.70	34.14		
		2.00 2.00 2.00	D ES					Firm to stiff brown mottled grey CLAY.
		3.00 3.00 3.00	D ES					
	4.00 4.00 4.00	D ES			4.00	31.84		End of borehole at 4.00 m

Remarks

1. Location cleared by specialist utility surveyor prior to breaking ground. 2. Hole relocated 3.0m west due to services encountered in previous trial pits. 3. No groundwater encountered. 4. Monitoring installation to 4.0m bgl. 1.0m plain pipe 3.0m slotted. 5. All PID results 0 - 0.2ppm.





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Borehole Log

Borehole No.

WS09

Sheet 1 of 1

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530049.54 - 485520.41

Hole Type
WS

Location: LONDON

Level: 40.72

Scale
1:25

Client: WATERMAN

Dates: 02/02/2021 - 02/02/2021

Logged By
BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.15	ES		0.20	40.52		MADE GROUND: Brown slightly sandy gravelly clay topsoil. Gravel is subangular fine to coarse of mixed lithologies including brick and quartzite.	
		0.50 0.50 - 1.00	ES B		0.70	40.02		MADE GROUND: Very soft pale brown gravelly clay. Gravel is subangular fine to coarse of mixed lithologies including brick, wood, chert, quartzite and rare concrete. Occasional subrounded cobbles of brick.	
		1.00	ES					Soft to firm friable pale brown CLAY.	1
		1.20 1.20	D	N=21 (2,3/3,4,6,8)				Firm and mottled grey from 1.10m bgl	
		1.80	ES					Firm to stiff firm 1.60m bgl.	
		2.00 2.00	D	N=27 (3,4/5,6,7,9)					2
		2.70	ES						
		3.00 3.00	D	N=31 (4,4/6,7,8,10)				Stiff from 3.00m bgl.	3
		3.70	ES						
		4.00 4.00	D	N=27 (4,6/6,6,7,8)	4.00	36.72		End of borehole at 4.00 m	4
								5	

Remarks

1. Hand dug pit to 1.20m bgl. 2. No groundwater encountered. 3. Backfilled with arisings. 4. All PID results 0 - 0.2ppm.





GROUNDTECH
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Borehole Log

Borehole No.

WS10

Sheet 1 of 1

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530025.02 - 185550.18

Hole Type
WS

Location: LONDON

Level: 41.21

Scale
1:25

Client: WATERMAN

Dates: 02/02/2021 - 02/02/2021

Logged By
CW

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.00 - 1.20 0.05	B ES		0.10	41.11		MADE GROUND: Brown slightly sandy gravelly clay topsoil. Gravel is subangular to fine to coarse of mixed lithologies including brick, wood and chert.	
		0.50	ES					MADE GROUND: Soft brown gravelly clay. Gravel is angular to subangular of mixed lithologies including brick and chert.	
		0.80			0.80	40.41		Firm to stiff brown mottled grey CLAY.	
		1.00 1.00 1.20	D ES	N=11 (1,1/2,3,3,3)					1
		2.00 2.00 2.00	D ES	N=14 (2,2/3,3,4,4)					2
	3.00 3.00 3.00	D ES	N=21 (2,3/4,5,6,6)					3	
	4.00 4.00 4.00	D ES	N=25 (3,4/5,6,6,8)	4.00	37.21			4	
								5	

Remarks

1. Location cleared by specialist utility surveyor prior to breaking ground. 2. Hole broken out to 0.25m bgl. 3. No groundwater encountered. 4. Monitoring installation to 4.0m bgl. 1.0m plain pipe 3.0m slotted. 5. PID results: 3.0m - 0.6ppm, all other PID results 0 - 0.2ppm.





Borehole Log

Project Name: HOLLOWAY PRISON

Project No. GRO-20291

Co-ords: 530118.90 - 185669.20

Hole Type WS

Location: LONDON

Level: 35.18

Scale 1:25

Client: WATERMAN

Dates: 02/02/2021 - 02/02/2021

Logged By BM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.30	ES		0.30	34.88		MADE GROUND: Grey reinforced concrete.
		0.50 0.50 - 1.00	ES B		0.40	34.78		MADE GROUND: Pale brown orange medium to coarse sand and subrounded fine to coarse gravel of mixed lithologies including chert and quartzite.
		1.00	ES		0.85	34.33		MADE GROUND: Very soft brown slightly sandy gravelly clay. Gravel is subangular to subrounded fine to coarse of mixed lithologies including chert, quartzite, concrete, brick and rare ash. Soft brown mottled grey CLAY.
		1.20 1.20	D	N=7 (1,1/1,1,2,3)				
		2.00 2.00 2.00	D ES	N=13 (1,2/3,3,3,4)				Soft to firm from 1.50m bgl.
		3.00 3.00 3.00	D ES	N=17 (3,3/3,4,5,5)				Firm from 2.70m bgl.
		4.00 4.00 4.00	D ES	N=21 (3,4/4,5,6,6)	4.00	31.18		End of borehole at 4.00 m

Remarks
 1. Hand excavated pit to 1.20m bgl. 2. No groundwater encountered. 3. Installation to 4.00m bgl, 1.00m plain pipe and 3.00m slotted pipe. 4. PID results: 1.0m - 0.3ppm, 2.0m - 4.1ppm, 3.0m - 8.3ppm, all other PID results 0 - 0.2ppm.





GROUNDTECH
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Borehole Log

Borehole No.

WS12

Sheet 1 of 1

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530091.89 - 185664.80

Hole Type
WS

Location: LONDON

Level: 36.04

Scale
1:25

Client: WATERMAN

Dates: 02/02/2021 - 02/02/2021

Logged By
CW

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.00 - 1.20	B		0.15	35.89		MADE GROUND: Tarmac.
		0.20	ES		0.40	35.64		MADE GROUND: Grey subangular medium to coarse gravel of limestone.
		0.50	ES		1.30	34.74		MADE GROUND: Soft brown gravelly clay. Gravel is angular to subangular of mixed lithologies including brick and chert.
		1.00	D		1.55	34.49		MADE GROUND: Very soft to soft dark grey black ashy slightly gravelly clay. Gravel is angular to subangular fine of brick. Slight odour.
		1.00	ES	N=0 (0,0/0,0,0,0)				Firm to stiff brown CLAY.
		1.20						
		1.50	ES					
		2.00	D					
		2.00	ES	N=11 (1,1/2,2,3,4)				
		2.00						Becoming mottled grey and stiff from 2.6m bgl.
	3.00	D						
	3.00	ES	N=14 (2,2/3,3,4,4)					
	3.00							
	4.00	D		4.00	32.04		End of borehole at 4.00 m	
	4.00		N=17 (3,3/4,3,5,5)					


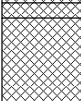




















Remarks

1. Location cleared by specialist utility surveyor prior to breaking ground. 2. Hole broken out to 0.1m bgl. 3. No groundwater encountered. 4. Monitoring installation to 4.0m bgl. 1.0m plain, 3.0m slotted. 5. PID results: 0.2m - 14.9ppm, 0.5m - 0.8ppm, 1.0m - 18.2ppm, 1.5m - 1.6ppm, 3.0m - 29.8ppm, all other PID results 0 - 0.2ppm.



Trial Pit Log

Project Name: HOLLOWAY PRISON	Project No. GRO-20291	Co-ords: 530171.64 - 185610.78 Level: 34.88	Date 26/01/2021
Location: LONDON		Dimensions (m): <input type="text"/>	Scale 1:25
Client: WATERMAN		Depth 3.00	Logged CW

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
				0.06	34.82		MADE GROUND: Tarmac. MADE GROUND: Reinforced concrete.
				0.20 0.25	34.68 34.63		
	0.50	ES		0.60	34.28		
	1.00	ES	HVP=77				
			HVP=82				
	2.00	ES	HVP=85				
				3.00	31.88		
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							

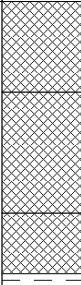
Remarks: 1. Location cleared by specialist utility clearance contractor prior to breaking ground. 2. No groundwater encountered. 3. Soakaway test undertaken at 2.1m bgl. 4. All PID results 0 - 0.2ppm.

Stability:



Trial Pit Log

Project Name: HOLLOWAY PRISON	Project No. GRO-20291	Co-ords: 530094.00 - 185478.11 Level: 41.02	Date 26/01/2021
Location: LONDON	Dimensions (m): Depth 2.60		Scale 1:25
Client: WATERMAN			Logged CW

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
	0.10	ES	HVP=52	0.30	40.72		MADE GROUND: Grass over brown gravelly sandy topsoil. Gravel is angular to subangular fine to coarse of brick, concrete and chert.
	0.50	ES		0.70	40.32		MADE GROUND: Cobblely fine to medium sand and angular to subangular fine to coarse gravel of brick and concrete. Cobbles are brick and concrete.
	0.80	ES		0.90	40.12		MADE GROUND: Soft brown slightly gravelly clay. Gravel is angular to subangular fine to coarse of brick and chert.
	1.00	ES					Soft to firm medium strength brown mottled grey CLAY.
							<i>Firm from 1.1m bgl.</i>
	2.00	ES	HVP=79				<i>High strength from 2.00m bgl.</i>
			HVP=88	2.60	38.42		End of pit at 2.60 m



Remarks: 1. Location cleared by specialist utility clearance contractor prior to breaking ground. 2. No groundwater encountered. 3. Concrete obstruction encountered on northern edge of pit. 4. Pit extended south 5. Soakaway test undertaken at 2.6m bgl. 6. All PID results 0 - 0.2ppm.

Stability:



Trial Pit Log

Project Name: HOLLOWAY PRISON	Project No. GRO-20291	Co-ords: 530055.69 - 185622.59 Level: 35.75	Date 27/01/2021
Location: LONDON	Dimensions (m): Depth 2.30		Scale 1:25
Client: WATERMAN			Logged CW

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
	0.10	ES		0.05	35.70	 MADE GROUND: Tarmac. MADE GROUND: Dark brown black ashy gravelly fine to medium sand. Gravel is subangular fine to coarse of tarmac and clinker. MADE GROUND: Grey subangular medium to coarse gravel of limestone.	
	0.20	ES		0.18	35.57		
	0.70	ES		0.60	35.15		MADE GROUND: Soft brown slightly gravelly clay. Gravel is angular to subangular fine to coarse of brick and chert. Firm high strength brown mottled grey CLAY.
	1.00	ES	HVP=76	0.80	34.95		1
	2.00	ES	HVP=85	2.30	33.45		End of pit at 2.30 m
							3
							4
							5

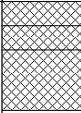
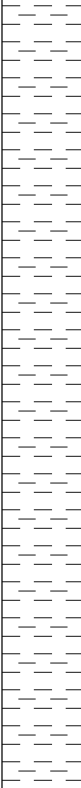
Remarks: 1. Location cleared by specialist utility clearance contractor prior to breaking ground. 2. Groundwater perched in granular Made Ground. 3. Soakaway test not undertaken due to groundwater ingress. 4. All PID results 0 - 0.2ppm.

Stability:



Trial Pit Log

Project Name: HOLLOWAY PRISON	Project No. GRO-20291	Co-ords: 530132.76 - 185599.39 Level: 34.75	Date: 26/01/2021
Location: LONDON		Dimensions (m): <input type="text"/>	Scale: 1:25
Client: WATERMAN		Depth: 3.00	Logged: CW

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
	0.08 0.16			0.08 0.16	34.67 34.59		MADE GROUND: Brown block paving. MADE GROUND: Brown medium to coarse sand and angular to subrounded medium to coarse gravel of mixed lithologies including chert, slate, quartzite and concrete.
	0.50 0.50	B ES		0.36	34.39		MADE GROUND: Reinforced concrete. Firm medium to high strength brown mottled grey CLAY.
	1.00 1.00	D ES	HVP=65				
	1.50	B	HVP=78				
	2.00 2.00	D ES	HVP=79				
	2.50	B					
	3.00 3.00	D ES	HVP=84	3.00	31.75		End of pit at 3.00 m




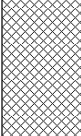

Remarks: 1. Location cleared by specialist utility clearance contractor prior to breaking ground. 2. No groundwater encountered. 3. Hand-held DCP undertaken at 0.55m bgl. 4. Hole terminated at 3.0m bgl. 5. All PID results 0 - 0.2ppm.

Stability:



Trial Pit Log

Project Name: HOLLOWAY PRISON	Project No. GRO-20291	Co-ords: 530077.35 - 185607.53 Level: 35.71	Date 25/02/2021
Location: LONDON		Dimensions (m): <input type="text"/>	Scale 1:25
Client: WATERMAN		Depth 3.00	Logged CW

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
▼	0.07			0.07	35.64		MADE GROUND: Tarmac.
	0.17			0.17	35.54		MADE GROUND: Square brick tiles.
							MADE GROUND: Reinforced concrete.
	0.50	ES		0.37	35.34		MADE GROUND: Brown red cobbly sandy angular to subrounded medium to coarse gravel of brick, concrete and chert.
	1.00	ES	HVP=110	0.90	34.81		Firm to stiff high strength brown mottled grey CLAY.
		HVP=96					
	2.00	ES	HVP=105				
			HVP=100				
	3.00	ES	HVP=98	3.00	32.71		End of pit at 3.00 m

Remarks: 1. Location cleared by specialist utility clearance contractor prior to breaking ground. 2. Groundwater encountered at 0.9m bgl . 3. Hole terminated at 3.0m bgl. 4. All PID results 0 - 0.2ppm.

Stability:



Trial Pit Log

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530052.90 - 185580.55
Level: 38.80

Date
27/02/2021

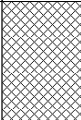
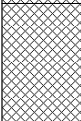

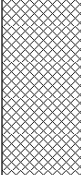
Location: LONDON

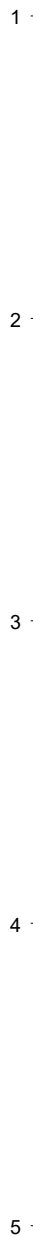
Dimensions (m):
Depth 1.70



Scale
1:25
Logged
CW

Client: WATERMAN

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
	0.20	ES					MADE GROUND: Grass over brown clayey gravelly sandy topsoil. Gravel is angular to subangular fine to coarse of brick, concrete and chert.
	0.50 0.50	B ES		0.40	38.40		MADE GROUND: Soft brown slightly gravelly clay. Gravel is angular to subangular fine to coarse of brick and chert.
				0.80	38.00		MADE GROUND: Brick floor.
				1.10	37.70		MADE GROUND: Concrete.
				1.70	37.10		End of pit at 1.70 m



Remarks: 1. Location cleared by specialist utility clearance contractor prior to breaking ground. 2. No groundwater encountered. 3. Brick obstruction encountered at 0.8m bgl. 4. Two services encountered at 0.7m and 0.8m bgl parallel to pit. 5. Concrete encountered at 1.1m bgl. 6. Broken out to 1.7m bgl. 7. Pit terminated at 1.7m due to undercutting of services and extensive concrete. 8. All PID results 0 - 0.2ppm.

Stability:



Trial Pit Log

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530063.63 - 185555.72
Level: 38.65

Date
26/02/2021

Location: LONDON

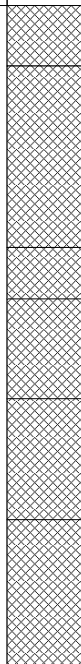
Dimensions (m):

Scale
1:25

Client: WATERMAN

Depth
3.00

Logged
CW

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
				0.20	38.45		MADE GROUND: Tarmac.
	0.30	ES					MADE GROUND: Cobbly brown fine to medium sand and angular to subangular fine to coarse gravel of brick and concrete. Cobbles are brick and concrete.
	0.60	ES					
	0.90	ES		0.80	37.85		MADE GROUND: Soft brown slightly gravelly reworked clay. Gravel is angular to subangular fine to coarse of brick and concrete.
				0.97	37.68		MADE GROUND: Concrete.
	1.50	ES		1.30	37.35		MADE GROUND: Brown compact gravelly coarse sand. Gravel is angular to subrounded chert and concrete.
				1.70	36.95		MADE GROUND: Concrete.
	2.50	ES		2.20	36.45		Soft to firm brown mottled grey CLAY.
				3.00	35.65		End of pit at 3.00 m

Remarks: 1. Location cleared by specialist utility clearance contractor prior to breaking ground. 2. No groundwater encountered. 3. Hole terminated at 3.0m bgl. 4. All PID results 0 - 0.2ppm.

Stability:



Trial Pit Log

Project Name: HOLLOWAY PRISON Project No. GRO-20291 Co-ords: 530147.65 - 185617.69 Date 25/02/2021
 Level: 34.81

Location: LONDON Dimensions (m): Scale 1:25
 Client: WATERMAN Depth 3.00 Logged CW

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
	0.09			0.09	34.72	MADE GROUND: Tarmac. MADE GROUND: Reinforced concrete.	
	0.30			0.30	34.51		
	0.50 0.50	B ES					MADE GROUND: Soft brown gravelly clay. Gravel is angular to subangular fine to medium of brick.
	1.00 1.00	D ES	HVP=85	0.95	33.86	Firm to stiff high strength brown mottled grey CLAY.	1
	1.50	B	HVP=87				
	2.00 2.00	D ES					
	2.50	B					
	3.00 3.00	D ES		3.00	31.81	----- End of pit at 3.00 m	3
							4
							5

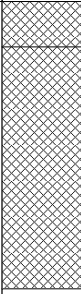
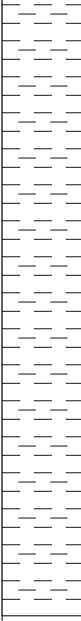
Remarks: 1. Location cleared by specialist utility clearance contractor prior to breaking ground. 2. No groundwater encountered. 3. Hand-held DCP undertaken at 0.5m bgl. 4. Hole terminated at 3.0m bgl. 5. All PID results 0 - 0.2ppm.

Stability:



Trial Pit Log

Project Name: HOLLOWAY PRISON	Project No. GRO-20291	Co-ords: 530022.06 - 185561.06 Level: 41.82	Date 26/02/2021
Location: LONDON		Dimensions (m): Depth 3.00	Scale 1:25
Client: WATERMAN			Logged CW

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	ES		0.15	41.67		MADE GROUND: Grass over brown gravelly sandy topsoil. Gravel is angular to subangular fine to coarse of brick, concrete and chert. MADE GROUND: Soft brown slightly gravelly reworked clay. Gravel is angular to subangular fine to coarse of brick.	
	0.50 0.50	D ES						
	1.00 1.00	B ES	HVP=66	0.95	40.87		Firm medium to high strength brown mottled grey CLAY.	1
	1.50	D	HVP=72					
	2.00 2.00	B ES	HVP=74					
	2.50	D	HVP=69					
	3.00 3.00	B ES	HVP=82	3.00	38.82		End of pit at 3.00 m	3
								4
								5

Remarks: 1. Location cleared by specialist utility clearance contractor prior to breaking ground. 2. No groundwater encountered. 3. Hole terminated at 3.0m bgl. 4. PID results: 0.5m - 1.3ppm, all other PID results 0 - 0.2ppm.

Stability:



Trial Pit Log

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530120.59 - 185446.60
Level: 41.04

Date
27/02/2021


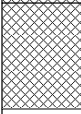

Location: LONDON

Dimensions (m):

Depth
3.00

Scale
1:25
Logged
CW

Client: WATERMAN

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
	0.20	ES		0.25	40.79		MADE GROUND: Grass over brown gravelly sandy topsoil. Gravel is angular to subangular fine to coarse of brick, concrete and chert.
	0.50 0.50	B ES		0.60	40.44		MADE GROUND: Red brown gravelly coarse sand. Gravel is angular to subangular fine to coarse of brick.
	1.00 1.00	D ES	HVP=85				Firm high strength brown mottled grey CLAY.
	1.50	B	HVP=92				
	2.00 2.00	D ES	HVP=95				
	2.50	B	HVP=89				
	3.00 3.00	D ES	HVP=94	3.00	38.04		End of pit at 3.00 m


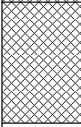
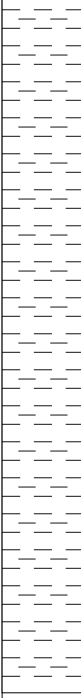
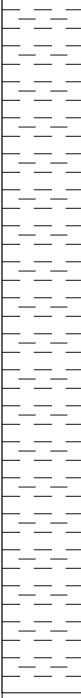
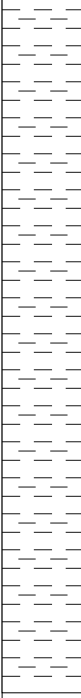
Remarks: 1. Location cleared by specialist utility clearance contractor prior to breaking ground. 2. No groundwater encountered. 3. Hole terminated at 3.0m bgl. 4. All PID results 0 - 0.2ppm.

Stability:



Trial Pit Log

Project Name: HOLLOWAY PRISON	Project No. GRO-20291	Co-ords: 530098.06 - 185642.12 Level: 35.74	Date 27/02/2021
Location: LONDON		Dimensions (m): Depth 3.00 	Scale 1:25
Client: WATERMAN			Logged CW

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
	0.20	ES		0.30	35.44		MADE GROUND: Grass over brown gravelly sandy topsoil. Gravel is angular to subangular fine to coarse of brick, concrete and chert.
	0.50	ES		0.70	35.04		MADE GROUND: Soft brown slightly gravelly clay. Gravel is angular to subangular fine to coarse of brick and chert.
	1.00	ES	HVP=84				Firm high strength brown mottled grey CLAY.
	2.00	ES					
	3.00	ES	HVP=99	3.00	32.74		End of pit at 3.00 m



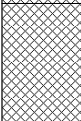
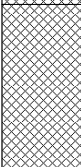
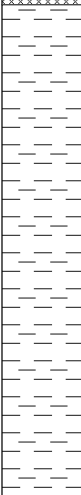
Remarks: 1. Location cleared by specialist utility clearance contractor prior to breaking ground. 2. No groundwater encountered. 3. Hole terminated at 3.0m bgl. 4. PID results: 0.5m - 1.8ppm, all other PID results 0 - 0.2ppm.

Stability:



Trial Pit Log

Project Name: HOLLOWAY PRISON	Project No. GRO-20291	Co-ords: 530120.58 - 185688.65 Level: 34.86	Date 25/02/2021
Location: LONDON		Dimensions (m): <input type="text"/>	Scale 1:25
Client: WATERMAN		Depth 3.00	Logged CW

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
				0.15	34.71		MADE GROUND: Tarmac.
				0.40	34.46		MADE GROUND: Reinforced concrete.
	0.50	ES		0.80	34.06		MADE GROUND: Brown medium to coarse sand and angular to subrounded medium to coarse gravel of mixed lithologies including chert, slate, quartzite and concrete.
	1.00	ES		1.35	33.51		MADE GROUND: Dark brown black ashy slightly gravelly clay. Gravel is angular fine to medium of brick and clinker.
			HVP=58				Firm medium to high strength brown mottled grey CLAY.
	2.00	ES					
			HVP=62				
			HVP=78				
	3.00	ES		3.00	31.86		End of pit at 3.00 m
			HVP=77				

Remarks: 1. Location cleared by specialist utility clearance contractor prior to breaking ground. 2. No groundwater encountered. 3. Hole terminated at 3.0m bgl. 4. PID results: 1.0m - 3.7ppm, all other PID results 0 - 0.2ppm.

Stability:



Trial Pit Log

Project Name: HOLLOWAY PRISON

Project No.
GRO-20291

Co-ords: 530108.49 - 185690.10
Level: 35.24

Date
25/01/2021

Location: LONDON

Dimensions (m):

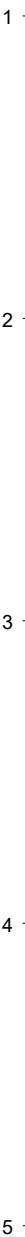
Scale
1:25

Client: WATERMAN

Depth
0.70

Logged
CW

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
				0.08	35.16		MADE GROUND: Tarmac.
							MADE GROUND: Reinforced concrete.
	0.30	ES		0.28	34.96		MADE GROUND: Pale brown medium sand and subangular to rounded medium to coarse gravel of mixed lithologies including chert, quartzite and rare concrete and brick.
				0.45	34.79		
	0.70	ES		0.70	34.54		MADE GROUND: Concrete obstruction.
							----- End of pit at 0.70 m



Remarks: 1. Location cleared by specialist utility clearance contractor prior to breaking ground. 2. No groundwater encountered. 3. Concrete obstruction encountered at 0.45m bgl running along the centre of the pit. 4. Hand excavation undertaken along the side of the concrete obstruction to 0.70m bgl, concrete continued down to 0.70m bgl. 5. Hole terminated at 0.70m bgl. 6. All PID results 0 - 0.2ppm.

Stability:



Trial Pit Log

Project Name: **HOLLOWAY PRISON** Project No. **GRO-20291** Co-ords: **530058.04 - 185674.81** Date **01/02/2021**
 Level: **36.73**

Location: **LONDON** Dimensions (m): Scale **1:25**
 Client: **WATERMAN** Depth **1.00** Logged **BM**

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
	0.20	ES		0.35	36.38		MADE GROUND: Brown slightly sandy gravelly clay topsoil. Gravel is subangular fine to coarse of mixed lithologies including brick, wood, chert and plastic.
	0.50 0.50 0.50 - 1.00 0.75	D ES B ES		1.00 1.00	35.73 35.73		MADE GROUND: Soft pale brown gravelly clay. Gravel is subangular to subrounded fine to coarse of mixed lithologies including chert and brick.
							MADE GROUND: Concrete. End of pit at 1.00 m

Remarks: 1. Hole terminated at 1.00m bgl due to concrete obstruction at the base of the trial pit. 2. Backfilled with arisings. 3. All PID results 0 - 0.2ppm.

Stability: **Stable**



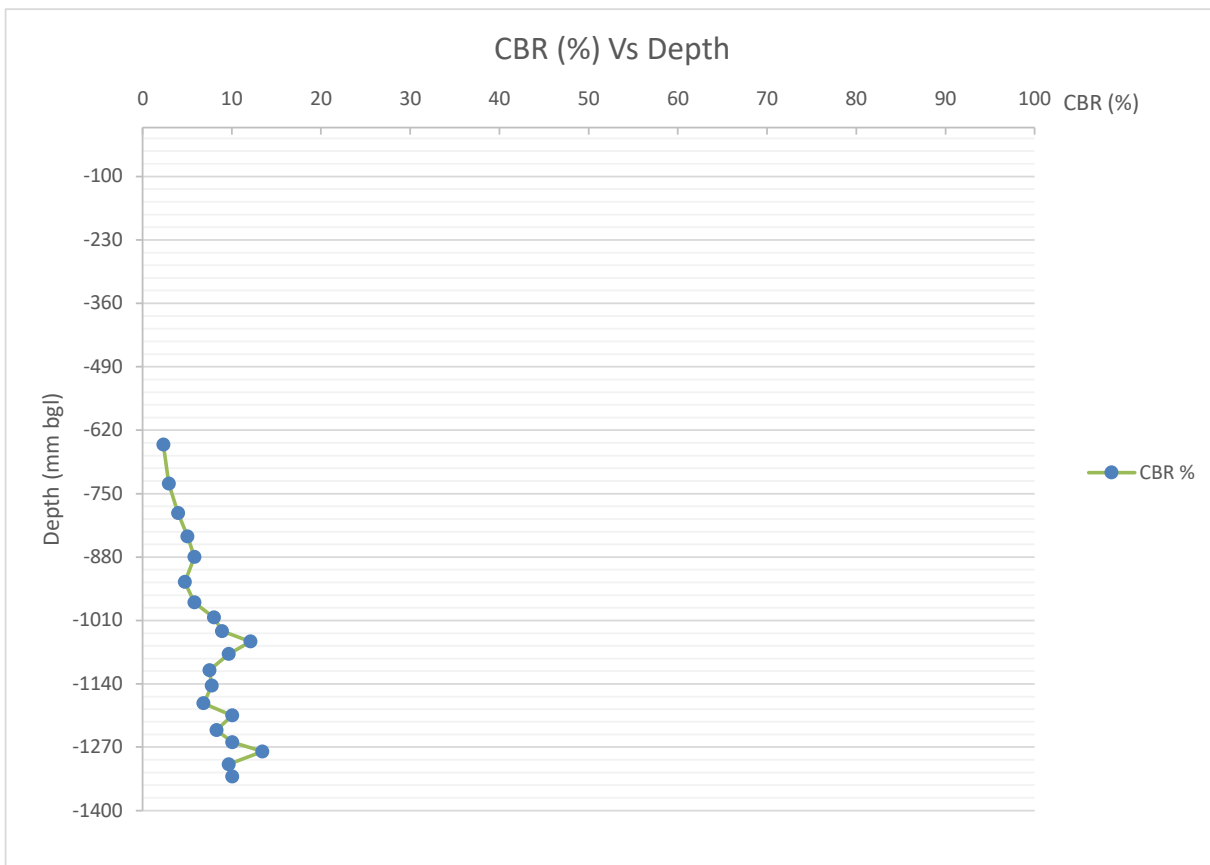
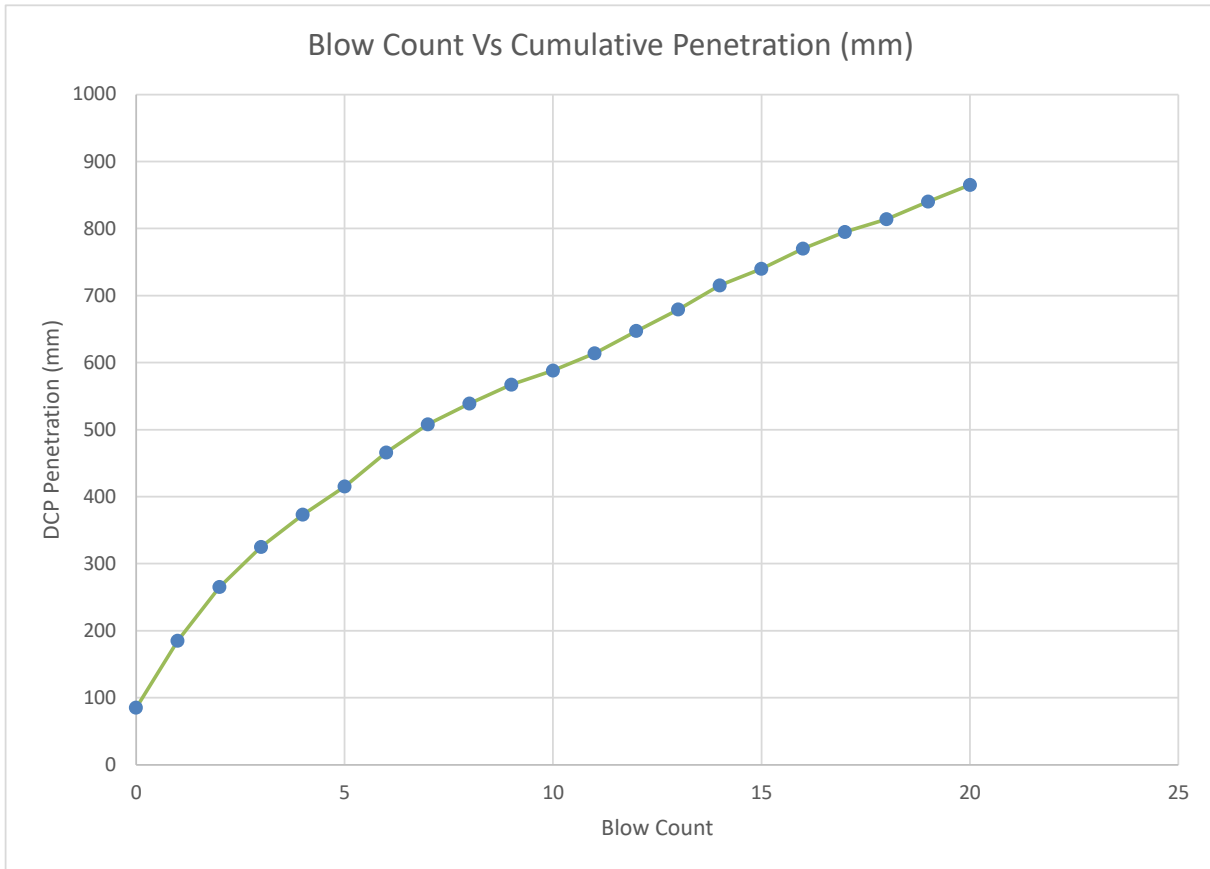


APPENDIX 4 - TRL DCP Test Results

TP01

Test commenced from 0.55m bgl

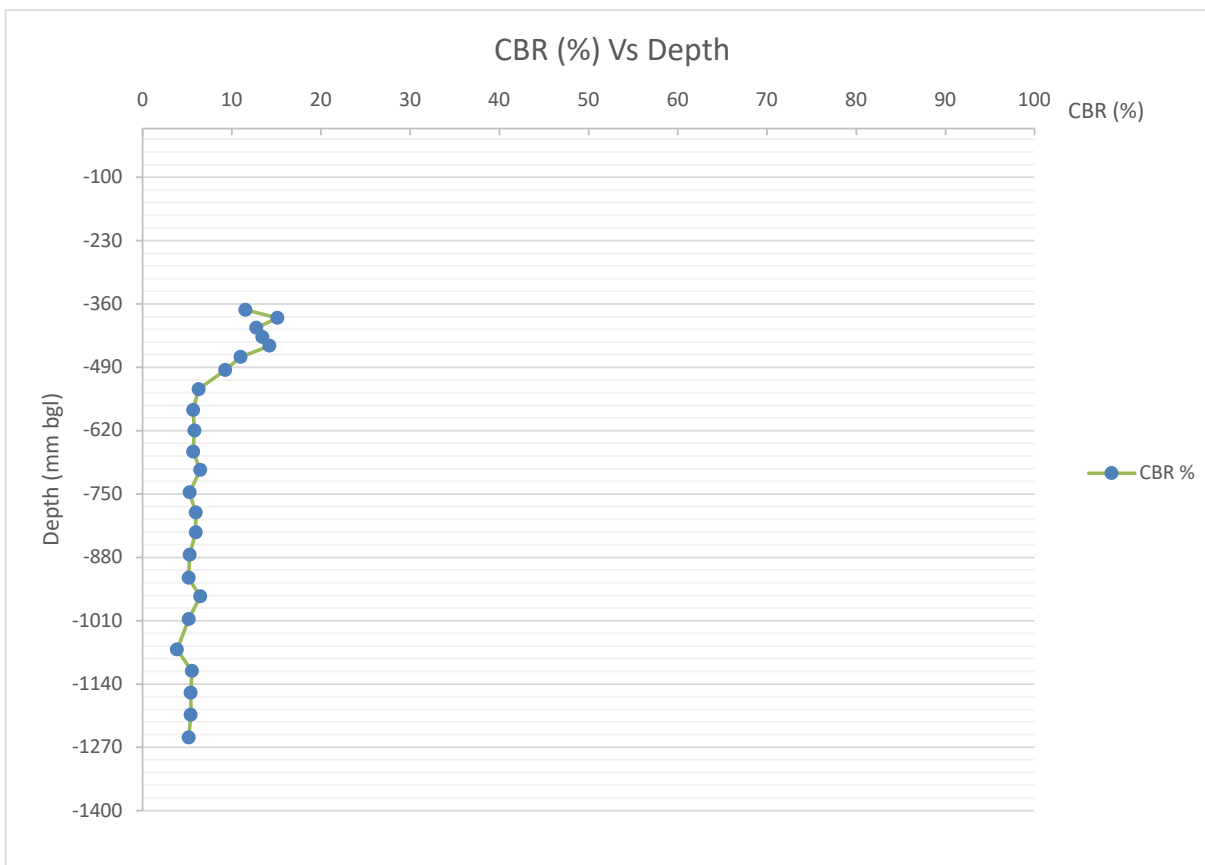
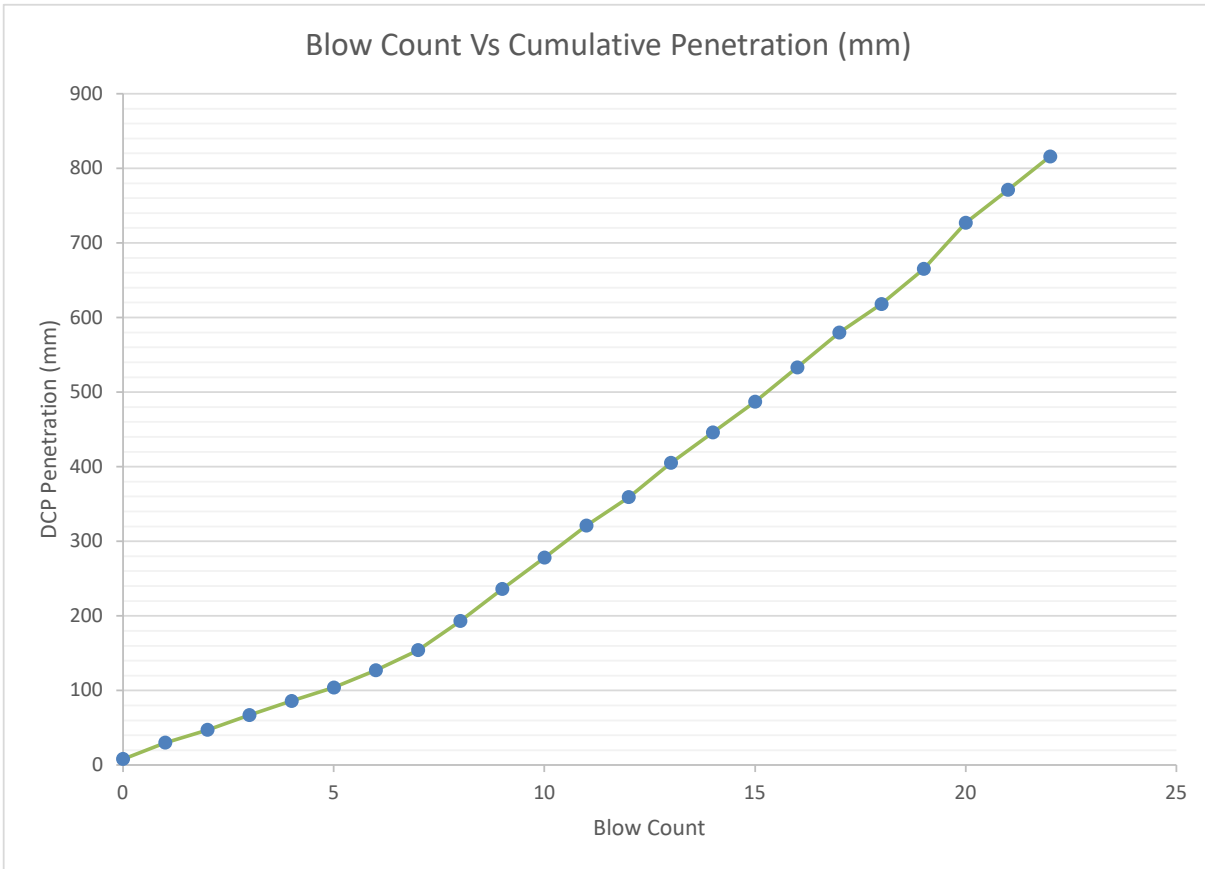
<i>Blow Count</i>	<i>Rod Reading (mm)</i>	<i>Invert Reading (mm bgl)</i>	<i>Penetration index (mm/blow)</i>	<i>CBR %</i>
0	85	-550	0	
1	185	-650	100	2
2	265	-730	80	3
3	325	-790	60	4
4	373	-838	48	5
5	415	-880	42	6
6	466	-931	51	5
7	508	-973	42	6
8	539	-1004	31	8
9	567	-1032	28	9
10	588	-1053	21	12
11	614	-1079	26	10
12	647	-1112	33	7
13	679	-1144	32	8
14	715	-1180	36	7
15	740	-1205	25	10
16	770	-1235	30	8
17	795	-1260	25	10
18	814	-1279	19	13
19	840	-1305	26	10
20	865	-1330	25	10



TP07

Test commenced from 0.35m bgl.

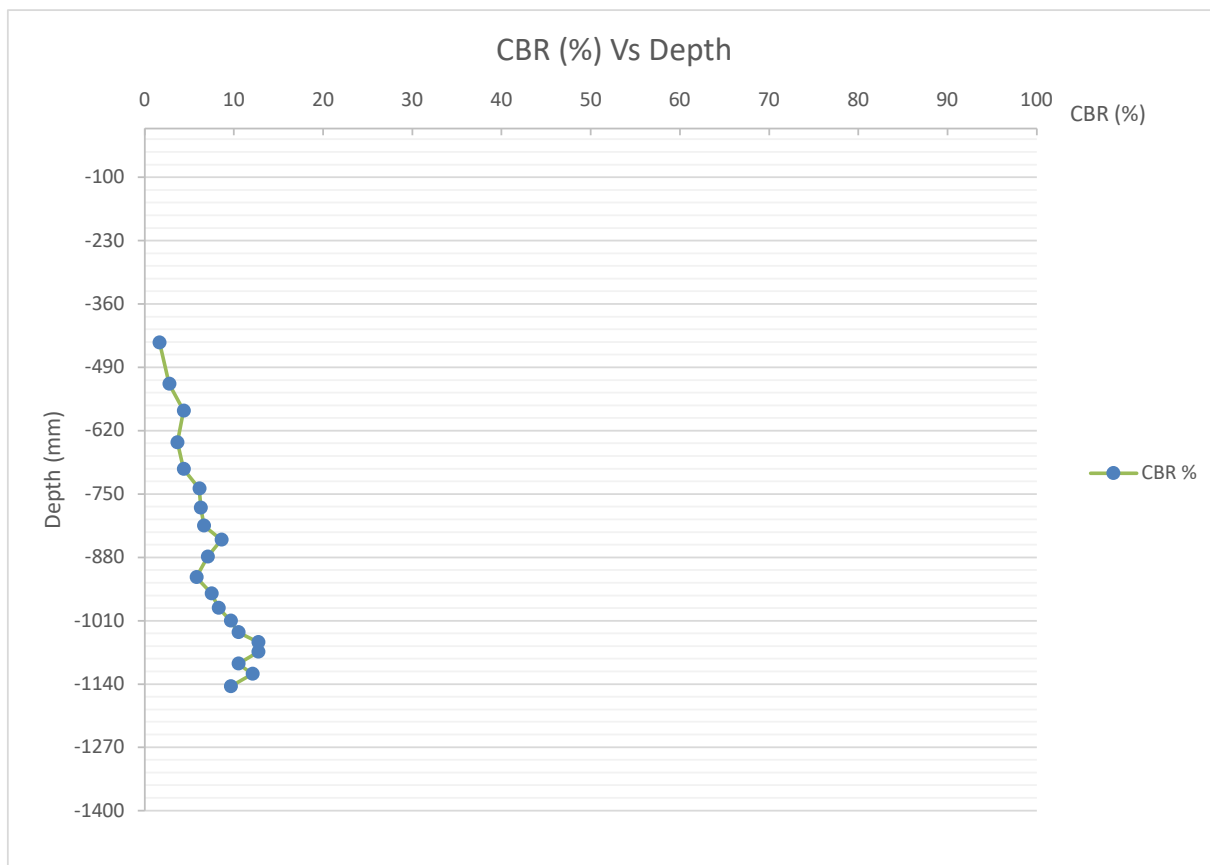
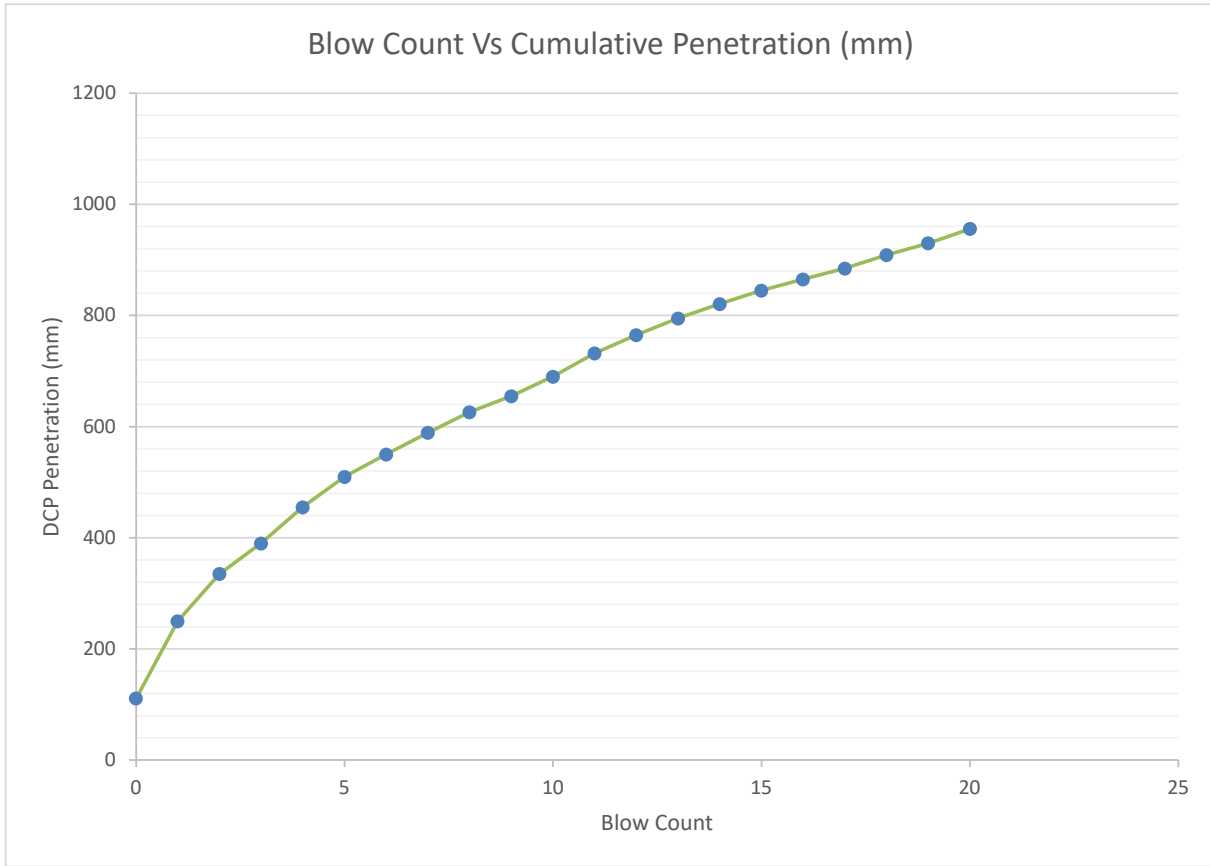
<i>Blow Count</i>	<i>Rod Reading (mm)</i>	<i>Invert Reading (mm bgl)</i>	<i>Penetration index (mm/blow)</i>	<i>CBR %</i>
0	8	-350	0	
1	30	-372	22	12
2	47	-389	17	15
3	67	-409	20	13
4	86	-428	19	13
5	104	-446	18	14
6	127	-469	23	11
7	154	-496	27	9
8	193	-535	39	6
9	236	-578	43	6
10	278	-620	42	6
11	321	-663	43	6
12	359	-701	38	6
13	405	-747	46	5
14	446	-788	41	6
15	487	-829	41	6
16	533	-875	46	5
17	580	-922	47	5
18	618	-960	38	6
19	665	-1007	47	5
20	727	-1069	62	4
21	771	-1113	44	6
22	816	-1158	45	5
23	861	-1203	45	5
24	908	-1250	47	5



TP05

Test commenced from 0.30m bgl.

<i>Blow Count</i>	<i>Rod Reading (mm)</i>	<i>Invert Reading (mm bgl)</i>	<i>Penetration index (mm/blow)</i>	<i>CBR %</i>
0	111	-300	0	
1	250	-439	139	2
2	335	-524	85	3
3	390	-579	55	4
4	455	-644	65	4
5	510	-699	55	4
6	550	-739	40	6
7	589	-778	39	6
8	626	-815	37	7
9	655	-844	29	9
10	690	-879	35	7
11	732	-921	42	6
12	765	-954	33	7
13	795	-984	30	8
14	821	-1010	26	10
15	845	-1034	24	10
16	865	-1054	20	13
17	885	-1074	20	13
18	909	-1098	24	10
19	930	-1119	21	12
20	956	-1145	26	10





APPENDIX 5 - Soil Percolation Test Results

SOIL PERCOLATION TEST

Sheet 1 of 2

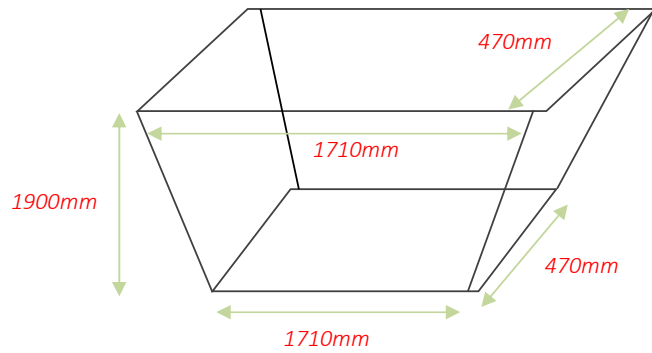
Date of Test: 26/02/2021

POSITION: SA01
 TEST 1

Weather: Overcast, rain

Engineer: B Massey
 Checked: R Wyatt

Trial Pit Measurements



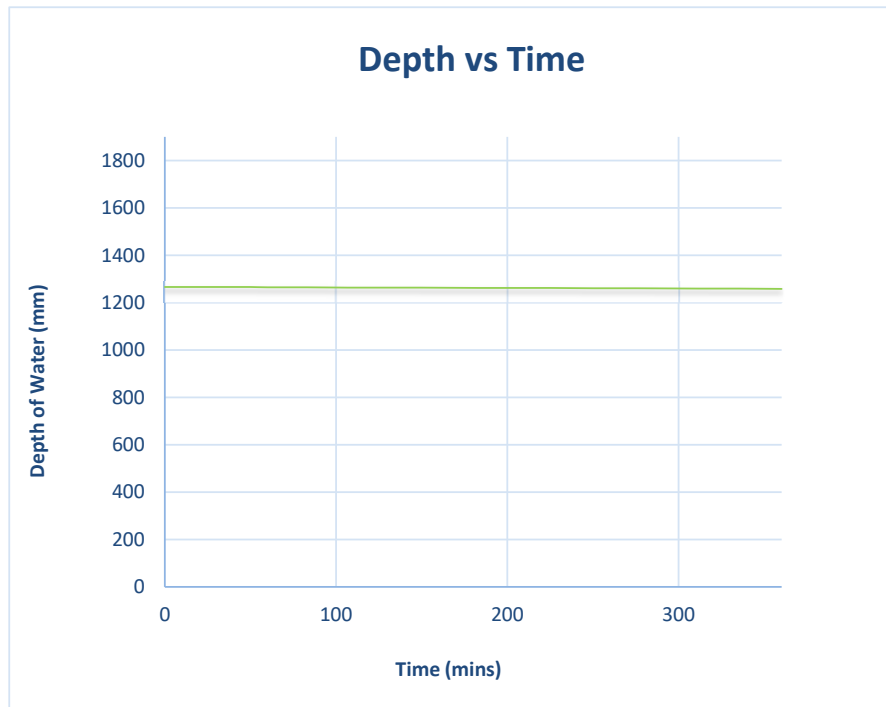
Pit Depth (mm):	1900
Pit Details:	Open with no stone filling
Groundwater Level:	NGW

Test Data

Time Elapsed (mins)	Depth to Water Level (m)
0	634
1	634
2	634
3	634
4	634
5	634
10	634
15	634
20	634
25	634
30	634
40	634
50	634
60	635
83	635
107	636
120	636
184	637
225	638
275	639
312	640
360	641

SOIL PERCOLATION TEST

SA01
TEST 1



Volume of Pit (m ³)	1.52703
Void Ratio of Infill	1
Volume of Infill (m ³)	N/A
Volume of Water in Pit (m ³)	1.0174842

Compliance Check:

Water Level at 75% effective depth (mm)	949.5
Water Level at 25% effective depth (mm)	316.5

Test not BRE 365 compliant with BRE 365 - insufficient time to drain past 25% effective depth

Soil Infiltration Rate Calculation

Water Level 1	1266
Water Level 2	1259
Time to Drain from Level 1 to Level 2 (mins)	360
Volume of water discharged (m ³)	0.0056259

Discharge Area (m ²)	6.3082
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Soil Infiltration Rate (m/min)	2.4773E-06
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Soil Infiltration Rate (m/sec)	4.13E-08
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SOIL PERCOLATION TEST

Sheet 1 of 2

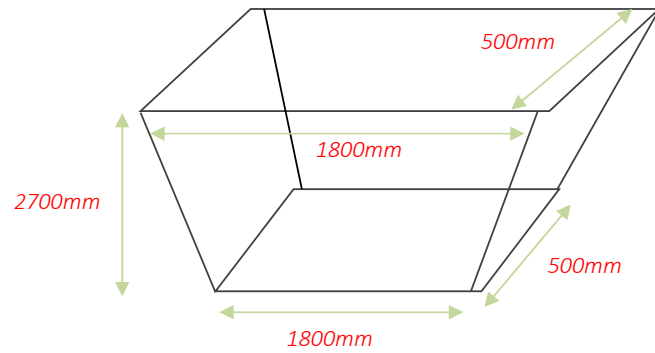
Date of Test: 26/02/2021

SA02A
TEST 1

Weather: Overcast, rain

Engineer: B Massey
Checked: R Wyatt

Trial Pit Measurements



Pit Depth (mm):	2700
Pit Details:	Open with no stone filling
Groundwater Level:	NGW

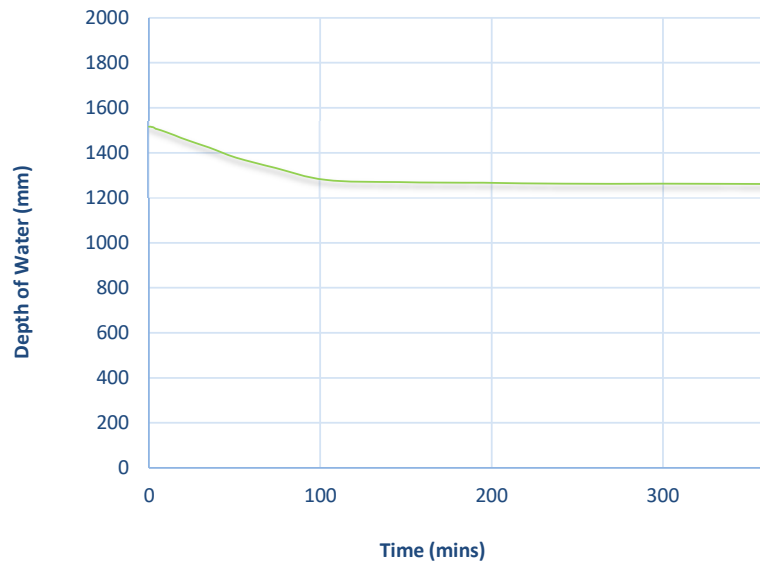
Test Data

Time Elapsed (mins)	Depth to Water Level (m)
0	1183
1	1184
2	1185
3	1188
4	1193
5	1195
10	1207
15	1222
23	1245
35	1276
51	1321
74	1367
103	1420
146	1430
195	1433
242	1437
300	1437
360	1438

SOIL PERCOLATION TEST

SA02A
TEST 1

Depth vs Time



Volume of Pit (m ³)	2.43
Void Ratio of Infill	1
Volume of Infill (m ³)	N/A
Volume of Water in Pit (m ³)	1.3653

Compliance Check:

Water Level at 75% effective depth (mm)	1137.75
Water Level at 25% effective depth (mm)	379.25

Test not BRE 365 compliant with BRE 365 - insufficient time to drain past 25% effective depth

Soil Infiltration Rate Calculation

Water Level 1	1517
Water Level 2	1262
Time to Drain from Level 1 to Level 2 (mins)	360
Volume of water discharged (m ³)	0.2295

Discharge Area (m ²)	7.2917
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Soil Infiltration Rate (m/min)	8.7428E-05
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Soil Infiltration Rate (m/sec)	1.46E-06
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APPENDIX 6 - Interim Ground Gas Results

PERMANENT GROUND GAS MONITORING FORM



SITE NAME:	HMP HOLLOWAY	ENGINEER:	Joshua Turton
CLIENT:	WATERMAN I & E	DATE:	24/02/2021
JOB NO:	GRO-20291		

Pressure Trend:	Falling	Weather:	Overcast	Equipment:	GFM 436	
Ambient:	O ₂ (%v/v)	CH ₄ (%v/v)	CO ₂ (%v/v)	LEL	H ₂ S (ppm)	CO (ppm)
Start	20.7	0.0	0.0	0.0	0.0	0.0
Finish	20.7	0.0	0.0	0.0	0.0	0.0

BH Ref.	Gas Flow Rate (l/hr)		Borehole Pressure (mb)	Methane (%v/v)			Carbon Dioxide (%v/v)		Oxygen (%v/v)		Hydrogen Sulphide (ppm)		Carbon Monoxide (ppm)		Q _{hg} CO ₂ (l/hr)	Q _{hg} CH ₄ (l/hr)	Atmos Press (mb)	PID (ppm)	Sheen (Y/N)	Depth to Water (m bgl)
	Peak	Steady		Peak	Steady	LEL	Peak	Steady	Peak	Steady	Peak	Steady	Peak	Steady						
BH01E(S)	0.0	0.0	0.00	0.0	0.0	0.0	0.7	0.8	16.3	15.9	0.0	0.0	0.0	0.0	0.0007	0.0000	1017	0.3	N	NGW
BH01E(D)	0.0	0.0	0.00	0.0	0.0	0.0	0.1	0.0	19.8	20.0	0.0	0.0	0.0	0.0	0.0001	0.0000	1017	1.8	N	16.50
BH02(S)	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0	11.9	11.7	0.0	0.0	0.0	0.0	0.0000	0.0000	1015	0.3	N	NGW
BH02(D)	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0	20.8	20.8	0.0	0.0	0.0	0.0	0.0000	0.0000	1016	0.0	N	8.53
BH04	0.0	0.0	0.00	0.0	0.0	0.0	0.2	0.0	17.9	20.3	25.0	0.0	47.0	10.0	0.0002	0.0000	1017	0.6	N	13.60
BH05	0.0	0.0	0.00	0.0	0.0	0.0	0.3	0.0	18.1	20.5	0.0	0.0	10.0	0.0	0.0003	0.0000	1017	1.1	N	12.56
BH06	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0	20.7	20.7	0.0	0.0	0.0	0.0	0.0000	0.0000	1017	0.1	N	0.75
BH08	0.0	0.0	0.00	0.0	0.0	0.0	4.6	0.8	4.2	16.3	0.0	0.0	0.0	0.0	0.0046	0.0000	1017	0.3	N	NGW
BH09	0.0	0.0	0.00	0.0	0.0	0.0	0.1	0.0	20.4	20.6	0.0	0.0	0.0	0.0	0.0001	0.0000	1018	0.2	N	16.08
BH10	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0	20.2	20.2	0.0	0.0	0.0	0.0	0.0000	0.0000	1018	0.3	N	24.11
BH12	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0	20.7	20.7	0.0	0.0	0.0	0.0	0.0000	0.0000	1017	0.0	N	7.79
BH14	0.0	0.0	0.00	0.0	0.0	0.0	4.6	0.8	4.2	16.3	0.0	0.0	0.0	0.0	0.0046	0.0000	1017	0.4	N	19.04
BH16	0.0	0.0	0.00	0.0	0.0	0.0	0.1	0.0	20.4	20.6	0.0	0.0	0.0	0.0	0.0001	0.0000	1018	0.0	N	18.01
BH18	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0	20.2	20.2	0.0	0.0	0.0	0.0	0.0000	0.0000	1018	0.0	N	0.80
BH19	0.0	0.0	0.00	0.0	0.0	0.0	0.5	0.3	19.8	20.2	0.0	0.0	0.0	0.0	0.0005	0.0000	1017	1.1	N	1.29
BH21	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0	19.3	20.7	0.0	0.0	0.0	0.0	0.0000	0.0000	1017	0.1	N	24.42
WS01	0.0	0.0	0.00	0.0	0.0	0.0	1.0	0.0	15.0	20.7	0.0	0.0	0.0	0.0	0.0010	0.0000	1017	0.1	N	0.94
WS02	0.0	0.0	0.00	0.0	0.0	0.0	0.1	0.0	20.1	20.7	0.0	0.0	0.0	0.0	0.0001	0.0000	1017	1.4	N	1.01
WS05	0.0	0.0	0.00	0.0	0.0	0.0	0.5	0.3	19.8	20.2	0.0	0.0	0.0	0.0	0.0005	0.0000	1017	0.0	N	NGW
WS07	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0	19.3	20.7	0.0	0.0	0.0	0.0	0.0000	0.0000	1017	0.0	N	2.87
WS08	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0	19.3	20.7	0.0	0.0	0.0	0.0	0.0000	0.0000	1017	0.1	N	2.08
WS10	0.0	0.0	0.00	0.0	0.0	0.0	1.0	0.0	15.0	20.7	0.0	0.0	0.0	0.0	0.0010	0.0000	1017	0.1	N	0.83
WS11	0.0	0.0	0.00	0.0	0.0	0.0	1.0	0.0	15.0	20.7	0.0	0.0	0.0	0.0	0.0010	0.0000	1017	0.0	N	1.12
WS12	0.0	0.0	0.00	0.0	0.0	0.0	0.1	0.0	20.1	20.7	0.0	0.0	0.0	0.0	0.0001	0.0000	1017	0.3	N	1.10

Notes:

PERMANENT GROUND GAS MONITORING FORM



SITE NAME:	HMP HOLLOWAY	ENGINEER:	Joshua Turton
CLIENT:	WATERMAN I & E	DATE:	12/03/2021
JOB NO:	GRO-20291		

Pressure Trend:	Steady	Weather:	Overcast	Equipment:	GFM 436	
Ambient:	O ₂ (%v/v)	CH ₄ (%v/v)	CO ₂ (%v/v)	LEL	H ₂ S (ppm)	CO (ppm)
Start	20.2					
Finish	20.2					

BH Ref.	Gas Flow Rate (l/hr)		Borehole Pressure (mb)	Methane (%v/v)			Carbon Dioxide (%v/v)		Oxygen (%v/v)		Hydrogen Sulphide (ppm)		Carbon Monoxide (ppm)		Q _{hg} CO ₂ (l/hr)	Q _{hg} CH ₄ (l/hr)	Atmos Press (mb)	PID (ppm)	Sheen (Y/N)	Depth to Water (m bgl)
	Peak	Steady		Peak	Steady	LEL	Peak	Steady	Peak	Steady	Peak	Steady	Peak	Steady						
BH01E(S)	0.0	0.0	0.00	0.0	0.0	0.0	0.4	0.5	18.6	18.7	0.0	0.0	0.0	0.0	0.0004	0.0000	1004	0.0	N	NGW
BH01E(D)	0.0	0.0	0.00	0.0	0.0	0.0	0.9	0.1	16.4	19.8	0.0	0.0	0.0	0.0	0.0009	0.0000	1004	1.2	N	11.59
BH02(S)	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0	8.0	8.6	0.0	0.0	0.0	0.0	0.0000	0.0000	1004	0.0	N	NGW
BH02(D)	0.0	0.0	0.00	0.0	0.0	0.0	0.4	0.0	10.5	19.6	0.0	0.0	0.0	0.0	0.0004	0.0000	1004	0.0	N	8.34
BH04	0.0	0.0	0.00	0.0	0.0	0.0	0.7	0.3	12.3	17.4	0.0	0.0	0.0	0.0	0.0007	0.0000	1004	0.1	N	14.72
BH05	0.0	0.0	0.00	0.0	0.0	0.0	0.6	0.0	15.9	19.8	0.0	0.0	0.0	0.0	0.0006	0.0000	1002	0.4	N	10.03
BH06	0.0	0.0	0.00	0.0	0.0	0.0	0.5	0.0	20.1	20.3	0.0	0.0	0.0	0.0	0.0005	0.0000	1002	0.0	N	2.21
BH08	0.0	0.0	0.00	0.0	0.0	0.0	2.1	0.2	13.6	19.5	0.0	0.0	0.0	0.0	0.0021	0.0000	1004	0.1	N	NGW
BH09	0.0	0.0	0.00	0.0	0.0	0.0	0.3	0.1	19.4	20.0	0.0	0.0	0.0	0.0	0.0003	0.0000	1004	0.0	N	16.00
BH10	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0	20.2	20.2	0.0	0.0	0.0	0.0	0.0000	0.0000	1004	0.1	N	11.90
BH12	0.0	0.0	0.00	0.0	0.0	0.0	0.5	0.0	20.1	20.3	0.0	0.0	0.0	0.0	0.0005	0.0000	1002	0.0	N	6.21
BH14	0.0	0.0	0.00	0.0	0.0	0.0	2.1	0.2	13.6	19.5	0.0	0.0	0.0	0.0	0.0021	0.0000	1004	0.2	N	16.80
BH16	0.0	0.0	0.00	0.0	0.0	0.0	0.3	0.1	19.4	20.0	0.0	0.0	0.0	0.0	0.0003	0.0000	1004	0.0	N	15.36
BH18	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0	20.2	20.2	0.0	0.0	0.0	0.0	0.0000	0.0000	1004	0.0	N	0.75
BH19	0.0	0.0	0.00	0.0	0.0	0.0	2.7	0.4	14.9	19.6	0.0	0.0	0.0	0.0	0.0027	0.0000	1002	0.5	N	5.00
BH21	0.0	0.0	0.00	0.0	0.0	0.0	0.3	0.0	18.4	19.9	0.0	0.0	0.0	0.0	0.0003	0.0000	1004	0.0	N	20.31
WS01	0.0	0.0	0.00	0.0	0.0	0.0	1.0	0.0	15.0	20.7	0.0	0.0	0.0	0.0	0.0010	0.0000	1004	0.0	N	2.50
WS02	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0	20.1	20.1	0.0	0.0	0.0	0.0	0.0000	0.0000	1002	0.6	N	1.84
WS05	0.0	0.0	0.00	0.0	0.0	0.0	2.7	0.4	14.9	19.6	0.0	0.0	0.0	0.0	0.0027	0.0000	1002	0.0	N	NGW
WS07	0.0	0.0	0.00	0.0	0.0	0.0	0.3	0.0	18.4	19.9	0.0	0.0	0.0	0.0	0.0003	0.0000	1004	0.0	N	4.00
WS08	0.0	0.0	0.00	0.0	0.0	0.0	0.3	0.0	18.4	19.9	0.0	0.0	0.0	0.0	0.0003	0.0000	1004	0.0	N	NGW
WS10	0.0	0.0	0.00	0.0	0.0	0.0	1.0	0.0	15.0	20.7	0.0	0.0	0.0	0.0	0.0010	0.0000	1004	0.0	N	NGW
WS11	0.0	0.0	0.00	0.0	0.0	0.0	1.0	0.0	15.0	20.7	0.0	0.0	0.0	0.0	0.0010	0.0000	1004	0.0	N	3.84
WS12	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0	20.1	20.1	0.0	0.0	0.0	0.0	0.0000	0.0000	1002	0.1	N	3.73

Notes:



APPENDIX 7 - Limitations



Limitations

This contract was completed by Groundtech Consulting on the basis of a defined programme and scope of works and terms and conditions agreed with the client. This report was compiled with due skill and care, taking into consideration the project brief provided, project objectives, agreed scope of works, prevailing site conditions and budget allocation.

Other than that defined in the paragraph above, Groundtech Consulting provides no other accountability or warranty whether express or implied, is made in relation to the services. Unless otherwise agreed this report has been prepared exclusively for the use and reliance of the client in accordance with generally accepted industry practices and for the intended purposes as stated in the agreement under which this work was completed. This report may not be relied upon, or transferred to, by any other party without the written agreement of a Director of Groundtech Consulting. A third party who relies on this report, does so at their own and sole risk and no liability to such parties is provided by Groundtech Consulting.

It is the understanding of Groundtech Consulting that this report is to be used for the intended purpose as set out in the introduction. The purpose was instrumental in determining the scope and level of the services provided. Should the purpose of the report or the proposed end use of the site change, this report will no longer be directly applicable, and its validity readdressed. No reliance upon the report in the revised situation should be assumed by the client without the permission of Groundtech Consulting.

The report was written in 2021, later changes in legislation, statutory requirements and industry best practices have not been considered and this should be allowed for. Ground conditions can also change and should be investigated if there is any significant delay in acting on the findings of this report. The period of time may result in changes in site conditions, regulatory or other legal provisions, technology or economic conditions which could render the report inaccurate or unreliable. The information and conclusions in this report should not be relied upon in the future without the written confirmation from Groundtech Consulting that it is safe to do so.

The observations and conclusions outlined in this report are based exclusively on the services that were provided as set out in the agreement between the client and Groundtech Consulting.

Groundtech Consulting are not liable for the existence of any condition, the discovery of which would require additional investigation outside the agreed scope of works or core competency. The services provided are based upon Groundtech Consulting observations of existing physical conditions at the site gained from site reconnaissance together with interpretation of information including documentation, obtained from third parties and from the client on the history and usage of the site. The findings and recommendations contained in this report are based in part upon information provided by third parties, and Groundtech Consulting assume the information to be correct.

No responsibility can be accepted for errors for third party information presented in this report. Groundtech Consulting were not authorised to independently verify the accuracy or completeness of information, documentation or materials received from the client or third parties, including laboratories and information services, during the performance of the services. Groundtech Consulting are not liable for any inaccurate information, misrepresentation of data or conclusions, which may inform the scope of investigation undertaken by Groundtech Consulting and forms the contract with the client.

Where field investigations have been carried out these have been restricted to a level of detail required to achieve the stated objectives of the work. Ground conditions can also be variable due to its heterogeneous properties and as investigation exploratory locations only allow examination of the ground at discrete locations. The potential exists for ground conditions to be encountered which are different to those considered in this report, particularly between exploratory holes. The extent of the limited area depends on the soil and groundwater conditions, together with other constraints such as the position of any existing structures and underground utilities. Geo-Environmental testing was carried out for a limited number of parameters [as stipulated in the contract] based on an understanding of the available operational and historical information, and it should not be inferred that other chemical species are not present.



The groundwater conditions entered on the exploratory hole records are those observed at the time of investigation. The groundwater level often has not had time to reach equilibrium and a monitoring period is required. Furthermore, groundwater levels are subject to seasonal variation or changes in local drainage conditions and higher groundwater levels may occur at other times of the year than were recorded during this investigation.

Any site drawings provided in this report are not meant to be an accurate base plan, but are preliminary and used to present the general relative locations of features on, and surrounding, the site.





Appendix C

Laboratory Analysis Results



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Analytical Report Number : 21-52361

Project / Site name:	Holloway Prison	Samples received on:	20/01/2021
Your job number:	WIE16172	Samples instructed on/ Analysis started on:	22/01/2021
Your order number:	107798	Analysis completed by:	29/01/2021
Report Issue Number:	1	Report issued on:	29/01/2021
Samples Analysed:	6 soil samples		

Signed:

Joanna Wawrzeczko
Technical Reviewer (Reporting Team)
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 21-52361
 Project / Site name: Holloway Prison
 Your Order No: 107798

Lab Sample Number	1744476	1744477	1744478	1744479	1744480			
Sample Reference	BH06	BH07	BH07	BH10	BH20			
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth (m)	0.50	1.00	1.50	1.00	0.50			
Date Sampled	19/01/2021	20/01/2021	20/01/2021	20/01/2021	21/01/2021			
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	19	15	23	13	13
Total mass of sample received	kg	0.001	NONE	1.5	1.5	1.5	1.5	1.5

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	-	Not-detected	Not-detected
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General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.9	9.4	8.1	10.4	8.0
Organic Matter	%	0.1	MCERTS	3.2	0.2	0.1	2.2	2.9
Total Organic Carbon (TOC)	%	0.1	MCERTS	1.9	< 0.1	< 0.1	1.3	1.7

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	11	19	13	14	15
Barium (aqua regia extractable)	mg/kg	1	MCERTS	110	99	31	120	140
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.69	1	1.5	1	0.82
Boron (water soluble)	mg/kg	0.2	MCERTS	0.6	7.1	1.4	1.2	0.6
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	1.7	< 0.2	< 0.2	< 0.2	0.9
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	43	18	57	28	28
Copper (aqua regia extractable)	mg/kg	1	MCERTS	38	26	38	56	79
Lead (aqua regia extractable)	mg/kg	1	MCERTS	93	53	17	100	190
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	0.5	< 0.3	< 0.3	< 0.3	< 0.3
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	1.1	1.5	0.51	1.1	0.95
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	24	11	47	18	21
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	38	35	95	54	48
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	290	23	94	100	160

Monoaromatics & Oxygenates

Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Analytical Report Number: 21-52361
 Project / Site name: Holloway Prison
 Your Order No: 107798

Lab Sample Number	1744476	1744477	1744478	1744479	1744480			
Sample Reference	BH06	BH07	BH07	BH10	BH20			
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth (m)	0.50	1.00	1.50	1.00	0.50			
Date Sampled	19/01/2021	20/01/2021	20/01/2021	20/01/2021	21/01/2021			
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4	< 8.4	< 8.4
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic (EC5 - EC44)	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	17
TPH-CWG - Aromatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4	< 8.4	< 8.4
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	27
TPH-CWG - Aromatic (EC5 - EC44)	mg/kg	10	NONE	< 10	< 10	< 10	< 10	27

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number: 21-52361
 Project / Site name: Holloway Prison
 Your Order No: 107798

Lab Sample Number				1744481
Sample Reference				BH20
Sample Number				None Supplied
Depth (m)				1.50
Date Sampled				21/01/2021
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	
Stone Content	%	0.1	NONE	< 0.1
Moisture Content	%	0.01	NONE	12
Total mass of sample received	kg	0.001	NONE	1.2

Asbestos in Soil	Type	N/A	ISO 17025	-
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General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.5
Organic Matter	%	0.1	MCERTS	1.3
Total Organic Carbon (TOC)	%	0.1	MCERTS	0.8

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	19
Barium (aqua regia extractable)	mg/kg	1	MCERTS	120
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.96
Boron (water soluble)	mg/kg	0.2	MCERTS	0.3
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	29
Copper (aqua regia extractable)	mg/kg	1	MCERTS	50
Lead (aqua regia extractable)	mg/kg	1	MCERTS	190
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	1.2
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	24
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	53
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	150

Monoaromatics & Oxygenates

Benzene	µg/kg	1	MCERTS	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0

Analytical Report Number: 21-52361
 Project / Site name: Holloway Prison
 Your Order No: 107798

Lab Sample Number				1744481
Sample Reference				BH20
Sample Number				None Supplied
Depth (m)				1.50
Date Sampled				21/01/2021
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	
Petroleum Hydrocarbons				
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0
TPH-CWG - Aliphatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10
TPH-CWG - Aliphatic (EC5 - EC44)	mg/kg	10	NONE	< 10
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10
TPH-CWG - Aromatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10
TPH-CWG - Aromatic (EC5 - EC44)	mg/kg	10	NONE	< 10

U/S = Unsuitable Sample I/S = Insufficient Sample



Analytical Report Number : 21-52361
Project / Site name: Holloway Prison

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
1744476	BH06	None Supplied	0.5	Brown loam and clay with gravel and vegetation.
1744477	BH07	None Supplied	1	Non Soil**
1744478	BH07	None Supplied	1.5	Brown clay and sand.
1744479	BH10	None Supplied	1	Brown clay and sand with gravel.
1744480	BH20	None Supplied	0.5	Brown clay and sand with gravel.
1744481	BH20	None Supplied	1.5	Brown clay and sand with gravel.

**Non MCERTS Matrix

Analytical Report Number : 21-52361
Project / Site name: Holloway Prison

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L0738-PL	W	MCERTS
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L088/76-PL	W	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	NONE
D.O. for Gravimetric Quant if Screen/ID positive	Dependent option for Gravimetric Quant if Screen/ID positive scheduled.	In house asbestos methods A001 & A006.	A006-PL	D	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.



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Analytical Report Number : 21-52363

Project / Site name:	Holloway Prison	Samples received on:	20/01/2021
Your job number:	WIE16172	Samples instructed on/ Analysis started on:	22/01/2021
Your order number:	107798	Analysis completed by:	29/01/2021
Report Issue Number:	1	Report issued on:	29/01/2021
Samples Analysed:	10:1 WAC sample		

Signed:

Joanna Wawrzeczko
Technical Reviewer (Reporting Team)
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.



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Waste Acceptance Criteria Analytical Results							
Report No:	21-52363						
				Client: WATERMAN			
Location		Holloway Prison					
Lab Reference (Sample Number)		1744497 / 1744498			Landfill Waste Acceptance Criteria		
Sampling Date		19/01/2021			Limits		
Sample ID		BH06			Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Depth (m)		0.50					
Solid Waste Analysis							
TOC (%)**	1.8				3%	5%	6%
Loss on Ignition (%) **	3.9				--	--	10%
BTEX (µg/kg) **	< 10				6000	--	--
Sum of PCBs (mg/kg) **	< 0.007				1	--	--
Mineral Oil (mg/kg)	< 10				500	--	--
Total PAH (WAC-17) (mg/kg)	3.18				100	--	--
pH (units)**	7.4				--	>6	--
Acid Neutralisation Capacity (mol / kg)	2.4				--	To be evaluated	To be evaluated
Eluate Analysis							
	10:1			10:1	Limit values for compliance leaching test		
(BS EN 12457 - 2 preparation utilising end over end leaching procedure)	mg/l			mg/kg	using BS EN 12457-2 at L/S 10 l/kg (mg/kg)		
Arsenic *	0.0042			0.0352	0.5	2	25
Barium *	0.0245			0.206	20	100	300
Cadmium *	< 0.0001			< 0.0008	0.04	1	5
Chromium *	0.0017			0.015	0.5	10	70
Copper *	0.011			0.093	2	50	100
Mercury *	< 0.0005			< 0.0050	0.01	0.2	2
Molybdenum *	< 0.0004			< 0.0040	0.5	10	30
Nickel *	0.0045			0.038	0.4	10	40
Lead *	0.0042			0.036	0.5	10	50
Antimony *	< 0.0017			< 0.017	0.06	0.7	5
Selenium *	< 0.0040			< 0.040	0.1	0.5	7
Zinc *	0.012			0.097	4	50	200
Chloride *	2.0			16	800	15000	25000
Fluoride	0.40			3.4	10	150	500
Sulphate *	3.8			32	1000	20000	50000
TDS*	64			540	4000	60000	100000
Phenol Index (Monohydric Phenols) *	< 0.010			< 0.10	1	-	-
DOC	9.55			80.3	500	800	1000
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	1.5						
Dry Matter (%)	81						
Moisture (%)	19						
Results are expressed on a dry weight basis, after correction for moisture content where applicable. * = UKAS accredited (liquid eluate analysis only)							
Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation ** = MCERTS accredited							
Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3. This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous.							



Analytical Report Number : 21-52363
Project / Site name: Holloway Prison

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
1744497	BH06	None Supplied	0.5	Brown loam and clay with gravel and vegetation.

Analytical Report Number : 21-52363
Project / Site name: Holloway Prison

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
BS EN 12457-2 (10:1) Leachate Prep	10:1 (as recieved, moisture adjusted) end over end extraction with water for 24 hours. Eluate filtered prior to analysis.	In-house method based on BSEN12457-2.	L043-PL	W	NONE
Acid neutralisation capacity of soil	Determination of acid neutralisation capacity by addition of acid or alkali followed by electronic probe.	In-house method based on Guidance an Sampling and Testing of Wastes to Meet Landfill Waste Acceptance"	L046-PL	W	NONE
Loss on ignition of soil @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace.	In house method.	L047-PL	D	MCERTS
Mineral Oil (Soil) C10 - C40	Determination of mineral oil fraction extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L076-PL	D	NONE
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Speciated WAC-17 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270. MCERTS accredited except Coronene.	L064-PL	D	NONE
PCB's By GC-MS in soil	Determination of PCB by extraction with acetone and hexane followed by GC-MS.	In-house method based on USEPA 8082	L027-PL	D	MCERTS
pH at 20oC in soil	Determination of pH in soil by addition of water followed by electrometric measurement.	In house method.	L005-PL	W	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
BTEX in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
Total BTEX in soil (Poland)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073-PL	W	MCERTS
Metals in leachate by ICP-OES	Determination of metals in leachate by acidification followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil"	L039-PL	W	ISO 17025
Chloride 10:1 WAC	Determination of Chloride colorimetrically by discrete analyser.	In house based on MEWAM Method ISBN 0117516260.	L082-PL	W	ISO 17025
Fluoride 10:1 WAC	Determination of fluoride in leachate by 1:1ratio with a buffer solution followed by Ion Selective Electrode.	In-house method based on Use of Total Ionic Strength Adjustment Buffer for Electrode Determination"	L033B-PL	W	ISO 17025
Sulphate 10:1 WAC	Determination of sulphate in leachate by ICP-OES	In-house method based on MEWAM 1986 Methods for the Determination of Metals in Soil"	L039-PL	W	ISO 17025
Total dissolved solids 10:1 WAC	Determination of total dissolved solids in water by electrometric measurement.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L004-PL	W	ISO 17025

Analytical Report Number : 21-52363
Project / Site name: Holloway Prison

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Monohydric phenols 10:1 WAC	Determination of phenols in leachate by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	ISO 17025
Dissolved organic carbon 10:1 WAC	Determination of dissolved inorganic carbon in leachate by TOC/DOC NDIR Analyser.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L037-PL	W	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.



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Analytical Report Number : 21-52855

Project / Site name:	Holloway	Samples received on:	25/01/2021
Your job number:	WIE16172	Samples instructed on/ Analysis started on:	25/01/2021
Your order number:	107836	Analysis completed by:	01/02/2021
Report Issue Number:	1	Report issued on:	01/02/2021
Samples Analysed:	3 soil samples		

Signed: 

Zina Abdul Razzak
Senior Quality Specialist
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 21-52855

Project / Site name: Holloway

Your Order No: 107836

Lab Sample Number				1747149	1747150	1747151
Sample Reference				BH06	BH18	BH18
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				0.50	0.50	1.50
Date Sampled				19/01/2021	22/01/2021	22/01/2021
Time Taken				None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status			
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	19	18	16
Total mass of sample received	kg	0.001	NONE	1.5	1.7	1.7

Asbestos in Soil	Type	N/A	ISO 17025	-	Not-detected	Not-detected
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General Inorganics

pH - Automated	pH Units	N/A	MCERTS	-	8.7	8.7
Organic Matter	%	0.1	MCERTS	-	0.5	0.6
Fraction Organic Carbon (FOC)	N/A	0.001	MCERTS	-	0.003	0.0032
Total Organic Carbon (TOC)	%	0.1	MCERTS	-	0.3	0.3

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.91	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	0.32	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	0.66	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	0.57	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.42	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	0.34	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	0.42	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	0.25	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.32	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Coronene	mg/kg	0.05	NONE	< 0.05	< 0.05	< 0.05

Total PAH

Total WAC-17 PAHs	mg/kg	0.85	NONE	4.21	< 0.85	< 0.85
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	-	11	8.6
Barium (aqua regia extractable)	mg/kg	1	MCERTS	-	100	1500
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	-	1.3	1
Boron (water soluble)	mg/kg	0.2	MCERTS	-	3	1.8
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	-	< 4.0	< 4.0
Chromium (III)	mg/kg	1	NONE	-	49	26
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-	49	26
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-	36	15
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-	33	16
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-	< 0.3	< 0.3
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	-	0.96	0.51
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-	47	24
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	-	93	55
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-	93	39

Monoaromatics & Oxygenates

Analytical Report Number: 21-52855

Project / Site name: Holloway

Your Order No: 107836

Lab Sample Number				1747149	1747150	1747151
Sample Reference				BH06	BH18	BH18
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				0.50	0.50	1.50
Date Sampled				19/01/2021	22/01/2021	22/01/2021
Time Taken				None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status			
Benzene	µg/kg	1	MCERTS	-	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	-	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	-	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	-	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	-	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	-	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	-	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	-	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	-	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	-	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	-	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	-	< 8.0	< 8.0
TPH-CWG - Aliphatic > EC35 - EC44	mg/kg	8.4	NONE	-	< 8.4	< 8.4
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	-	< 10	< 10
TPH-CWG - Aliphatic (EC5 - EC44)	mg/kg	10	NONE	-	< 10	< 10

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	-	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	-	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	-	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	-	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	-	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	-	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	-	< 10	< 10
TPH-CWG - Aromatic > EC35 - EC44	mg/kg	8.4	NONE	-	< 8.4	< 8.4
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	-	< 10	< 10
TPH-CWG - Aromatic (EC5 - EC44)	mg/kg	10	NONE	-	< 10	< 10

VOCS

Chloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0
Chloroethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0
Bromomethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0
Vinyl Chloride	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Trichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Dibromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0

Analytical Report Number: 21-52855

Project / Site name: Holloway

Your Order No: 107836

Lab Sample Number				1747149	1747150	1747151
Sample Reference				BH06	BH18	BH18
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				0.50	0.50	1.50
Date Sampled				19/01/2021	22/01/2021	22/01/2021
Time Taken				None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status			
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
p & m-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Styrene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Tribromomethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0
o-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Bromobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0
2-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0
tert-Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0
sec-Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Hexachlorbutadiene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0

SVOCs

Aniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1
Phenol	mg/kg	0.2	ISO 17025	< 0.2	< 0.2	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	< 0.2	< 0.2
Isophorone	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3

Analytical Report Number: 21-52855
 Project / Site name: Holloway
 Your Order No: 107836

Lab Sample Number				1747149	1747150	1747151
Sample Reference				BH06	BH18	BH18
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				0.50	0.50	1.50
Date Sampled				19/01/2021	22/01/2021	22/01/2021
Time Taken				None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status			
Naphthalene	mg/kg	0.05	MCERTS	0.91	< 0.05	< 0.05
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Azobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3
Phenanthrene	mg/kg	0.05	MCERTS	0.32	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Carbazole	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2
Anthraquinone	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3
Fluoranthene	mg/kg	0.05	MCERTS	0.66	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	0.57	< 0.05	< 0.05
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.42	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	0.34	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	0.42	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	0.25	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.32	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number : 21-52855

Project / Site name: Holloway

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
1747149	BH06	None Supplied	0.5	Brown loam and clay with gravel and vegetation.
1747150	BH18	None Supplied	0.5	Brown clay and sand.
1747151	BH18	None Supplied	1.5	Brown sandy clay with gravel.

Analytical Report Number : 21-52855
Project / Site name: Holloway

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Fraction of Organic Carbon in soil	Determination of fraction of organic carbon in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
Speciated WAC-17 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270. MCERTS accredited except Coronene.	L064-PL	D	NONE
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
Cr (III) in soil	In-house method by calculation from total Cr and Cr VI.	In-house method by calculation	L080-PL	W	NONE
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L088/76-PL	W	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	NONE



Analytical Report Number : 21-52855
Project / Site name: Holloway

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
D.O. for Gravimetric Quant if Screen/ID positive	Dependent option for Gravimetric Quant if Screen/ID positive scheduled.	In house asbestos methods A001 & A006.	A006-PL	D	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.



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Analytical Report Number : 21-52856

Project / Site name:	Holloway	Samples received on:	25/01/2021
Your job number:	WIE16172	Samples instructed on/ Analysis started on:	25/01/2021
Your order number:	107840	Analysis completed by:	01/02/2021
Report Issue Number:	1	Report issued on:	01/02/2021
Samples Analysed:	2 soil samples		

Signed: *A. Czerwińska*

Agnieszka Czerwińska
Technical Reviewer (Reporting Team)
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 21-52856

Project / Site name: Holloway

Your Order No: 107840

Lab Sample Number				1747152	1747153
Sample Reference				BH08	BH17
Sample Number				None Supplied	None Supplied
Depth (m)				0.50	1.00
Date Sampled				25/01/2021	25/01/2021
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		
Stone Content	%	0.1	NONE	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	22	24
Total mass of sample received	kg	0.001	NONE	2	1.7

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected
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General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.7	9
Organic Matter	%	0.1	MCERTS	0.2	1.2
Fraction Organic Carbon (FOC)	N/A	0.001	MCERTS	0.0012	0.0071
Total Organic Carbon (TOC)	%	0.1	MCERTS	0.1	0.7

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	-	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	-	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	-	< 0.05
Fluorene	mg/kg	0.05	MCERTS	-	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	-	< 0.05
Anthracene	mg/kg	0.05	MCERTS	-	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	-	< 0.05
Pyrene	mg/kg	0.05	MCERTS	-	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	< 0.05
Chrysene	mg/kg	0.05	MCERTS	-	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	< 0.05
Coronene	mg/kg	0.05	NONE	-	< 0.05

Total PAH

Total WAC-17 PAHs	mg/kg	0.85	NONE	-	< 0.85
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	17	10
Barium (aqua regia extractable)	mg/kg	1	MCERTS	26	53
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.2	1.1
Boron (water soluble)	mg/kg	0.2	MCERTS	0.7	2.2
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0
Chromium (III)	mg/kg	1	NONE	45	44
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	45	44
Copper (aqua regia extractable)	mg/kg	1	MCERTS	32	23
Lead (aqua regia extractable)	mg/kg	1	MCERTS	17	24
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	0.51	0.63
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	44	37
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	1	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	77	75
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	80	78

Monoaromatics & Oxygenates

Analytical Report Number: 21-52856

Project / Site name: Holloway

Your Order No: 107840

Lab Sample Number				1747152	1747153
Sample Reference				BH08	BH17
Sample Number				None Supplied	None Supplied
Depth (m)				0.50	1.00
Date Sampled				25/01/2021	25/01/2021
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	5.1	3.7
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	13	51
TPH-CWG - Aliphatic > EC35 - EC44	mg/kg	8.4	NONE	85	100
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	24	60
TPH-CWG - Aliphatic (EC5 - EC44)	mg/kg	10	NONE	110	160

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	< 10
TPH-CWG - Aromatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4	< 8.4
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10
TPH-CWG - Aromatic (EC5 - EC44)	mg/kg	10	NONE	< 10	< 10

VOCS

Chloromethane	µg/kg	1	ISO 17025	-	< 1.0
Chloroethane	µg/kg	1	NONE	-	< 1.0
Bromomethane	µg/kg	1	ISO 17025	-	< 1.0
Vinyl Chloride	µg/kg	1	NONE	-	< 1.0
Trichlorofluoromethane	µg/kg	1	NONE	-	< 1.0
1,1-Dichloroethene	µg/kg	1	NONE	-	< 1.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	< 1.0
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	< 1.0
1,1-Dichloroethane	µg/kg	1	MCERTS	-	< 1.0
2,2-Dichloropropane	µg/kg	1	MCERTS	-	< 1.0
Trichloromethane	µg/kg	1	MCERTS	-	< 1.0
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	< 1.0
1,2-Dichloroethane	µg/kg	1	MCERTS	-	< 1.0
1,1-Dichloropropene	µg/kg	1	MCERTS	-	< 1.0
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	< 1.0
Benzene	µg/kg	1	MCERTS	-	< 1.0
Tetrachloromethane	µg/kg	1	MCERTS	-	< 1.0
1,2-Dichloropropane	µg/kg	1	MCERTS	-	< 1.0
Trichloroethene	µg/kg	1	MCERTS	-	< 1.0
Dibromomethane	µg/kg	1	MCERTS	-	< 1.0
Bromodichloromethane	µg/kg	1	MCERTS	-	< 1.0

Analytical Report Number: 21-52856

Project / Site name: Holloway

Your Order No: 107840

Lab Sample Number				1747152	1747153
Sample Reference				BH08	BH17
Sample Number				None Supplied	None Supplied
Depth (m)				0.50	1.00
Date Sampled				25/01/2021	25/01/2021
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	< 1.0
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	< 1.0
Toluene	µg/kg	1	MCERTS	-	< 1.0
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	< 1.0
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	< 1.0
Dibromochloromethane	µg/kg	1	ISO 17025	-	< 1.0
Tetrachloroethene	µg/kg	1	NONE	-	< 1.0
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	< 1.0
Chlorobenzene	µg/kg	1	MCERTS	-	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	-	< 1.0
p & m-Xylene	µg/kg	1	MCERTS	-	< 1.0
Styrene	µg/kg	1	MCERTS	-	< 1.0
Tribromomethane	µg/kg	1	NONE	-	< 1.0
o-Xylene	µg/kg	1	MCERTS	-	< 1.0
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	< 1.0
Isopropylbenzene	µg/kg	1	MCERTS	-	< 1.0
Bromobenzene	µg/kg	1	MCERTS	-	< 1.0
n-Propylbenzene	µg/kg	1	ISO 17025	-	< 1.0
2-Chlorotoluene	µg/kg	1	MCERTS	-	< 1.0
4-Chlorotoluene	µg/kg	1	MCERTS	-	< 1.0
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	< 1.0
tert-Butylbenzene	µg/kg	1	MCERTS	-	< 1.0
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	< 1.0
sec-Butylbenzene	µg/kg	1	MCERTS	-	< 1.0
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	-	< 1.0
p-Isopropyltoluene	µg/kg	1	ISO 17025	-	< 1.0
1,2-Dichlorobenzene	µg/kg	1	MCERTS	-	< 1.0
1,4-Dichlorobenzene	µg/kg	1	MCERTS	-	< 1.0
Butylbenzene	µg/kg	1	MCERTS	-	< 1.0
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	< 1.0
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	< 1.0
Hexachlorobutadiene	µg/kg	1	MCERTS	-	< 1.0
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	< 1.0

SVOCs

Aniline	mg/kg	0.1	NONE	-	< 0.1
Phenol	mg/kg	0.2	ISO 17025	-	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	-	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	-	< 0.3
Hexachloroethane	mg/kg	0.05	MCERTS	-	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	-	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	-	< 0.2
Isophorone	mg/kg	0.2	MCERTS	-	< 0.2
2-Nitrophenol	mg/kg	0.3	MCERTS	-	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	< 0.3

Analytical Report Number: 21-52856

Project / Site name: Holloway

Your Order No: 107840

Lab Sample Number				1747152	1747153
Sample Reference				BH08	BH17
Sample Number				None Supplied	None Supplied
Depth (m)				0.50	1.00
Date Sampled				25/01/2021	25/01/2021
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		
Naphthalene	mg/kg	0.05	MCERTS	-	< 0.05
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	-	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	-	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	-	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	-	< 0.1
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	-	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	-	< 0.1
Acenaphthylene	mg/kg	0.05	MCERTS	-	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	-	< 0.05
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	-	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	-	< 0.2
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	-	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	-	< 0.2
4-Nitroaniline	mg/kg	0.2	MCERTS	-	< 0.2
Fluorene	mg/kg	0.05	MCERTS	-	< 0.05
Azobenzene	mg/kg	0.3	MCERTS	-	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	< 0.3
Phenanthrene	mg/kg	0.05	MCERTS	-	< 0.05
Anthracene	mg/kg	0.05	MCERTS	-	< 0.05
Carbazole	mg/kg	0.3	MCERTS	-	< 0.3
Dibutyl phthalate	mg/kg	0.2	MCERTS	-	< 0.2
Anthraquinone	mg/kg	0.3	MCERTS	-	< 0.3
Fluoranthene	mg/kg	0.05	MCERTS	-	< 0.05
Pyrene	mg/kg	0.05	MCERTS	-	< 0.05
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	-	< 0.3
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	< 0.05
Chrysene	mg/kg	0.05	MCERTS	-	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	< 0.05

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number : 21-52856
Project / Site name: Holloway

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
1747152	BH08	None Supplied	0.5	Brown clay and sand with gravel.
1747153	BH17	None Supplied	1	Brown sandy clay with gravel and vegetation.

Analytical Report Number : 21-52856
Project / Site name: Holloway

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Fraction of Organic Carbon in soil	Determination of fraction of organic carbon in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
Speciated WAC-17 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270. MCERTS accredited except Coronene.	L064-PL	D	NONE
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
Cr (III) in soil	In-house method by calculation from total Cr and Cr VI.	In-house method by calculation	L080-PL	W	NONE
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L088/76-PL	W	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	NONE



Analytical Report Number : 21-52856
Project / Site name: Holloway

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
D.O. for Gravimetric Quant if Screen/ID positive	Dependent option for Gravimetric Quant if Screen/ID positive scheduled.	In house asbestos methods A001 & A006.	A006-PL	D	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.



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Analytical Report Number : 21-53798

Project / Site name:	Holloway Prison	Samples received on:	26/01/2021
Your job number:	WIE16172	Samples instructed on/ Analysis started on:	27/01/2021
Your order number:	107879	Analysis completed by:	03/02/2021
Report Issue Number:	1	Report issued on:	03/02/2021
Samples Analysed:	7 soil samples		

Signed: *Karolina Marek*

Karolina Marek
PL Head of Reporting Team
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 21-53798
 Project / Site name: Holloway Prison
 Your Order No: 107879

Lab Sample Number	1752231				1752232		1752233		1752234		1752235	
Sample Reference	BH04				BH04		BH02		BH02		TP09	
Sample Number	None Supplied				None Supplied		None Supplied		None Supplied		None Supplied	
Depth (m)	0.50				1.00		0.50		1.70		1.00	
Date Sampled	25/01/2021				25/01/2021		25/01/2021		25/01/2021		25/01/2021	
Time Taken	None Supplied				None Supplied		None Supplied		None Supplied		None Supplied	
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status									
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
Moisture Content	%	0.01	NONE	20	22	8.8	19	18				
Total mass of sample received	kg	0.001	NONE	2.0	2.0	2.0	2.0	1.2				

Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	-	Amosite	-	Chrysotile
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	-	Detected	-	Detected
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	-	-	0.004	-	0.001
Asbestos Quantification Total	%	0.001	ISO 17025	-	-	0.004	-	0.001

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.8	8.0	10.7	9.0	7.9
Organic Matter	%	0.1	MCERTS	1.4	0.5	1.4	1.1	2.2
Total Organic Carbon (TOC)	%	0.1	MCERTS	0.8	0.3	0.8	0.6	1.3

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	-	0.31	< 0.05	0.2
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	-	3.3	0.96	2.9
Fluorene	mg/kg	0.05	MCERTS	< 0.05	-	3.3	0.84	4.1
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	-	15	5	29
Anthracene	mg/kg	0.05	MCERTS	< 0.05	-	4.7	1.4	7.9
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	-	24	10	44
Pyrene	mg/kg	0.05	MCERTS	< 0.05	-	21	9.1	31
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	-	11	4.6	19
Chrysene	mg/kg	0.05	MCERTS	< 0.05	-	7.8	3.5	13
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	-	9.7	4.1	18
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	-	4.3	2.3	7.1
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	-	8.9	4	14
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	-	3.9	1.7	7.5
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	-	0.87	0.43	1.8
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	-	4.8	2.2	9
Coronene	mg/kg	0.05	NONE	< 0.05	-	< 0.05	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	-	123	50.2	210
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	13	16	10	17	17
Barium (aqua regia extractable)	mg/kg	1	MCERTS	150	190	77	130	120
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	2.3	1.3	0.67	1.2	1.3
Boron (water soluble)	mg/kg	0.2	MCERTS	1.3	4.0	0.7	1.1	1.9
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.6	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Chromium (III)	mg/kg	1	NONE	61	50	31	45	34
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	61	50	32	45	35
Copper (aqua regia extractable)	mg/kg	1	MCERTS	22	25	26	30	62
Lead (aqua regia extractable)	mg/kg	1	MCERTS	20	15	30	28	170
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	0.8
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	2.2	0.91	1.1	1.0	1.4
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	30	41	22	40	27
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	74	85	60	75	70
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	56	71	88	84	140

Analytical Report Number: 21-53798
 Project / Site name: Holloway Prison
 Your Order No: 107879

Lab Sample Number	1752231	1752232	1752233	1752234	1752235
Sample Reference	BH04	BH04	BH02	BH02	TP09
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.50	1.00	0.50	1.70	1.00
Date Sampled	25/01/2021	25/01/2021	25/01/2021	25/01/2021	25/01/2021
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		

Monoaromatics & Oxygenates

Compound	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	20	10	4.9
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	4.2	4.4	310	83	35
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	13	8.4	500	91	52
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	27	8.7	270	76	59
TPH-CWG - Aliphatic > EC35 - EC44	mg/kg	8.4	NONE	9.4	< 8.4	130	63	22
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	44	22	1100	260	150
TPH-CWG - Aliphatic (EC5 - EC44)	mg/kg	10	NONE	54	22	1200	320	170

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	3.5	4.8	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	110	48	14
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10	280	100	110
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	< 10	180	110	100
TPH-CWG - Aromatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4	< 8.4	11	15	36
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	570	260	220
TPH-CWG - Aromatic (EC5 - EC44)	mg/kg	10	NONE	< 10	< 10	580	270	260

VOCs

Compound	µg/kg	1	ISO 17025	< 1.0	-	-	-	< 1.0
Chloromethane	µg/kg	1	NONE	< 1.0	-	-	-	< 1.0
Chloroethane	µg/kg	1	ISO 17025	< 1.0	-	-	-	< 1.0
Bromomethane	µg/kg	1	NONE	< 1.0	-	-	-	< 1.0
Vinyl Chloride	µg/kg	1	NONE	< 1.0	-	-	-	< 1.0
Trichlorofluoromethane	µg/kg	1	NONE	< 1.0	-	-	-	< 1.0
1,1-Dichloroethene	µg/kg	1	ISO 17025	< 1.0	-	-	-	< 1.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
2,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
Trichloromethane	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
1,1-Dichloropropene	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0	-	-	-	< 1.0
Benzene	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
Trichloroethene	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0

Analytical Report Number: 21-53798
 Project / Site name: Holloway Prison
 Your Order No: 107879

Lab Sample Number				1752231	1752232	1752233	1752234	1752235
Sample Reference				BH04	BH04	BH02	BH02	TP09
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	1.00	0.50	1.70	1.00
Date Sampled				25/01/2021	25/01/2021	25/01/2021	25/01/2021	25/01/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Dibromomethane	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
Bromodichloromethane	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	-	-	-	< 1.0
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	-	-	-	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0	-	-	-	< 1.0
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0	-	-	-	< 1.0
Tetrachloroethene	µg/kg	1	NONE	< 1.0	-	-	-	< 1.0
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0	-	-	-	< 1.0
Chlorobenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
p & m-Xylene	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
Styrene	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
Tribromomethane	µg/kg	1	NONE	< 1.0	-	-	-	< 1.0
o-Xylene	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
Isopropylbenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
Bromobenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0	-	-	-	< 1.0
2-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
4-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	-	-	-	< 1.0
tert-Butylbenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	-	-	-	< 1.0
sec-Butylbenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0	-	-	-	< 1.0
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0	-	-	-	< 1.0
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
Butylbenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	-	-	-	< 1.0
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
Hexachlorobutadiene	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	< 1.0	-	-	-	< 1.0

SVOCs

	mg/kg							
Aniline	mg/kg	0.1	NONE	< 0.1	-	-	-	< 0.1
Phenol	mg/kg	0.2	ISO 17025	< 0.2	-	-	-	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	-	-	-	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2	-	-	-	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	-	-	-	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	-	-	-	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	-	-	-	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1	-	-	-	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	-	-	-	< 0.3
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05	-	-	-	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	-	-	-	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	-	-	-	< 0.2
Isophorone	mg/kg	0.2	MCERTS	< 0.2	-	-	-	< 0.2
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3	-	-	-	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	-	-	-	< 0.3

Analytical Report Number: 21-53798
 Project / Site name: Holloway Prison
 Your Order No: 107879

Lab Sample Number	1752231				1752232	1752233	1752234	1752235
Sample Reference	BH04				BH04	BH02	BH02	TP09
Sample Number	None Supplied				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.50				1.00	0.50	1.70	1.00
Date Sampled	25/01/2021				25/01/2021	25/01/2021	25/01/2021	25/01/2021
Time Taken	None Supplied				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3	-	-	-	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	-	-	-	< 0.3
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	< 0.05
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	-	-	-	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	-	-	-	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1	-	-	-	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	-	-	-	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1	-	-	-	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2	-	-	-	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1	-	-	-	< 0.1
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	-	-	-	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	-	-	-	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1	-	-	-	< 0.1
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	0.2
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	2.9
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2	-	-	-	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	< 0.2	-	-	-	1.5
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3	-	-	-	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	-	-	-	< 0.2
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2	-	-	-	< 0.2
Fluorene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	4.1
Azobenzene	mg/kg	0.3	MCERTS	< 0.3	-	-	-	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	-	-	-	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3	-	-	-	< 0.3
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	29
Anthracene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	7.9
Carbazole	mg/kg	0.3	MCERTS	< 0.3	-	-	-	0.7
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2	-	-	-	< 0.2
Anthraquinone	mg/kg	0.3	MCERTS	< 0.3	-	-	-	< 0.3
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	44
Pyrene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	31
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3	-	-	-	< 0.3
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	19
Chrysene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	13
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	18
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	7.1
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	14
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	7.5
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	1.8
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	9.0

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number: 21-53798
 Project / Site name: Holloway Prison
 Your Order No: 107879

Lab Sample Number				1752236	1752237
Sample Reference				TP05	TP02
Sample Number				None Supplied	None Supplied
Depth (m)				0.50	0.50
Date Sampled				25/01/2021	25/01/2021
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		
Stone Content	%	0.1	NONE	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	22	5.1
Total mass of sample received	kg	0.001	NONE	1.2	1.2

Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	Amosite	-
Asbestos in Soil	Type	N/A	ISO 17025	Detected	Not-detected
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	< 0.001	-
Asbestos Quantification Total	%	0.001	ISO 17025	< 0.001	-

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	10	10.4
Organic Matter	%	0.1	MCERTS	0.4	0.8
Total Organic Carbon (TOC)	%	0.1	MCERTS	0.2	0.5

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	-
Acenaphthene	mg/kg	0.05	MCERTS	-	-
Fluorene	mg/kg	0.05	MCERTS	-	-
Phenanthrene	mg/kg	0.05	MCERTS	-	-
Anthracene	mg/kg	0.05	MCERTS	-	-
Fluoranthene	mg/kg	0.05	MCERTS	-	-
Pyrene	mg/kg	0.05	MCERTS	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-
Chrysene	mg/kg	0.05	MCERTS	-	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-
Coronene	mg/kg	0.05	NONE	-	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	-	-
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	17	11
Barium (aqua regia extractable)	mg/kg	1	MCERTS	61	220
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.82	0.54
Boron (water soluble)	mg/kg	0.2	MCERTS	1.3	1.4
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	0.9
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0
Chromium (III)	mg/kg	1	NONE	32	36
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	32	36
Copper (aqua regia extractable)	mg/kg	1	MCERTS	49	280
Lead (aqua regia extractable)	mg/kg	1	MCERTS	31	140
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	0.6
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	1.2	4.6
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	38	37
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	53	34
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	100	430

Analytical Report Number: 21-53798
 Project / Site name: Holloway Prison
 Your Order No: 107879

Lab Sample Number				1752236	1752237
Sample Reference				TP05	TP02
Sample Number				None Supplied	None Supplied
Depth (m)				0.50	0.50
Date Sampled				25/01/2021	25/01/2021
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		

Monoaromatics & Oxygenates

Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	12	49
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	24	160
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	59	240
TPH-CWG - Aliphatic > EC35 - EC44	mg/kg	8.4	NONE	31	69
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	96	450
TPH-CWG - Aliphatic (EC5 - EC44)	mg/kg	10	NONE	130	520

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	< 10
TPH-CWG - Aromatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4	< 8.4
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10
TPH-CWG - Aromatic (EC5 - EC44)	mg/kg	10	NONE	< 10	< 10

VOCs

Chloromethane	µg/kg	1	ISO 17025	-	-
Chloroethane	µg/kg	1	NONE	-	-
Bromomethane	µg/kg	1	ISO 17025	-	-
Vinyl Chloride	µg/kg	1	NONE	-	-
Trichlorofluoromethane	µg/kg	1	NONE	-	-
1,1-Dichloroethene	µg/kg	1	NONE	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	-
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-
1,1-Dichloroethane	µg/kg	1	MCERTS	-	-
2,2-Dichloropropane	µg/kg	1	MCERTS	-	-
Trichloromethane	µg/kg	1	MCERTS	-	-
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	-
1,2-Dichloroethane	µg/kg	1	MCERTS	-	-
1,1-Dichloropropene	µg/kg	1	MCERTS	-	-
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	-
Benzene	µg/kg	1	MCERTS	-	-
Tetrachloromethane	µg/kg	1	MCERTS	-	-
1,2-Dichloropropane	µg/kg	1	MCERTS	-	-
Trichloroethene	µg/kg	1	MCERTS	-	-

Analytical Report Number: 21-53798
 Project / Site name: Holloway Prison
 Your Order No: 107879

Lab Sample Number				1752236	1752237
Sample Reference				TP05	TP02
Sample Number				None Supplied	None Supplied
Depth (m)				0.50	0.50
Date Sampled				25/01/2021	25/01/2021
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		
Dibromomethane	µg/kg	1	MCERTS	-	-
Bromodichloromethane	µg/kg	1	MCERTS	-	-
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-
Toluene	µg/kg	1	MCERTS	-	-
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	-
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	-
Dibromochloromethane	µg/kg	1	ISO 17025	-	-
Tetrachloroethene	µg/kg	1	NONE	-	-
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	-
Chlorobenzene	µg/kg	1	MCERTS	-	-
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-
Ethylbenzene	µg/kg	1	MCERTS	-	-
p & m-Xylene	µg/kg	1	MCERTS	-	-
Styrene	µg/kg	1	MCERTS	-	-
Tribromomethane	µg/kg	1	NONE	-	-
o-Xylene	µg/kg	1	MCERTS	-	-
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-
Isopropylbenzene	µg/kg	1	MCERTS	-	-
Bromobenzene	µg/kg	1	MCERTS	-	-
n-Propylbenzene	µg/kg	1	ISO 17025	-	-
2-Chlorotoluene	µg/kg	1	MCERTS	-	-
4-Chlorotoluene	µg/kg	1	MCERTS	-	-
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	-
tert-Butylbenzene	µg/kg	1	MCERTS	-	-
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	-
sec-Butylbenzene	µg/kg	1	MCERTS	-	-
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	-	-
p-Isopropyltoluene	µg/kg	1	ISO 17025	-	-
1,2-Dichlorobenzene	µg/kg	1	MCERTS	-	-
1,4-Dichlorobenzene	µg/kg	1	MCERTS	-	-
Butylbenzene	µg/kg	1	MCERTS	-	-
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	-
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	-
Hexachlorobutadiene	µg/kg	1	MCERTS	-	-
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	-

SVOCs

Aniline	mg/kg	0.1	NONE	-	-
Phenol	mg/kg	0.2	ISO 17025	-	-
2-Chlorophenol	mg/kg	0.1	MCERTS	-	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	-
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	-
2-Methylphenol	mg/kg	0.3	MCERTS	-	-
Hexachloroethane	mg/kg	0.05	MCERTS	-	-
Nitrobenzene	mg/kg	0.3	MCERTS	-	-
4-Methylphenol	mg/kg	0.2	NONE	-	-
Isophorone	mg/kg	0.2	MCERTS	-	-
2-Nitrophenol	mg/kg	0.3	MCERTS	-	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	-

Analytical Report Number: 21-53798
 Project / Site name: Holloway Prison
 Your Order No: 107879

Lab Sample Number				1752236	1752237
Sample Reference				TP05	TP02
Sample Number				None Supplied	None Supplied
Depth (m)				0.50	0.50
Date Sampled				25/01/2021	25/01/2021
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	-
Naphthalene	mg/kg	0.05	MCERTS	-	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	-
4-Chloroaniline	mg/kg	0.1	NONE	-	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	-
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	-	-
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	-	-
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	-
Dimethylphthalate	mg/kg	0.1	MCERTS	-	-
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	-
Acenaphthene	mg/kg	0.05	MCERTS	-	-
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	-	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	-	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-
4-Nitroaniline	mg/kg	0.2	MCERTS	-	-
Fluorene	mg/kg	0.05	MCERTS	-	-
Azobenzene	mg/kg	0.3	MCERTS	-	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	-
Phenanthrene	mg/kg	0.05	MCERTS	-	-
Anthracene	mg/kg	0.05	MCERTS	-	-
Carbazole	mg/kg	0.3	MCERTS	-	-
Dibutyl phthalate	mg/kg	0.2	MCERTS	-	-
Anthraquinone	mg/kg	0.3	MCERTS	-	-
Fluoranthene	mg/kg	0.05	MCERTS	-	-
Pyrene	mg/kg	0.05	MCERTS	-	-
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-
Chrysene	mg/kg	0.05	MCERTS	-	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample



Analytical Report Number: 21-53798
Project / Site name: Holloway Prison
Your Order No: 107879

Certificate of Analysis - Asbestos Quantification

Methods:

Qualitative Analysis

The samples were analysed qualitatively for asbestos by polarising light and dispersion staining as described by the Health and Safety Executive in HSG 248.

Quantitative Analysis

The analysis was carried out using our documented in-house method A006-PL based on HSE Contract Research Report No: 83/1996: Development and Validation of an analytical method to determine the amount of asbestos in soils and loose aggregates (Davies et al, 1996) and HSG 248. Our method includes initial examination of the entire representative sample, then fractionation and detailed analysis of each fraction, with quantification by hand picking and weighing.

The limit of detection (reporting limit) of this method is 0.001 %.

The method has been validated using samples of at least 100 g, results for samples smaller than this should be interpreted with caution.

Both Qualitative and Quantitative Analyses are UKAS accredited.

Sample Number	Sample ID	Sample Depth (m)	Sample Weight (g)	Asbestos Containing Material Types Detected (ACM)	PLM Results	Asbestos by hand picking/weighing (%)	Total % Asbestos in Sample
1752233	BH02	0.50	186	Sheeting/Board Debris	Amosite	0.004	0.004
1752235	TP09	1.00	145	Loose Fibres	Chrysotile	0.001	0.001
1752236	TP05	0.50	140	Loose Fibres	Amosite	< 0.001	< 0.001

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

Analytical Report Number : 21-53798
Project / Site name: Holloway Prison

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
1752231	BH04	None Supplied	0.5	Brown clay and sand with gravel and brick.
1752232	BH04	None Supplied	1	Brown clay.
1752233	BH02	None Supplied	0.5	Brown clay and sand with gravel and vegetation.
1752234	BH02	None Supplied	1.7	Brown clay and loam with vegetation.
1752235	TP09	None Supplied	1	Brown clay and loam with gravel.
1752236	TP05	None Supplied	0.5	Brown clay and sand.
1752237	TP02	None Supplied	0.5	Brown clay and sand with gravel.

Analytical Report Number : 21-53798
Project / Site name: Holloway Prison

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
Speciated WAC-17 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270. MCERTS accredited except Coronene.	L064-PL	D	NONE
Cr (III) in soil	In-house method by calculation from total Cr and Cr VI.	In-house method by calculation	L080-PL	W	NONE
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L088/76-PL	W	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	NONE

Analytical Report Number : 21-53798
Project / Site name: Holloway Prison

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos Quantification - Gravimetric	Asbestos quantification by gravimetric method - in house method based on references.	HSE Report No: 83/1996, HSG 248, HSG 264 & SCA Blue Book (draft).	A006-PL	D	ISO 17025
D.O. for Gravimetric Quant if Screen/ID positive	Dependent option for Gravimetric Quant if Screen/ID positive scheduled.	In house asbestos methods A001 & A006.	A006-PL	D	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Sample Deviation Report



Analytical Report Number : 21-53798
Project / Site name: Holloway Prison

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
TP09	None Supplied	S	1752235	b	BTEX and MTBE in soil (Monoaromatics)	L073B-PL	b
TP09	None Supplied	S	1752235	b	TPHCWG (Soil)	L088/76-PL	b
TP09	None Supplied	S	1752235	b	Volatile organic compounds in soil	L073B-PL	b



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Analytical Report Number : 21-53804

Project / Site name:	Holloway Prison	Samples received on:	26/01/2021
Your job number:	WIE16172	Samples instructed on/ Analysis started on:	27/01/2021
Your order number:	107879	Analysis completed by:	03/02/2021
Report Issue Number:	1	Report issued on:	03/02/2021
Samples Analysed:	2 10:1 WAC samples		

Signed: *Karolina Marek*

Karolina Marek
PL Head of Reporting Team
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.

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Waste Acceptance Criteria Analytical Results							
Report No:	21-53804						
Client:	WATERMAN						
Location	Holloway Prison						
Lab Reference (Sample Number)	1752270 / 1752271						
Sampling Date	25/01/2021						
Sample ID	BH04						
Depth (m)	0.50						
				Limits			
				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill	
Solid Waste Analysis							
TOC (%)**	0.9				3%	5%	6%
Loss on Ignition (%) **	2.6				--	--	10%
BTEX (µg/kg) **	< 10				6000	--	--
Sum of PCBs (mg/kg) **	< 0.007				1	--	--
Mineral Oil (mg/kg)	< 10				500	--	--
Total PAH (WAC-17) (mg/kg)	0.96				100	--	--
pH (units)**	7.7				--	>6	--
Acid Neutralisation Capacity (mol / kg)	4.4				--	To be evaluated	To be evaluated
Eluate Analysis	10:1			10:1	Limit values for compliance leaching test		
(BS EN 12457 - 2 preparation utilising end over end leaching procedure)	mg/l			mg/kg	using BS EN 12457-2 at L/S 10 l/kg (mg/kg)		
Arsenic *	0.0167			0.125	0.5	2	25
Barium *	0.0264			0.199	20	100	300
Cadmium *	< 0.0001			< 0.0008	0.04	1	5
Chromium *	0.0006			0.0043	0.5	10	70
Copper *	0.013			0.10	2	50	100
Mercury *	< 0.0005			< 0.0050	0.01	0.2	2
Molybdenum *	0.0092			0.0690	0.5	10	30
Nickel *	0.0027			0.021	0.4	10	40
Lead *	0.0014			0.011	0.5	10	50
Antimony *	< 0.0017			< 0.017	0.06	0.7	5
Selenium *	< 0.0040			< 0.040	0.1	0.5	7
Zinc *	0.0051			0.038	4	50	200
Chloride *	1.3			10	800	15000	25000
Fluoride	1.6			12	10	150	500
Sulphate *	1400			10000	1000	20000	50000
TDS*	710			5400	4000	60000	100000
Phenol Index (Monohydric Phenols) *	< 0.010			< 0.10	1	-	-
DOC	1.96			14.7	500	800	1000
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	2.0						
Dry Matter (%)	80						
Moisture (%)	20						
Results are expressed on a dry weight basis, after correction for moisture content where applicable.				* = UKAS accredited (liquid eluate analysis only)			
Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation				** = MCERTS accredited			

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3.
This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous.

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Waste Acceptance Criteria Analytical Results							
Report No:	21-53804						
				Client: WATERMAN			
Location	Holloway Prison						
Lab Reference (Sample Number)	1752272 / 1752273			Landfill Waste Acceptance Criteria			
Sampling Date	25/01/2021			Limits			
Sample ID	BH02			Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill	
Depth (m)	0.50						
Solid Waste Analysis							
TOC (%)**	0.9				3%	5%	6%
Loss on Ignition (%) **	2.1				--	--	10%
BTEX (µg/kg) **	< 10				6000	--	--
Sum of PCBs (mg/kg) **	< 0.007				1	--	--
Mineral Oil (mg/kg)	780				500	--	--
Total PAH (WAC-17) (mg/kg)	119				100	--	--
pH (units)**	11.4				--	>6	--
Acid Neutralisation Capacity (mol / kg)	160				--	To be evaluated	To be evaluated
Eluate Analysis							
(BS EN 12457 - 2 preparation utilising end over end leaching procedure)	10:1			10:1	Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)		
	mg/l			mg/kg			
Arsenic *	< 0.0010			< 0.0100	0.5	2	25
Barium *	0.0371			0.330	20	100	300
Cadmium *	< 0.0001			< 0.0008	0.04	1	5
Chromium *	0.0007			0.0063	0.5	10	70
Copper *	0.0076			0.068	2	50	100
Mercury *	< 0.0005			< 0.0050	0.01	0.2	2
Molybdenum *	< 0.0004			< 0.0040	0.5	10	30
Nickel *	0.0045			0.040	0.4	10	40
Lead *	< 0.0010			< 0.010	0.5	10	50
Antimony *	< 0.0017			< 0.017	0.06	0.7	5
Selenium *	< 0.0040			< 0.040	0.1	0.5	7
Zinc *	0.0023			0.021	4	50	200
Chloride *	13			120	800	15000	25000
Fluoride	< 0.050			< 0.50	10	150	500
Sulphate *	40			360	1000	20000	50000
TDS*	180			1600	4000	60000	100000
Phenol Index (Monohydric Phenols) *	< 0.010			< 0.10	1	-	-
DOC	9.50			84.4	500	800	1000
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	2.0						
Dry Matter (%)	91						
Moisture (%)	8.8						
Results are expressed on a dry weight basis, after correction for moisture content where applicable. *= UKAS accredited (liquid eluate analysis only)							
Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation ** = MCERTS accredited							

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3. This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous.



Analytical Report Number : 21-53804
Project / Site name: Holloway Prison

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
1752270	BH04	None Supplied	0.5	Brown clay and sand with gravel and brick.
1752272	BH02	None Supplied	0.5	Brown clay and loam with gravel and vegetation.

Analytical Report Number : 21-53804
Project / Site name: Holloway Prison

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
BS EN 12457-2 (10:1) Leachate Prep	10:1 (as received, moisture adjusted) end over end extraction with water for 24 hours. Eluate filtered prior to analysis.	In-house method based on BSEN12457-2.	L043-PL	W	NONE
Acid neutralisation capacity of soil	Determination of acid neutralisation capacity by addition of acid or alkali followed by electronic probe.	In-house method based on Guidance on Sampling and Testing of Wastes to Meet Landfill Waste Acceptance"	L046-PL	W	NONE
Loss on ignition of soil @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace.	In house method.	L047-PL	D	MCERTS
Mineral Oil (Soil) C10 - C40	Determination of mineral oil fraction extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L076-PL	D	NONE
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Speciated WAC-17 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270. MCERTS accredited except Coronene.	L064-PL	D	NONE
PCB's By GC-MS in soil	Determination of PCB by extraction with acetone and hexane followed by GC-MS.	In-house method based on USEPA 8082	L027-PL	D	MCERTS
pH at 20oC in soil	Determination of pH in soil by addition of water followed by electrometric measurement.	In house method.	L005-PL	W	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
BTEX in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
Total BTEX in soil (Poland)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073-PL	W	MCERTS
Metals in leachate by ICP-OES	Determination of metals in leachate by acidification followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil"	L039-PL	W	ISO 17025
Chloride 10:1 WAC	Determination of Chloride colorimetrically by discrete analyser.	In house based on MEWAM Method ISBN 0117516260.	L082-PL	W	ISO 17025
Fluoride 10:1 WAC	Determination of fluoride in leachate by 1:1ratio with a buffer solution followed by Ion Selective Electrode.	In-house method based on Use of Total Ionic Strength Adjustment Buffer for Electrode Determination"	L033B-PL	W	ISO 17025
Sulphate 10:1 WAC	Determination of sulphate in leachate by ICP-OES	In-house method based on MEWAM 1986 Methods for the Determination of Metals in Soil"	L039-PL	W	ISO 17025
Total dissolved solids 10:1 WAC	Determination of total dissolved solids in water by electrometric measurement.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L004-PL	W	ISO 17025

Analytical Report Number : 21-53804
Project / Site name: Holloway Prison

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Monohydric phenols 10:1 WAC	Determination of phenols in leachate by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	ISO 17025
Dissolved organic carbon 10:1 WAC	Determination of dissolved inorganic carbon in leachate by TOC/DOC NDIR Analyser.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L037-PL	W	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.



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Analytical Report Number : 21-54270

Project / Site name:	Holloway Prison	Samples received on:	21/01/2021
Your job number:	WIE16172	Samples instructed on/ Analysis started on:	01/02/2021
Your order number:	107903	Analysis completed by:	05/02/2021
Report Issue Number:	1	Report issued on:	05/02/2021
Samples Analysed:	1 soil sample		

Signed: 

Agnieszka Czerwińska
Technical Reviewer (Reporting Team)
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 21-54270
 Project / Site name: Holloway Prison
 Your Order No: 107903

Lab Sample Number				1755102
Sample Reference				BH15
Sample Number				None Supplied
Depth (m)				0.50
Date Sampled				28/01/2021
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	
Stone Content	%	0.1	NONE	< 0.1
Moisture Content	%	0.01	NONE	12
Total mass of sample received	kg	0.001	NONE	1.2

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected
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General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.2
Organic Matter	%	0.1	MCERTS	2.9
Fraction Organic Carbon (FOC)	N/A	0.001	MCERTS	0.017
Total Organic Carbon (TOC)	%	0.1	MCERTS	1.7

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	14
Barium (aqua regia extractable)	mg/kg	1	MCERTS	86
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.82
Boron (water soluble)	mg/kg	0.2	MCERTS	0.9
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0
Chromium (III)	mg/kg	1	NONE	28
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	28
Copper (aqua regia extractable)	mg/kg	1	MCERTS	47
Lead (aqua regia extractable)	mg/kg	1	MCERTS	160
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	0.3
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	1.5
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	21
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	51
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	100

Monoaromatics & Oxygenates

Benzene	µg/kg	1	MCERTS	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0

Analytical Report Number: 21-54270
 Project / Site name: Holloway Prison
 Your Order No: 107903

Lab Sample Number				1755102
Sample Reference				BH15
Sample Number				None Supplied
Depth (m)				0.50
Date Sampled				28/01/2021
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0
TPH-CWG - Aliphatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10
TPH-CWG - Aliphatic (EC5 - EC44)	mg/kg	10	NONE	< 10

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	18
TPH-CWG - Aromatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	25
TPH-CWG - Aromatic (EC5 - EC44)	mg/kg	10	NONE	25

U/S = Unsuitable Sample I/S = Insufficient Sample



Analytical Report Number : 21-54270
Project / Site name: Holloway Prison

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
1755102	BH15	None Supplied	0.5	Brown loam and clay with gravel and vegetation.

Analytical Report Number : 21-54270
Project / Site name: Holloway Prison

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Fraction of Organic Carbon in soil	Determination of fraction of organic carbon in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
Cr (III) in soil	In-house method by calculation from total Cr and Cr VI.	In-house method by calculation	L080-PL	W	NONE
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L088/76-PL	W	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	NONE
D.O. for Gravimetric Quant if Screen/ID positive	Dependent option for Gravimetric Quant if Screen/ID positive scheduled.	In house asbestos methods A001 & A006.	A006-PL	D	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.



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Analytical Report Number : 21-54273

Project / Site name:	Holloway Prison	Samples received on:	28/01/2021
Your job number:	WIE16172	Samples instructed on/ Analysis started on:	29/01/2021
Your order number:	107903	Analysis completed by:	08/02/2021
Report Issue Number:	1	Report issued on:	08/02/2021
Samples Analysed:	18 soil samples		

Signed: *Karolina Marek*

Karolina Marek
PL Head of Reporting Team
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 21-54273
 Project / Site name: Holloway Prison
 Your Order No: 107903

Lab Sample Number				1755104	1755105	1755106	1755107	1755108
Sample Reference				TP04	TP04	TP01	SA01	SA02
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.60	2.50	0.50	1.00	0.50
Date Sampled				26/01/2021	26/01/2021	26/01/2021	26/01/2021	26/01/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	11	15	8.6	10	8.9
Total mass of sample received	kg	0.001	NONE	0.9	0.7	0.7	0.5	0.7

Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	-	-	-	Chrysotile
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	-	Not-detected	Not-detected	Detected
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	-	-	-	-	< 0.001
Asbestos Quantification Total	%	0.001	ISO 17025	-	-	-	-	< 0.001

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.0	8.3	10.6	8.0	9.1
Organic Matter	%	0.1	MCERTS	0.5	0.2	< 0.1	< 0.1	2.3
Fraction Organic Carbon (FOC)	N/A	0.001	MCERTS	0.0027	0.001	< 0.0010	< 0.0010	0.014
Total Organic Carbon (TOC)	%	0.1	MCERTS	0.3	0.1	< 0.1	< 0.1	1.4

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-	-
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-	-
Fluorene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-	-
Phenanthrene	mg/kg	0.05	MCERTS	0.49	-	< 0.05	-	-
Anthracene	mg/kg	0.05	MCERTS	0.2	-	< 0.05	-	-
Fluoranthene	mg/kg	0.05	MCERTS	1.4	-	< 0.05	-	-
Pyrene	mg/kg	0.05	MCERTS	1.6	-	< 0.05	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	1.1	-	< 0.05	-	-
Chrysene	mg/kg	0.05	MCERTS	0.95	-	< 0.05	-	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	1.3	-	< 0.05	-	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	0.48	-	< 0.05	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	1.2	-	< 0.05	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.6	-	< 0.05	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.69	-	< 0.05	-	-
Coronene	mg/kg	0.05	NONE	< 0.05	-	< 0.05	-	-

Total PAH

Total WAC-17 PAHs	mg/kg	0.85	NONE	10.1	-	< 0.85	-	-
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Analytical Report Number: 21-54273
 Project / Site name: Holloway Prison
 Your Order No: 107903

Lab Sample Number	1755104				1755105	1755106	1755107	1755108
Sample Reference	TP04				TP04	TP01	SA01	SA02
Sample Number	None Supplied				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.60				2.50	0.50	1.00	0.50
Date Sampled	26/01/2021				26/01/2021	26/01/2021	26/01/2021	26/01/2021
Time Taken	None Supplied				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

Heavy Metals / Metalloids

Element	Unit	Limit	MCERTS	1755104	1755105	1755106	1755107	1755108
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	16	20	29	16	12
Barium (aqua regia extractable)	mg/kg	1	MCERTS	110	28	36	24	130
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.91	1.3	0.74	1.2	0.68
Boron (water soluble)	mg/kg	0.2	MCERTS	3.2	1.8	0.6	0.5	0.4
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Chromium (III)	mg/kg	1	NONE	30	48	30	41	19
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	30	48	30	41	19
Copper (aqua regia extractable)	mg/kg	1	MCERTS	28	31	18	35	45
Lead (aqua regia extractable)	mg/kg	1	MCERTS	100	18	15	16	130
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	0.8
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	1.3	0.57	1.4	0.54	1.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	28	51	30	45	19
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	58	91	71	82	40
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	78	87	100	80	190

Monoaromatics & Oxygenates

Compound	Unit	Limit	MCERTS	1755104	1755105	1755106	1755107	1755108
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH-CWG	Unit	Limit	MCERTS	1755104	1755105	1755106	1755107	1755108
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	9.2	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	29	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	52	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4	< 8.4	< 8.4
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	90	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic (EC5 - EC44)	mg/kg	10	NONE	90	< 10	< 10	< 10	< 10

TPH-CWG	Unit	Limit	MCERTS	1755104	1755105	1755106	1755107	1755108
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	7.1
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	16	< 10	< 10	< 10	31
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	41	< 10	< 10	< 10	64
TPH-CWG - Aromatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4	< 8.4	< 8.4
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	57	< 10	< 10	< 10	100
TPH-CWG - Aromatic (EC5 - EC44)	mg/kg	10	NONE	57	< 10	< 10	< 10	100

Analytical Report Number: 21-54273
 Project / Site name: Holloway Prison
 Your Order No: 107903

Lab Sample Number	1755104				1755105	1755106	1755107	1755108
Sample Reference	TP04				TP04	TP01	SA01	SA02
Sample Number	None Supplied				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.60				2.50	0.50	1.00	0.50
Date Sampled	26/01/2021				26/01/2021	26/01/2021	26/01/2021	26/01/2021
Time Taken	None Supplied				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

VOCs

Compound	Units	Limit of detection	Accreditation Status	1755104	1755105	1755106	1755107	1755108
Chloromethane	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
Chloroethane	µg/kg	1	NONE	< 1.0	-	-	-	-
Bromomethane	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
Vinyl Chloride	µg/kg	1	NONE	< 1.0	-	-	-	-
Trichlorofluoromethane	µg/kg	1	NONE	< 1.0	-	-	-	-
1,1-Dichloroethene	µg/kg	1	NONE	< 1.0	-	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0	-	-	-	-
2,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Trichloromethane	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,1-Dichloropropene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0	-	-	-	-
Benzene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Trichloroethene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Dibromomethane	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Bromodichloromethane	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
Toluene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
Tetrachloroethene	µg/kg	1	NONE	< 1.0	-	-	-	-
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
Chlorobenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
p & m-Xylene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Styrene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Tribromomethane	µg/kg	1	NONE	< 1.0	-	-	-	-
o-Xylene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Isopropylbenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Bromobenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
2-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
4-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
tert-Butylbenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
sec-Butylbenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0	-	-	-	-

Analytical Report Number: 21-54273
 Project / Site name: Holloway Prison
 Your Order No: 107903

Lab Sample Number	1755104	1755105	1755106	1755107	1755108			
Sample Reference	TP04	TP04	TP01	SA01	SA02			
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth (m)	0.60	2.50	0.50	1.00	0.50			
Date Sampled	26/01/2021	26/01/2021	26/01/2021	26/01/2021	26/01/2021			
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Butylbenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Hexachlorobutadiene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	< 1.0	-	-	-	-

SVOCs

Aniline	mg/kg	0.1	NONE	< 0.1	-	-	-	-
Phenol	mg/kg	0.2	ISO 17025	< 0.2	-	-	-	-
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	-	-	-	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2	-	-	-	-
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	-	-	-	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	-	-	-	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	-	-	-	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1	-	-	-	-
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	-	-	-	-
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	-	-	-	-
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	-	-	-	-
Isophorone	mg/kg	0.2	MCERTS	< 0.2	-	-	-	-
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3	-	-	-	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	-	-	-	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	-	-	-	-
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	-	-	-	-
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	-	-	-	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1	-	-	-	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	-	-	-	-
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1	-	-	-	-
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2	-	-	-	-
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1	-	-	-	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	-	-	-	-
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	-	-	-	-
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1	-	-	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2	-	-	-	-
Dibenzofuran	mg/kg	0.2	MCERTS	< 0.2	-	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3	-	-	-	-
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	-	-	-	-
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2	-	-	-	-
Fluorene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
Azobenzene	mg/kg	0.3	MCERTS	< 0.3	-	-	-	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	-	-	-	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3	-	-	-	-
Phenanthrene	mg/kg	0.05	MCERTS	0.49	-	-	-	-
Anthracene	mg/kg	0.05	MCERTS	0.2	-	-	-	-
Carbazole	mg/kg	0.3	MCERTS	< 0.3	-	-	-	-
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2	-	-	-	-
Anthraquinone	mg/kg	0.3	MCERTS	< 0.3	-	-	-	-

Analytical Report Number: 21-54273
 Project / Site name: Holloway Prison
 Your Order No: 107903

Lab Sample Number				1755104	1755105	1755106	1755107	1755108
Sample Reference				TP04	TP04	TP01	SA01	SA02
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.60	2.50	0.50	1.00	0.50
Date Sampled				26/01/2021	26/01/2021	26/01/2021	26/01/2021	26/01/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Fluoranthene	mg/kg	0.05	MCERTS	1.4	-	-	-	-
Pyrene	mg/kg	0.05	MCERTS	1.6	-	-	-	-
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3	-	-	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	1.1	-	-	-	-
Chrysene	mg/kg	0.05	MCERTS	0.95	-	-	-	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	1.3	-	-	-	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	0.48	-	-	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	1.2	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.6	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.69	-	-	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number: 21-54273
 Project / Site name: Holloway Prison
 Your Order No: 107903

Lab Sample Number	1755109	1755110	1755111	1755112	1755113			
Sample Reference	TP06	TP10	SA03	TP08	TP08			
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth (m)	0.50	0.70	0.20	0.50	2.00			
Date Sampled	26/01/2021	26/01/2021	27/01/2021	27/01/2021	27/01/2021			
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	17	14	4.3	19	14
Total mass of sample received	kg	0.001	NONE	0.9	0.9	0.7	0.7	0.7

Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	Crocidolite	-	-	-
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Detected	Not-detected	Not-detected	-
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	-	0.015	-	-	-
Asbestos Quantification Total	%	0.001	ISO 17025	-	0.015	-	-	-

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.4	9.0	8.9	8.2	7.9
Organic Matter	%	0.1	MCERTS	1.4	0.6	2	0.2	< 0.1
Fraction Organic Carbon (FOC)	N/A	0.001	MCERTS	0.0082	0.0032	0.012	0.0013	< 0.0010
Total Organic Carbon (TOC)	%	0.1	MCERTS	0.8	0.3	1.2	0.1	< 0.1

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	-	-
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	-	-
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	-	-
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	0.59	-	-	-
Anthracene	mg/kg	0.05	MCERTS	< 0.05	0.18	-	-	-
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	2.6	-	-	-
Pyrene	mg/kg	0.05	MCERTS	< 0.05	2.4	-	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	2.5	-	-	-
Chrysene	mg/kg	0.05	MCERTS	< 0.05	2.2	-	-	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	3.9	-	-	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	2.0	-	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	3.8	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	2.5	-	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	3.1	-	-	-
Coronene	mg/kg	0.05	NONE	< 0.05	< 0.05	-	-	-

Total PAH

Total WAC-17 PAHs	mg/kg	0.85	NONE	< 0.85	25.8	-	-	-
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Analytical Report Number: 21-54273
 Project / Site name: Holloway Prison
 Your Order No: 107903

Lab Sample Number				1755109	1755110	1755111	1755112	1755113
Sample Reference				TP06	TP10	SA03	TP08	TP08
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	0.70	0.20	0.50	2.00
Date Sampled				26/01/2021	26/01/2021	27/01/2021	27/01/2021	27/01/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	17	22	2.2	16	21
Barium (aqua regia extractable)	mg/kg	1	MCERTS	140	85	14	71	36
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.4	0.82	0.15	1.1	1.3
Boron (water soluble)	mg/kg	0.2	MCERTS	0.9	0.4	< 0.2	1	1.4
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	0.9	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Chromium (III)	mg/kg	1	NONE	44	34	6.2	40	50
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	44	34	6.2	40	50
Copper (aqua regia extractable)	mg/kg	1	MCERTS	37	41	18	26	25
Lead (aqua regia extractable)	mg/kg	1	MCERTS	130	150	20	54	16
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	0.6	< 0.3	< 0.3	< 0.3	< 0.3
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	1.7	1.3	0.7	0.6	0.58
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	41	30	6.7	37	45
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	84	58	19	72	83
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	88	130	30	93	76

Monoaromatics & Oxygenates

Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	12	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	68	< 8.0
TPH-CWG - Aliphatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4	< 8.4	< 8.4
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10	79	< 10
TPH-CWG - Aliphatic (EC5 - EC44)	mg/kg	10	NONE	< 10	< 10	< 10	79	< 10

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	14	< 10	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	41	< 10	< 10	< 10
TPH-CWG - Aromatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4	< 8.4	< 8.4
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	55	< 10	< 10	< 10
TPH-CWG - Aromatic (EC5 - EC44)	mg/kg	10	NONE	< 10	55	< 10	< 10	< 10



Environmental Science

Analytical Report Number: 21-54273

Project / Site name: Holloway Prison

Your Order No: 107903

Lab Sample Number				1755109	1755110	1755111	1755112	1755113
Sample Reference				TP06	TP10	SA03	TP08	TP08
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	0.70	0.20	0.50	2.00
Date Sampled				26/01/2021	26/01/2021	27/01/2021	27/01/2021	27/01/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	-	-	-	-	-
Chloroethane	µg/kg	1	NONE	-	-	-	-	-
Bromomethane	µg/kg	1	ISO 17025	-	-	-	-	-
Vinyl Chloride	µg/kg	1	NONE	-	-	-	-	-
Trichlorofluoromethane	µg/kg	1	NONE	-	-	-	-	-
1,1-Dichloroethene	µg/kg	1	NONE	-	-	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	-	-	-	-
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	-	-
1,1-Dichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
2,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	-	-
Trichloromethane	µg/kg	1	MCERTS	-	-	-	-	-
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,2-Dichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,1-Dichloropropene	µg/kg	1	MCERTS	-	-	-	-	-
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	-	-	-	-
Benzene	µg/kg	1	MCERTS	-	-	-	-	-
Tetrachloromethane	µg/kg	1	MCERTS	-	-	-	-	-
1,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	-	-
Trichloroethene	µg/kg	1	MCERTS	-	-	-	-	-
Dibromomethane	µg/kg	1	MCERTS	-	-	-	-	-
Bromodichloromethane	µg/kg	1	MCERTS	-	-	-	-	-
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	-	-
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	-	-
Toluene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	-	-	-	-
Dibromochloromethane	µg/kg	1	ISO 17025	-	-	-	-	-
Tetrachloroethene	µg/kg	1	NONE	-	-	-	-	-
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	-	-	-	-
Chlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-	-
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
p & m-Xylene	µg/kg	1	MCERTS	-	-	-	-	-
Styrene	µg/kg	1	MCERTS	-	-	-	-	-
Tribromomethane	µg/kg	1	NONE	-	-	-	-	-
o-Xylene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-	-
Isopropylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
Bromobenzene	µg/kg	1	MCERTS	-	-	-	-	-
n-Propylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
2-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	-	-
4-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	-	-
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
tert-Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
sec-Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	-	-	-	-	-
p-Isopropyltoluene	µg/kg	1	ISO 17025	-	-	-	-	-

Analytical Report Number: 21-54273
 Project / Site name: Holloway Prison
 Your Order No: 107903

Lab Sample Number	1755109	1755110	1755111	1755112	1755113			
Sample Reference	TP06	TP10	SA03	TP08	TP08			
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth (m)	0.50	0.70	0.20	0.50	2.00			
Date Sampled	26/01/2021	26/01/2021	27/01/2021	27/01/2021	27/01/2021			
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
1,2-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,4-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	-	-	-	-
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
Hexachlorobutadiene	µg/kg	1	MCERTS	-	-	-	-	-
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	-	-	-	-

SVOCs

Aniline	mg/kg	0.1	NONE	-	-	-	-	-
Phenol	mg/kg	0.2	ISO 17025	-	-	-	-	-
2-Chlorophenol	mg/kg	0.1	MCERTS	-	-	-	-	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	-	-	-	-
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	-	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	-	-	-	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	-	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	-	-	-	-
2-Methylphenol	mg/kg	0.3	MCERTS	-	-	-	-	-
Hexachloroethane	mg/kg	0.05	MCERTS	-	-	-	-	-
Nitrobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
4-Methylphenol	mg/kg	0.2	NONE	-	-	-	-	-
Isophorone	mg/kg	0.2	MCERTS	-	-	-	-	-
2-Nitrophenol	mg/kg	0.3	MCERTS	-	-	-	-	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	-	-	-	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
Naphthalene	mg/kg	0.05	MCERTS	-	-	-	-	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	-	-	-	-
4-Chloroaniline	mg/kg	0.1	NONE	-	-	-	-	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	-	-	-	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	-	-	-	-
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	-	-	-	-	-
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	-	-	-	-	-
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-	-	-	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	-	-	-	-
Dimethylphthalate	mg/kg	0.1	MCERTS	-	-	-	-	-
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	-	-	-	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	-	-
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	-	-
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	-	-	-	-	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	-	-	-	-	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	-	-	-
4-Nitroaniline	mg/kg	0.2	MCERTS	-	-	-	-	-
Fluorene	mg/kg	0.05	MCERTS	-	-	-	-	-
Azobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	-	-	-	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
Phenanthrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Carbazole	mg/kg	0.3	MCERTS	-	-	-	-	-
Dibutyl phthalate	mg/kg	0.2	MCERTS	-	-	-	-	-
Anthraquinone	mg/kg	0.3	MCERTS	-	-	-	-	-

Analytical Report Number: 21-54273
 Project / Site name: Holloway Prison
 Your Order No: 107903

Lab Sample Number				1755109	1755110	1755111	1755112	1755113
Sample Reference				TP06	TP10	SA03	TP08	TP08
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	0.70	0.20	0.50	2.00
Date Sampled				26/01/2021	26/01/2021	27/01/2021	27/01/2021	27/01/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	-	-	-	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Chrysene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	-	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number: 21-54273
 Project / Site name: Holloway Prison
 Your Order No: 107903

Lab Sample Number	1755114				1755115	1755116	1755117	1755118
Sample Reference	TP03				TP07	BH14	BH14	BH09
Sample Number	None Supplied				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.50				1.00	1.00	3.00	0.50
Date Sampled	27/01/2021				27/01/2021	27/01/2021	27/01/2021	27/01/2021
Time Taken	None Supplied				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	18	16	8.1	14	10
Total mass of sample received	kg	0.001	NONE	0.7	0.7	1.2	0.7	1.1

Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	-	-	-	-
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	-	Not-detected
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	-	-	-	-	-
Asbestos Quantification Total	%	0.001	ISO 17025	-	-	-	-	-

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.6	7.8	9.6	8.0	9.6
Organic Matter	%	0.1	MCERTS	1.1	0.6	< 0.1	0.1	0.6
Fraction Organic Carbon (FOC)	N/A	0.001	MCERTS	0.0064	0.0037	< 0.0010	< 0.0010	0.0032
Total Organic Carbon (TOC)	%	0.1	MCERTS	0.6	0.4	< 0.1	< 0.1	0.3

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	-	< 0.05	-	-	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	-	< 0.05	-	-	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	-	< 0.05	-	-	< 0.05
Fluorene	mg/kg	0.05	MCERTS	-	< 0.05	-	-	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	-	< 0.05	-	-	< 0.05
Anthracene	mg/kg	0.05	MCERTS	-	< 0.05	-	-	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	-	< 0.05	-	-	< 0.05
Pyrene	mg/kg	0.05	MCERTS	-	< 0.05	-	-	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	< 0.05	-	-	< 0.05
Chrysene	mg/kg	0.05	MCERTS	-	< 0.05	-	-	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	< 0.05	-	-	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	< 0.05	-	-	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	< 0.05	-	-	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	< 0.05	-	-	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	< 0.05	-	-	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	< 0.05	-	-	< 0.05
Coronene	mg/kg	0.05	NONE	-	< 0.05	-	-	< 0.05

Total PAH

Total WAC-17 PAHs	mg/kg	0.85	NONE	-	< 0.85	-	-	< 0.85
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Analytical Report Number: 21-54273
 Project / Site name: Holloway Prison
 Your Order No: 107903

Lab Sample Number				1755114	1755115	1755116	1755117	1755118
Sample Reference				TP03	TP07	BH14	BH14	BH09
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	1.00	1.00	3.00	0.50
Date Sampled				27/01/2021	27/01/2021	27/01/2021	27/01/2021	27/01/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	17	12	16	17	14
Barium (aqua regia extractable)	mg/kg	1	MCERTS	110	70	51	34	90
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.4	1.1	0.73	1.2	0.79
Boron (water soluble)	mg/kg	0.2	MCERTS	1.7	1.7	0.6	2.0	0.8
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Chromium (III)	mg/kg	1	NONE	42	45	28	48	25
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	42	45	29	48	25
Copper (aqua regia extractable)	mg/kg	1	MCERTS	46	18	24	32	42
Lead (aqua regia extractable)	mg/kg	1	MCERTS	130	22	40	16	88
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	1.1	1.2	2.5	0.71	1.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	40	27	25	42	23
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	83	85	47	85	46
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	130	62	31	92	310

Monoaromatics & Oxygenates

Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4	< 8.4	< 8.4
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic (EC5 - EC44)	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	14	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	31	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4	< 8.4	< 8.4
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	45	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic (EC5 - EC44)	mg/kg	10	NONE	45	< 10	< 10	< 10	< 10



Analytical Report Number: 21-54273
 Project / Site name: Holloway Prison
 Your Order No: 107903

Lab Sample Number				1755114	1755115	1755116	1755117	1755118
Sample Reference				TP03	TP07	BH14	BH14	BH09
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	1.00	1.00	3.00	0.50
Date Sampled				27/01/2021	27/01/2021	27/01/2021	27/01/2021	27/01/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	-	< 1.0	-	-	< 1.0
Chloroethane	µg/kg	1	NONE	-	< 1.0	-	-	< 1.0
Bromomethane	µg/kg	1	ISO 17025	-	< 1.0	-	-	< 1.0
Vinyl Chloride	µg/kg	1	NONE	-	< 1.0	-	-	< 1.0
Trichlorofluoromethane	µg/kg	1	NONE	-	< 1.0	-	-	< 1.0
1,1-Dichloroethene	µg/kg	1	NONE	-	< 1.0	-	-	< 1.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	< 1.0	-	-	< 1.0
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
1,1-Dichloroethane	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
2,2-Dichloropropane	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
Trichloromethane	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
1,2-Dichloroethane	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
1,1-Dichloropropene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	< 1.0	-	-	< 1.0
Benzene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
Tetrachloromethane	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
1,2-Dichloropropane	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
Trichloroethene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
Dibromomethane	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
Bromodichloromethane	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	< 1.0	-	-	< 1.0
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	< 1.0	-	-	< 1.0
Toluene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	< 1.0	-	-	< 1.0
Dibromochloromethane	µg/kg	1	ISO 17025	-	< 1.0	-	-	< 1.0
Tetrachloroethene	µg/kg	1	NONE	-	< 1.0	-	-	< 1.0
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	< 1.0	-	-	< 1.0
Chlorobenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
p & m-Xylene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
Styrene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
Tribromomethane	µg/kg	1	NONE	-	< 1.0	-	-	< 1.0
o-Xylene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
Isopropylbenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
Bromobenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
n-Propylbenzene	µg/kg	1	ISO 17025	-	< 1.0	-	-	< 1.0
2-Chlorotoluene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
4-Chlorotoluene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	< 1.0	-	-	< 1.0
tert-Butylbenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	< 1.0	-	-	< 1.0
sec-Butylbenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	-	< 1.0	-	-	< 1.0
p-Isopropyltoluene	µg/kg	1	ISO 17025	-	< 1.0	-	-	< 1.0



Analytical Report Number: 21-54273
 Project / Site name: Holloway Prison
 Your Order No: 107903

Lab Sample Number	1755114	1755115	1755116	1755117	1755118			
Sample Reference	TP03	TP07	BH14	BH14	BH09			
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth (m)	0.50	1.00	1.00	3.00	0.50			
Date Sampled	27/01/2021	27/01/2021	27/01/2021	27/01/2021	27/01/2021			
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
1,2-Dichlorobenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
1,4-Dichlorobenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
Butylbenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	< 1.0	-	-	< 1.0
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
Hexachlorobutadiene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	< 1.0	-	-	< 1.0

SVOCs

Aniline	mg/kg	0.1	NONE	-	< 0.1	-	-	< 0.1
Phenol	mg/kg	0.2	ISO 17025	-	< 0.2	-	-	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	-	< 0.1	-	-	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	< 0.2	-	-	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-	< 0.2	-	-	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	< 0.1	-	-	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	< 0.2	-	-	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	< 0.1	-	-	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	-	< 0.3	-	-	< 0.3
Hexachloroethane	mg/kg	0.05	MCERTS	-	< 0.05	-	-	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	-	< 0.3	-	-	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	-	< 0.2	-	-	< 0.2
Isophorone	mg/kg	0.2	MCERTS	-	< 0.2	-	-	< 0.2
2-Nitrophenol	mg/kg	0.3	MCERTS	-	< 0.3	-	-	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	< 0.3	-	-	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	< 0.3	-	-	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	< 0.3	-	-	< 0.3
Naphthalene	mg/kg	0.05	MCERTS	-	< 0.05	-	-	< 0.05
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	< 0.3	-	-	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	-	< 0.1	-	-	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	< 0.1	-	-	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	< 0.1	-	-	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	-	< 0.1	-	-	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	-	< 0.2	-	-	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	-	< 0.1	-	-	< 0.1
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	< 0.1	-	-	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	-	< 0.1	-	-	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	-	< 0.1	-	-	< 0.1
Acenaphthylene	mg/kg	0.05	MCERTS	-	< 0.05	-	-	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	-	< 0.05	-	-	< 0.05
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	-	< 0.2	-	-	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	-	< 0.2	-	-	< 0.2
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	-	< 0.3	-	-	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	-	< 0.2	-	-	< 0.2
4-Nitroaniline	mg/kg	0.2	MCERTS	-	< 0.2	-	-	< 0.2
Fluorene	mg/kg	0.05	MCERTS	-	< 0.05	-	-	< 0.05
Azobenzene	mg/kg	0.3	MCERTS	-	< 0.3	-	-	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	< 0.2	-	-	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	< 0.3	-	-	< 0.3
Phenanthrene	mg/kg	0.05	MCERTS	-	< 0.05	-	-	< 0.05
Anthracene	mg/kg	0.05	MCERTS	-	< 0.05	-	-	< 0.05
Carbazole	mg/kg	0.3	MCERTS	-	< 0.3	-	-	< 0.3
Dibutyl phthalate	mg/kg	0.2	MCERTS	-	< 0.2	-	-	< 0.2
Anthraquinone	mg/kg	0.3	MCERTS	-	< 0.3	-	-	< 0.3

Analytical Report Number: 21-54273
 Project / Site name: Holloway Prison
 Your Order No: 107903

Lab Sample Number				1755114	1755115	1755116	1755117	1755118
Sample Reference				TP03	TP07	BH14	BH14	BH09
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	1.00	1.00	3.00	0.50
Date Sampled				27/01/2021	27/01/2021	27/01/2021	27/01/2021	27/01/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Fluoranthene	mg/kg	0.05	MCERTS	-	< 0.05	-	-	< 0.05
Pyrene	mg/kg	0.05	MCERTS	-	< 0.05	-	-	< 0.05
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	-	< 0.3	-	-	< 0.3
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	< 0.05	-	-	< 0.05
Chrysene	mg/kg	0.05	MCERTS	-	< 0.05	-	-	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	< 0.05	-	-	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	< 0.05	-	-	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	< 0.05	-	-	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	< 0.05	-	-	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	< 0.05	-	-	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	< 0.05	-	-	< 0.05

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number: 21-54273
 Project / Site name: Holloway Prison
 Your Order No: 107903

Lab Sample Number				1755119	1755120	1755121
Sample Reference				BH21	BH21	BH21
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				1.00	4.00	5.00
Date Sampled				27/01/2021	27/01/2021	27/01/2021
Time Taken				None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status			
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	14	17	18
Total mass of sample received	kg	0.001	NONE	0.7	0.7	0.7

Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	-	-
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	-	-
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	-	-	-
Asbestos Quantification Total	%	0.001	ISO 17025	-	-	-

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.0	7.9	-
Organic Matter	%	0.1	MCERTS	1.1	0.8	-
Fraction Organic Carbon (FOC)	N/A	0.001	MCERTS	0.0062	0.0045	-
Total Organic Carbon (TOC)	%	0.1	MCERTS	0.6	0.5	-

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	-	-
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	-	-
Fluorene	mg/kg	0.05	MCERTS	< 0.05	-	-
Phenanthrene	mg/kg	0.05	MCERTS	0.9	-	-
Anthracene	mg/kg	0.05	MCERTS	0.26	-	-
Fluoranthene	mg/kg	0.05	MCERTS	1.3	-	-
Pyrene	mg/kg	0.05	MCERTS	1.1	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.74	-	-
Chrysene	mg/kg	0.05	MCERTS	0.56	-	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	0.62	-	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	0.43	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.69	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.28	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.38	-	-
Coronene	mg/kg	0.05	NONE	< 0.05	-	-

Total PAH

Total WAC-17 PAHs	mg/kg	0.85	NONE	7.25	-	-
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Analytical Report Number: 21-54273
 Project / Site name: Holloway Prison
 Your Order No: 107903

Lab Sample Number				1755119	1755120	1755121
Sample Reference				BH21	BH21	BH21
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				1.00	4.00	5.00
Date Sampled				27/01/2021	27/01/2021	27/01/2021
Time Taken				None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status			
Heavy Metals / Metalloids						
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	13	13	-
Barium (aqua regia extractable)	mg/kg	1	MCERTS	24	25	-
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.2	1.2	-
Boron (water soluble)	mg/kg	0.2	MCERTS	0.3	1.5	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	-
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	-
Chromium (III)	mg/kg	1	NONE	47	45	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	47	45	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	38	36	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	18	17	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	-
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	0.52	0.51	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	45	45	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	-
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	84	79	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	87	82	-

Monoaromatics & Oxygenates

Compound	µg/kg	Limit of detection	Accreditation Status	1755119	1755120	1755121
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic > EC5 - EC6	mg/kg	Limit of detection	Accreditation Status	1755119	1755120	1755121
TPH-CWG - Aliphatic > EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic > EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic > EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic > EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic > EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0
TPH-CWG - Aliphatic > EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic > EC21 - EC35	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10
TPH-CWG - Aliphatic (EC5 - EC44)	mg/kg	10	NONE	< 10	< 10	< 10

TPH-CWG - Aromatic > EC5 - EC7	mg/kg	Limit of detection	Accreditation Status	1755119	1755120	1755121
TPH-CWG - Aromatic > EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic > EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic > EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic > EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic > EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0
TPH-CWG - Aromatic > EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10	< 10
TPH-CWG - Aromatic > EC21 - EC35	mg/kg	10	MCERTS	< 10	< 10	< 10
TPH-CWG - Aromatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10
TPH-CWG - Aromatic (EC5 - EC44)	mg/kg	10	NONE	< 10	< 10	< 10

Analytical Report Number: 21-54273
 Project / Site name: Holloway Prison
 Your Order No: 107903

Lab Sample Number				1755119	1755120	1755121
Sample Reference				BH21	BH21	BH21
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				1.00	4.00	5.00
Date Sampled				27/01/2021	27/01/2021	27/01/2021
Time Taken				None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status			
VOCs						
Chloromethane	µg/kg	1	ISO 17025	< 1.0	-	-
Chloroethane	µg/kg	1	NONE	< 1.0	-	-
Bromomethane	µg/kg	1	ISO 17025	< 1.0	-	-
Vinyl Chloride	µg/kg	1	NONE	< 1.0	-	-
Trichlorofluoromethane	µg/kg	1	NONE	< 1.0	-	-
1,1-Dichloroethene	µg/kg	1	NONE	< 1.0	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0	-	-
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	-	-
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0	-	-
2,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	-	-
Trichloromethane	µg/kg	1	MCERTS	< 1.0	-	-
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0	-	-
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0	-	-
1,1-Dichloropropene	µg/kg	1	MCERTS	< 1.0	-	-
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0	-	-
Benzene	µg/kg	1	MCERTS	< 1.0	-	-
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0	-	-
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	-	-
Trichloroethene	µg/kg	1	MCERTS	< 1.0	-	-
Dibromomethane	µg/kg	1	MCERTS	< 1.0	-	-
Bromodichloromethane	µg/kg	1	MCERTS	< 1.0	-	-
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	-	-
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	-	-
Toluene	µg/kg	1	MCERTS	< 1.0	-	-
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0	-	-
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0	-	-
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0	-	-
Tetrachloroethene	µg/kg	1	NONE	< 1.0	-	-
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0	-	-
Chlorobenzene	µg/kg	1	MCERTS	< 1.0	-	-
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	-	-
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	-	-
p & m-Xylene	µg/kg	1	MCERTS	< 1.0	-	-
Styrene	µg/kg	1	MCERTS	< 1.0	-	-
Tribromomethane	µg/kg	1	NONE	< 1.0	-	-
o-Xylene	µg/kg	1	MCERTS	< 1.0	-	-
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	-	-
Isopropylbenzene	µg/kg	1	MCERTS	< 1.0	-	-
Bromobenzene	µg/kg	1	MCERTS	< 1.0	-	-
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0	-	-
2-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	-	-
4-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	-	-
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	-	-
tert-Butylbenzene	µg/kg	1	MCERTS	< 1.0	-	-
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	-	-
sec-Butylbenzene	µg/kg	1	MCERTS	< 1.0	-	-
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0	-	-
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0	-	-

Analytical Report Number: 21-54273
 Project / Site name: Holloway Prison
 Your Order No: 107903

Lab Sample Number	1755119	1755120	1755121			
Sample Reference	BH21	BH21	BH21			
Sample Number	None Supplied	None Supplied	None Supplied			
Depth (m)	1.00	4.00	5.00			
Date Sampled	27/01/2021	27/01/2021	27/01/2021			
Time Taken	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status			
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	-	-
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	-	-
Butylbenzene	µg/kg	1	MCERTS	< 1.0	-	-
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	-	-
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	-	-
Hexachlorobutadiene	µg/kg	1	MCERTS	< 1.0	-	-
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	< 1.0	-	-

SVOCs

Aniline	mg/kg	0.1	NONE	< 0.1	-	-
Phenol	mg/kg	0.2	ISO 17025	< 0.2	-	-
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	-	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2	-	-
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	-	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	-	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	-	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1	-	-
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	-	-
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05	-	-
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	-	-
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	-	-
Isophorone	mg/kg	0.2	MCERTS	< 0.2	-	-
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3	-	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	-	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3	-	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	-	-
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	-	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	-	-
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	-	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1	-	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	-	-
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1	-	-
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2	-	-
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1	-	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	-	-
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	-	-
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	-	-
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	-	-
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2	-	-
Dibenzofuran	mg/kg	0.2	MCERTS	< 0.2	-	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3	-	-
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	-	-
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2	-	-
Fluorene	mg/kg	0.05	MCERTS	< 0.05	-	-
Azobenzene	mg/kg	0.3	MCERTS	< 0.3	-	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	-	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3	-	-
Phenanthrene	mg/kg	0.05	MCERTS	0.9	-	-
Anthracene	mg/kg	0.05	MCERTS	0.26	-	-
Carbazole	mg/kg	0.3	MCERTS	< 0.3	-	-
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2	-	-
Anthraquinone	mg/kg	0.3	MCERTS	< 0.3	-	-

Analytical Report Number: 21-54273
 Project / Site name: Holloway Prison
 Your Order No: 107903

Lab Sample Number				1755119	1755120	1755121
Sample Reference				BH21	BH21	BH21
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				1.00	4.00	5.00
Date Sampled				27/01/2021	27/01/2021	27/01/2021
Time Taken				None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status			
Fluoranthene	mg/kg	0.05	MCERTS	1.3	-	-
Pyrene	mg/kg	0.05	MCERTS	1.1	-	-
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.74	-	-
Chrysene	mg/kg	0.05	MCERTS	0.56	-	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	0.62	-	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	0.43	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.69	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.28	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.38	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample



Analytical Report Number: 21-54273
Project / Site name: Holloway Prison
Your Order No: 107903

Certificate of Analysis - Asbestos Quantification

Methods:

Qualitative Analysis

The samples were analysed qualitatively for asbestos by polarising light and dispersion staining as described by the Health and Safety Executive in HSG 248.

Quantitative Analysis

The analysis was carried out using our documented in-house method A006-PL based on HSE Contract Research Report No: 83/1996: Development and Validation of an analytical method to determine the amount of asbestos in soils and loose aggregates (Davies et al, 1996) and HSG 248. Our method includes initial examination of the entire representative sample, then fractionation and detailed analysis of each fraction, with quantification by hand picking and weighing.

The limit of detection (reporting limit) of this method is 0.001 %.

The method has been validated using samples of at least 100 g, results for samples smaller than this should be interpreted with caution.

Both Qualitative and Quantitative Analyses are UKAS accredited.

Sample Number	Sample ID	Sample Depth (m)	Sample Weight (g)	Asbestos Containing Material Types Detected (ACM)	PLM Results	Asbestos by hand picking/weighing (%)	Total % Asbestos in Sample
1755108	SA02	0.50	146	Bitumen	Chrysotile	< 0.001	< 0.001
1755110	TP10	0.70	130	Loose Fibres	Crocidolite	0.015	0.015

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

Analytical Report Number : 21-54273
Project / Site name: Holloway Prison

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
1755104	TP04	None Supplied	0.6	Brown clay and sand with gravel and brick.
1755105	TP04	None Supplied	2.5	Brown clay.
1755106	TP01	None Supplied	0.5	Light brown sand with gravel.
1755107	SA01	None Supplied	1	Light brown clay and sand with gravel.
1755108	SA02	None Supplied	0.5	Light brown sand with gravel and brick.
1755109	TP06	None Supplied	0.5	Light brown clay and sand with gravel and vegetation.
1755110	TP10	None Supplied	0.7	Light brown clay and sand with gravel.
1755111	SA03	None Supplied	0.2	Light brown gravel.**
1755112	TP08	None Supplied	0.5	Light brown clay and sand with gravel and vegetation.
1755113	TP08	None Supplied	2	Light brown clay and sand with gravel.
1755114	TP03	None Supplied	0.5	Light brown clay and sand with gravel.
1755115	TP07	None Supplied	1	Light brown clay and sand with gravel.
1755116	BH14	None Supplied	1	Light brown sand with gravel and brick.
1755117	BH14	None Supplied	3	Light brown clay and sand.
1755118	BH09	None Supplied	0.5	Light brown clay and sand with gravel.
1755119	BH21	None Supplied	1	Light brown clay.
1755120	BH21	None Supplied	4	Light brown clay.
1755121	BH21	None Supplied	5	Light brown clay.

** Non MCERTS matrix

Analytical Report Number : 21-54273
Project / Site name: Holloway Prison

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Fraction of Organic Carbon in soil	Determination of fraction of organic carbon in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
Speciated WAC-17 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270. MCERTS accredited except Coronene.	L064-PL	D	NONE
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
Cr (III) in soil	In-house method by calculation from total Cr and Cr VI.	In-house method by calculation	L080-PL	W	NONE
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L088/76-PL	W	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	NONE

Analytical Report Number : 21-54273
Project / Site name: Holloway Prison

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos Quantification - Gravimetric	Asbestos quantification by gravimetric method - in house method based on references.	HSE Report No: 83/1996, HSG 248, HSG 264 & SCA Blue Book (draft).	A006-PL	D	ISO 17025
D.O. for Gravimetric Quant if Screen/ID positive	Dependent option for Gravimetric Quant if Screen/ID positive scheduled.	In house asbestos methods A001 & A006.	A006-PL	D	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.



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Analytical Report Number : 21-54275

Project / Site name:	Holloway Prison	Samples received on:	28/01/2021
Your job number:	WIE16172	Samples instructed on/ Analysis started on:	29/01/2021
Your order number:	107903	Analysis completed by:	05/02/2021
Report Issue Number:	1	Report issued on:	05/02/2021
Samples Analysed:	1 10:1 WAC sample		

Signed:

Claire Brown-Crociquia
Group Customer Services Manager
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.

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Waste Acceptance Criteria Analytical Results						
Report No:	21-54275					
				Client: WATERMAN		
Location	Holloway Prison					
Lab Reference (Sample Number)	1755235 / 1755236			Landfill Waste Acceptance Criteria		
Sampling Date	27/01/2021			Limits		
Sample ID	BH09			Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Depth (m)	0.50					
Solid Waste Analysis						
TOC (%)**	1.3			3%	5%	6%
Loss on Ignition (%) **	2.3			--	--	10%
BTEX (µg/kg) **	< 10			6000	--	--
Sum of PCBs (mg/kg) **	< 0.007			1	--	--
Mineral Oil (mg/kg)	58			500	--	--
Total PAH (WAC-17) (mg/kg)	3.08			100	--	--
pH (units)**	8.7			--	>6	--
Acid Neutralisation Capacity (mol / kg)	27			--	To be evaluated	To be evaluated
Eluate Analysis						
	10:1		10:1	Limit values for compliance leaching test		
(BS EN 12457 - 2 preparation utilising end over end leaching procedure)	mg/l		mg/kg	using BS EN 12457-2 at L/S 10 l/kg (mg/kg)		
Arsenic *	0.0066		0.0587	0.5	2	25
Barium *	0.0147		0.131	20	100	300
Cadmium *	< 0.0001		< 0.0008	0.04	1	5
Chromium *	0.0074		0.067	0.5	10	70
Copper *	0.011		0.096	2	50	100
Mercury *	< 0.0005		< 0.0050	0.01	0.2	2
Molybdenum *	0.0060		0.0536	0.5	10	30
Nickel *	0.0025		0.022	0.4	10	40
Lead *	0.0038		0.034	0.5	10	50
Antimony *	< 0.0017		< 0.017	0.06	0.7	5
Selenium *	< 0.0040		< 0.040	0.1	0.5	7
Zinc *	0.014		0.13	4	50	200
Chloride *	4.5		40	800	15000	25000
Fluoride	0.40		3.6	10	150	500
Sulphate *	35		320	1000	20000	50000
TDS*	110		1000	4000	60000	100000
Phenol Index (Monohydric Phenols) *	< 0.010		< 0.10	1	-	-
DOC	6.20		55.4	500	800	1000
Leach Test Information						
Stone Content (%)	< 0.1					
Sample Mass (kg)	1.5					
Dry Matter (%)	90					
Moisture (%)	10					
Results are expressed on a dry weight basis, after correction for moisture content where applicable. * = UKAS accredited (liquid eluate analysis only)						
Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation ** = MCERTS accredited						
Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3. This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous.						



Analytical Report Number : 21-54275
Project / Site name: Holloway Prison

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
1755235	BH09	None Supplied	0.5	Light brown clay and sand with gravel.

Analytical Report Number : 21-54275
Project / Site name: Holloway Prison

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
BS EN 12457-2 (10:1) Leachate Prep	10:1 (as recieved, moisture adjusted) end over end extraction with water for 24 hours. Eluate filtered prior to analysis.	In-house method based on BSEN12457-2.	L043-PL	W	NONE
Acid neutralisation capacity of soil	Determination of acid neutralisation capacity by addition of acid or alkali followed by electronic probe.	In-house method based on Guidance an Sampling and Testing of Wastes to Meet Landfill Waste Acceptance"	L046-PL	W	NONE
Loss on ignition of soil @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace.	In house method.	L047-PL	D	MCERTS
Mineral Oil (Soil) C10 - C40	Determination of mineral oil fraction extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L076-PL	D	NONE
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Speciated WAC-17 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270. MCERTS accredited except Coronene.	L064-PL	D	NONE
PCB's By GC-MS in soil	Determination of PCB by extraction with acetone and hexane followed by GC-MS.	In-house method based on USEPA 8082	L027-PL	D	MCERTS
pH at 20oC in soil	Determination of pH in soil by addition of water followed by electrometric measurement.	In house method.	L005-PL	W	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
BTEX in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
Total BTEX in soil (Poland)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073-PL	W	MCERTS
Metals in leachate by ICP-OES	Determination of metals in leachate by acidification followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil"	L039-PL	W	ISO 17025
Chloride 10:1 WAC	Determination of Chloride colorimetrically by discrete analyser.	In house based on MEWAM Method ISBN 0117516260.	L082-PL	W	ISO 17025
Fluoride 10:1 WAC	Determination of fluoride in leachate by 1:1ratio with a buffer solution followed by Ion Selective Electrode.	In-house method based on Use of Total Ionic Strength Adjustment Buffer for Electrode Determination"	L033B-PL	W	ISO 17025
Sulphate 10:1 WAC	Determination of sulphate in leachate by ICP-OES	In-house method based on MEWAM 1986 Methods for the Determination of Metals in Soil"	L039-PL	W	ISO 17025
Total dissolved solids 10:1 WAC	Determination of total dissolved solids in water by electrometric measurement.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L004-PL	W	ISO 17025

Analytical Report Number : 21-54275
Project / Site name: Holloway Prison

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Monohydric phenols 10:1 WAC	Determination of phenols in leachate by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	ISO 17025
Dissolved organic carbon 10:1 WAC	Determination of dissolved inorganic carbon in leachate by TOC/DOC NDIR Analyser.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L037-PL	W	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.



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Analytical Report Number : 21-54452

Project / Site name:	Holloway Priston	Samples received on:	01/02/2021
Your job number:	WIE16172	Samples instructed on/ Analysis started on:	01/02/2021
Your order number:	107935	Analysis completed by:	08/02/2021
Report Issue Number:	1	Report issued on:	08/02/2021
Samples Analysed:	3 soil samples		

Signed: _____

Rachel Bradley
Deputy Quality Manager
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Analytical Report Number: 21-54452
 Project / Site name: Holloway Priston
 Your Order No: 107935

Lab Sample Number				1756516	1756517	1756518
Sample Reference				BH3	BH3	BH3
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				0.50	1.00	1.70
Date Sampled				29/01/2021	29/01/2021	29/01/2021
Time Taken				None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status			
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	17	20	19
Total mass of sample received	kg	0.001	NONE	0.9	1.1	1

Asbestos in Soil	Type	N/A	ISO 17025			
				Not-detected	-	-

General Inorganics

pH - Automated	pH Units	N/A	MCERTS			
				8.9	-	7.8
Organic Matter	%	0.1	MCERTS	0.2	-	< 0.1
Fraction Organic Carbon (FOC)	N/A	0.001	MCERTS	< 0.0010	-	< 0.0010
Total Organic Carbon (TOC)	%	0.1	MCERTS	< 0.1	-	< 0.1

Heavy Metals / Metalloids

	mg/kg	1	MCERTS			
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	18	-	17
Barium (aqua regia extractable)	mg/kg	1	MCERTS	56	-	26
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.84	-	1.1
Boron (water soluble)	mg/kg	0.2	MCERTS	2.2	-	1.8
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	-	< 4.0
Chromium (III)	mg/kg	1	NONE	31	-	40
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	31	-	40
Copper (aqua regia extractable)	mg/kg	1	MCERTS	27	-	34
Lead (aqua regia extractable)	mg/kg	1	MCERTS	31	-	37
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	0.81	-	0.68
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	33	-	42
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	-	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	57	-	69
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	68	-	83

Analytical Report Number: 21-54452
 Project / Site name: Holloway Priston
 Your Order No: 107935

Lab Sample Number	1756516			1756517			1756518		
Sample Reference	BH3			BH3			BH3		
Sample Number	None Supplied			None Supplied			None Supplied		
Depth (m)	0.50			1.00			1.70		
Date Sampled	29/01/2021			29/01/2021			29/01/2021		
Time Taken	None Supplied			None Supplied			None Supplied		
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status						

Monoaromatics & Oxygenates

Compound	Units	Limit of detection	Accreditation Status	1756516	1756517	1756518
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

Compound	Units	Limit of detection	Accreditation Status	1756516	1756517	1756518
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	7.1	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	11	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	21	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	41	< 8.0	< 8.0
TPH-CWG - Aliphatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	80	< 10	< 10
TPH-CWG - Aliphatic (EC5 - EC44)	mg/kg	10	NONE	80	< 10	< 10

Compound	Units	Limit of detection	Accreditation Status	1756516	1756517	1756518
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	< 10	< 10
TPH-CWG - Aromatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10
TPH-CWG - Aromatic (EC5 - EC44)	mg/kg	10	NONE	< 10	< 10	< 10

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number : 21-54452
Project / Site name: Holloway Priston

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
1756516	BH3	None Supplied	0.5	Light brown clay and sand with gravel.
1756517	BH3	None Supplied	1	Light brown clay.
1756518	BH3	None Supplied	1.7	Light brown clay.

Analytical Report Number : 21-54452
Project / Site name: Holloway Priston

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Fraction of Organic Carbon in soil	Determination of fraction of organic carbon in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
Cr (III) in soil	In-house method by calculation from total Cr and Cr VI.	In-house method by calculation	L080-PL	W	NONE
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L088/76-PL	W	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	NONE
D.O. for Gravimetric Quant if Screen/ID positive	Dependent option for Gravimetric Quant if Screen/ID positive scheduled.	In house asbestos methods A001 & A006.	A006-PL	D	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.



Robbie Moore
Waterman Infrastructure & Environment Ltd

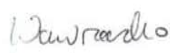
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Analytical Report Number : 21-54824

Project / Site name:	Holloway Prison	Samples received on:	02/02/2021
Your job number:	WIE16172	Samples instructed on/ Analysis started on:	03/02/2021
Your order number:	107965	Analysis completed by:	11/02/2021
Report Issue Number:	1	Report issued on:	11/02/2021
Samples Analysed:	10 soil samples		

Signed: 
Joanna Wawrzeczek
Technical Reviewer (Reporting Team)
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 21-54824
 Project / Site name: Holloway Prison
 Your Order No: 107965

Lab Sample Number				1758624	1758625	1758626	1758627	1758628
Sample Reference				WS02	WS02	TP11	WS11	WS11
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.00	2.00	0.50	0.50	2.00
Date Sampled				01/02/2021	01/02/2021	01/02/2021	01/02/2021	01/02/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	22	21	19	22	23
Total mass of sample received	kg	0.001	NONE	0.7	0.7	0.7	0.7	0.7

Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	-	-	-	-
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	-	Not-detected	Not-detected	-
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	-	-	-	-	-
Asbestos Quantification Total	%	0.001	ISO 17025	-	-	-	-	-

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.8	8.1	8.4	8.8	7.8
Organic Matter	%	0.1	MCERTS	0.9	1.6	0.7	2.5	0.4
Total Organic Carbon (TOC)	%	0.1	MCERTS	0.5	0.9	0.4	1.4	0.2

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	0.3	< 0.05	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	0.24	< 0.05	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	0.23	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
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Analytical Report Number: 21-54824
 Project / Site name: Holloway Prison
 Your Order No: 107965

Lab Sample Number	1758624				1758625	1758626	1758627	1758628
Sample Reference	WS02				WS02	TP11	WS11	WS11
Sample Number	None Supplied				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	1.00				2.00	0.50	0.50	2.00
Date Sampled	01/02/2021				01/02/2021	01/02/2021	01/02/2021	01/02/2021
Time Taken	None Supplied				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

Heavy Metals / Metalloids

Element	Unit	Limit	MCERTS	1758624	1758625	1758626	1758627	1758628
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	18	19	12	15	14
Barium (aqua regia extractable)	mg/kg	1	MCERTS	44	42	72	83	35
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.1	1.5	1.4	1.3	1.4
Boron (water soluble)	mg/kg	0.2	MCERTS	0.5	0.9	< 0.2	2.1	1.7
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Chromium (III)	mg/kg	1	NONE	44	58	46	47	54
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	44	58	46	47	54
Copper (aqua regia extractable)	mg/kg	1	MCERTS	22	31	28	40	29
Lead (aqua regia extractable)	mg/kg	1	MCERTS	17	19	27	56	18
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	0.6	< 0.3
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	0.61	0.56	1.4	1.2	0.54
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	37	50	47	36	44
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	79	100	79	89	94
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	66	93	73	75	81

Monoaromatics & Oxygenates

Compound	Unit	Limit	MCERTS	1758624	1758625	1758626	1758627	1758628
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

Compound	Unit	Limit	MCERTS	1758624	1758625	1758626	1758627	1758628
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4	< 8.4	< 8.4
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic (EC5 - EC44)	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10

Compound	Unit	Limit	MCERTS	1758624	1758625	1758626	1758627	1758628
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4	< 8.4	< 8.4
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic (EC5 - EC44)	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10



Analytical Report Number: 21-54824
 Project / Site name: Holloway Prison
 Your Order No: 107965

Lab Sample Number	1758624			1758625		1758626		1758627		1758628	
Sample Reference	WS02			WS02		TP11		WS11		WS11	
Sample Number	None Supplied			None Supplied		None Supplied		None Supplied		None Supplied	
Depth (m)	1.00			2.00		0.50		0.50		2.00	
Date Sampled	01/02/2021			01/02/2021		01/02/2021		01/02/2021		01/02/2021	
Time Taken	None Supplied			None Supplied		None Supplied		None Supplied		None Supplied	
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status								

VOCs

Compound	Units	Limit of detection	Accreditation Status	1758624	1758625	1758626	1758627	1758628
Chloromethane	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
Chloroethane	µg/kg	1	NONE	-	-	-	< 1.0	< 1.0
Bromomethane	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
Vinyl Chloride	µg/kg	1	NONE	-	-	-	< 1.0	< 1.0
Trichlorofluoromethane	µg/kg	1	NONE	-	-	-	< 1.0	< 1.0
1,1-Dichloroethene	µg/kg	1	NONE	-	-	-	< 1.0	< 1.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,1-Dichloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
2,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Trichloromethane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,2-Dichloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,1-Dichloropropene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	-	-	< 1.0	< 1.0
Benzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Tetrachloromethane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Trichloroethene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Dibromomethane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Bromodichloromethane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
Dibromochloromethane	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
Tetrachloroethene	µg/kg	1	NONE	-	-	-	< 1.0	< 1.0
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
Chlorobenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
p & m-Xylene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Styrene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Tribromomethane	µg/kg	1	NONE	-	-	-	< 1.0	< 1.0
o-Xylene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Isopropylbenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Bromobenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
n-Propylbenzene	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
2-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
4-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
tert-Butylbenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
sec-Butylbenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
p-Isopropyltoluene	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Butylbenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0

Analytical Report Number: 21-54824
 Project / Site name: Holloway Prison
 Your Order No: 107965

Lab Sample Number				1758624	1758625	1758626	1758627	1758628
Sample Reference				WS02	WS02	TP11	WS11	WS11
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.00	2.00	0.50	0.50	2.00
Date Sampled				01/02/2021	01/02/2021	01/02/2021	01/02/2021	01/02/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Hexachlorobutadiene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0



Analytical Report Number: 21-54824
 Project / Site name: Holloway Prison
 Your Order No: 107965

Lab Sample Number	1758624			1758625			1758626			1758627			1758628				
Sample Reference	WS02			WS02			TP11			WS11			WS11				
Sample Number	None Supplied			None Supplied			None Supplied			None Supplied			None Supplied				
Depth (m)	1.00			2.00			0.50			0.50			2.00				
Date Sampled	01/02/2021			01/02/2021			01/02/2021			01/02/2021			01/02/2021				
Time Taken	None Supplied			None Supplied			None Supplied			None Supplied			None Supplied				
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status														

SVOCs

Compound	Units	Limit of detection	Accreditation Status	1758624	1758625	1758626	1758627	1758628
Aniline	mg/kg	0.1	NONE	-	-	-	< 0.1	< 0.1
Phenol	mg/kg	0.2	ISO 17025	-	-	-	< 0.2	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	-	-	-	< 0.1	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	-	-	< 0.1	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	-	-	< 0.1	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	-	-	-	< 0.3	< 0.3
Hexachloroethane	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	-	-	-	< 0.3	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	-	-	-	< 0.2	< 0.2
Isophorone	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
2-Nitrophenol	mg/kg	0.3	MCERTS	-	-	-	< 0.3	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	-	-	< 0.3	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	-	-	< 0.3	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	-	-	< 0.3	< 0.3
Naphthalene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	-	-	< 0.3	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	-	-	-	< 0.1	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	-	-	< 0.1	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	-	-	< 0.1	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	-	-	-	< 0.1	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-	-	< 0.1	< 0.1
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	-	-	< 0.1	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	-	-	-	< 0.1	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	-	-	-	< 0.1	< 0.1
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	-	-	-	< 0.3	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
4-Nitroaniline	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
Fluorene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
Azobenzene	mg/kg	0.3	MCERTS	-	-	-	< 0.3	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	-	-	< 0.3	< 0.3
Phenanthrene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
Carbazole	mg/kg	0.3	MCERTS	-	-	-	< 0.3	< 0.3
Dibutyl phthalate	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
Anthraquinone	mg/kg	0.3	MCERTS	-	-	-	< 0.3	< 0.3
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	-	-	-	< 0.3	< 0.3
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05

Analytical Report Number: 21-54824
 Project / Site name: Holloway Prison
 Your Order No: 107965

Lab Sample Number				1758624	1758625	1758626	1758627	1758628
Sample Reference				WS02	WS02	TP11	WS11	WS11
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.00	2.00	0.50	0.50	2.00
Date Sampled				01/02/2021	01/02/2021	01/02/2021	01/02/2021	01/02/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05

PCBs by GC-MS

PCB Congener	Units	Limit of detection	Accreditation Status	1758624	1758625	1758626	1758627	1758628
PCB Congener 28	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	-	-
PCB Congener 52	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	-	-
PCB Congener 101	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	-	-
PCB Congener 118	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	-	-
PCB Congener 138	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	-	-
PCB Congener 153	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	-	-
PCB Congener 180	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	-	-

Total PCBs by GC-MS

Total PCBs	Units	Limit of detection	Accreditation Status	1758624	1758625	1758626	1758627	1758628
Total PCBs	mg/kg	0.007	MCERTS	< 0.007	< 0.007	-	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number: 21-54824
 Project / Site name: Holloway Prison
 Your Order No: 107965

Lab Sample Number				1758629	1758630	1758631	1758632	1758633
Sample Reference				WS12	WS12	WS12	WS01	WS01
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20	2.00	3.00	1.50	2.50
Date Sampled				01/02/2021	01/02/2021	01/02/2021	01/02/2021	01/02/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	13	23	23	33	21
Total mass of sample received	kg	0.001	NONE	1	0.7	0.9	0.7	1

Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	Chrysotile	-	-	-	-
Asbestos in Soil	Type	N/A	ISO 17025	Detected	-	-	Not-detected	-
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	0.005	-	-	-	-
Asbestos Quantification Total	%	0.001	ISO 17025	0.005	-	-	-	-

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	9.5	-	-	7.5	-
Organic Matter	%	0.1	MCERTS	3.3	-	-	5.8	-
Total Organic Carbon (TOC)	%	0.1	MCERTS	1.9	-	-	3.3	-

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	-	-	< 0.05	-
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	-	-	< 0.05	-
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	-	-	< 0.05	-
Fluorene	mg/kg	0.05	MCERTS	< 0.05	-	-	< 0.05	-
Phenanthrene	mg/kg	0.05	MCERTS	1.5	-	-	< 0.05	-
Anthracene	mg/kg	0.05	MCERTS	0.27	-	-	< 0.05	-
Fluoranthene	mg/kg	0.05	MCERTS	2.5	-	-	< 0.05	-
Pyrene	mg/kg	0.05	MCERTS	2.3	-	-	< 0.05	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	1.5	-	-	< 0.05	-
Chrysene	mg/kg	0.05	MCERTS	1.1	-	-	< 0.05	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	1.4	-	-	< 0.05	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	0.59	-	-	< 0.05	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	1.4	-	-	< 0.05	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.68	-	-	< 0.05	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	-	-	< 0.05	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.82	-	-	< 0.05	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	13.9	-	-	< 0.80	-
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Analytical Report Number: 21-54824
 Project / Site name: Holloway Prison
 Your Order No: 107965

Lab Sample Number				1758629	1758630	1758631	1758632	1758633
Sample Reference				WS12	WS12	WS12	WS01	WS01
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20	2.00	3.00	1.50	2.50
Date Sampled				01/02/2021	01/02/2021	01/02/2021	01/02/2021	01/02/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	23	-	-	16	-
Barium (aqua regia extractable)	mg/kg	1	MCERTS	170	-	-	120	-
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.99	-	-	1.2	-
Boron (water soluble)	mg/kg	0.2	MCERTS	0.6	-	-	3.3	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	-	-	< 0.2	-
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	-	-	< 4.0	-
Chromium (III)	mg/kg	1	NONE	28	-	-	43	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	28	-	-	44	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	120	-	-	74	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	150	-	-	270	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	-	-	1.7	-
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	2.1	-	-	1.7	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	26	-	-	26	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	-	-	< 1.0	-
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	79	-	-	89	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	200	-	-	91	-

Monoaromatics & Oxygenates

	µg/kg							
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

	mg/kg							
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	26	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	32	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	11	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4	< 8.4	< 8.4
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	76	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic (EC5 - EC44)	mg/kg	10	NONE	76	< 10	< 10	< 10	< 10

	mg/kg							
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	13	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	19	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	15	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	40	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4	< 8.4	< 8.4
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	87	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic (EC5 - EC44)	mg/kg	10	NONE	87	< 10	< 10	< 10	< 10

Analytical Report Number: 21-54824
 Project / Site name: Holloway Prison
 Your Order No: 107965

Lab Sample Number				1758629	1758630	1758631	1758632	1758633
Sample Reference				WS12	WS12	WS12	WS01	WS01
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20	2.00	3.00	1.50	2.50
Date Sampled				01/02/2021	01/02/2021	01/02/2021	01/02/2021	01/02/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
VOCS								
Chloromethane	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
Chloroethane	µg/kg	1	NONE	-	-	-	< 1.0	-
Bromomethane	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
Vinyl Chloride	µg/kg	1	NONE	-	-	-	< 1.0	-
Trichlorofluoromethane	µg/kg	1	NONE	-	-	-	< 1.0	-
1,1-Dichloroethene	µg/kg	1	NONE	-	-	-	< 1.0	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,1-Dichloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
2,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Trichloromethane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,2-Dichloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,1-Dichloropropene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	-	-	< 1.0	-
Benzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Tetrachloromethane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Trichloroethene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Dibromomethane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Bromodichloromethane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
Toluene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
Dibromochloromethane	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
Tetrachloroethene	µg/kg	1	NONE	-	-	-	< 1.0	-
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
Chlorobenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
p & m-Xylene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Styrene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Tribromomethane	µg/kg	1	NONE	-	-	-	< 1.0	-
o-Xylene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Isopropylbenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Bromobenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
n-Propylbenzene	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
2-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
4-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
tert-Butylbenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
sec-Butylbenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
p-Isopropyltoluene	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
1,2-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,4-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Butylbenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-

Analytical Report Number: 21-54824
 Project / Site name: Holloway Prison
 Your Order No: 107965

Lab Sample Number				1758629	1758630	1758631	1758632	1758633
Sample Reference				WS12	WS12	WS12	WS01	WS01
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20	2.00	3.00	1.50	2.50
Date Sampled				01/02/2021	01/02/2021	01/02/2021	01/02/2021	01/02/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
				1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Hexachlorobutadiene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	-	-	< 1.0	-



Environmental Science

Analytical Report Number: 21-54824

Project / Site name: Holloway Prison

Your Order No: 107965

Lab Sample Number				1758629	1758630	1758631	1758632	1758633
Sample Reference				WS12	WS12	WS12	WS01	WS01
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20	2.00	3.00	1.50	2.50
Date Sampled				01/02/2021	01/02/2021	01/02/2021	01/02/2021	01/02/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
SVOCs								
Aniline	mg/kg	0.1	NONE	-	-	-	< 0.1	-
Phenol	mg/kg	0.2	ISO 17025	-	-	-	< 0.2	-
2-Chlorophenol	mg/kg	0.1	MCERTS	-	-	-	< 0.1	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	-	-	< 0.2	-
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	< 0.2	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	-	-	< 0.1	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	< 0.2	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	-	-	< 0.1	-
2-Methylphenol	mg/kg	0.3	MCERTS	-	-	-	< 0.3	-
Hexachloroethane	mg/kg	0.05	MCERTS	-	-	-	< 0.05	-
Nitrobenzene	mg/kg	0.3	MCERTS	-	-	-	< 0.3	-
4-Methylphenol	mg/kg	0.2	NONE	-	-	-	< 0.2	-
Isophorone	mg/kg	0.2	MCERTS	-	-	-	< 0.2	-
2-Nitrophenol	mg/kg	0.3	MCERTS	-	-	-	< 0.3	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	-	-	< 0.3	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	-	-	< 0.3	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	-	-	< 0.3	-
Naphthalene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	-	-	< 0.3	-
4-Chloroaniline	mg/kg	0.1	NONE	-	-	-	< 0.1	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	-	-	< 0.1	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	-	-	< 0.1	-
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	-	-	-	< 0.1	-
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	-	-	-	< 0.2	-
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-	-	< 0.1	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	-	-	< 0.1	-
Dimethylphthalate	mg/kg	0.1	MCERTS	-	-	-	< 0.1	-
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	-	-	-	< 0.1	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	-
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	-
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	-	-	-	< 0.2	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	-	< 0.2	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	-	-	-	< 0.3	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	-	< 0.2	-
4-Nitroaniline	mg/kg	0.2	MCERTS	-	-	-	< 0.2	-
Fluorene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	-
Azobenzene	mg/kg	0.3	MCERTS	-	-	-	< 0.3	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	-	-	< 0.2	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	-	-	< 0.3	-
Phenanthrene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	-
Anthracene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	-
Carbazole	mg/kg	0.3	MCERTS	-	-	-	< 0.3	-
Dibutyl phthalate	mg/kg	0.2	MCERTS	-	-	-	< 0.2	-
Anthraquinone	mg/kg	0.3	MCERTS	-	-	-	< 0.3	-
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	-
Pyrene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	-
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	-	-	-	< 0.3	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	-
Chrysene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	-

Analytical Report Number: 21-54824
 Project / Site name: Holloway Prison
 Your Order No: 107965

Lab Sample Number				1758629	1758630	1758631	1758632	1758633
Sample Reference				WS12	WS12	WS12	WS01	WS01
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20	2.00	3.00	1.50	2.50
Date Sampled				01/02/2021	01/02/2021	01/02/2021	01/02/2021	01/02/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	-

PCBs by GC-MS

PCB Congener 28	mg/kg	0.001	MCERTS	-	-	-	-	-
PCB Congener 52	mg/kg	0.001	MCERTS	-	-	-	-	-
PCB Congener 101	mg/kg	0.001	MCERTS	-	-	-	-	-
PCB Congener 118	mg/kg	0.001	MCERTS	-	-	-	-	-
PCB Congener 138	mg/kg	0.001	MCERTS	-	-	-	-	-
PCB Congener 153	mg/kg	0.001	MCERTS	-	-	-	-	-
PCB Congener 180	mg/kg	0.001	MCERTS	-	-	-	-	-

Total PCBs by GC-MS

Total PCBs	mg/kg	0.007	MCERTS	-	-	-	-	-
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U/S = Unsuitable Sample I/S = Insufficient Sample



Analytical Report Number: 21-54824
Project / Site name: Holloway Prison
Your Order No: 107965

Certificate of Analysis - Asbestos Quantification

Methods:

Qualitative Analysis

The samples were analysed qualitatively for asbestos by polarising light and dispersion staining as described by the Health and Safety Executive in HSG 248.

Quantitative Analysis

The analysis was carried out using our documented in-house method A006-PL based on HSE Contract Research Report No: 83/1996: Development and Validation of an analytical method to determine the amount of asbestos in soils and loose aggregates (Davies et al, 1996) and HSG 248. Our method includes initial examination of the entire representative sample, then fractionation and detailed analysis of each fraction, with quantification by hand picking and weighing.

The limit of detection (reporting limit) of this method is 0.001 %.

The method has been validated using samples of at least 100 g, results for samples smaller than this should be interpreted with caution.

Both Qualitative and Quantitative Analyses are UKAS accredited.

Sample Number	Sample ID	Sample Depth (m)	Sample Weight (g)	Asbestos Containing Material Types Detected (ACM)	PLM Results	Asbestos by hand picking/weighing (%)	Total % Asbestos in Sample
1758629	WS12	0.20	128	Loose Fibres	Chrysotile	0.005	0.005

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

Analytical Report Number : 21-54824
Project / Site name: Holloway Prison

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
1758624	WS02	None Supplied	1	Brown clay with gravel.
1758625	WS02	None Supplied	2	Brown clay with gravel.
1758626	TP11	None Supplied	0.5	Brown clay with gravel and vegetation.
1758627	WS11	None Supplied	0.5	Brown clay and sand with gravel.
1758628	WS11	None Supplied	2	Brown clay with gravel.
1758629	WS12	None Supplied	0.2	Brown sand with gravel.
1758630	WS12	None Supplied	2	Brown clay.
1758631	WS12	None Supplied	3	Brown clay with vegetation.
1758632	WS01	None Supplied	1.5	Grey clay with gravel.
1758633	WS01	None Supplied	2.5	Brown clay.

Analytical Report Number : 21-54824
Project / Site name: Holloway Prison

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
PCB's By GC-MS in soil	Determination of PCB by extraction with acetone and hexane followed by GC-MS.	In-house method based on USEPA 8082	L027-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
Cr (III) in soil	In-house method by calculation from total Cr and Cr VI.	In-house method by calculation	L080-PL	W	NONE
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L088/76-PL	W	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	NONE

Analytical Report Number : 21-54824
Project / Site name: Holloway Prison

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos Quantification - Gravimetric	Asbestos quantification by gravimetric method - in house method based on references.	HSE Report No: 83/1996, HSG 248, HSG 264 & SCA Blue Book (draft).	A006-PL	D	ISO 17025
D.O. for Gravimetric Quant if Screen/ID positive	Dependent option for Gravimetric Quant if Screen/ID positive scheduled.	In house asbestos methods A001 & A006.	A006-PL	D	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.



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Analytical Report Number : 21-54995

Project / Site name:	Holloway Prison	Samples received on:	03/02/2021
Your job number:	WIE16172	Samples instructed on/ Analysis started on:	04/02/2021
Your order number:	108002	Analysis completed by:	11/02/2021
Report Issue Number:	1	Report issued on:	11/02/2021
Samples Analysed:	12 soil samples		

Signed: *Karolina Marek*

Karolina Marek
PL Head of Reporting Team
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 21-54995
 Project / Site name: Holloway Prison
 Your Order No: 108002

Lab Sample Number				1759684	1759685	1759686	1759687	1759688
Sample Reference				WS06	WS03	WS03	WS07A	WS04
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	0.30	1.00	0.60	0.30
Date Sampled				02/02/2021	02/02/2021	02/02/2021	02/02/2021	02/02/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	4.7	8.9	19	17	4.0
Total mass of sample received	kg	0.001	NONE	0.9	0.9	0.7	0.7	1.0

Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	-	-	-	-
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	-	Not-detected	Not-detected
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	-	-	-	-	-
Asbestos Quantification Total	%	0.001	ISO 17025	-	-	-	-	-

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	9.5	11.6	7.8	8.8	8.4
Organic Matter	%	0.1	MCERTS	1.2	1.4	0.2	0.3	0.4
Fraction Organic Carbon (FOC)	N/A	0.001	MCERTS	0.0068	0.0082	0.0012	0.0018	0.0023
Total Organic Carbon (TOC)	%	0.1	MCERTS	0.7	0.8	0.1	0.2	0.2

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	-	0.42	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	-	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	-	14	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	-	3.3	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	-	20	< 0.05	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	-	2.2	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	-	8.2	< 0.05	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	-	5.6	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	1.8	< 0.05	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	-	1.6	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	0.86	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	0.55	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	0.63	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	0.32	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	0.42	< 0.05	< 0.05	< 0.05
Coronene	mg/kg	0.05	NONE	-	< 0.05	< 0.05	< 0.05	< 0.05

Total PAH

Total WAC-17 PAHs	mg/kg	0.85	NONE	-	59.3	< 0.85	< 0.85	< 0.85
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Analytical Report Number: 21-54995
 Project / Site name: Holloway Prison
 Your Order No: 108002

Lab Sample Number	1759684	1759685	1759686	1759687	1759688
Sample Reference	WS06	WS03	WS03	WS07A	WS04
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.50	0.30	1.00	0.60	0.30
Date Sampled	02/02/2021	02/02/2021	02/02/2021	02/02/2021	02/02/2021
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		

Heavy Metals / Metalloids

Element	Unit	Limit	MCERTS	1759684	1759685	1759686	1759687	1759688
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	11	21	18	13	17
Barium (aqua regia extractable)	mg/kg	1	MCERTS	46	60	21	44	44
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.43	0.46	1.0	1.0	0.56
Boron (water soluble)	mg/kg	0.2	MCERTS	0.5	1.7	1.4	1.3	0.4
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Chromium (III)	mg/kg	1	NONE	16	22	38	38	22
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	16	22	38	39	23
Copper (aqua regia extractable)	mg/kg	1	MCERTS	7.1	16	33	23	22
Lead (aqua regia extractable)	mg/kg	1	MCERTS	23	64	15	21	50
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	0.98	1.0	0.51	0.59	1.1
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	15	16	42	38	23
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	30	31	68	68	43
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	25	66	77	71	81

Monoaromatics & Oxygenates

Compound	Unit	Limit	MCERTS	1759684	1759685	1759686	1759687	1759688
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH-CWG	Unit	Limit	MCERTS	1759684	1759685	1759686	1759687	1759688
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	12	< 2.0	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	20	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	78	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4	300	< 8.4	< 8.4	< 8.4
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	110	< 10	< 10	< 10
TPH-CWG - Aliphatic (EC5 - EC44)	mg/kg	10	NONE	< 10	410	< 10	< 10	< 10

TPH-CWG	Unit	Limit	MCERTS	1759684	1759685	1759686	1759687	1759688
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	1.9	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	41	< 2.0	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	60	< 10	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	130	< 10	< 10	< 10
TPH-CWG - Aromatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4	390	< 8.4	< 8.4	< 8.4
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	240	< 10	< 10	< 10
TPH-CWG - Aromatic (EC5 - EC44)	mg/kg	10	NONE	< 10	630	< 10	< 10	< 10

Analytical Report Number: 21-54995
 Project / Site name: Holloway Prison
 Your Order No: 108002

Lab Sample Number	1759684			1759685			1759686			1759687			1759688		
Sample Reference	WS06			WS03			WS03			WS07A			WS04		
Sample Number	None Supplied			None Supplied			None Supplied			None Supplied			None Supplied		
Depth (m)	0.50			0.30			1.00			0.60			0.30		
Date Sampled	02/02/2021			02/02/2021			02/02/2021			02/02/2021			02/02/2021		
Time Taken	None Supplied			None Supplied			None Supplied			None Supplied			None Supplied		
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status												

VOCs

Compound	Units	Limit of detection	Accreditation Status	1759684	1759685	1759686	1759687	1759688
Chloromethane	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
Chloroethane	µg/kg	1	NONE	-	-	-	-	< 1.0
Bromomethane	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
Vinyl Chloride	µg/kg	1	NONE	-	-	-	-	< 1.0
Trichlorofluoromethane	µg/kg	1	NONE	-	-	-	-	< 1.0
1,1-Dichloroethene	µg/kg	1	NONE	-	-	-	-	< 1.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,1-Dichloroethane	µg/kg	1	MCERTS	-	-	-	-	< 1.0
2,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Trichloromethane	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,2-Dichloroethane	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,1-Dichloropropene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	-	-	-	< 1.0
Benzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Tetrachloromethane	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Trichloroethene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Dibromomethane	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Bromodichloromethane	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
Toluene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
Dibromochloromethane	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
Tetrachloroethene	µg/kg	1	NONE	-	-	-	-	< 1.0
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
Chlorobenzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
p & m-Xylene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Styrene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Tribromomethane	µg/kg	1	NONE	-	-	-	-	< 1.0
o-Xylene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Isopropylbenzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Bromobenzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
n-Propylbenzene	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
2-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
4-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
tert-Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
sec-Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
p-Isopropyltoluene	µg/kg	1	ISO 17025	-	-	-	-	< 1.0

Analytical Report Number: 21-54995
 Project / Site name: Holloway Prison
 Your Order No: 108002

Lab Sample Number	1759684	1759685	1759686	1759687	1759688			
Sample Reference	WS06	WS03	WS03	WS07A	WS04			
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth (m)	0.50	0.30	1.00	0.60	0.30			
Date Sampled	02/02/2021	02/02/2021	02/02/2021	02/02/2021	02/02/2021			
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
1,2-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,4-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Hexachlorobutadiene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	-	-	-	< 1.0

SVOCS

Aniline	mg/kg	0.1	NONE	-	-	-	-	< 0.1
Phenol	mg/kg	0.2	ISO 17025	-	-	-	-	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	-	-	-	-	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	-	-	-	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	-	-	-	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
Hexachloroethane	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	-	-	-	-	< 0.2
Isophorone	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
2-Nitrophenol	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
Naphthalene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	-	-	-	-	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	-	-	-	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	-	-	-	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	-	-	-	-	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-	-	-	< 0.1
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	-	-	-	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	-	-	-	-	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	-	-	-	-	< 0.1
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	-	-	-	-	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
4-Nitroaniline	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
Fluorene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Azobenzene	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
Phenanthrene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Anthracene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Carbazole	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
Dibutyl phthalate	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
Anthraquinone	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3

Analytical Report Number: 21-54995
 Project / Site name: Holloway Prison
 Your Order No: 108002

Lab Sample Number				1759684	1759685	1759686	1759687	1759688
Sample Reference				WS06	WS03	WS03	WS07A	WS04
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	0.30	1.00	0.60	0.30
Date Sampled				02/02/2021	02/02/2021	02/02/2021	02/02/2021	02/02/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Pyrene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	-	-	-	-	< 0.3
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Chrysene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05

PCBs by GC-MS

PCB Congener 28	mg/kg	0.001	MCERTS	-	-	-	-	< 0.001
PCB Congener 52	mg/kg	0.001	MCERTS	-	-	-	-	< 0.001
PCB Congener 101	mg/kg	0.001	MCERTS	-	-	-	-	< 0.001
PCB Congener 118	mg/kg	0.001	MCERTS	-	-	-	-	< 0.001
PCB Congener 138	mg/kg	0.001	MCERTS	-	-	-	-	< 0.001
PCB Congener 153	mg/kg	0.001	MCERTS	-	-	-	-	< 0.001
PCB Congener 180	mg/kg	0.001	MCERTS	-	-	-	-	< 0.001

Total PCBs by GC-MS

Total PCBs	mg/kg	0.007	MCERTS	-	-	-	-	< 0.007
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U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number: 21-54995
 Project / Site name: Holloway Prison
 Your Order No: 108002

Lab Sample Number				1759689	1759690	1759691	1759692	1759693
Sample Reference				WS04	WS09	WS08	WS08	WS05
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				2.00	0.50	1.00	2.00	0.50
Date Sampled				02/02/2021	02/02/2021	02/02/2021	02/02/2021	02/02/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	18	20	20	18	20
Total mass of sample received	kg	0.001	NONE	1.2	1.0	0.7	0.7	1.0

Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	-	-	-	-
Asbestos in Soil	Type	N/A	ISO 17025	-	Not-detected	Not-detected	-	Not-detected
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	-	-	-	-	-
Asbestos Quantification Total	%	0.001	ISO 17025	-	-	-	-	-

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.9	8.3	8.5	7.6	7.9
Organic Matter	%	0.1	MCERTS	0.1	1.1	1.2	0.2	2.5
Fraction Organic Carbon (FOC)	N/A	0.001	MCERTS	< 0.0010	0.0063	0.0067	0.0013	0.015
Total Organic Carbon (TOC)	%	0.1	MCERTS	< 0.1	0.6	0.7	0.1	1.5

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	0.21
Anthracene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	0.33
Pyrene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	0.3
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	0.24
Chrysene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	0.19
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	< 0.05
Coronene	mg/kg	0.05	NONE	< 0.05	-	-	-	< 0.05

Total PAH

Total WAC-17 PAHs	mg/kg	0.85	NONE	< 0.85	-	-	-	1.27
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Analytical Report Number: 21-54995
 Project / Site name: Holloway Prison
 Your Order No: 108002

Lab Sample Number				1759689	1759690	1759691	1759692	1759693
Sample Reference				WS04	WS09	WS08	WS08	WS05
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				2.00	0.50	1.00	2.00	0.50
Date Sampled				02/02/2021	02/02/2021	02/02/2021	02/02/2021	02/02/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	15	12	20	14	13
Barium (aqua regia extractable)	mg/kg	1	MCERTS	29	53	110	25	81
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.2	0.98	1.7	1.3	0.94
Boron (water soluble)	mg/kg	0.2	MCERTS	0.5	0.3	1.6	1.3	0.5
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Chromium (III)	mg/kg	1	NONE	48	37	40	48	32
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	49	37	40	48	32
Copper (aqua regia extractable)	mg/kg	1	MCERTS	33	29	51	27	40
Lead (aqua regia extractable)	mg/kg	1	MCERTS	15	48	220	18	120
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	0.5	0.4	< 0.3	0.5
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	0.4	1.0	1.7	0.47	1.1
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	45	35	45	48	21
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	88	74	88	83	68
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	82	79	130	82	69

Monoaromatics & Oxygenates

Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4	< 8.4	< 8.4
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic (EC5 - EC44)	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4	< 8.4	< 8.4
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic (EC5 - EC44)	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10

Analytical Report Number: 21-54995
 Project / Site name: Holloway Prison
 Your Order No: 108002

Lab Sample Number				1759689	1759690	1759691	1759692	1759693
Sample Reference				WS04	WS09	WS08	WS08	WS05
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				2.00	0.50	1.00	2.00	0.50
Date Sampled				02/02/2021	02/02/2021	02/02/2021	02/02/2021	02/02/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
Chloroethane	µg/kg	1	NONE	< 1.0	-	-	-	-
Bromomethane	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
Vinyl Chloride	µg/kg	1	NONE	< 1.0	-	-	-	-
Trichlorofluoromethane	µg/kg	1	NONE	< 1.0	-	-	-	-
1,1-Dichloroethene	µg/kg	1	NONE	< 1.0	-	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0	-	-	-	-
2,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Trichloromethane	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,1-Dichloropropene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0	-	-	-	-
Benzene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Trichloroethene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Dibromomethane	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Bromodichloromethane	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
Toluene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
Tetrachloroethene	µg/kg	1	NONE	< 1.0	-	-	-	-
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
Chlorobenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
p & m-Xylene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Styrene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Tribromomethane	µg/kg	1	NONE	< 1.0	-	-	-	-
o-Xylene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Isopropylbenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Bromobenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
2-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
4-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
tert-Butylbenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
sec-Butylbenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0	-	-	-	-

Analytical Report Number: 21-54995
 Project / Site name: Holloway Prison
 Your Order No: 108002

Lab Sample Number	1759689	1759690	1759691	1759692	1759693			
Sample Reference	WS04	WS09	WS08	WS08	WS05			
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth (m)	2.00	0.50	1.00	2.00	0.50			
Date Sampled	02/02/2021	02/02/2021	02/02/2021	02/02/2021	02/02/2021			
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Butylbenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Hexachlorobutadiene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	< 1.0	-	-	-	-

SVOCs

Aniline	mg/kg	0.1	NONE	< 0.1	-	-	-	-
Phenol	mg/kg	0.2	ISO 17025	< 0.2	-	-	-	-
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	-	-	-	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2	-	-	-	-
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	-	-	-	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	-	-	-	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	-	-	-	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1	-	-	-	-
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	-	-	-	-
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	-	-	-	-
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	-	-	-	-
Isophorone	mg/kg	0.2	MCERTS	< 0.2	-	-	-	-
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3	-	-	-	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	-	-	-	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	-	-	-	-
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	-	-	-	-
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	-	-	-	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1	-	-	-	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	-	-	-	-
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1	-	-	-	-
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2	-	-	-	-
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1	-	-	-	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	-	-	-	-
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	-	-	-	-
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1	-	-	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2	-	-	-	-
Dibenzofuran	mg/kg	0.2	MCERTS	< 0.2	-	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3	-	-	-	-
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	-	-	-	-
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2	-	-	-	-
Fluorene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
Azobenzene	mg/kg	0.3	MCERTS	< 0.3	-	-	-	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	-	-	-	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3	-	-	-	-
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
Anthracene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
Carbazole	mg/kg	0.3	MCERTS	< 0.3	-	-	-	-
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2	-	-	-	-
Anthraquinone	mg/kg	0.3	MCERTS	< 0.3	-	-	-	-

Analytical Report Number: 21-54995
 Project / Site name: Holloway Prison
 Your Order No: 108002

Lab Sample Number				1759689	1759690	1759691	1759692	1759693
Sample Reference				WS04	WS09	WS08	WS08	WS05
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				2.00	0.50	1.00	2.00	0.50
Date Sampled				02/02/2021	02/02/2021	02/02/2021	02/02/2021	02/02/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
Pyrene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3	-	-	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
Chrysene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-

PCBs by GC-MS

PCB Congener 28	mg/kg	0.001	MCERTS	< 0.001	-	-	-	-
PCB Congener 52	mg/kg	0.001	MCERTS	< 0.001	-	-	-	-
PCB Congener 101	mg/kg	0.001	MCERTS	< 0.001	-	-	-	-
PCB Congener 118	mg/kg	0.001	MCERTS	< 0.001	-	-	-	-
PCB Congener 138	mg/kg	0.001	MCERTS	< 0.001	-	-	-	-
PCB Congener 153	mg/kg	0.001	MCERTS	< 0.001	-	-	-	-
PCB Congener 180	mg/kg	0.001	MCERTS	< 0.001	-	-	-	-

Total PCBs by GC-MS

Total PCBs	mg/kg	0.007	MCERTS	< 0.007	-	-	-	-
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U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number: 21-54995
 Project / Site name: Holloway Prison
 Your Order No: 108002

Lab Sample Number				1759694	1759695
Sample Reference				WS10	BH13
Sample Number				None Supplied	None Supplied
Depth (m)				0.50	1.00
Date Sampled				02/02/2021	02/02/2021
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		
Stone Content	%	0.1	NONE	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	17	19
Total mass of sample received	kg	0.001	NONE	0.9	0.9

Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	Chrysotile	-
Asbestos in Soil	Type	N/A	ISO 17025	Detected	Not-detected
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	< 0.001	-
Asbestos Quantification Total	%	0.001	ISO 17025	< 0.001	-

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.2	8.4
Organic Matter	%	0.1	MCERTS	2.1	0.3
Fraction Organic Carbon (FOC)	N/A	0.001	MCERTS	0.012	0.0017
Total Organic Carbon (TOC)	%	0.1	MCERTS	1.2	0.2

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	0.38	2.3
Anthracene	mg/kg	0.05	MCERTS	< 0.05	0.8
Fluoranthene	mg/kg	0.05	MCERTS	0.73	3.1
Pyrene	mg/kg	0.05	MCERTS	0.67	2.6
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.48	1.6
Chrysene	mg/kg	0.05	MCERTS	0.35	1.5
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	0.53	1.3
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	0.2	0.55
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.41	0.93
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.24	0.51
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.4	0.66
Coronene	mg/kg	0.05	NONE	< 0.05	< 0.05

Total PAH

Total WAC-17 PAHs	mg/kg	0.85	NONE	4.39	15.8
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Analytical Report Number: 21-54995
 Project / Site name: Holloway Prison
 Your Order No: 108002

Lab Sample Number				1759694	1759695
Sample Reference				WS10	BH13
Sample Number				None Supplied	None Supplied
Depth (m)				0.50	1.00
Date Sampled				02/02/2021	02/02/2021
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		
Heavy Metals / Metalloids					
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	21	13
Barium (aqua regia extractable)	mg/kg	1	MCERTS	340	55
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.4	1.2
Boron (water soluble)	mg/kg	0.2	MCERTS	1.0	2.0
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0
Chromium (III)	mg/kg	1	NONE	39	42
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	40	42
Copper (aqua regia extractable)	mg/kg	1	MCERTS	170	32
Lead (aqua regia extractable)	mg/kg	1	MCERTS	190	130
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	1.8	< 0.3
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	1.8	1.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	44	42
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	83	89
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	240	83

Monoaromatics & Oxygenates

	µg/kg	1	MCERTS	< 1.0	< 1.0
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0

Petroleum Hydrocarbons

	mg/kg	0.001	MCERTS	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	21	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	400	< 8.0
TPH-CWG - Aliphatic > EC35 - EC44	mg/kg	8.4	NONE	26	< 8.4
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	420	< 10
TPH-CWG - Aliphatic (EC5 - EC44)	mg/kg	10	NONE	450	< 10

	mg/kg	0.001	MCERTS	< 0.001	< 0.001
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	91	13
TPH-CWG - Aromatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4	< 8.4
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	99	22
TPH-CWG - Aromatic (EC5 - EC44)	mg/kg	10	NONE	99	22

Analytical Report Number: 21-54995
 Project / Site name: Holloway Prison
 Your Order No: 108002

Lab Sample Number				1759694	1759695
Sample Reference				WS10	BH13
Sample Number				None Supplied	None Supplied
Depth (m)				0.50	1.00
Date Sampled				02/02/2021	02/02/2021
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		
VOCs					
Chloromethane	µg/kg	1	ISO 17025	-	-
Chloroethane	µg/kg	1	NONE	-	-
Bromomethane	µg/kg	1	ISO 17025	-	-
Vinyl Chloride	µg/kg	1	NONE	-	-
Trichlorofluoromethane	µg/kg	1	NONE	-	-
1,1-Dichloroethene	µg/kg	1	NONE	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	-
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-
1,1-Dichloroethane	µg/kg	1	MCERTS	-	-
2,2-Dichloropropane	µg/kg	1	MCERTS	-	-
Trichloromethane	µg/kg	1	MCERTS	-	-
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	-
1,2-Dichloroethane	µg/kg	1	MCERTS	-	-
1,1-Dichloropropene	µg/kg	1	MCERTS	-	-
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	-
Benzene	µg/kg	1	MCERTS	-	-
Tetrachloromethane	µg/kg	1	MCERTS	-	-
1,2-Dichloropropane	µg/kg	1	MCERTS	-	-
Trichloroethene	µg/kg	1	MCERTS	-	-
Dibromomethane	µg/kg	1	MCERTS	-	-
Bromodichloromethane	µg/kg	1	MCERTS	-	-
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-
Toluene	µg/kg	1	MCERTS	-	-
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	-
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	-
Dibromochloromethane	µg/kg	1	ISO 17025	-	-
Tetrachloroethene	µg/kg	1	NONE	-	-
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	-
Chlorobenzene	µg/kg	1	MCERTS	-	-
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-
Ethylbenzene	µg/kg	1	MCERTS	-	-
p & m-Xylene	µg/kg	1	MCERTS	-	-
Styrene	µg/kg	1	MCERTS	-	-
Tribromomethane	µg/kg	1	NONE	-	-
o-Xylene	µg/kg	1	MCERTS	-	-
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-
Isopropylbenzene	µg/kg	1	MCERTS	-	-
Bromobenzene	µg/kg	1	MCERTS	-	-
n-Propylbenzene	µg/kg	1	ISO 17025	-	-
2-Chlorotoluene	µg/kg	1	MCERTS	-	-
4-Chlorotoluene	µg/kg	1	MCERTS	-	-
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	-
tert-Butylbenzene	µg/kg	1	MCERTS	-	-
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	-
sec-Butylbenzene	µg/kg	1	MCERTS	-	-
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	-	-
p-Isopropyltoluene	µg/kg	1	ISO 17025	-	-

Analytical Report Number: 21-54995
 Project / Site name: Holloway Prison
 Your Order No: 108002

Lab Sample Number				1759694	1759695
Sample Reference				WS10	BH13
Sample Number				None Supplied	None Supplied
Depth (m)				0.50	1.00
Date Sampled				02/02/2021	02/02/2021
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		
1,2-Dichlorobenzene	µg/kg	1	MCERTS	-	-
1,4-Dichlorobenzene	µg/kg	1	MCERTS	-	-
Butylbenzene	µg/kg	1	MCERTS	-	-
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	-
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	-
Hexachlorobutadiene	µg/kg	1	MCERTS	-	-
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	-

SVOCs

Aniline	mg/kg	0.1	NONE	-	-
Phenol	mg/kg	0.2	ISO 17025	-	-
2-Chlorophenol	mg/kg	0.1	MCERTS	-	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	-
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	-
2-Methylphenol	mg/kg	0.3	MCERTS	-	-
Hexachloroethane	mg/kg	0.05	MCERTS	-	-
Nitrobenzene	mg/kg	0.3	MCERTS	-	-
4-Methylphenol	mg/kg	0.2	NONE	-	-
Isophorone	mg/kg	0.2	MCERTS	-	-
2-Nitrophenol	mg/kg	0.3	MCERTS	-	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	-
Naphthalene	mg/kg	0.05	MCERTS	-	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	-
4-Chloroaniline	mg/kg	0.1	NONE	-	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	-
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	-	-
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	-	-
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	-
Dimethylphthalate	mg/kg	0.1	MCERTS	-	-
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	-
Acenaphthene	mg/kg	0.05	MCERTS	-	-
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	-	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	-	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-
4-Nitroaniline	mg/kg	0.2	MCERTS	-	-
Fluorene	mg/kg	0.05	MCERTS	-	-
Azobenzene	mg/kg	0.3	MCERTS	-	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	-
Phenanthrene	mg/kg	0.05	MCERTS	-	-
Anthracene	mg/kg	0.05	MCERTS	-	-
Carbazole	mg/kg	0.3	MCERTS	-	-
Dibutyl phthalate	mg/kg	0.2	MCERTS	-	-
Anthraquinone	mg/kg	0.3	MCERTS	-	-

Analytical Report Number: 21-54995
 Project / Site name: Holloway Prison
 Your Order No: 108002

Lab Sample Number				1759694	1759695
Sample Reference				WS10	BH13
Sample Number				None Supplied	None Supplied
Depth (m)				0.50	1.00
Date Sampled				02/02/2021	02/02/2021
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		
Fluoranthene	mg/kg	0.05	MCERTS	-	-
Pyrene	mg/kg	0.05	MCERTS	-	-
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-
Chrysene	mg/kg	0.05	MCERTS	-	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-

PCBs by GC-MS

PCB Congener 28	mg/kg	0.001	MCERTS	-	-
PCB Congener 52	mg/kg	0.001	MCERTS	-	-
PCB Congener 101	mg/kg	0.001	MCERTS	-	-
PCB Congener 118	mg/kg	0.001	MCERTS	-	-
PCB Congener 138	mg/kg	0.001	MCERTS	-	-
PCB Congener 153	mg/kg	0.001	MCERTS	-	-
PCB Congener 180	mg/kg	0.001	MCERTS	-	-

Total PCBs by GC-MS

Total PCBs	mg/kg	0.007	MCERTS	-	-
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U/S = Unsuitable Sample I/S = Insufficient Sample



Analytical Report Number: 21-54995
Project / Site name: Holloway Prison
Your Order No: 108002

Certificate of Analysis - Asbestos Quantification

Methods:

Qualitative Analysis

The samples were analysed qualitatively for asbestos by polarising light and dispersion staining as described by the Health and Safety Executive in HSG 248.

Quantitative Analysis

The analysis was carried out using our documented in-house method A006-PL based on HSE Contract Research Report No: 83/1996: Development and Validation of an analytical method to determine the amount of asbestos in soils and loose aggregates (Davies et al, 1996) and HSG 248. Our method includes initial examination of the entire representative sample, then fractionation and detailed analysis of each fraction, with quantification by hand picking and weighing.

The limit of detection (reporting limit) of this method is 0.001 %.

The method has been validated using samples of at least 100 g, results for samples smaller than this should be interpreted with caution.

Both Qualitative and Quantitative Analyses are UKAS accredited.

Sample Number	Sample ID	Sample Depth (m)	Sample Weight (g)	Asbestos Containing Material Types Detected (ACM)	PLM Results	Asbestos by hand picking/weighing (%)	Total % Asbestos in Sample
1759694	WS10	0.50	121	Loose Fibres	Chrysotile	< 0.001	< 0.001

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.



Analytical Report Number : 21-54995
Project / Site name: Holloway Prison

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
1759684	WS06	None Supplied	0.5	Brown clay and sand with gravel and vegetation.
1759685	WS03	None Supplied	0.3	Grey clay and sand with gravel.
1759686	WS03	None Supplied	1	Brown clay.
1759687	WS07A	None Supplied	0.6	Brown clay and sand with gravel and vegetation.
1759688	WS04	None Supplied	0.3	Brown clay and sand with gravel.
1759689	WS04	None Supplied	2	Brown clay and sand.
1759690	WS09	None Supplied	0.5	Brown clay and sand with gravel and vegetation.
1759691	WS08	None Supplied	1	Brown clay and sand with gravel and vegetation.
1759692	WS08	None Supplied	2	Brown clay and sand.
1759693	WS05	None Supplied	0.5	Brown clay and sand with gravel and vegetation.
1759694	WS10	None Supplied	0.5	Brown clay and sand with gravel and vegetation.
1759695	BH13	None Supplied	1	Brown clay and sand with gravel.

Analytical Report Number : 21-54995
Project / Site name: Holloway Prison

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Fraction of Organic Carbon in soil	Determination of fraction of organic carbon in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
Speciated WAC-17 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270. MCERTS accredited except Coronene.	L064-PL	D	NONE
PCB's By GC-MS in soil	Determination of PCB by extraction with acetone and hexane followed by GC-MS.	In-house method based on USEPA 8082	L027-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
Cr (III) in soil	In-house method by calculation from total Cr and Cr VI.	In-house method by calculation	L080-PL	W	NONE
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L088/76-PL	W	MCERTS

Analytical Report Number : 21-54995
Project / Site name: Holloway Prison

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	NONE
Asbestos Quantification - Gravimetric	Asbestos quantification by gravimetric method - in house method based on references.	HSE Report No: 83/1996, HSG 248, HSG 264 & SCA Blue Book (draft).	A006-PL	D	ISO 17025
D.O. for Gravimetric Quant if Screen/ID positive	Dependent option for Gravimetric Quant if Screen/ID positive scheduled.	In house asbestos methods A001 & A006.	A006-PL	D	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.



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Analytical Report Number : 21-55000

Project / Site name:	Holloway Prison	Samples received on:	03/02/2021
Your job number:	WIE16172	Samples instructed on/ Analysis started on:	04/02/2021
Your order number:	108002	Analysis completed by:	11/02/2021
Report Issue Number:	1	Report issued on:	11/02/2021
Samples Analysed:	3 10:1 WAC samples		

Signed: *Karolina Marek*

Karolina Marek
PL Head of Reporting Team
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

Excel copies of reports are only valid when accompanied by this PDF certificate.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.

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Waste Acceptance Criteria Analytical Results							
Report No:	21-55000						
Client:	WATERMAN						
Location	Holloway Prison						
Lab Reference (Sample Number)	1759753 / 1759754						
Sampling Date	02/02/2021						
Sample ID	WS04						
Depth (m)	0.30						
					Limits		
					Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Solid Waste Analysis							
TOC (%)**	0.1				3%	5%	6%
Loss on Ignition (%) **	1.2				--	--	10%
BTEX (µg/kg) **	< 10				6000	--	--
Sum of PCBs (mg/kg) **	< 0.007				1	--	--
Mineral Oil (mg/kg)	< 10				500	--	--
Total PAH (WAC-17) (mg/kg)	< 0.85				100	--	--
pH (units)**	8.1				--	>6	--
Acid Neutralisation Capacity (mol / kg)	2.5				--	To be evaluated	To be evaluated
Eluate Analysis							
(BS EN 12457 - 2 preparation utilising end over end leaching procedure)	10:1			10:1	Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)		
	mg/l			mg/kg			
Arsenic *	0.0041			0.0368	0.5	2	25
Barium *	0.0154			0.139	20	100	300
Cadmium *	< 0.0001			< 0.0008	0.04	1	5
Chromium *	0.0018			0.016	0.5	10	70
Copper *	0.0087			0.079	2	50	100
Mercury *	< 0.0005			< 0.0050	0.01	0.2	2
Molybdenum *	0.0080			0.0720	0.5	10	30
Nickel *	0.0040			0.037	0.4	10	40
Lead *	0.0079			0.072	0.5	10	50
Antimony *	< 0.0017			< 0.017	0.06	0.7	5
Selenium *	< 0.0040			< 0.040	0.1	0.5	7
Zinc *	0.023			0.21	4	50	200
Chloride *	3.1			28	800	15000	25000
Fluoride	0.25			2.2	10	150	500
Sulphate *	3.0			27	1000	20000	50000
TDS*	45			410	4000	60000	100000
Phenol Index (Monohydric Phenols) *	< 0.010			< 0.10	1	-	-
DOC	5.88			53.2	500	800	1000
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	1.0						
Dry Matter (%)	96						
Moisture (%)	4.0						
Results are expressed on a dry weight basis, after correction for moisture content where applicable. *= UKAS accredited (liquid eluate analysis only)							
Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation ** = MCERTS accredited							

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3. This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous.

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Waste Acceptance Criteria Analytical Results							
Report No:	21-55000						
Client:	WATERMAN						
Location	Holloway Prison						
Lab Reference (Sample Number)	1759755 / 1759756						
Sampling Date	02/02/2021						
Sample ID	WS04						
Depth (m)	2.00						
				Limits			
				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill	
Solid Waste Analysis							
TOC (%)**	0.1				3%	5%	6%
Loss on Ignition (%) **	3.5				--	--	10%
BTEX (µg/kg) **	< 10				6000	--	--
Sum of PCBs (mg/kg) **	< 0.007				1	--	--
Mineral Oil (mg/kg)	< 10				500	--	--
Total PAH (WAC-17) (mg/kg)	< 0.85				100	--	--
pH (units)**	7.0				--	>6	--
Acid Neutralisation Capacity (mol / kg)	0.00				--	To be evaluated	To be evaluated
Eluate Analysis	10:1			10:1	Limit values for compliance leaching test		
(BS EN 12457 - 2 preparation utilising end over end leaching procedure)	mg/l			mg/kg	using BS EN 12457-2 at L/S 10 l/kg (mg/kg)		
Arsenic *	0.0025			0.0200	0.5	2	25
Barium *	0.0419			0.339	20	100	300
Cadmium *	< 0.0001			< 0.0008	0.04	1	5
Chromium *	0.0011			0.0088	0.5	10	70
Copper *	0.011			0.088	2	50	100
Mercury *	< 0.0005			< 0.0050	0.01	0.2	2
Molybdenum *	0.0088			0.0712	0.5	10	30
Nickel *	0.0025			0.021	0.4	10	40
Lead *	0.0012			< 0.010	0.5	10	50
Antimony *	< 0.0017			< 0.017	0.06	0.7	5
Selenium *	< 0.0040			< 0.040	0.1	0.5	7
Zinc *	0.014			0.11	4	50	200
Chloride *	7.1			57	800	15000	25000
Fluoride	1.2			10	10	150	500
Sulphate *	30			240	1000	20000	50000
TDS*	120			940	4000	60000	100000
Phenol Index (Monohydric Phenols) *	< 0.010			< 0.10	1	-	-
DOC	4.90			39.7	500	800	1000
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	1.2						
Dry Matter (%)	82						
Moisture (%)	18						
Results are expressed on a dry weight basis, after correction for moisture content where applicable.				* = UKAS accredited (liquid eluate analysis only)			
Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation				** = MCERTS accredited			

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3.
This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous.

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Waste Acceptance Criteria Analytical Results							
Report No:	21-55000						
Client:	WATERMAN						
Location	Holloway Prison						
Lab Reference (Sample Number)	1759757 / 1759758						
Sampling Date	02/02/2021						
Sample ID	WS10						
Depth (m)	0.50						
				Limits			
				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill	
Solid Waste Analysis							
TOC (%)**	1.1				3%	5%	6%
Loss on Ignition (%) **	5.0				--	--	10%
BTEX (µg/kg) **	< 10				6000	--	--
Sum of PCBs (mg/kg) **	< 0.007				1	--	--
Mineral Oil (mg/kg)	450				500	--	--
Total PAH (WAC-17) (mg/kg)	3.62				100	--	--
pH (units)**	8.4				--	>6	--
Acid Neutralisation Capacity (mol / kg)	2.5				--	To be evaluated	To be evaluated
Eluate Analysis	10:1			10:1	Limit values for compliance leaching test		
(BS EN 12457 - 2 preparation utilising end over end leaching procedure)	mg/l			mg/kg	using BS EN 12457-2 at L/S 10 l/kg (mg/kg)		
Arsenic *	0.0023			0.0173	0.5	2	25
Barium *	0.0228			0.171	20	100	300
Cadmium *	< 0.0001			< 0.0008	0.04	1	5
Chromium *	0.0009			0.0071	0.5	10	70
Copper *	0.0087			0.066	2	50	100
Mercury *	< 0.0005			< 0.0050	0.01	0.2	2
Molybdenum *	0.0092			0.0695	0.5	10	30
Nickel *	0.0040			0.030	0.4	10	40
Lead *	0.0071			0.053	0.5	10	50
Antimony *	< 0.0017			< 0.017	0.06	0.7	5
Selenium *	< 0.0040			< 0.040	0.1	0.5	7
Zinc *	0.0067			0.051	4	50	200
Chloride *	2.2			16	800	15000	25000
Fluoride	0.60			4.5	10	150	500
Sulphate *	4.4			33	1000	20000	50000
TDS*	63			470	4000	60000	100000
Phenol Index (Monohydric Phenols) *	< 0.010			< 0.10	1	-	-
DOC	6.59			49.5	500	800	1000
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	0.90						
Dry Matter (%)	83						
Moisture (%)	17						
Results are expressed on a dry weight basis, after correction for moisture content where applicable.				* = UKAS accredited (liquid eluate analysis only)			
Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation				** = MCERTS accredited			

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3.
This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous.



Analytical Report Number : 21-55000
Project / Site name: Holloway Prison

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
1759753	WS04	None Supplied	0.3	Brown clay and sand with gravel.
1759755	WS04	None Supplied	2	Brown clay and sand.
1759757	WS10	None Supplied	0.5	Brown clay and sand with gravel and vegetation.

Analytical Report Number : 21-55000
Project / Site name: Holloway Prison

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
BS EN 12457-2 (10:1) Leachate Prep	10:1 (as received, moisture adjusted) end over end extraction with water for 24 hours. Eluate filtered prior to analysis.	In-house method based on BSEN12457-2.	L043-PL	W	NONE
Acid neutralisation capacity of soil	Determination of acid neutralisation capacity by addition of acid or alkali followed by electronic probe.	In-house method based on Guidance an Sampling and Testing of Wastes to Meet Landfill Waste Acceptance""	L046-PL	W	NONE
Loss on ignition of soil @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace.	In house method.	L047-PL	D	MCERTS
Mineral Oil (Soil) C10 - C40	Determination of mineral oil fraction extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L076-PL	D	NONE
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Speciated WAC-17 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270. MCERTS accredited except Coronene.	L064-PL	D	NONE
PCB's By GC-MS in soil	Determination of PCB by extraction with acetone and hexane followed by GC-MS.	In-house method based on USEPA 8082	L027-PL	D	MCERTS
pH at 20oC in soil	Determination of pH in soil by addition of water followed by electrometric measurement.	In house method.	L005-PL	W	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
BTEX in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
Total BTEX in soil (Poland)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073-PL	W	MCERTS
Metals in leachate by ICP-OES	Determination of metals in leachate by acidification followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil""	L039-PL	W	ISO 17025
Chloride 10:1 WAC	Determination of Chloride colorimetrically by discrete analyser.	In house based on MEWAM Method ISBN 0117516260.	L082-PL	W	ISO 17025
Fluoride 10:1 WAC	Determination of fluoride in leachate by 1:1ratio with a buffer solution followed by Ion Selective Electrode.	In-house method based on Use of Total Ionic Strength Adjustment Buffer for Electrode Determination"	L033B-PL	W	ISO 17025
Sulphate 10:1 WAC	Determination of sulphate in leachate by ICP-OES	In-house method based on MEWAM 1986 Methods for the Determination of Metals in Soil""	L039-PL	W	ISO 17025
Total dissolved solids 10:1 WAC	Determination of total dissolved solids in water by electrometric measurement.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L004-PL	W	ISO 17025

Analytical Report Number : 21-55000
Project / Site name: Holloway Prison

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Monohydric phenols 10:1 WAC	Determination of phenols in leachate by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	ISO 17025
Dissolved organic carbon 10:1 WAC	Determination of dissolved inorganic carbon in leachate by TOC/DOC NDIR Analyser.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L037-PL	W	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.



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Analytical Report Number : 21-55004

Project / Site name:	Holloway Prison	Samples received on:	02/02/2021
Your job number:	WIE16172	Samples instructed on/ Analysis started on:	04/02/2021
Your order number:	107965	Analysis completed by:	11/02/2021
Report Issue Number:	1	Report issued on:	11/02/2021
Samples Analysed:	1 soil sample		

Signed: _____

Joanna Wawrzeczko
Technical Reviewer (Reporting Team)
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Analytical Report Number: 21-55004
 Project / Site name: Holloway Prison
 Your Order No: 107965

Lab Sample Number				1759768
Sample Reference				WS11
Sample Number				None Supplied
Depth (m)				4.00
Date Sampled				01/02/2021
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	
Stone Content	%	0.1	NONE	< 0.1
Moisture Content	%	0.01	NONE	23
Total mass of sample received	kg	0.001	NONE	0.9

Monoaromatics & Oxygenates

Benzene	µg/kg	1	MCERTS	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0
TPH-CWG - Aliphatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10
TPH-CWG - Aliphatic (EC5 - EC44)	mg/kg	10	NONE	< 10

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10
TPH-CWG - Aromatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10
TPH-CWG - Aromatic (EC5 - EC44)	mg/kg	10	NONE	< 10

U/S = Unsuitable Sample I/S = Insufficient Sample



Analytical Report Number : 21-55004
Project / Site name: Holloway Prison

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
1759768	WS11	None Supplied	4	Brown clay with gravel.

Analytical Report Number : 21-55004
Project / Site name: Holloway Prison

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L088/76-PL	W	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.



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Analytical Report Number : 21-55440

Project / Site name:	Holloway Prison	Samples received on:	04/02/2021
Your job number:	WIE16172	Samples instructed on/ Analysis started on:	08/02/2021
Your order number:	108024	Analysis completed by:	12/02/2021
Report Issue Number:	1	Report issued on:	12/02/2021
Samples Analysed:	2 soil samples		

Signed: *Karolina Marek*

Karolina Marek
PL Head of Reporting Team
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Analytical Report Number: 21-55440
 Project / Site name: Holloway Prison
 Your Order No: 108024

Lab Sample Number				1762536	1762537
Sample Reference				BH05	BH05
Sample Number				None Supplied	None Supplied
Depth (m)				0.50	2.00
Date Sampled				03/02/2021	03/02/2021
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		
Stone Content	%	0.1	NONE	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	23	24
Total mass of sample received	kg	0.001	NONE	1.2	1.2

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	-

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.2	7.3
Organic Matter	%	0.1	MCERTS	0.2	< 0.1
Fraction Organic Carbon (FOC)	N/A	0.001	MCERTS	0.001	< 0.0010
Total Organic Carbon (TOC)	%	0.1	MCERTS	0.1	< 0.1

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	12	23
Barium (aqua regia extractable)	mg/kg	1	MCERTS	59	32
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.5	1.3
Boron (water soluble)	mg/kg	0.2	MCERTS	1	0.9
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0
Chromium (III)	mg/kg	1	NONE	54	48
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	55	48
Copper (aqua regia extractable)	mg/kg	1	MCERTS	39	33
Lead (aqua regia extractable)	mg/kg	1	MCERTS	22	15
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	0.39	0.6
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	65	46
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	99	87
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	120	89

Monoaromatics & Oxygenates

Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0

Analytical Report Number: 21-55440
 Project / Site name: Holloway Prison
 Your Order No: 108024

Lab Sample Number				1762536	1762537
Sample Reference				BH05	BH05
Sample Number				None Supplied	None Supplied
Depth (m)				0.50	2.00
Date Sampled				03/02/2021	03/02/2021
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	< 8.0
TPH-CWG - Aliphatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4	< 8.4
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10
TPH-CWG - Aliphatic (EC5 - EC44)	mg/kg	10	NONE	< 10	< 10

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	< 10
TPH-CWG - Aromatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4	< 8.4
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10
TPH-CWG - Aromatic (EC5 - EC44)	mg/kg	10	NONE	< 10	< 10

U/S = Unsuitable Sample I/S = Insufficient Sample



Analytical Report Number : 21-55440
Project / Site name: Holloway Prison

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
1762536	BH05	None Supplied	0.5	Brown clay with gravel.
1762537	BH05	None Supplied	2	Brown clay with gravel.

Analytical Report Number : 21-55440
Project / Site name: Holloway Prison

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Fraction of Organic Carbon in soil	Determination of fraction of organic carbon in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
Cr (III) in soil	In-house method by calculation from total Cr and Cr VI.	In-house method by calculation	L080-PL	W	NONE
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L088/76-PL	W	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	NONE
D.O. for Gravimetric Quant if Screen/ID positive	Dependent option for Gravimetric Quant if Screen/ID positive scheduled.	In house asbestos methods A001 & A006.	A006-PL	D	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.



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Analytical Report Number : 21-55642

Project / Site name:	Holloway Prison	Samples received on:	08/02/2021
Your job number:	WIE16172	Samples instructed on/ Analysis started on:	09/02/2021
Your order number:	108044	Analysis completed by:	16/02/2021
Report Issue Number:	1	Report issued on:	16/02/2021
Samples Analysed:	3 soil samples		

Signed: *Karolina Marek*

Karolina Marek
PL Head of Reporting Team
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Analytical Report Number: 21-55642
 Project / Site name: Holloway Prison
 Your Order No: 108044

Lab Sample Number				1763799	1763800	1763801
Sample Reference				BH16	BH16	BH19
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				1.70	3.50	0.50
Date Sampled				05/02/2021	05/02/2021	05/02/2021
Time Taken				None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status			
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	10	19	23
Total mass of sample received	kg	0.001	NONE	1.2	0.7	1.2

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	-	Not-detected

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	10	8.3	8.1
Organic Matter	%	0.1	MCERTS	0.9	3.3	0.7
Fraction Organic Carbon (FOC)	N/A	0.001	MCERTS	0.0055	0.019	0.0039
Total Organic Carbon (TOC)	%	0.1	MCERTS	0.5	1.9	0.4

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	-	-	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	-	-	< 0.05
Fluorene	mg/kg	0.05	MCERTS	-	-	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	-	-	< 0.05
Anthracene	mg/kg	0.05	MCERTS	-	-	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	-	-	< 0.05
Pyrene	mg/kg	0.05	MCERTS	-	-	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	< 0.05
Chrysene	mg/kg	0.05	MCERTS	-	-	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	-	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	-	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	< 0.05
Coronene	mg/kg	0.05	NONE	-	-	< 0.05

Total PAH

Total WAC-17 PAHs	mg/kg	0.85	NONE	-	-	< 0.85

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	21	15	11
Barium (aqua regia extractable)	mg/kg	1	MCERTS	200	21	31
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.78	1.2	1.4
Boron (water soluble)	mg/kg	0.2	MCERTS	0.9	2.0	0.7
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0
Chromium (III)	mg/kg	1	NONE	27	45	52
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	28	45	52
Copper (aqua regia extractable)	mg/kg	1	MCERTS	46	35	42
Lead (aqua regia extractable)	mg/kg	1	MCERTS	100	15	18
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	1.1	0.6	0.61
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	24	45	46
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	46	74	94
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	120	87	92

Analytical Report Number: 21-55642
 Project / Site name: Holloway Prison
 Your Order No: 108044

Lab Sample Number	1763799			1763800			1763801		
Sample Reference	BH16			BH16			BH19		
Sample Number	None Supplied			None Supplied			None Supplied		
Depth (m)	1.70			3.50			0.50		
Date Sampled	05/02/2021			05/02/2021			05/02/2021		
Time Taken	None Supplied			None Supplied			None Supplied		
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status						

Monoaromatics & Oxygenates

Compound	Units	Limit of detection	Accreditation Status	1763799	1763800	1763801
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

Compound	Units	Limit of detection	Accreditation Status	1763799	1763800	1763801
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	79	< 8.0	< 8.0
TPH-CWG - Aliphatic > EC35 - EC44	mg/kg	8.4	NONE	26	< 8.4	< 8.4
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	81	< 10	< 10
TPH-CWG - Aliphatic (EC5 - EC44)	mg/kg	10	NONE	110	< 10	< 10

Compound	Units	Limit of detection	Accreditation Status	1763799	1763800	1763801
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	10	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	27	< 10	< 10
TPH-CWG - Aromatic > EC35 - EC44	mg/kg	8.4	NONE	11	< 8.4	< 8.4
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	37	< 10	< 10
TPH-CWG - Aromatic (EC5 - EC44)	mg/kg	10	NONE	47	< 10	< 10

VOCS

Compound	Units	Limit of detection	Accreditation Status	1763799	1763800	1763801
Chloromethane	µg/kg	1	ISO 17025	-	-	< 1.0
Chloroethane	µg/kg	1	NONE	-	-	< 1.0
Bromomethane	µg/kg	1	ISO 17025	-	-	< 1.0
Vinyl Chloride	µg/kg	1	NONE	-	-	< 1.0
Trichlorofluoromethane	µg/kg	1	NONE	-	-	< 1.0
1,1-Dichloroethene	µg/kg	1	NONE	-	-	< 1.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	-	< 1.0
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	-	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	< 1.0
1,1-Dichloroethane	µg/kg	1	MCERTS	-	-	< 1.0
2,2-Dichloropropane	µg/kg	1	MCERTS	-	-	< 1.0
Trichloromethane	µg/kg	1	MCERTS	-	-	< 1.0
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	-	< 1.0
1,2-Dichloroethane	µg/kg	1	MCERTS	-	-	< 1.0
1,1-Dichloropropene	µg/kg	1	MCERTS	-	-	< 1.0
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	-	< 1.0
Benzene	µg/kg	1	MCERTS	-	-	< 1.0
Tetrachloromethane	µg/kg	1	MCERTS	-	-	< 1.0
1,2-Dichloropropane	µg/kg	1	MCERTS	-	-	< 1.0
Trichloroethene	µg/kg	1	MCERTS	-	-	< 1.0
Dibromomethane	µg/kg	1	MCERTS	-	-	< 1.0

Analytical Report Number: 21-55642
 Project / Site name: Holloway Prison
 Your Order No: 108044

Lab Sample Number				1763799	1763800	1763801
Sample Reference				BH16	BH16	BH19
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				1.70	3.50	0.50
Date Sampled				05/02/2021	05/02/2021	05/02/2021
Time Taken				None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status			
Bromodichloromethane	µg/kg	1	MCERTS	-	-	< 1.0
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	< 1.0
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	< 1.0
Toluene	µg/kg	1	MCERTS	-	-	< 1.0
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	-	< 1.0
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	-	< 1.0
Dibromochloromethane	µg/kg	1	ISO 17025	-	-	< 1.0
Tetrachloroethane	µg/kg	1	NONE	-	-	< 1.0
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	-	< 1.0
Chlorobenzene	µg/kg	1	MCERTS	-	-	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	-	-	< 1.0
p & m-Xylene	µg/kg	1	MCERTS	-	-	< 1.0
Styrene	µg/kg	1	MCERTS	-	-	< 1.0
Tribromomethane	µg/kg	1	NONE	-	-	< 1.0
o-Xylene	µg/kg	1	MCERTS	-	-	< 1.0
1,1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	< 1.0
Isopropylbenzene	µg/kg	1	MCERTS	-	-	< 1.0
Bromobenzene	µg/kg	1	MCERTS	-	-	< 1.0
n-Propylbenzene	µg/kg	1	ISO 17025	-	-	< 1.0
2-Chlorotoluene	µg/kg	1	MCERTS	-	-	< 1.0
4-Chlorotoluene	µg/kg	1	MCERTS	-	-	< 1.0
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	< 1.0
tert-Butylbenzene	µg/kg	1	MCERTS	-	-	< 1.0
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	< 1.0
sec-Butylbenzene	µg/kg	1	MCERTS	-	-	< 1.0
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	-	-	< 1.0
p-Isopropyltoluene	µg/kg	1	ISO 17025	-	-	< 1.0
1,2-Dichlorobenzene	µg/kg	1	MCERTS	-	-	< 1.0
1,4-Dichlorobenzene	µg/kg	1	MCERTS	-	-	< 1.0
Butylbenzene	µg/kg	1	MCERTS	-	-	< 1.0
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	-	< 1.0
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	-	< 1.0
Hexachlorobutadiene	µg/kg	1	MCERTS	-	-	< 1.0
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	-	< 1.0

SVOCs

Aniline	mg/kg	0.1	NONE	-	-	< 0.1
Phenol	mg/kg	0.2	ISO 17025	-	-	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	-	-	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	-	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	-	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	-	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	-	-	< 0.3
Hexachloroethane	mg/kg	0.05	MCERTS	-	-	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	-	-	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	-	-	< 0.2
Isophorone	mg/kg	0.2	MCERTS	-	-	< 0.2
2-Nitrophenol	mg/kg	0.3	MCERTS	-	-	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	-	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	-	< 0.3

Analytical Report Number: 21-55642
 Project / Site name: Holloway Prison
 Your Order No: 108044

Lab Sample Number				1763799	1763800	1763801
Sample Reference				BH16	BH16	BH19
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				1.70	3.50	0.50
Date Sampled				05/02/2021	05/02/2021	05/02/2021
Time Taken				None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status			
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	-	< 0.3
Naphthalene	mg/kg	0.05	MCERTS	-	-	< 0.05
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	-	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	-	-	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	-	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	-	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	-	-	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	-	-	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-	< 0.1
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	-	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	-	-	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	-	-	< 0.1
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	-	-	< 0.05
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	-	-	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	< 0.2
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	-	-	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	< 0.2
4-Nitroaniline	mg/kg	0.2	MCERTS	-	-	< 0.2
Fluorene	mg/kg	0.05	MCERTS	-	-	< 0.05
Azobenzene	mg/kg	0.3	MCERTS	-	-	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	-	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	-	< 0.3
Phenanthrene	mg/kg	0.05	MCERTS	-	-	< 0.05
Anthracene	mg/kg	0.05	MCERTS	-	-	< 0.05
Carbazole	mg/kg	0.3	MCERTS	-	-	< 0.3
Dibutyl phthalate	mg/kg	0.2	MCERTS	-	-	< 0.2
Anthraquinone	mg/kg	0.3	MCERTS	-	-	< 0.3
Fluoranthene	mg/kg	0.05	MCERTS	-	-	< 0.05
Pyrene	mg/kg	0.05	MCERTS	-	-	< 0.05
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	-	-	< 0.3
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	< 0.05
Chrysene	mg/kg	0.05	MCERTS	-	-	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	-	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	-	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	< 0.05

U/S = Unsuitable Sample I/S = Insufficient Sample



Analytical Report Number : 21-55642
Project / Site name: Holloway Prison

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
1763799	BH16	None Supplied	1.7	Brown sandy clay with gravel.
1763800	BH16	None Supplied	3.5	Brown clay.
1763801	BH19	None Supplied	0.5	Brown clay.

Analytical Report Number : 21-55642
Project / Site name: Holloway Prison

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Fraction of Organic Carbon in soil	Determination of fraction of organic carbon in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
Speciated WAC-17 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270. MCERTS accredited except Coronene.	L064-PL	D	NONE
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
Cr (III) in soil	In-house method by calculation from total Cr and Cr VI.	In-house method by calculation	L080-PL	W	NONE
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L088/76-PL	W	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	NONE



Analytical Report Number : 21-55642
Project / Site name: Holloway Prison

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
D.O. for Gravimetric Quant if Screen/ID positive	Dependent option for Gravimetric Quant if Screen/ID positive scheduled.	In house asbestos methods A001 & A006.	A006-PL	D	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Sample Deviation Report



Analytical Report Number : 21-55642
Project / Site name: Holloway Prison

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
BH16	None Supplied	S	1763800	b	BTEX and MTBE in soil (Monoaromatics)	L073B-PL	b
BH16	None Supplied	S	1763800	b	TPH in (Soil)	L076-PL	b
BH16	None Supplied	S	1763800	b	TPHCWG (Soil)	L088/76-PL	b



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Analytical Report Number : 21-56224

Project / Site name:	Holloway Prison	Samples received on:	10/02/2021
Your job number:	WIE16172	Samples instructed on/ Analysis started on:	11/02/2021
Your order number:	108075	Analysis completed by:	18/02/2021
Report Issue Number:	1	Report issued on:	18/02/2021
Samples Analysed:	3 soil samples		

Signed:

Joanna Wawrzeczko
Technical Reviewer (Reporting Team)
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 21-56224
 Project / Site name: Holloway Prison
 Your Order No: 108075

Lab Sample Number				1766824	1766825	1766826
Sample Reference				BH01E	BH01E	BH12
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				1.50	3.00	0.50
Date Sampled				09/02/2021	09/02/2021	09/02/2021
Time Taken				None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status			
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	21	22	24
Total mass of sample received	kg	0.001	NONE	2	1	1

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	-	Not-detected

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	9.3	7.8	7.8
Organic Matter	%	0.1	MCERTS	0.9	0.2	2.4
Fraction Organic Carbon (FOC)	N/A	0.001	MCERTS	0.0052	0.0014	0.014
Total Organic Carbon (TOC)	%	0.1	MCERTS	0.5	0.1	1.4

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	-	-	0.99
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	-	-	0.88
Fluorene	mg/kg	0.05	MCERTS	-	-	0.7
Phenanthrene	mg/kg	0.05	MCERTS	-	-	10
Anthracene	mg/kg	0.05	MCERTS	-	-	2.2
Fluoranthene	mg/kg	0.05	MCERTS	-	-	27
Pyrene	mg/kg	0.05	MCERTS	-	-	25
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	15
Chrysene	mg/kg	0.05	MCERTS	-	-	14
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	-	21
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	-	6.5
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	16
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	8.8
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	2.6
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	10
Coronene	mg/kg	0.05	NONE	-	-	2.2

Total PAH

Total WAC-17 PAHs	mg/kg	0.85	NONE	-	-	164

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	18	14	21
Barium (aqua regia extractable)	mg/kg	1	MCERTS	60	28	120
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.98	1.2	1.6
Boron (water soluble)	mg/kg	0.2	MCERTS	1.6	1.1	2.1
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0
Chromium (III)	mg/kg	1	NONE	39	40	41
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	39	40	41
Copper (aqua regia extractable)	mg/kg	1	MCERTS	32	33	67
Lead (aqua regia extractable)	mg/kg	1	MCERTS	49	17	170
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	0.5
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	1.1	0.54	1.6
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	29	47	42
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	73	71	85
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	110	88	140

Analytical Report Number: 21-56224
 Project / Site name: Holloway Prison
 Your Order No: 108075

Lab Sample Number	1766824			1766825			1766826		
Sample Reference	BH01E			BH01E			BH12		
Sample Number	None Supplied			None Supplied			None Supplied		
Depth (m)	1.50			3.00			0.50		
Date Sampled	09/02/2021			09/02/2021			09/02/2021		
Time Taken	None Supplied			None Supplied			None Supplied		
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status						

Monoaromatics & Oxygenates

Compound	Units	Limit of detection	Accreditation Status	1766824	1766825	1766826
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

Compound	Units	Limit of detection	Accreditation Status	1766824	1766825	1766826
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10
TPH-CWG - Aliphatic (EC5 - EC44)	mg/kg	10	NONE	< 10	< 10	< 10

Compound	Units	Limit of detection	Accreditation Status	1766824	1766825	1766826
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10	78
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	< 10	140
TPH-CWG - Aromatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	220
TPH-CWG - Aromatic (EC5 - EC44)	mg/kg	10	NONE	< 10	< 10	220

VOCS

Compound	Units	Limit of detection	Accreditation Status	1766824	1766825	1766826
Chloromethane	µg/kg	1	ISO 17025	-	-	< 1.0
Chloroethane	µg/kg	1	NONE	-	-	< 1.0
Bromomethane	µg/kg	1	ISO 17025	-	-	< 1.0
Vinyl Chloride	µg/kg	1	NONE	-	-	< 1.0
Trichlorofluoromethane	µg/kg	1	NONE	-	-	< 1.0
1,1-Dichloroethene	µg/kg	1	NONE	-	-	< 1.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	-	< 1.0
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	-	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	< 1.0
1,1-Dichloroethane	µg/kg	1	MCERTS	-	-	< 1.0
2,2-Dichloropropane	µg/kg	1	MCERTS	-	-	< 1.0
Trichloromethane	µg/kg	1	MCERTS	-	-	< 1.0
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	-	< 1.0
1,2-Dichloroethane	µg/kg	1	MCERTS	-	-	< 1.0
1,1-Dichloropropene	µg/kg	1	MCERTS	-	-	< 1.0
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	-	< 1.0
Benzene	µg/kg	1	MCERTS	-	-	< 1.0
Tetrachloromethane	µg/kg	1	MCERTS	-	-	< 1.0
1,2-Dichloropropane	µg/kg	1	MCERTS	-	-	< 1.0
Trichloroethene	µg/kg	1	MCERTS	-	-	< 1.0
Dibromomethane	µg/kg	1	MCERTS	-	-	< 1.0

Analytical Report Number: 21-56224
 Project / Site name: Holloway Prison
 Your Order No: 108075

Lab Sample Number				1766824	1766825	1766826
Sample Reference				BH01E	BH01E	BH12
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				1.50	3.00	0.50
Date Sampled				09/02/2021	09/02/2021	09/02/2021
Time Taken				None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status			
Bromodichloromethane	µg/kg	1	MCERTS	-	-	< 1.0
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	< 1.0
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	< 1.0
Toluene	µg/kg	1	MCERTS	-	-	< 1.0
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	-	< 1.0
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	-	< 1.0
Dibromochloromethane	µg/kg	1	ISO 17025	-	-	< 1.0
Tetrachloroethene	µg/kg	1	NONE	-	-	< 1.0
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	-	< 1.0
Chlorobenzene	µg/kg	1	MCERTS	-	-	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	-	-	< 1.0
p & m-Xylene	µg/kg	1	MCERTS	-	-	< 1.0
Styrene	µg/kg	1	MCERTS	-	-	< 1.0
Tribromomethane	µg/kg	1	NONE	-	-	< 1.0
o-Xylene	µg/kg	1	MCERTS	-	-	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	< 1.0
Isopropylbenzene	µg/kg	1	MCERTS	-	-	< 1.0
Bromobenzene	µg/kg	1	MCERTS	-	-	< 1.0
n-Propylbenzene	µg/kg	1	ISO 17025	-	-	< 1.0
2-Chlorotoluene	µg/kg	1	MCERTS	-	-	< 1.0
4-Chlorotoluene	µg/kg	1	MCERTS	-	-	< 1.0
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	< 1.0
tert-Butylbenzene	µg/kg	1	MCERTS	-	-	< 1.0
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	< 1.0
sec-Butylbenzene	µg/kg	1	MCERTS	-	-	< 1.0
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	-	-	< 1.0
p-Isopropyltoluene	µg/kg	1	ISO 17025	-	-	< 1.0
1,2-Dichlorobenzene	µg/kg	1	MCERTS	-	-	< 1.0
1,4-Dichlorobenzene	µg/kg	1	MCERTS	-	-	< 1.0
Butylbenzene	µg/kg	1	MCERTS	-	-	< 1.0
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	-	< 1.0
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	-	< 1.0
Hexachlorobutadiene	µg/kg	1	MCERTS	-	-	< 1.0
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	-	< 1.0

SVOCs

Aniline	mg/kg	0.1	NONE	-	-	< 0.1
Phenol	mg/kg	0.2	ISO 17025	-	-	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	-	-	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	-	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	-	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	-	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	-	-	< 0.3
Hexachloroethane	mg/kg	0.05	MCERTS	-	-	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	-	-	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	-	-	< 0.2
Isophorone	mg/kg	0.2	MCERTS	-	-	< 0.2
2-Nitrophenol	mg/kg	0.3	MCERTS	-	-	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	-	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	-	< 0.3

Analytical Report Number: 21-56224
 Project / Site name: Holloway Prison
 Your Order No: 108075

Lab Sample Number				1766824	1766825	1766826
Sample Reference				BH01E	BH01E	BH12
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				1.50	3.00	0.50
Date Sampled				09/02/2021	09/02/2021	09/02/2021
Time Taken				None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status			
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	-	< 0.3
Naphthalene	mg/kg	0.05	MCERTS	-	-	0.99
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	-	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	-	-	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	-	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	-	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	-	-	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	-	-	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-	0.5
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	-	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	-	-	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	-	-	< 0.1
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	-	-	0.88
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	-	-	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	0.7
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	-	-	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	< 0.2
4-Nitroaniline	mg/kg	0.2	MCERTS	-	-	< 0.2
Fluorene	mg/kg	0.05	MCERTS	-	-	0.7
Azobenzene	mg/kg	0.3	MCERTS	-	-	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	-	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	-	< 0.3
Phenanthrene	mg/kg	0.05	MCERTS	-	-	10
Anthracene	mg/kg	0.05	MCERTS	-	-	2.2
Carbazole	mg/kg	0.3	MCERTS	-	-	0.8
Dibutyl phthalate	mg/kg	0.2	MCERTS	-	-	< 0.2
Anthraquinone	mg/kg	0.3	MCERTS	-	-	0.6
Fluoranthene	mg/kg	0.05	MCERTS	-	-	27
Pyrene	mg/kg	0.05	MCERTS	-	-	25
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	-	-	< 0.3
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	15
Chrysene	mg/kg	0.05	MCERTS	-	-	14
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	-	21
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	-	6.5
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	16
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	8.8
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	2.6
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	10

U/S = Unsuitable Sample I/S = Insufficient Sample



Analytical Report Number : 21-56224
Project / Site name: Holloway Prison

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
1766824	BH01E	None Supplied	1.5	Brown clay and sand with gravel.
1766825	BH01E	None Supplied	3	Brown clay.
1766826	BH12	None Supplied	0.5	Brown clay and sand with vegetation.

Analytical Report Number : 21-56224
Project / Site name: Holloway Prison

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Fraction of Organic Carbon in soil	Determination of fraction of organic carbon in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
Speciated WAC-17 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270. MCERTS accredited except Coronene.	L064-PL	D	NONE
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
Cr (III) in soil	In-house method by calculation from total Cr and Cr VI.	In-house method by calculation	L080-PL	W	NONE
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L088/76-PL	W	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	NONE



Analytical Report Number : 21-56224
Project / Site name: Holloway Prison

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
D.O. for Gravimetric Quant if Screen/ID positive	Dependent option for Gravimetric Quant if Screen/ID positive scheduled.	In house asbestos methods A001 & A006.	A006-PL	D	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.



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Analytical Report Number : 21-56826

Project / Site name:	Holloway Prison	Samples received on:	12/02/2021
Your job number:	WIE16172	Samples instructed on/ Analysis started on:	15/02/2021
Your order number:	108122	Analysis completed by:	22/02/2021
Report Issue Number:	1	Report issued on:	22/02/2021
Samples Analysed:	2 soil samples		

Signed:

Joanna Wawrzeczko
Technical Reviewer (Reporting Team)
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 21-56826
 Project / Site name: Holloway Prison
 Your Order No: 108122

Lab Sample Number				1770243	1770244
Sample Reference				BH11	BH11
Sample Number				None Supplied	None Supplied
Depth (m)				0.50	1.00
Date Sampled				11/02/2021	11/02/2021
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		
Stone Content	%	0.1	NONE	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	17	18
Total mass of sample received	kg	0.001	NONE	1	1

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	-

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.9	7.9
Organic Matter	%	0.1	MCERTS	3.3	2.0
Total Organic Carbon (TOC)	%	0.1	MCERTS	1.9	1.2

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	19	25
Barium (aqua regia extractable)	mg/kg	1	MCERTS	160	190
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.2	1.4
Boron (water soluble)	mg/kg	0.2	MCERTS	1.0	2.4
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0
Chromium (III)	mg/kg	1	NONE	38	43
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	39	43
Cobalt (aqua regia extractable)	mg/kg	0.15	MCERTS	-	14
Copper (aqua regia extractable)	mg/kg	1	MCERTS	95	77
Lead (aqua regia extractable)	mg/kg	1	MCERTS	190	200
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	0.9
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	1.4	1.9
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	30	32
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	62	90
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	200	200

Monoaromatics & Oxygenates

Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0

Analytical Report Number: 21-56826
 Project / Site name: Holloway Prison
 Your Order No: 108122

Lab Sample Number				1770243	1770244
Sample Reference				BH11	BH11
Sample Number				None Supplied	None Supplied
Depth (m)				0.50	1.00
Date Sampled				11/02/2021	11/02/2021
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	9.1	< 8.0
TPH-CWG - Aliphatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4	< 8.4
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10
TPH-CWG - Aliphatic (EC5 - EC44)	mg/kg	10	NONE	< 10	< 10

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	< 10
TPH-CWG - Aromatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4	< 8.4
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	15	< 10
TPH-CWG - Aromatic (EC5 - EC44)	mg/kg	10	NONE	15	< 10

U/S = Unsuitable Sample I/S = Insufficient Sample



Analytical Report Number : 21-56826
Project / Site name: Holloway Prison

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
1770243	BH11	None Supplied	0.5	Brown clay and loam with gravel and vegetation.
1770244	BH11	None Supplied	1	Brown clay and loam with gravel and vegetation.

Analytical Report Number : 21-56826
Project / Site name: Holloway Prison

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
Hexavalent chromium in soil (Lower Level)	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
Cr (III) in soil	In-house method by calculation from total Cr and Cr VI.	In-house method by calculation	L080-PL	W	NONE
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L088/76-PL	W	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	NONE
D.O. for Gravimetric Quant if Screen/ID positive	Dependent option for Gravimetric Quant if Screen/ID positive scheduled.	In house asbestos methods A001 & A006.	A006-PL	D	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.



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Analytical Report Number : 21-59678

Project / Site name:	Holloway Prison	Samples received on:	25/02/2021
Your job number:	WIE16172	Samples instructed on/ Analysis started on:	26/02/2021
Your order number:	108817	Analysis completed by:	05/03/2021
Report Issue Number:	1	Report issued on:	05/03/2021
Samples Analysed:	2 water samples		

Signed:

Joanna Wawrzeczko
Technical Reviewer (Reporting Team)
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.