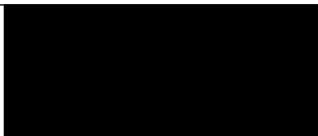
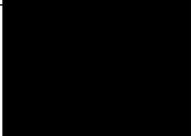
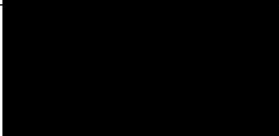




REMEDIAL OVERSIGHT & MATERIAL TRACKING (PFIZER, HAVANT)

Project Reference:	UK21.5634	
Title:	Remedial Oversight & Material Tracking (Pfizer, Havant)	
Client:	Havant Property LLP	
Date:	01/21/2022	
EPS Contact Details:	7B Caxton House Broad Street Cambourne Cambridge CB23 6JN	T: 01954 710666 F: 01954 710677 E: info@epstrategies.co.uk W: www.epstrategies.co.uk
Status:	Issue 1	

Author:	Reviewed:	Authorised:
	 	
Paul O'Connor	Marcus Bell	Will Evans
Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☒ Soil Excavation ☐ Stockpile	
Soil Grid Reference:	G4
Detailed Grid Reference:	50.8595517, -0.9720446
Stockpile Number:	
Top of Excavation:	0.0
Base of Excavation:	2.0 *

General Image



Detailed Image





Destination of Moved Soil

New Soil Location: ☐ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	
Detailed Grid Reference:	
Stockpile Number:	

General Image
Detailed Image





Sampling / Comments

Origin Sample Taken:	Yes
Sample Reference:	Or G4 SF (surface)
Destination Sample Take	
Sample Reference:	
Sampling Comments	
* around excavation of structure. Sample represents reworked ground around structure, b surface	
General Observations	

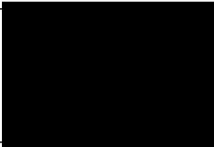
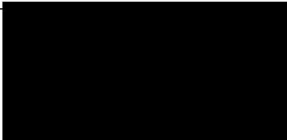
Additional Images





REMEDIAL OVERSIGHT & MATERIAL TRACKING (PFIZER, HAVANT)

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Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☐ Soil Excavation ☒ Stockpile	
Soil Grid Reference:	J3
Detailed Grid Reference:	50.8592476, -0.9726226
Stockpile Number:	SP02
Top of Excavation:	3.0
Base of Excavation:	0.5

General Image



Detailed Image





Destination of Moved Soil

New Soil Location: ☐ Backfilled into Excavation ☒ Stockpile	
Soil Grid Reference:	
Detailed Grid Reference:	
Stockpile Number:	SP01

General Image



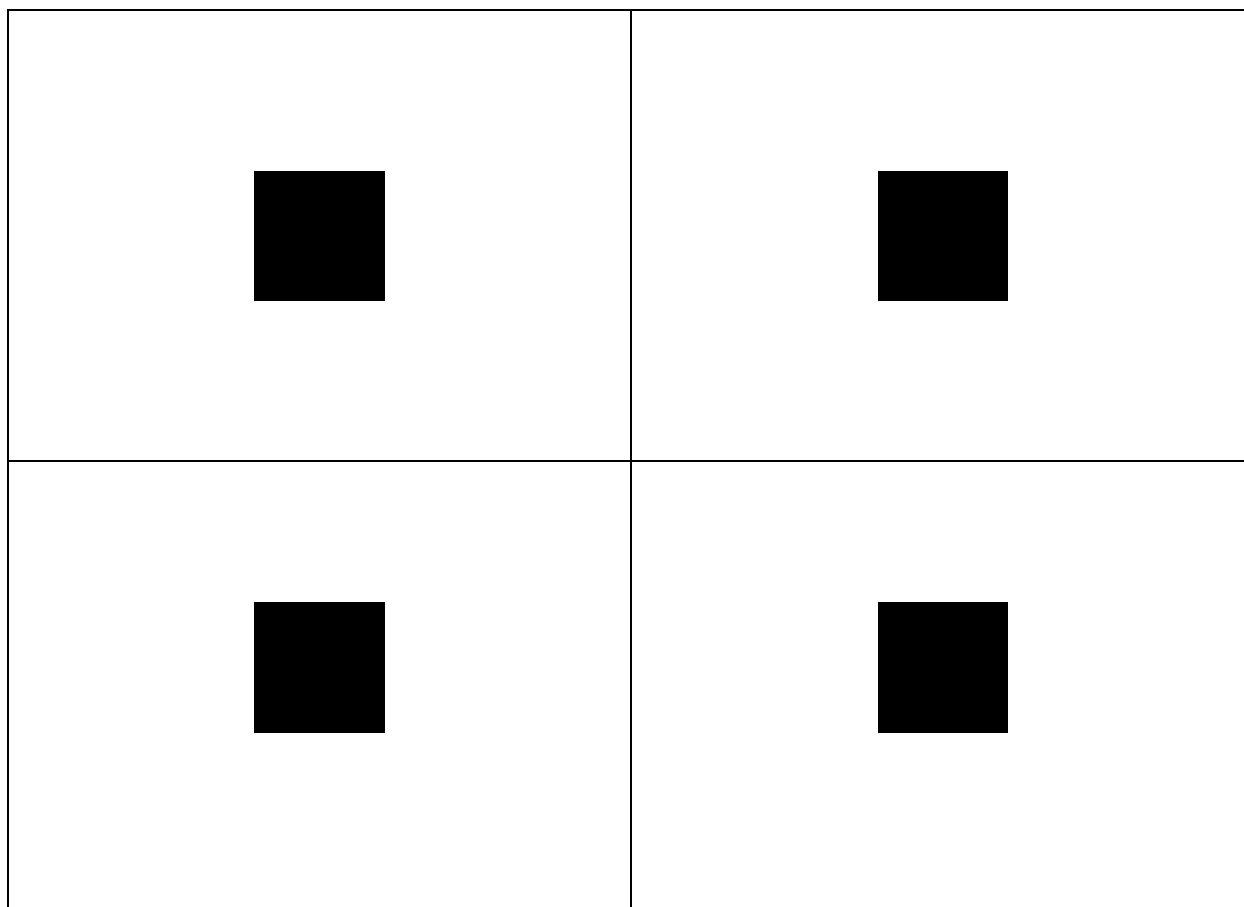
Detailed Image



Sampling / Comments

Origin Sample Taken:	Yes
Sample Reference:	Sp02 J3 06 P
Destination Sample Take	No
Sample Reference:	
Sampling Comments	
Phthalate excavation	
General Observations	

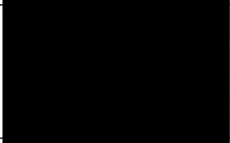
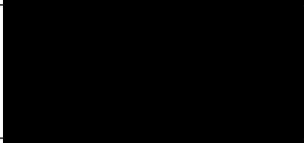
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Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☐ Soil Excavation ☒ Stockpile	
Soil Grid Reference:	J3
Detailed Grid Reference:	50.8593066, -0.9726149
Stockpile Number:	SP02
Top of Excavation:	3.0
Base of Excavation:	0.5

General Image



Detailed Image





Destination of Moved Soil

New Soil Location: ☐ Backfilled into Excavation ☒ Stockpile	
Soil Grid Reference:	
Detailed Grid Reference:	
Stockpile Number:	SP01

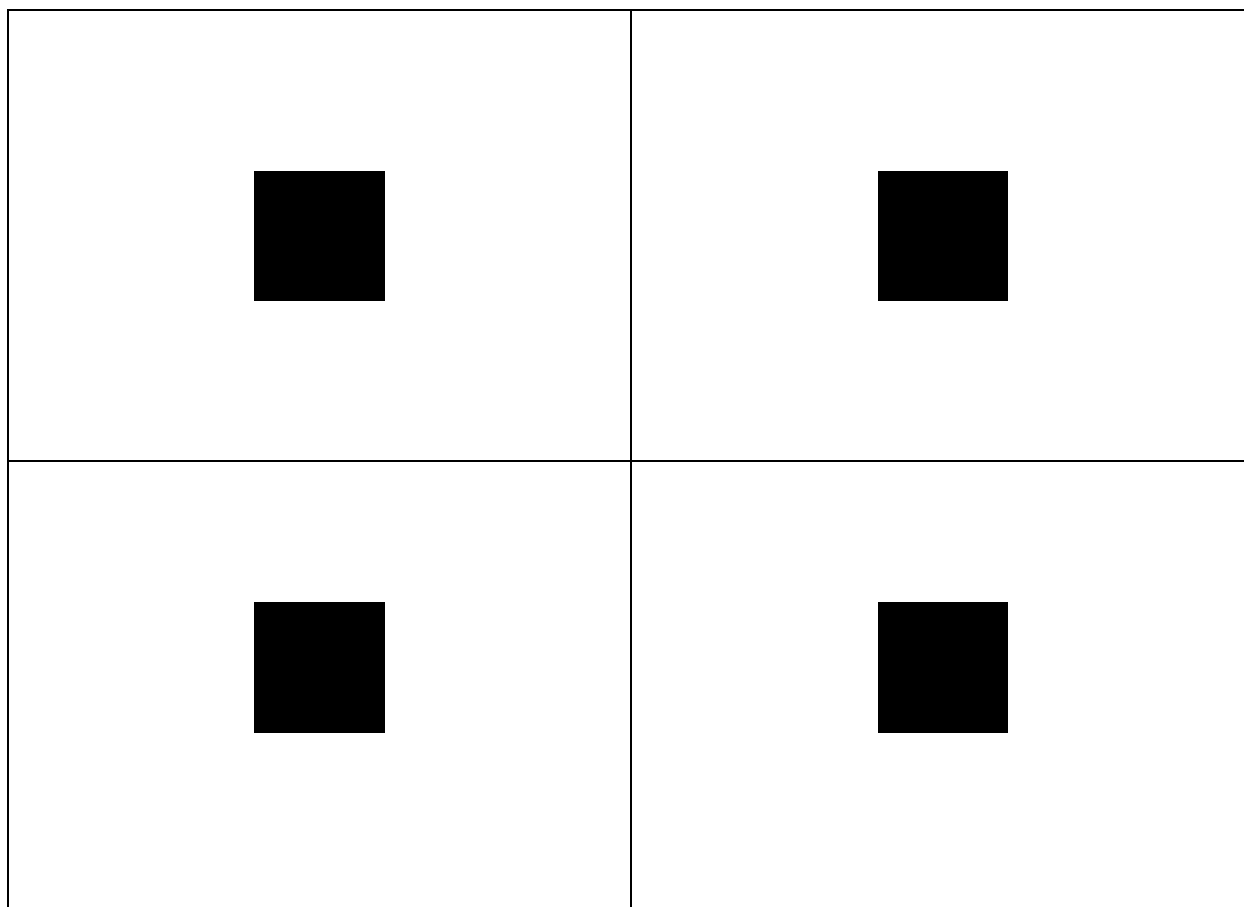
General Image
Detailed Image



Sampling / Comments

Origin Sample Taken:	Yes
Sample Reference:	Sp02 J3 05 P
Destination Sample Take	No
Sample Reference:	
Sampling Comments	
Phthalate excavation	
General Observations	

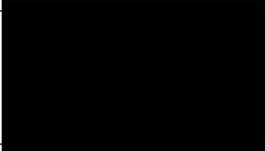
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Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☐ Soil Excavation ☒ Stockpile	
Soil Grid Reference:	C5
Detailed Grid Reference:	50.8603043, -0.9711883
Stockpile Number:	SP03
Top of Excavation:	3.0
Base of Excavation:	1.0

General Image



Detailed Image





Destination of Moved Soil

New Soil Location: ☐ Backfilled into Excavation ☒ Stockpile	
Soil Grid Reference:	
Detailed Grid Reference:	
Stockpile Number:	SP01

General Image
Detailed Image

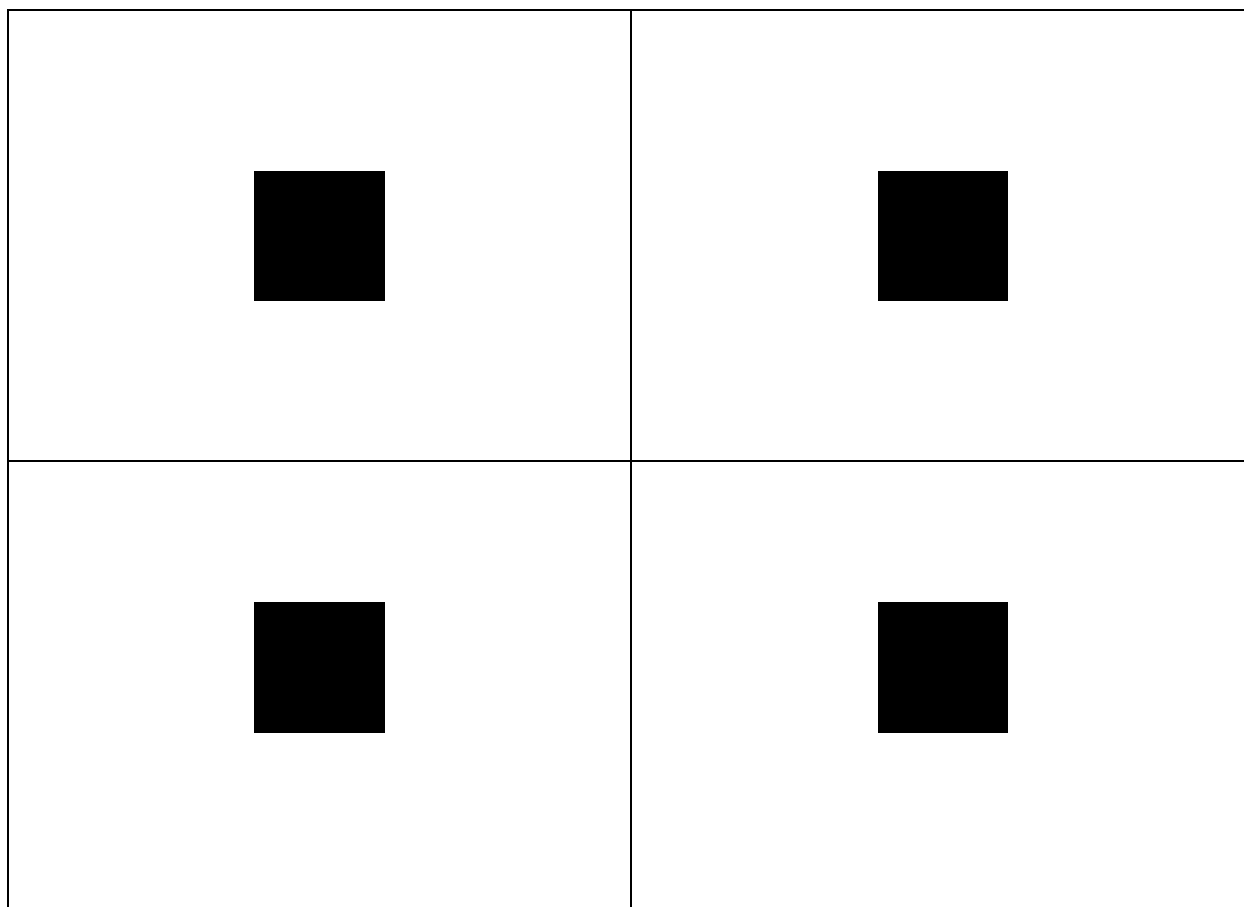




Sampling / Comments

Origin Sample Taken:	Yes
Sample Reference:	Sp03 C5 11 P
Destination Sample Take	No
Sample Reference:	
Sampling Comments	
Phthalate excavation	
General Observations	

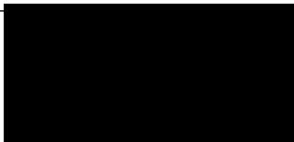
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Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☐ Soil Excavation ☒ Stockpile	
Soil Grid Reference:	C5
Detailed Grid Reference:	50.8603083, -0.9711763
Stockpile Number:	SP03
Top of Excavation:	3.0
Base of Excavation:	1..0

General Image



Detailed Image





Destination of Moved Soil

New Soil Location: ☐ Backfilled into Excavation ☒ Stockpile	
Soil Grid Reference:	
Detailed Grid Reference:	
Stockpile Number:	SP01

General Image
Detailed Image

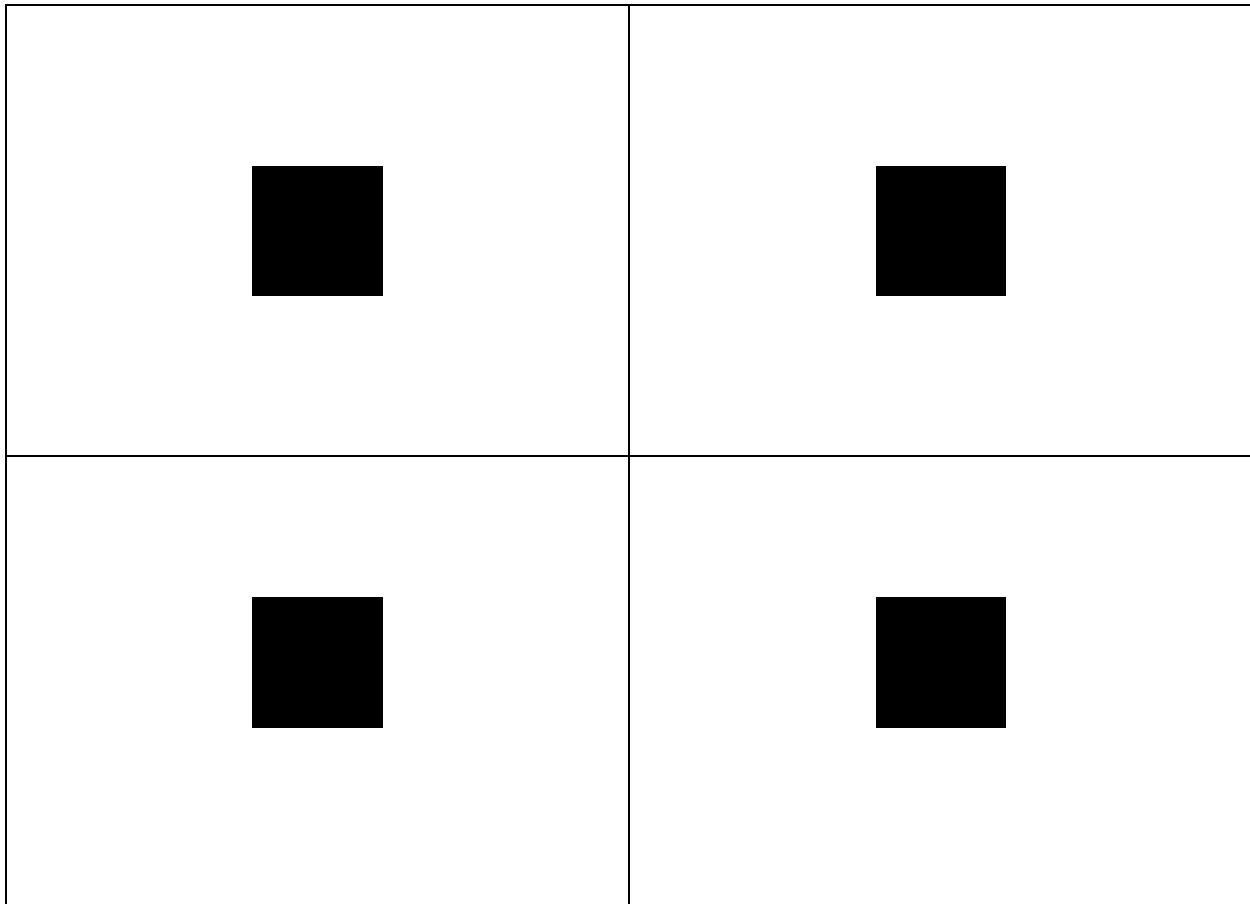




Sampling / Comments

Origin Sample Taken:	Yes
Sample Reference:	Sp03 C5 2.0 P
Destination Sample Taken	No
Sample Reference:	
Sampling Comments	
Phthalate excavation	
General Observations	

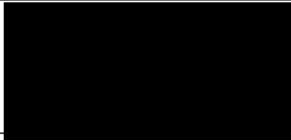
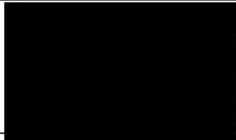
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Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☐ Soil Excavation ☒ Stockpile	
Soil Grid Reference:	C5
Detailed Grid Reference:	50.8603157, -0.9711820
Stockpile Number:	SP03
Top of Excavation:	3.0
Base of Excavation:	1.0

General Image



Detailed Image





Destination of Moved Soil

New Soil Location: ☐ Backfilled into Excavation ☒ Stockpile	
Soil Grid Reference:	
Detailed Grid Reference:	
Stockpile Number:	SP01

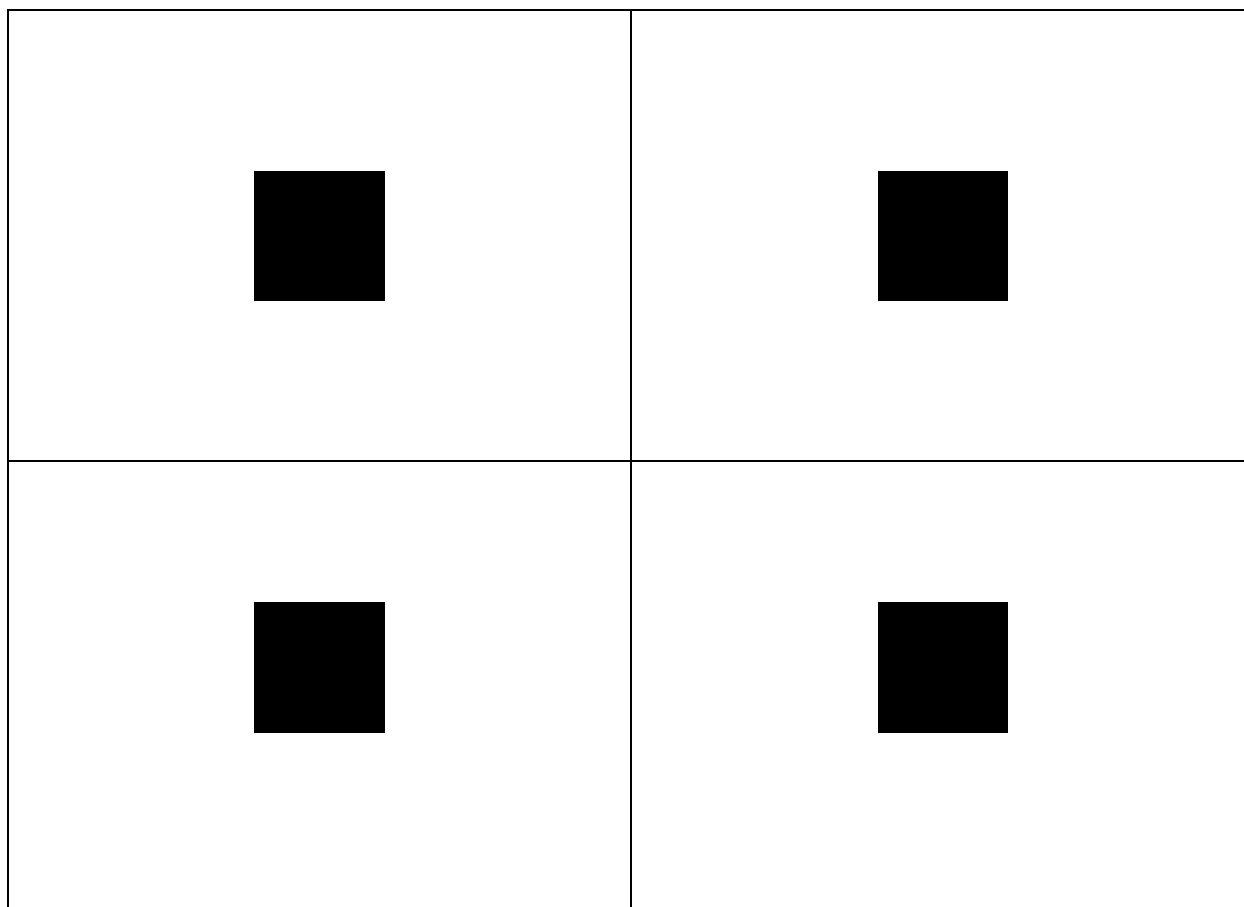
General Image
Detailed Image



Sampling / Comments

Origin Sample Taken:	Yes
Sample Reference:	Sp03 C5 09 P
Destination Sample Take	No
Sample Reference:	
Sampling Comments	
Phthalate excavation	
General Observations	

Additional Images





REMEDIAL OVERSIGHT & MATERIAL TRACKING (PFIZER, HAVANT)

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Paul O'Connor	Marcus Bell	Will Evans
Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☒ Soil Excavation ☐ Stockpile	
Soil Grid Reference:	H11
Detailed Grid Reference:	50.8589005, -0.9700263
Stockpile Number:	
Top of Excavation:	0.0
Base of Excavation:	1.5

General Image



Detailed Image





Destination of Moved Soil

New Soil Location: ☐ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	
Detailed Grid Reference:	
Stockpile Number:	

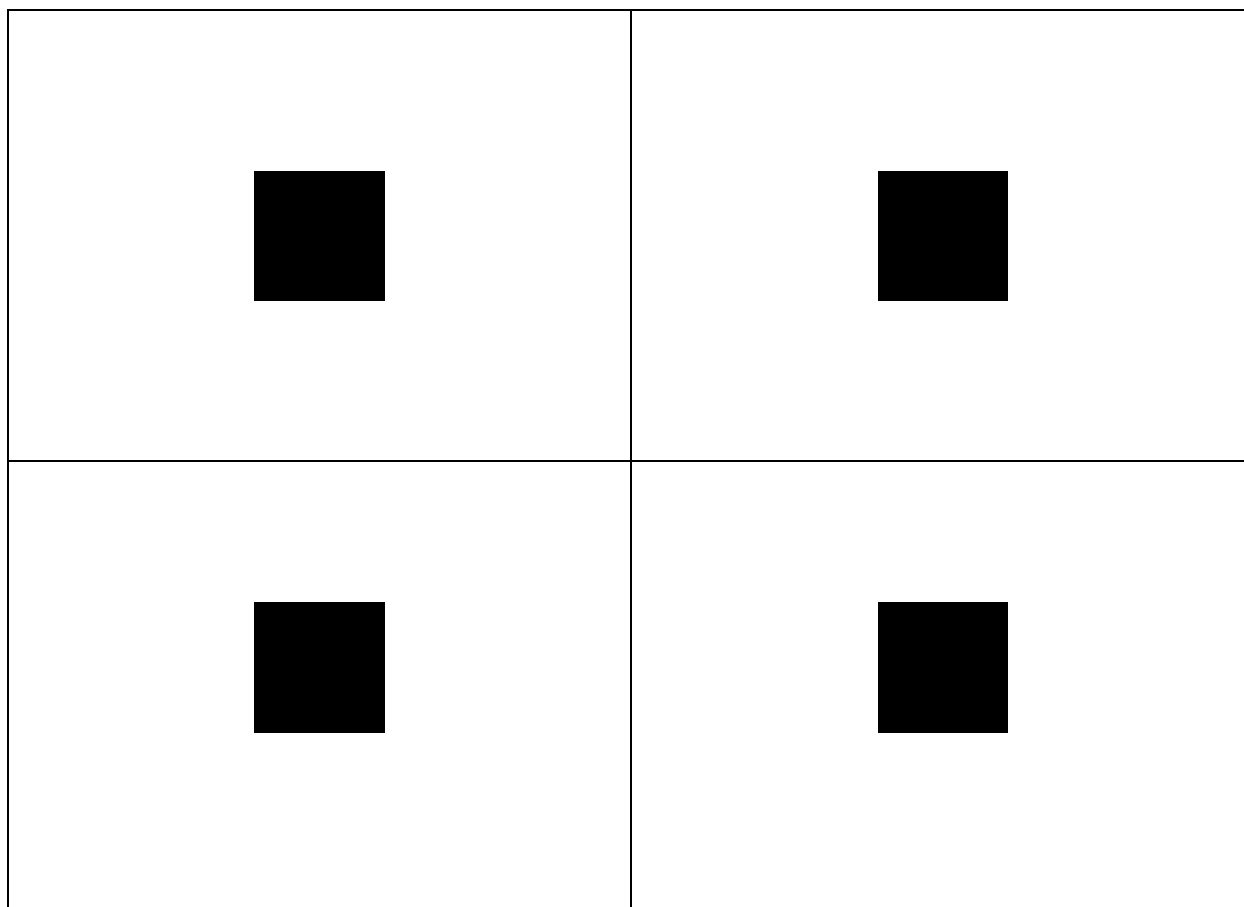
General Image
Detailed Image



Sampling / Comments

Origin Sample Taken:	Yes
Sample Reference:	Or H11 1.5
Destination Sample Take	No
Sample Reference:	
Sampling Comments	
AOPC3 sample	
General Observations	

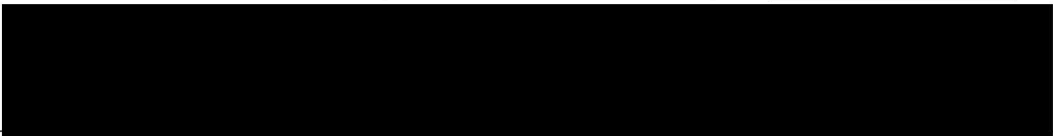
Additional Images





REMEDIAL OVERSIGHT & MATERIAL TRACKING (PFIZER, HAVANT)

Project Reference:	UK21.5634	
Title:	Remedial Oversight & Material Tracking (Pfizer, Havant)	
Client:	Havant Property LLP	
Date:	01/19/2022	
EPS Contact Details:	7B Caxton House Broad Street Cambourne Cambridge CB23 6JN	T: 01954 710666 F: 01954 710677 E: info@epstrategies.co.uk W: www.epstrategies.co.uk
Status:	Issue 1	

Author:	Reviewed:	Authorised:
		
Paul O'Connor	Marcus Bell	Will Evans
Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☒ Soil Excavation ☐ Stockpile	
Soil Grid Reference:	G10
Detailed Grid Reference:	50.8590252, -0.9700866
Stockpile Number:	
Top of Excavation:	0.0
Base of Excavation:	1.6

General Image



Detailed Image





Destination of Moved Soil

New Soil Location: ☐ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	
Detailed Grid Reference:	
Stockpile Number:	

General Image
Detailed Image

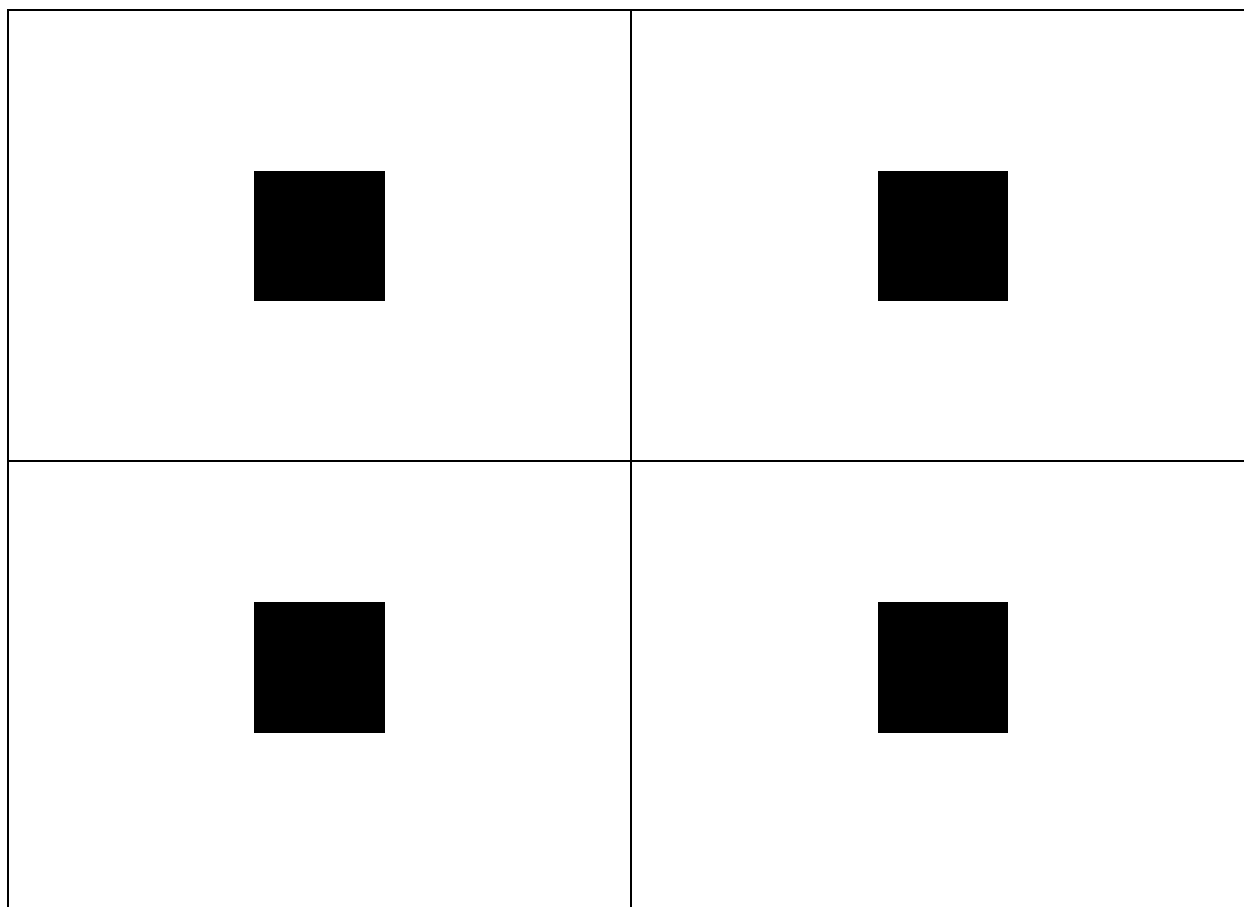




Sampling / Comments

Origin Sample Taken:	Yes
Sample Reference:	Or G10 1.6
Destination Sample Take	No
Sample Reference:	
Sampling Comments	
Sample from beneath drainage pathway associated with AOPC3	
General Observations	

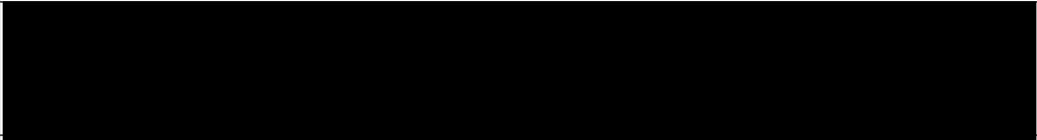
Additional Images





REMEDIAL OVERSIGHT & MATERIAL TRACKING (PFIZER, HAVANT)

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Status:	Issue 1	

Author:	Reviewed:	Authorised:
		
Paul O'Connor	Marcus Bell	Will Evans
Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☐ Soil Excavation ☒ Stockpile	
Soil Grid Reference:	J3
Detailed Grid Reference:	50.8593071, -0.9725760
Stockpile Number:	SP02
Top of Excavation:	3.0
Base of Excavation:	0.5

General Image



Detailed Image





Destination of Moved Soil

New Soil Location: ☐ Backfilled into Excavation ☒ Stockpile	
Soil Grid Reference:	
Detailed Grid Reference:	
Stockpile Number:	SP01

General Image
Detailed Image



Sampling / Comments

Origin Sample Taken:	Yes
Sample Reference:	Sp02 J3 04 P
Destination Sample Take	No
Sample Reference:	
Sampling Comments	
Phthalate excavation	
General Observations	

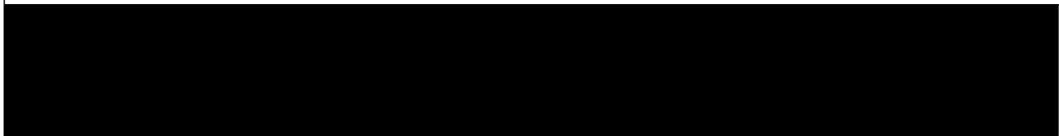
Additional Images





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Project Reference:	UK21.5634	
Title:	Remedial Oversight & Material Tracking (Pfizer, Havant)	
Client:	Havant Property LLP	
Date:	01/13/2022	
EPS Contact Details:	7B Caxton House Broad Street Cambourne Cambridge CB23 6JN	T: 01954 710666 F: 01954 710677 E: info@epstrategies.co.uk W: www.epstrategies.co.uk
Status:	Issue 1	

Author:	Reviewed:	Authorised:
		
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Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☐ Soil Excavation ☒ Stockpile	
Soil Grid Reference:	C6
Detailed Grid Reference:	50.8602006, -0.9708722
Stockpile Number:	SP03
Top of Excavation:	
Base of Excavation:	

General Image



Detailed Image





Destination of Moved Soil

New Soil Location: ☐ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	
Detailed Grid Reference:	
Stockpile Number:	

General Image
Detailed Image



Sampling / Comments

Origin Sample Taken:	Yes
Sample Reference:	SP03 C6 06
Destination Sample Taken:	
Sample Reference:	
Sampling Comments	
General Observations	

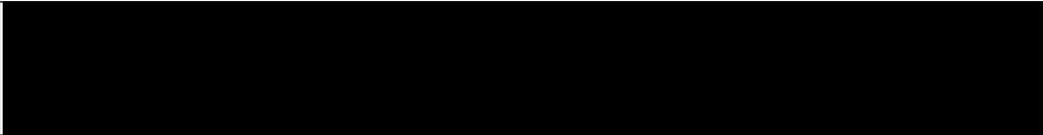
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Author:	Reviewed:	Authorised:
		
Paul O'Connor	Marcus Bell	Will Evans
Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☒ Soil Excavation ☐ Stockpile	
Soil Grid Reference:	
Detailed Grid Reference:	
Stockpile Number:	
Top of Excavation:	
Base of Excavation:	

General Image
Detailed Image



Destination of Moved Soil

New Soil Location: ☒ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	E13
Detailed Grid Reference:	50.8593219, -0.9689876
Stockpile Number:	

General Image



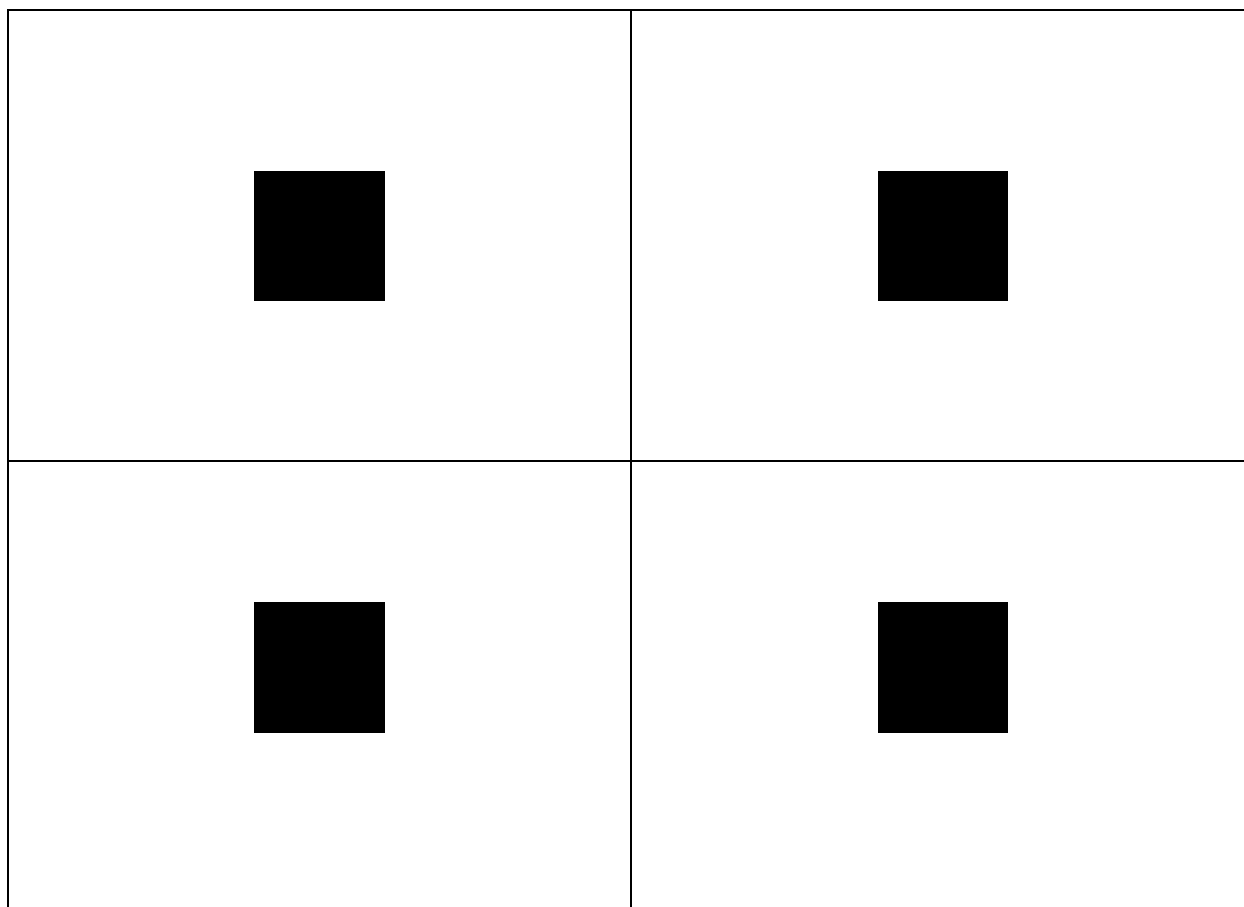
Detailed Image



Sampling / Comments

Origin Sample Taken:	No
Sample Reference:	
Destination Sample Take	Yes
Sample Reference:	Dt E13 01
Sampling Comments	
General Observations	

Additional Images





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Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☐ Soil Excavation ☐ Stockpile	
Soil Grid Reference:	
Detailed Grid Reference:	
Stockpile Number:	
Top of Excavation:	
Base of Excavation:	

General Image
Detailed Image



Destination of Moved Soil

New Soil Location: ☒ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	E11
Detailed Grid Reference:	50.8594630, -0.9695961
Stockpile Number:	

General Image



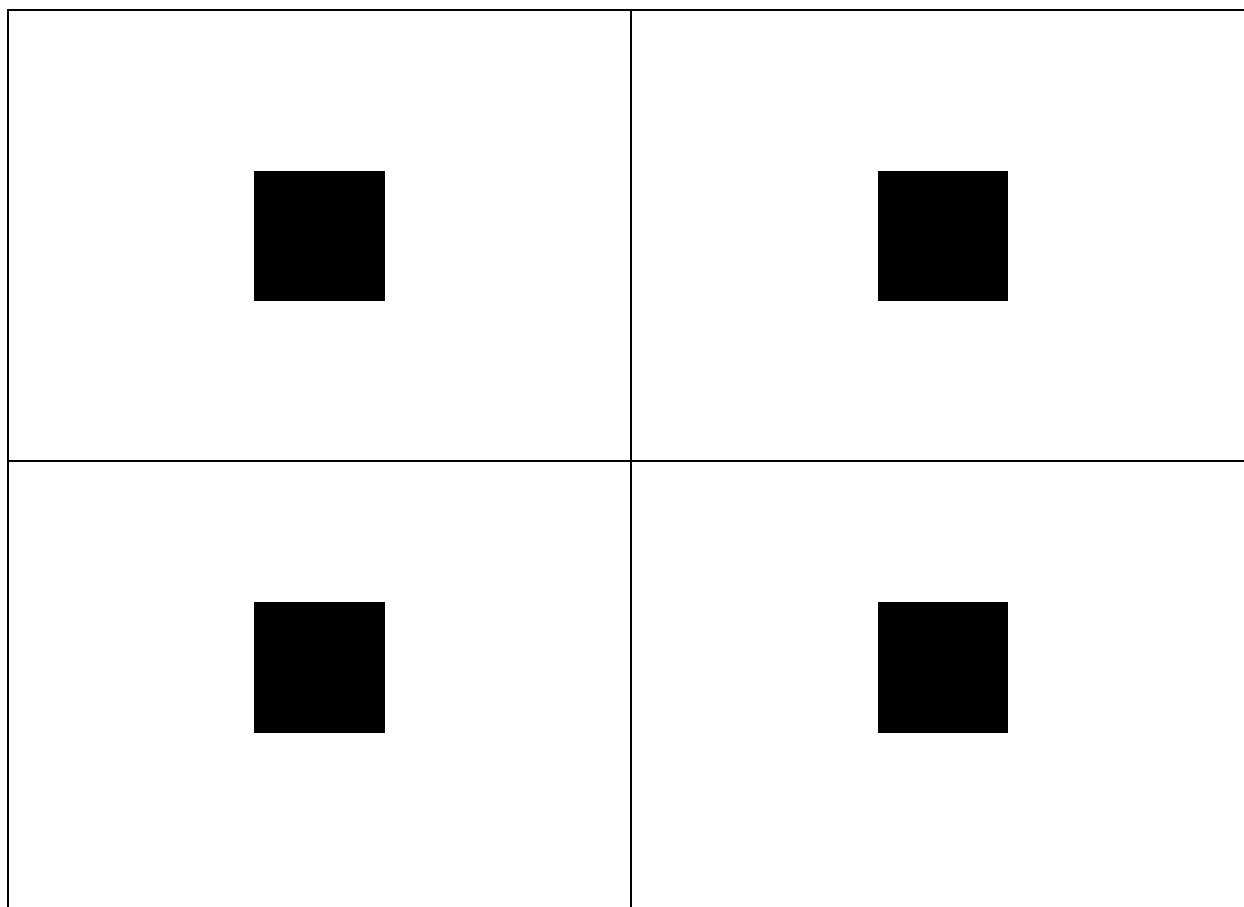
Detailed Image



Sampling / Comments

Origin Sample Taken:	No
Sample Reference:	
Destination Sample Take	Yes
Sample Reference:	Dt E11 01
Sampling Comments	
General Observations	

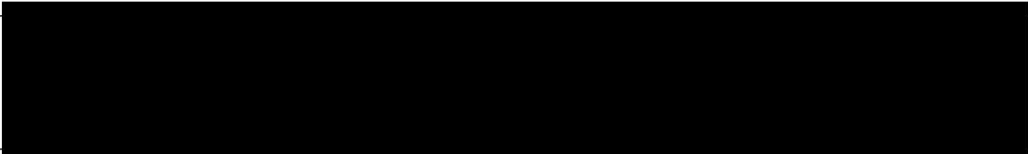
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Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☐ Soil Excavation ☒ Stockpile	
Soil Grid Reference:	D6
Detailed Grid Reference:	50.8600400, -0.9710442
Stockpile Number:	SP03
Top of Excavation:	
Base of Excavation:	

General Image



Detailed Image





Destination of Moved Soil

New Soil Location: ☐ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	
Detailed Grid Reference:	
Stockpile Number:	

General Image
Detailed Image



Sampling / Comments

Origin Sample Taken:	Yes
Sample Reference:	SP03 D6 05
Destination Sample Take	No
Sample Reference:	
Sampling Comments	
General Observations	

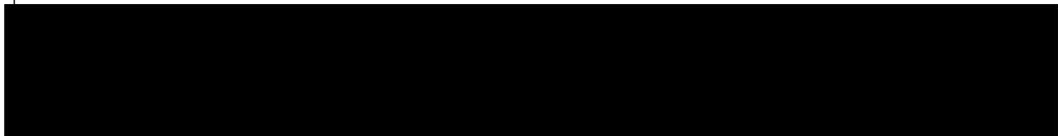
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Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☐ Soil Excavation ☒ Stockpile	
Soil Grid Reference:	C5
Detailed Grid Reference:	50.8604243, -0.9711337
Stockpile Number:	SP03
Top of Excavation:	
Base of Excavation:	

General Image



Detailed Image





Destination of Moved Soil

New Soil Location: ☐ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	
Detailed Grid Reference:	
Stockpile Number:	

General Image
Detailed Image



Sampling / Comments

Origin Sample Taken:	Yes
Sample Reference:	SP03 C5 07
Destination Sample Take	No
Sample Reference:	
Sampling Comments	
General Observations	

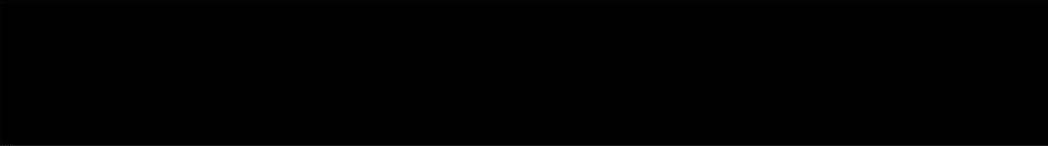
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Status:	Issue 1	

Author:	Reviewed:	Authorised:
		
Paul O'Connor	Marcus Bell	Will Evans
Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☐ Soil Excavation ☒ Stockpile	
Soil Grid Reference:	D5
Detailed Grid Reference:	50.8601864, -0.9713047
Stockpile Number:	SP03
Top of Excavation:	
Base of Excavation:	

General Image



Detailed Image





Destination of Moved Soil

New Soil Location: ☐ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	
Detailed Grid Reference:	
Stockpile Number:	

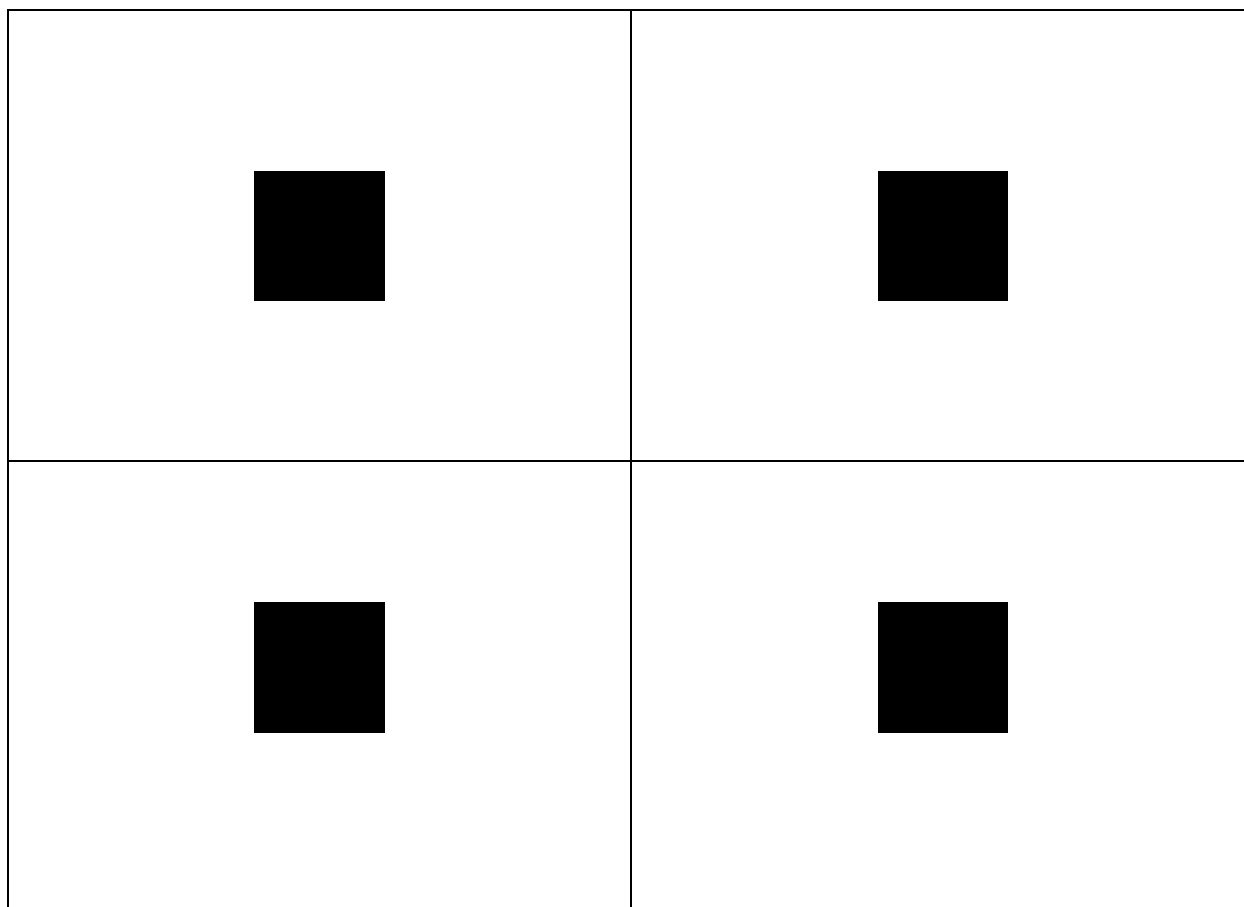
General Image
Detailed Image



Sampling / Comments

Origin Sample Taken:	Yes
Sample Reference:	SP03 D5 08
Destination Sample Take	
Sample Reference:	
Sampling Comments	
General Observations	

Additional Images





REMEDIAL OVERSIGHT & MATERIAL TRACKING (PFIZER, HAVANT)

Project Reference:	UK21.5634	
Title:	Remedial Oversight & Material Tracking (Pfizer, Havant)	
Client:	Havant Property LLP	
Date:	01/11/2022	
EPS Contact Details:	7B Caxton House Broad Street Cambourne Cambridge CB23 6JN	T: 01954 710666 F: 01954 710677 E: info@epstrategies.co.uk W: www.epstrategies.co.uk
Status:	Issue 1	

Author:	Reviewed:	Authorised:
		
Paul O'Connor	Marcus Bell	Will Evans
Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☒ Soil Excavation ☐ Stockpile	
Soil Grid Reference:	
Detailed Grid Reference:	50.8591380, -0.9711229
Stockpile Number:	
Top of Excavation:	0.0 - 0.3 slab
Base of Excavation:	0.6

General Image



Detailed Image





Destination of Moved Soil

New Soil Location: ☐ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	
Detailed Grid Reference:	
Stockpile Number:	

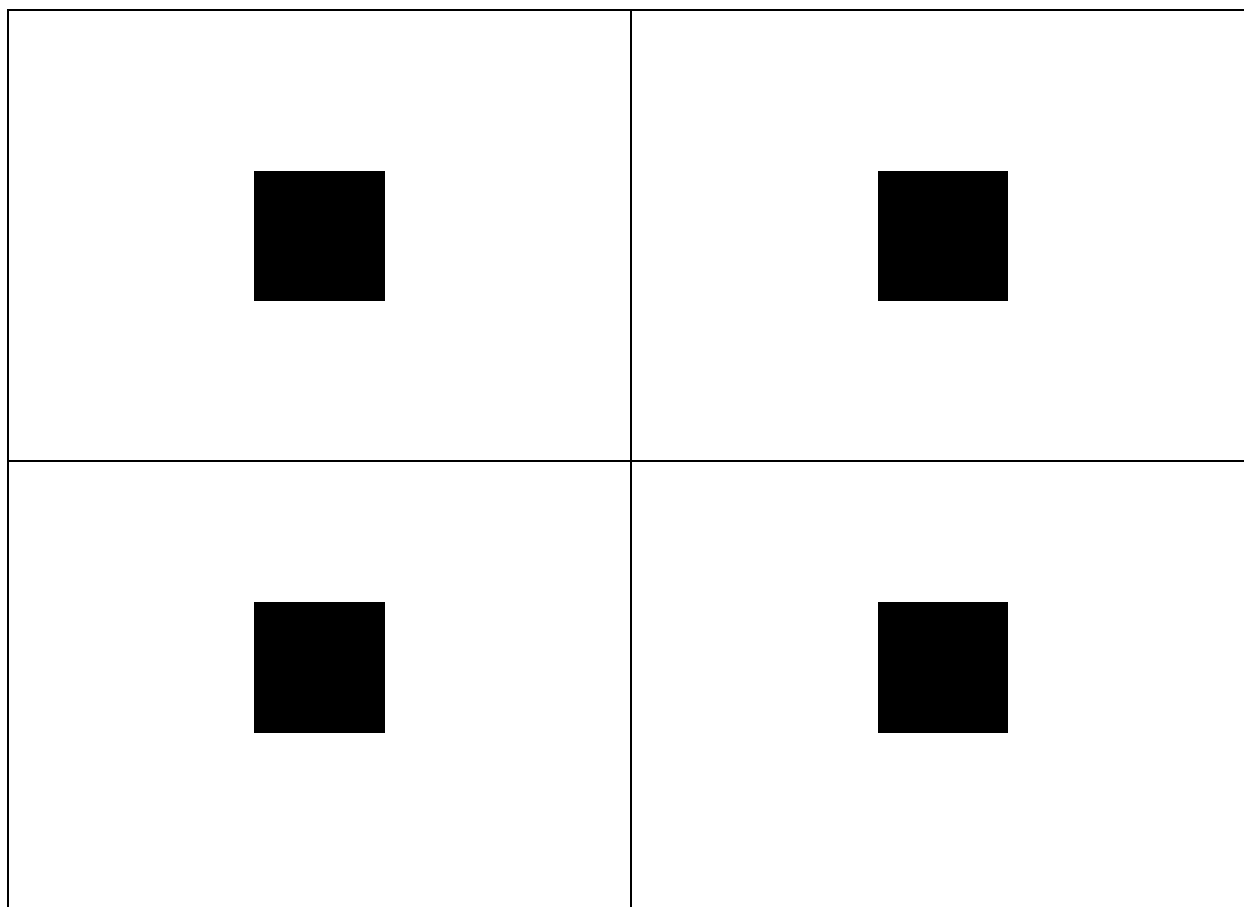
General Image
Detailed Image



Sampling / Comments

Origin Sample Taken:	Yes
Sample Reference:	Or H7 0.5
Destination Sample Take	
Sample Reference:	
Sampling Comments	
Submitted for sulphate analysis. Material may include large proportion of crushed brick which can	
General Observations	

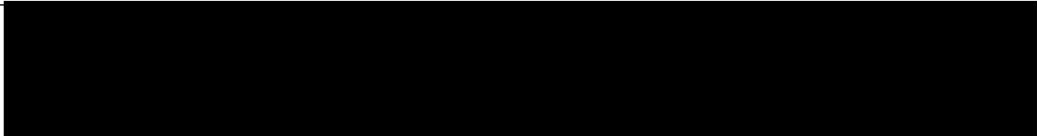
Additional Images





REMEDIAL OVERSIGHT & MATERIAL TRACKING (PFIZER, HAVANT)

Project Reference:	UK21.5634	
Title:	Remedial Oversight & Material Tracking (Pfizer, Havant)	
Client:	Havant Property LLP	
Date:	01/10/2022	
EPS Contact Details:	7B Caxton House Broad Street Cambourne Cambridge CB23 6JN	T: 01954 710666 F: 01954 710677 E: info@epstrategies.co.uk W: www.epstrategies.co.uk
Status:	Issue 1	

Author:	Reviewed:	Authorised:
		
Paul O'Connor	Marcus Bell	Will Evans
Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☒ Soil Excavation ☐ Stockpile	
Soil Grid Reference:	
Detailed Grid Reference:	
Stockpile Number:	
Top of Excavation:	
Base of Excavation:	

General Image
Detailed Image

Destination of Moved Soil

New Soil Location: ☒ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	F6
Detailed Grid Reference:	50.8595962, -0.9710559
Stockpile Number:	

General Image



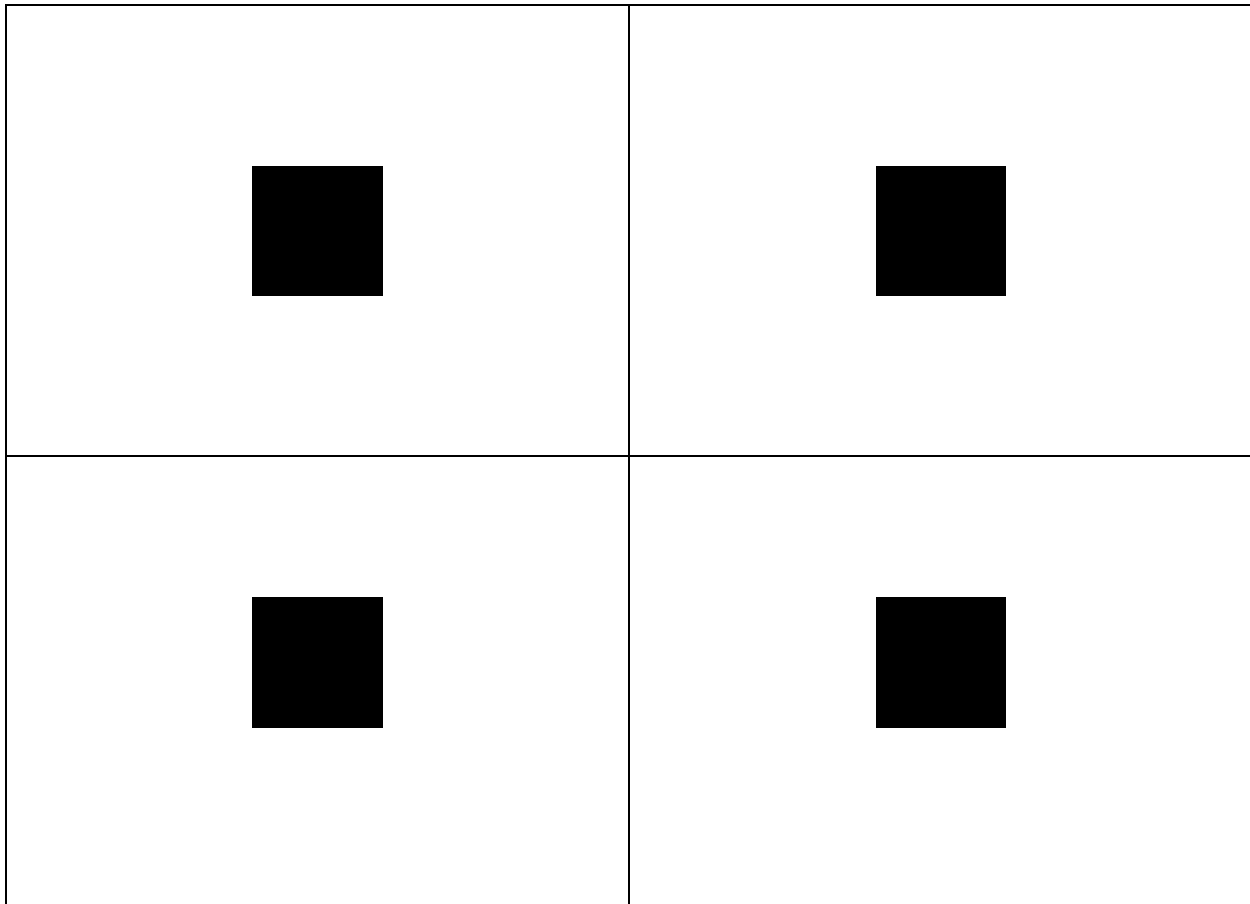
Detailed Image



Sampling / Comments

Origin Sample Taken:	No
Sample Reference:	
Destination Sample Take	Yes
Sample Reference:	Dt F6 01
Sampling Comments	
General Observations	

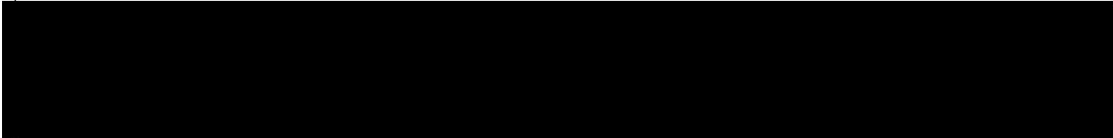
Additional Images





REMEDIAL OVERSIGHT & MATERIAL TRACKING (PFIZER, HAVANT)

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Status:	Issue 1	

Author:	Reviewed:	Authorised:
		
Paul O'Connor	Marcus Bell	Will Evans
Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☐ Soil Excavation ☐ Stockpile	
Soil Grid Reference:	
Detailed Grid Reference:	
Stockpile Number:	
Top of Excavation:	
Base of Excavation:	

General Image
Detailed Image

Destination of Moved Soil

New Soil Location: ☒ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	B13
Detailed Grid Reference:	50.8598679, -0.9685588
Stockpile Number:	

General Image



Detailed Image

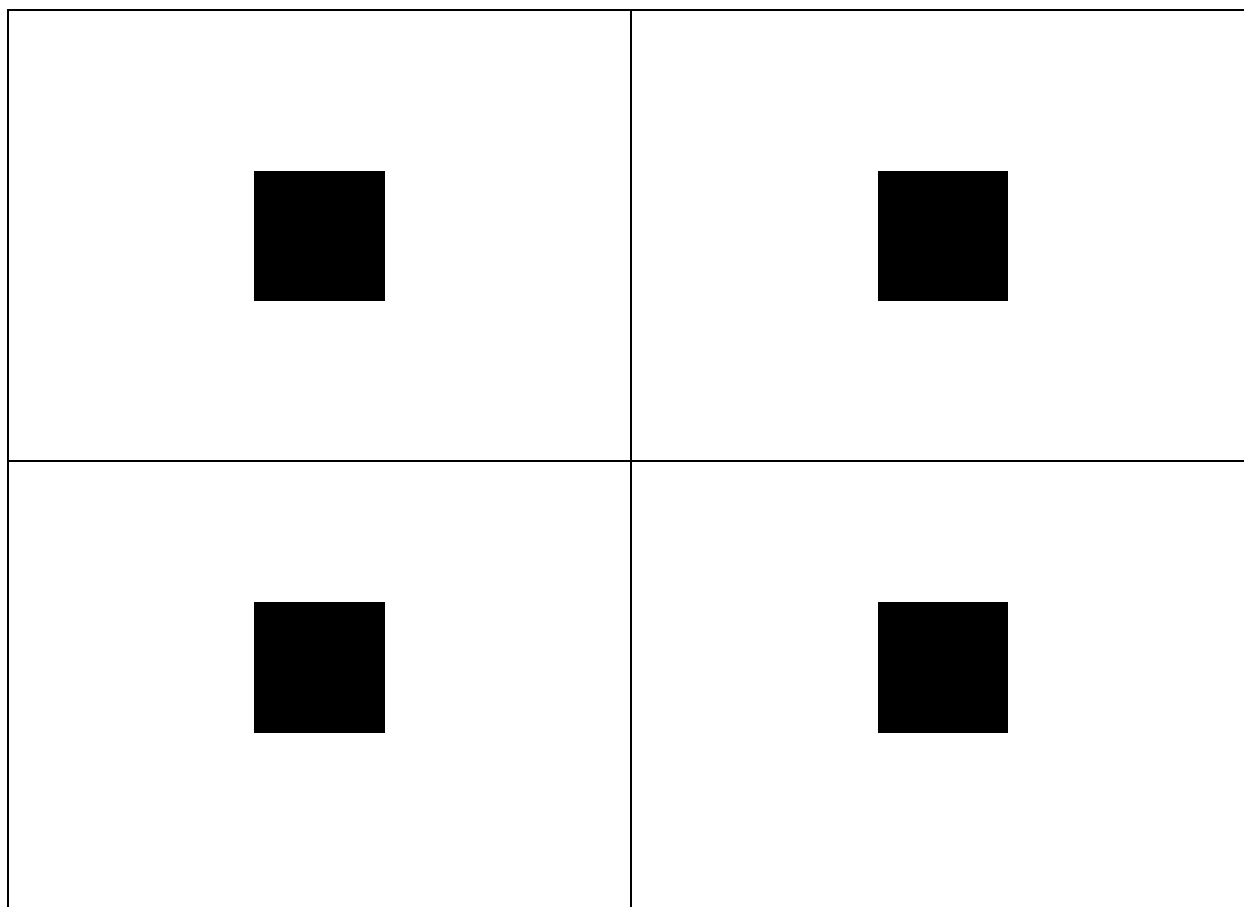




Sampling / Comments

Origin Sample Taken:	No
Sample Reference:	
Destination Sample Taken:	Yes
Sample Reference:	Dt B13 01
Sampling Comments	
Surface	
General Observations	

Additional Images





REMEDIAL OVERSIGHT & MATERIAL TRACKING (PFIZER, HAVANT)

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Status:	Issue 1	

Author:	Reviewed:	Authorised:
Paul O'Connor	Marcus Bell	Will Evans
Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☐ Soil Excavation ☐ Stockpile	
Soil Grid Reference:	
Detailed Grid Reference:	
Stockpile Number:	
Top of Excavation:	
Base of Excavation:	

General Image
Detailed Image



Destination of Moved Soil

New Soil Location: ☒ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	G13
Detailed Grid Reference:	50.8588825, -0.9692347
Stockpile Number:	

General Image



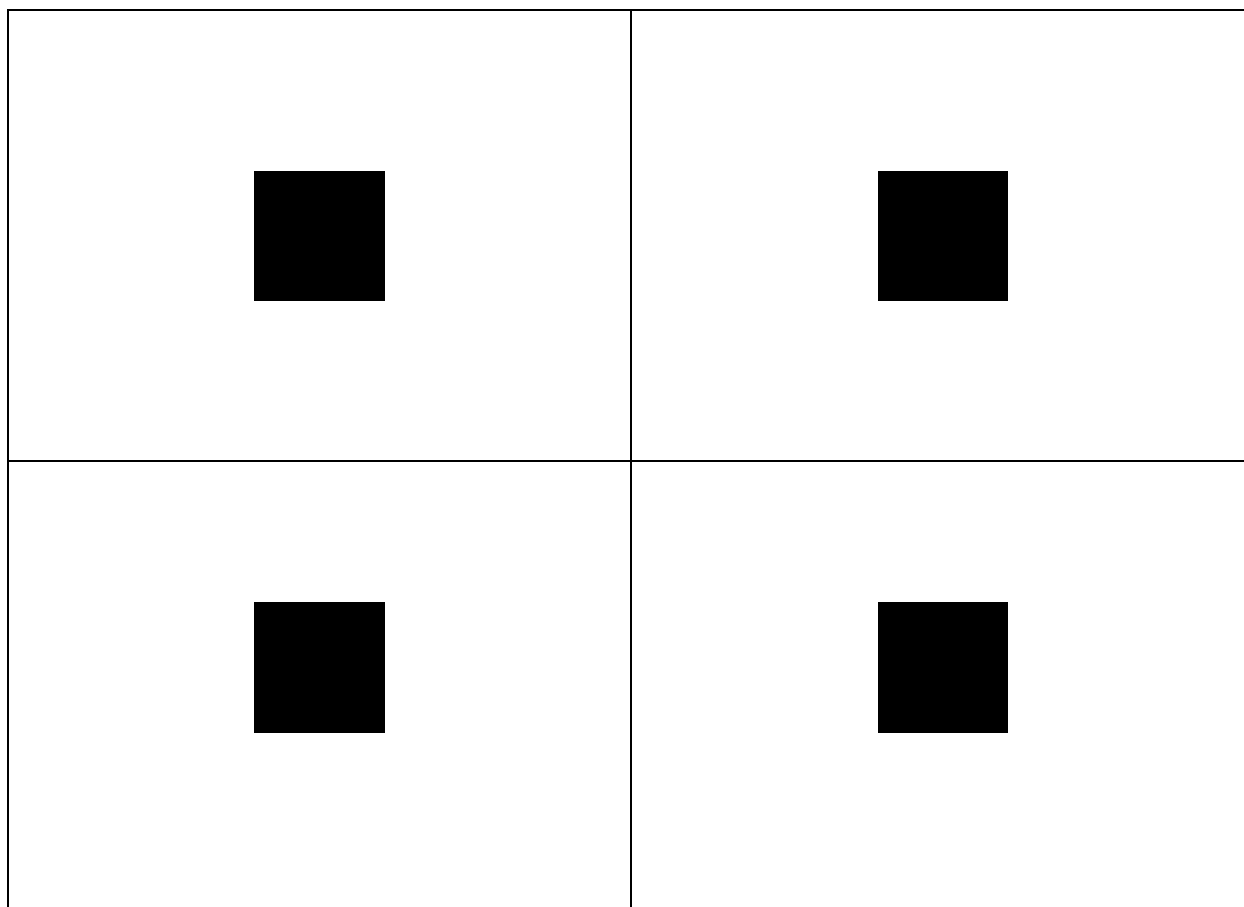
Detailed Image



Sampling / Comments

Origin Sample Taken:	No
Sample Reference:	
Destination Sample Take	Yes
Sample Reference:	Dt G13 01
Sampling Comments	
Surface	
General Observations	

Additional Images





REMEDIAL OVERSIGHT & MATERIAL TRACKING (PFIZER, HAVANT)

Project Reference:	UK21.5634	
Title:	Remedial Oversight & Material Tracking (Pfizer, Havant)	
Client:	Havant Property LLP	
Date:	12/21/2021	
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Status:	Issue 1	

Author:	Reviewed:	Authorised:
Paul O'Connor	Marcus Bell	Will Evans
Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☐ Soil Excavation ☐ Stockpile	
Soil Grid Reference:	
Detailed Grid Reference:	
Stockpile Number:	
Top of Excavation:	
Base of Excavation:	

General Image



Detailed Image



Destination of Moved Soil

New Soil Location: ☒ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	C10
Detailed Grid Reference:	50.8599502, -0.9695988
Stockpile Number:	

General Image



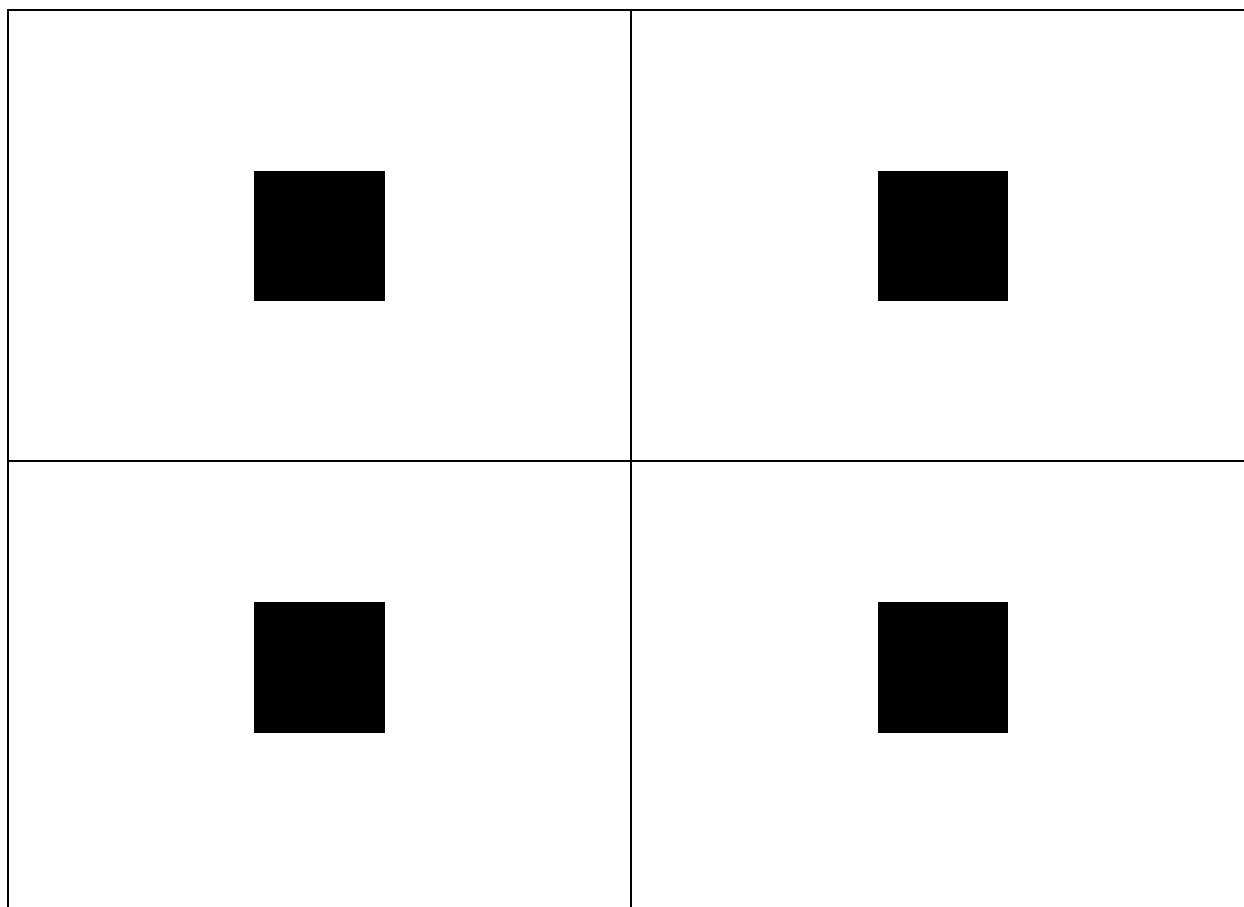
Detailed Image



Sampling / Comments

Origin Sample Taken:	No
Sample Reference:	
Destination Sample Take	Yes
Sample Reference:	Dt C10 01
Sampling Comments	
General Observations	

Additional Images





REMEDIAL OVERSIGHT & MATERIAL TRACKING (PFIZER, HAVANT)

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Status:	Issue 1	

Author:	Reviewed:	Authorised:
Paul O'Connor	Marcus Bell	Will Evans
Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☐ Soil Excavation ☒ Stockpile	
Soil Grid Reference:	D5
Detailed Grid Reference:	50.8600116, -0.9711940
Stockpile Number:	SP03
Top of Excavation:	
Base of Excavation:	

General Image



Detailed Image





Destination of Moved Soil

New Soil Location: ☒ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	TBC
Detailed Grid Reference:	
Stockpile Number:	

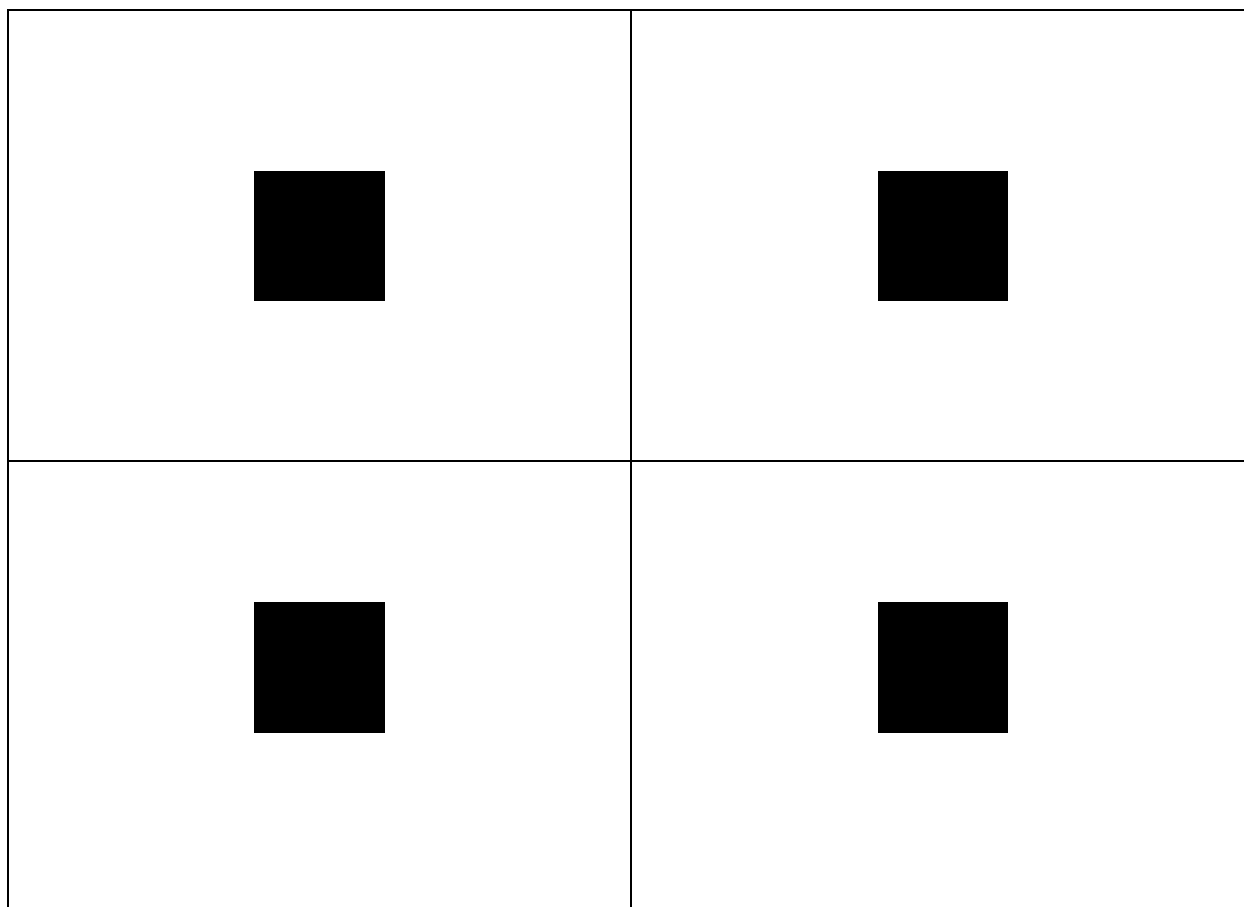
General Image
Detailed Image



Sampling / Comments

Origin Sample Taken:	Yes
Sample Reference:	SP03 D5 03
Destination Sample Take	No
Sample Reference:	
Sampling Comments	
Crushed stockpile U3	
General Observations	

Additional Images





REMEDIAL OVERSIGHT & MATERIAL TRACKING (PFIZER, HAVANT)

Project Reference:	UK21.5634	
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Status:	Issue 1	

Author:	Reviewed:	Authorised:
A large black rectangular box redacting the names and signatures of the author, reviewer, and authorised person.		
Paul O'Connor	Marcus Bell	Will Evans
Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☐ Soil Excavation ☒ Stockpile	
Soil Grid Reference:	C6
Detailed Grid Reference:	50.8601864, -0.9708852
Stockpile Number:	SP03
Top of Excavation:	
Base of Excavation:	

General Image



Detailed Image





Destination of Moved Soil

New Soil Location: ☒ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	TBC
Detailed Grid Reference:	
Stockpile Number:	

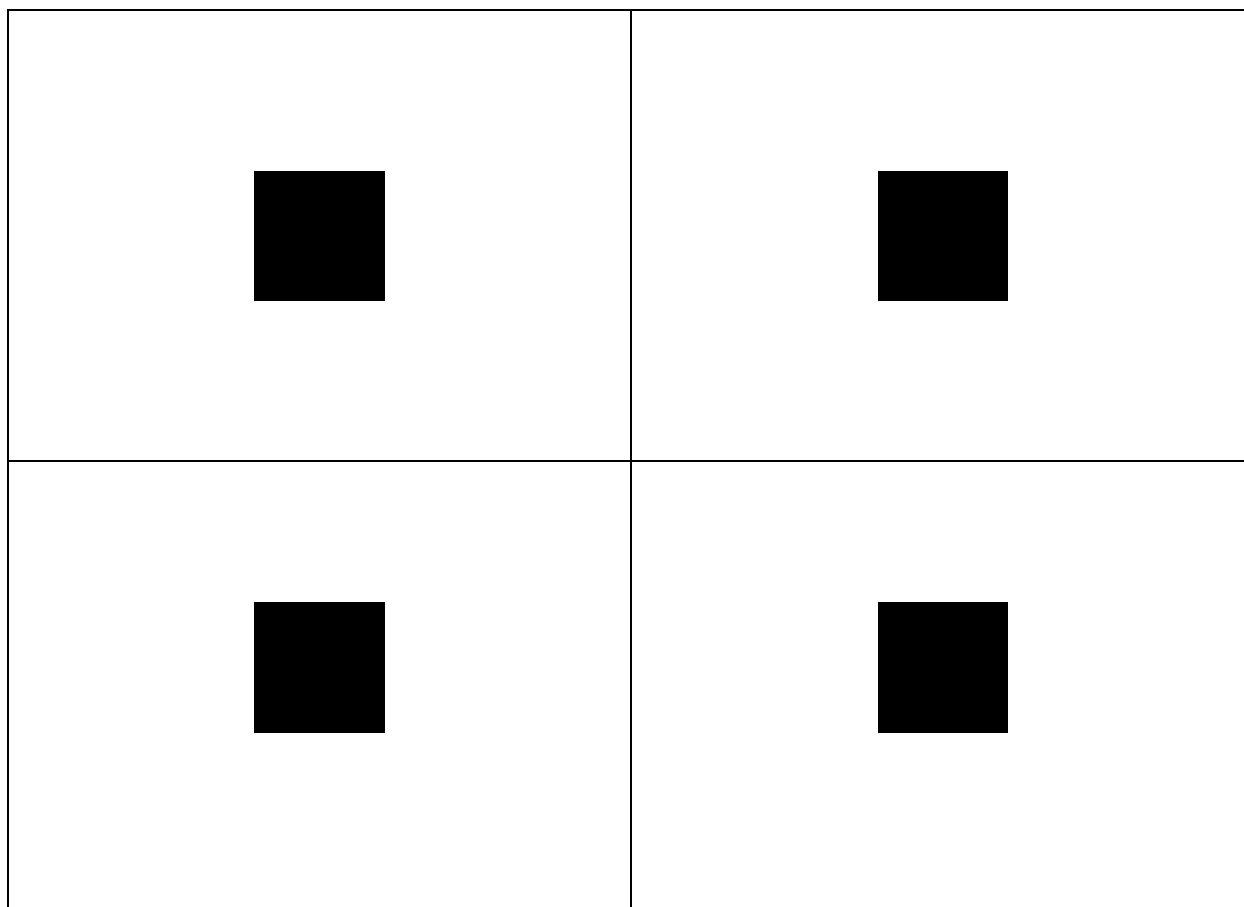
General Image
Detailed Image



Sampling / Comments

Origin Sample Taken:	Yes
Sample Reference:	SP03 C6 04
Destination Sample Taken:	No
Sample Reference:	
Sampling Comments	
Crushed stockpile U3	
General Observations	

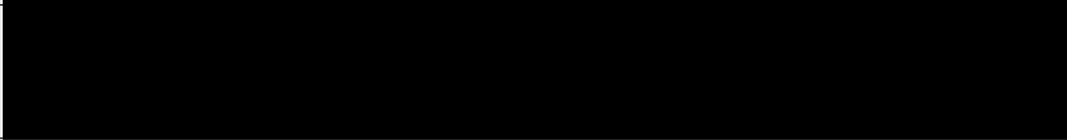
Additional Images





REMEDIAL OVERSIGHT & MATERIAL TRACKING (PFIZER, HAVANT)

Project Reference:	UK21.5634	
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Status:	Issue 1	

Author:	Reviewed:	Authorised:
		
Paul O'Connor	Marcus Bell	Will Evans
Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☒ Soil Excavation ☐ Stockpile	
Soil Grid Reference:	G10
Detailed Grid Reference:	50.8591196, -0.9700900
Stockpile Number:	
Top of Excavation:	0.0
Base of Excavation:	1.5

General Image



Detailed Image





Destination of Moved Soil

New Soil Location: ☐ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	
Detailed Grid Reference:	
Stockpile Number:	

General Image
Detailed Image

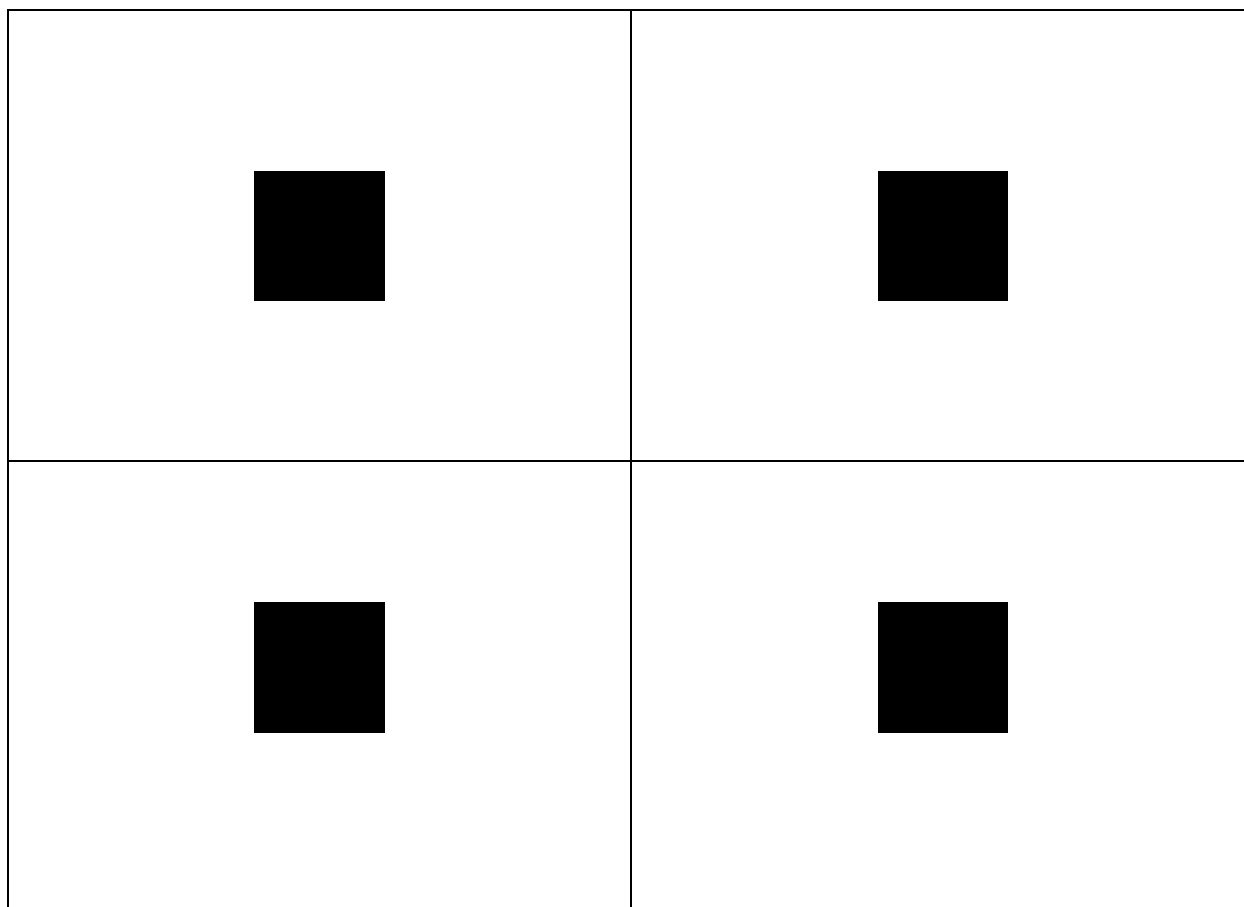




Sampling / Comments

Origin Sample Taken:	Yes
Sample Reference:	Or G10 1.0
Destination Sample Take	No
Sample Reference:	
Sampling Comments	
General Observations	

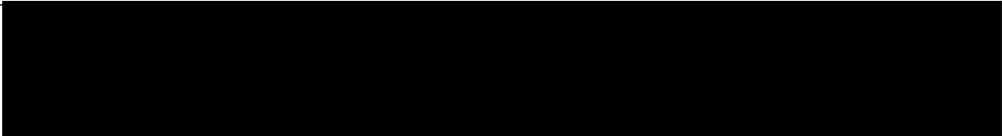
Additional Images





REMEDIAL OVERSIGHT & MATERIAL TRACKING (PFIZER, HAVANT)

Project Reference:	UK21.5634	
Title:	Remedial Oversight & Material Tracking (Pfizer, Havant)	
Client:	Havant Property LLP	
Date:	01/10/2022	
EPS Contact Details:	7B Caxton House Broad Street Cambourne Cambridge CB23 6JN	T: 01954 710666 F: 01954 710677 E: info@epstrategies.co.uk W: www.epstrategies.co.uk
Status:	Issue 1	

Author:	Reviewed:	Authorised:
		
Paul O'Connor	Marcus Bell	Will Evans
Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☒ Soil Excavation ☐ Stockpile	
Soil Grid Reference:	H12
Detailed Grid Reference:	50.8587551, -0.9695669
Stockpile Number:	
Top of Excavation:	0.0
Base of Excavation:	1.0

General Image



Detailed Image





Destination of Moved Soil

New Soil Location: ☒ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	
Detailed Grid Reference:	
Stockpile Number:	

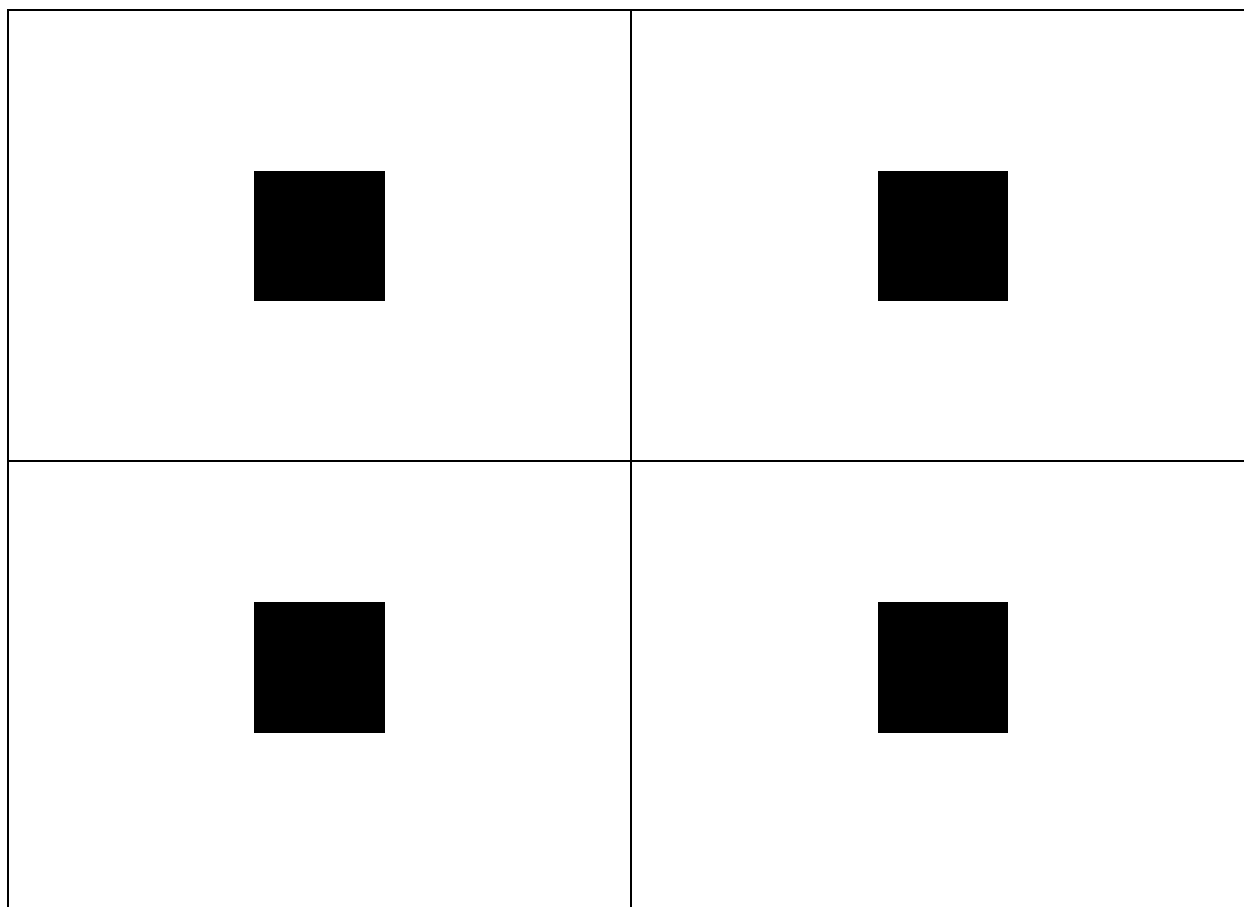
General Image
Detailed Image



Sampling / Comments

Origin Sample Taken:	Yes
Sample Reference:	Or H12 0.5
Destination Sample Taken:	No
Sample Reference:	
Sampling Comments	
General Observations	

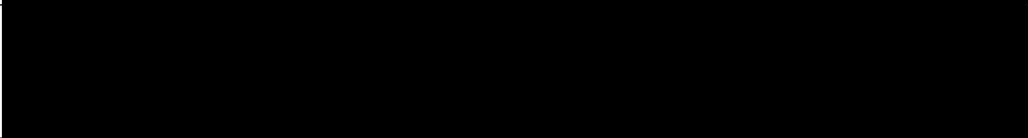
Additional Images





REMEDIAL OVERSIGHT & MATERIAL TRACKING (PFIZER, HAVANT)

Project Reference:	UK21.5634	
Title:	Remedial Oversight & Material Tracking (Pfizer, Havant)	
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Status:	Issue 1	

Author:	Reviewed:	Authorised:
		
Paul O'Connor	Marcus Bell	Will Evans
Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☒ Soil Excavation ☐ Stockpile	
Soil Grid Reference:	K13
Detailed Grid Reference:	50.8583092, -0.9695304
Stockpile Number:	
Top of Excavation:	0.0
Base of Excavation:	1.5

General Image



Detailed Image





Destination of Moved Soil

New Soil Location: ☒ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	
Detailed Grid Reference:	
Stockpile Number:	

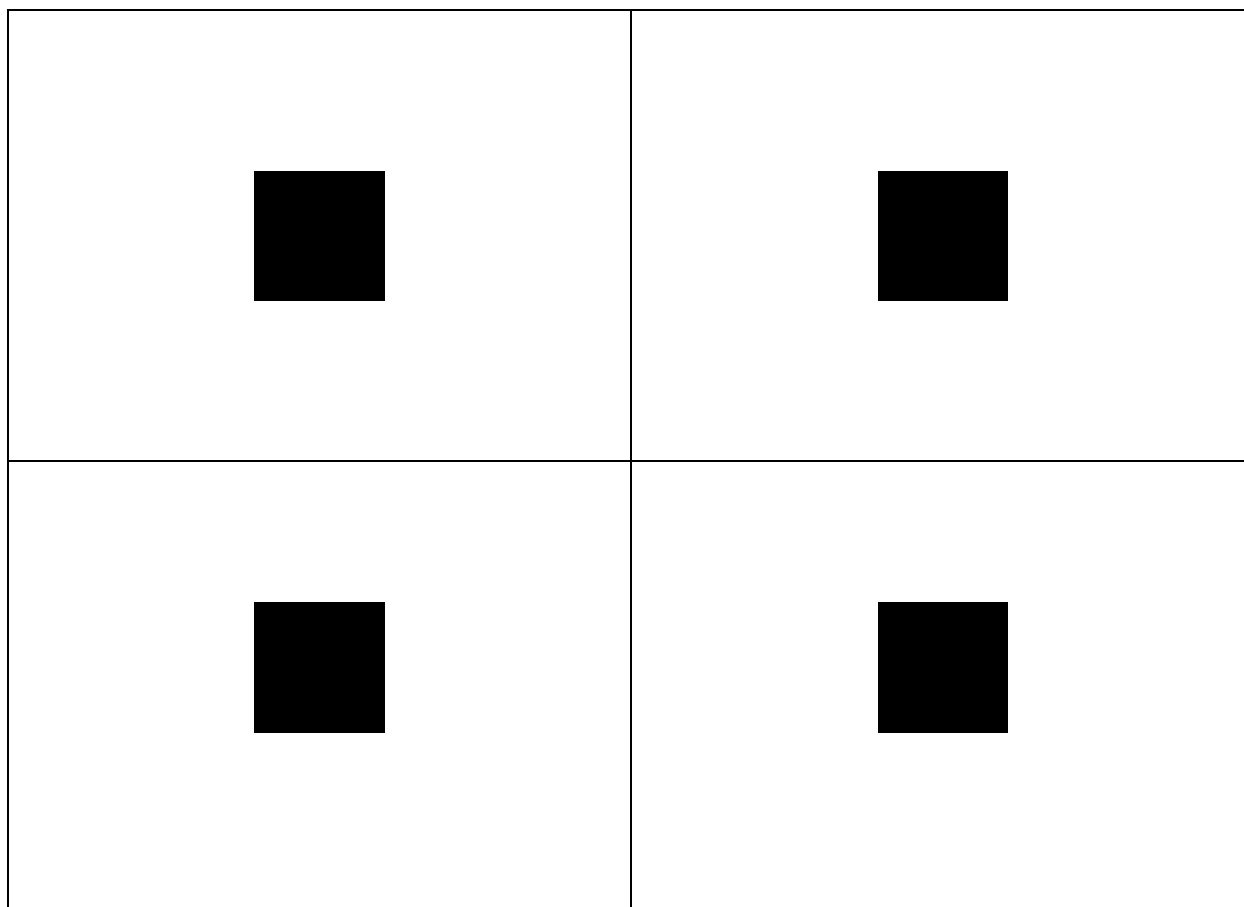
General Image
Detailed Image



Sampling / Comments

Origin Sample Taken:	Yes
Sample Reference:	Or K13 1.0
Destination Sample Take	No
Sample Reference:	
Sampling Comments	
General Observations	

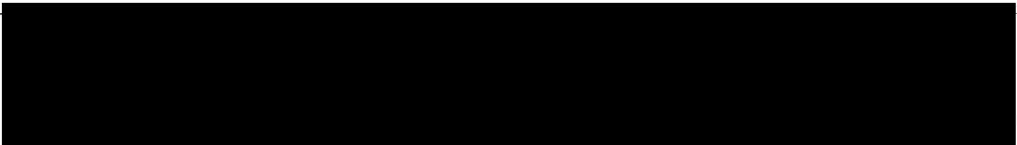
Additional Images





REMEDIAL OVERSIGHT & MATERIAL TRACKING (PFIZER, HAVANT)

Project Reference:	UK21.5634	
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Status:	Issue 1	

Author:	Reviewed:	Authorised:
		
Paul O'Connor	Marcus Bell	Will Evans
Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☒ Soil Excavation ☐ Stockpile	
Soil Grid Reference:	
Detailed Grid Reference:	
Stockpile Number:	
Top of Excavation:	
Base of Excavation:	

General Image
Detailed Image

Destination of Moved Soil

New Soil Location: ☒ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	B11
Detailed Grid Reference:	50.8600383, -0.9691824
Stockpile Number:	

General Image



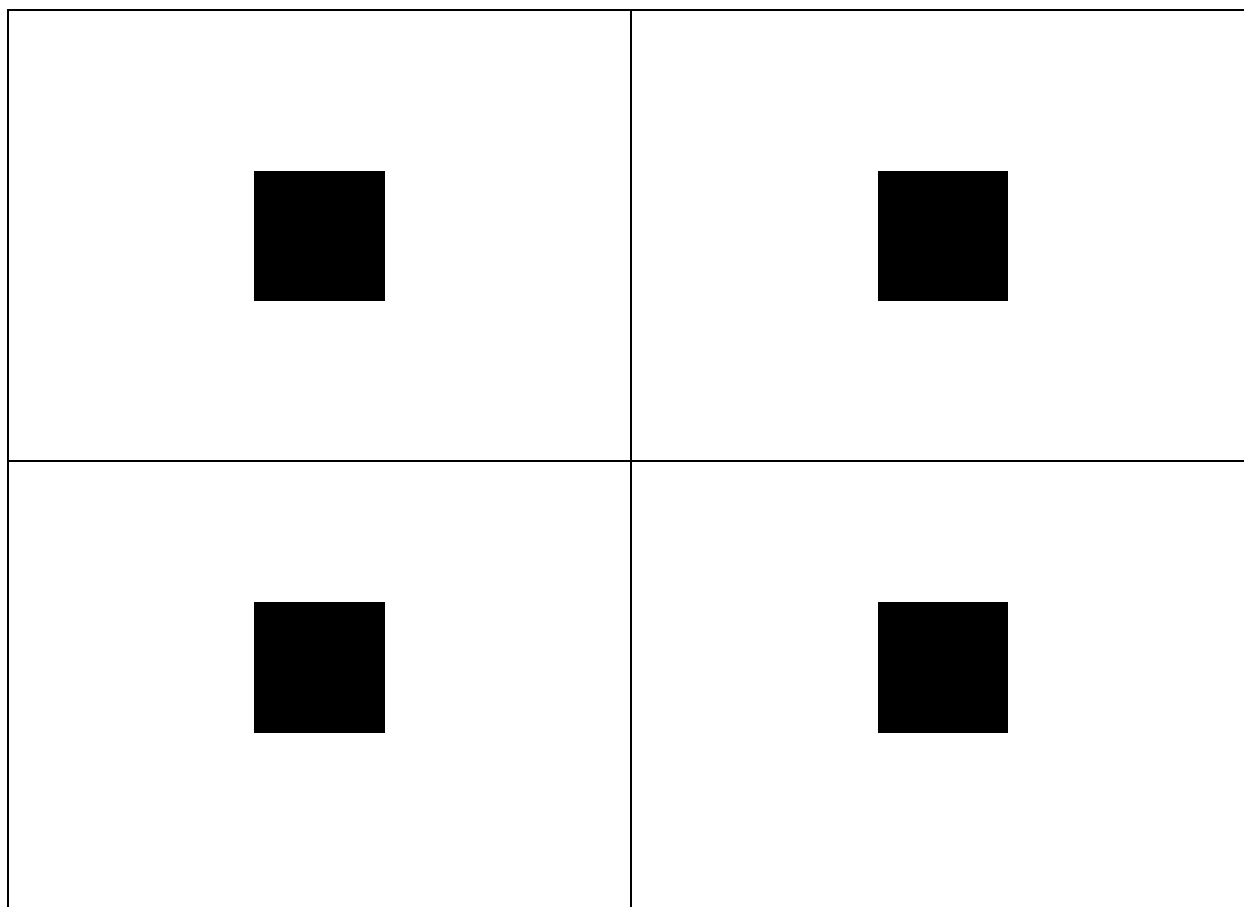
Detailed Image



Sampling / Comments

Origin Sample Taken:	No
Sample Reference:	
Destination Sample Take	Yes
Sample Reference:	Dt B11 01
Sampling Comments	
Reported final levels	
General Observations	

Additional Images





REMEDIAL OVERSIGHT & MATERIAL TRACKING (PFIZER, HAVANT)

Project Reference:	UK21.5634	
Title:	Remedial Oversight & Material Tracking (Pfizer, Havant)	
Client:	Havant Property LLP	
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Status:	Issue 1	

Author:	Reviewed:	Authorised:
		
Paul O'Connor	Marcus Bell	Will Evans
Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☐ Soil Excavation ☐ Stockpile	
Soil Grid Reference:	
Detailed Grid Reference:	
Stockpile Number:	
Top of Excavation:	
Base of Excavation:	

General Image
Detailed Image

Destination of Moved Soil

New Soil Location: ☒ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	C12
Detailed Grid Reference:	50.8597928, -0.9689675
Stockpile Number:	

General Image



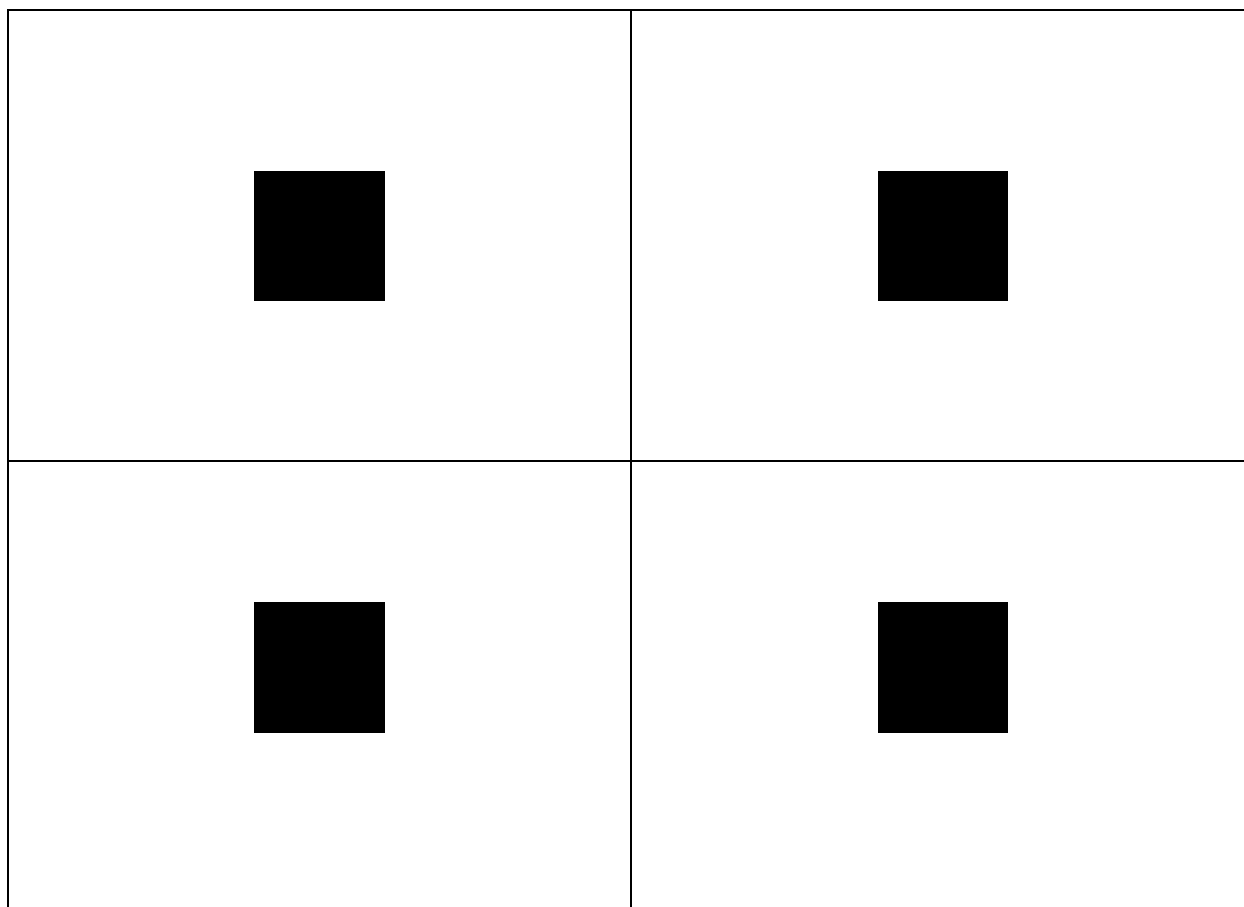
Detailed Image



Sampling / Comments

Origin Sample Taken:	No
Sample Reference:	
Destination Sample Take	Yes
Sample Reference:	Dt C12 01
Sampling Comments	
General Observations	

Additional Images





REMEDIAL OVERSIGHT & MATERIAL TRACKING (PFIZER, HAVANT)

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Status:	Issue 1	

Author:	Reviewed:	Authorised:
		
Paul O'Connor	Marcus Bell	Will Evans
Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☐ Soil Excavation ☐ Stockpile	
Soil Grid Reference:	
Detailed Grid Reference:	
Stockpile Number:	
Top of Excavation:	
Base of Excavation:	

General Image
Detailed Image



Destination of Moved Soil

New Soil Location: ☒ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	E9
Detailed Grid Reference:	50.8596110, -0.9701309
Stockpile Number:	

General Image



Detailed Image

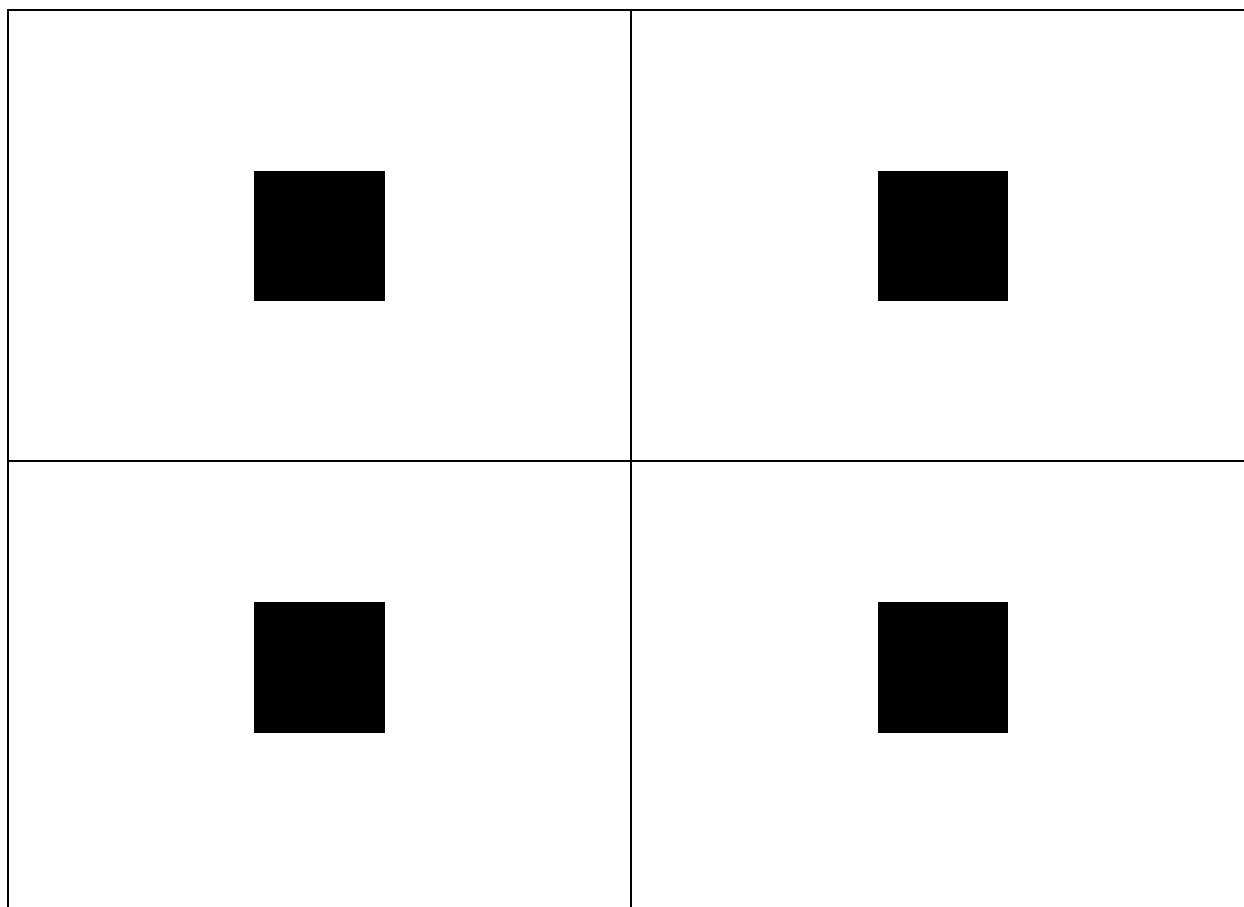




Sampling / Comments

Origin Sample Taken:	No
Sample Reference:	
Destination Sample Take	Yes
Sample Reference:	Dt E9 01
Sampling Comments	
General Observations	

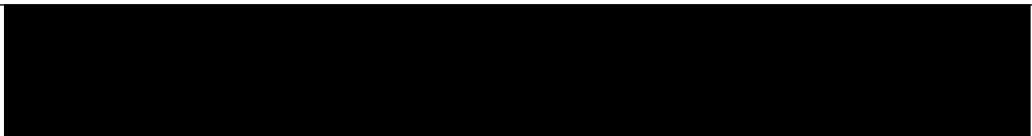
Additional Images





REMEDIAL OVERSIGHT & MATERIAL TRACKING (PFIZER, HAVANT)

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Status:	Issue 1	

Author:	Reviewed:	Authorised:
		
Paul O'Connor	Marcus Bell	Will Evans
Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☐ Soil Excavation ☐ Stockpile	
Soil Grid Reference:	
Detailed Grid Reference:	
Stockpile Number:	
Top of Excavation:	
Base of Excavation:	

General Image
Detailed Image



Destination of Moved Soil

New Soil Location: ☒ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	F8
Detailed Grid Reference:	50.8594484, -0.9706049
Stockpile Number:	

General Image



Detailed Image

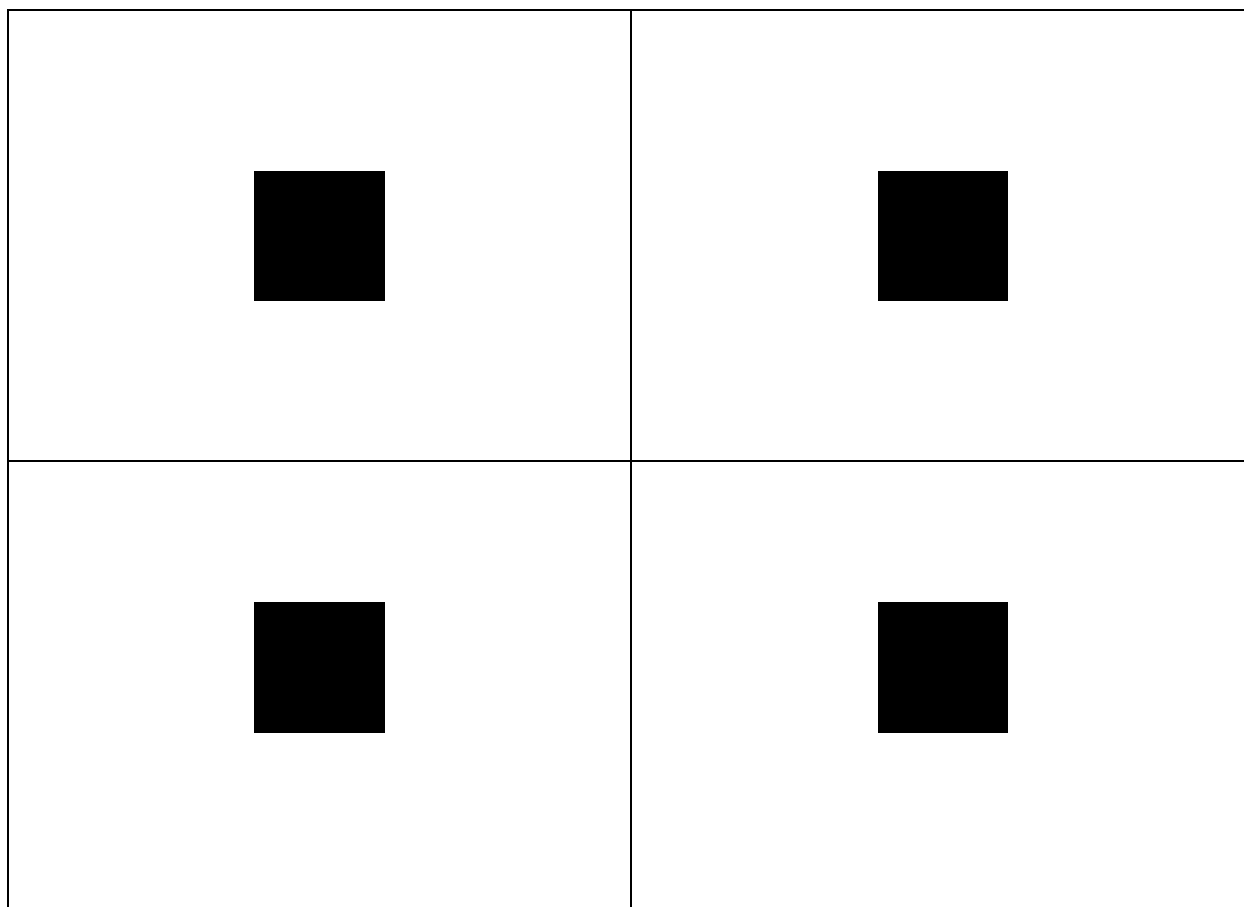




Sampling / Comments

Origin Sample Taken:	No
Sample Reference:	
Destination Sample Take	Yes
Sample Reference:	Dt F8 01
Sampling Comments	
General Observations	

Additional Images





REMEDIAL OVERSIGHT & MATERIAL TRACKING (PFIZER, HAVANT)

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Author:	Reviewed:	Authorised:
		
Paul O'Connor	Marcus Bell	Will Evans
Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☐ Soil Excavation ☐ Stockpile	
Soil Grid Reference:	
Detailed Grid Reference:	
Stockpile Number:	
Top of Excavation:	
Base of Excavation:	

General Image



Detailed Image



Destination of Moved Soil

New Soil Location: ☒ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	G9
Detailed Grid Reference:	50.8592618, -0.9703709
Stockpile Number:	

General Image



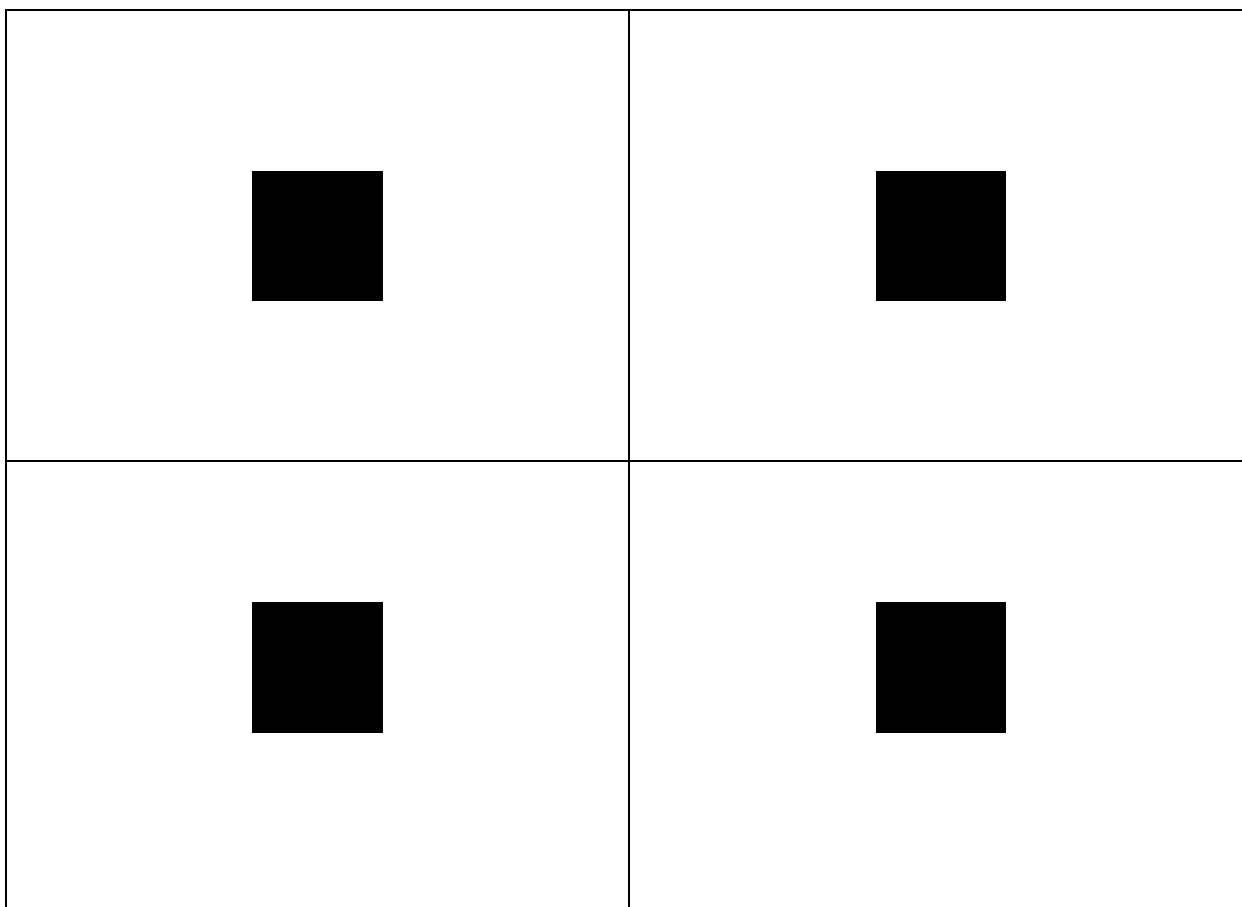
Detailed Image



Sampling / Comments

Origin Sample Taken:	No
Sample Reference:	
Destination Sample Take	Yes
Sample Reference:	Dt G9 01
Sampling Comments	
General Observations	

Additional Images





REMEDIAL OVERSIGHT & MATERIAL TRACKING (PFIZER, HAVANT)

Project Reference:	UK21.5634	
Title:	Remedial Oversight & Material Tracking (Pfizer, Havant)	
Client:	Havant Property LLP	
Date:	12/21/2021	
EPS Contact Details:	7B Caxton House Broad Street Cambourne Cambridge CB23 6JN	T: 01954 710666 F: 01954 710677 E: info@epstrategies.co.uk W: www.epstrategies.co.uk
Status:	Issue 1	

Author:	Reviewed:	Authorised:
A large black rectangular box redacting the names and signatures of the author, reviewer, and authorised person.		
Paul O'Connor	Marcus Bell	Will Evans
Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☐ Soil Excavation ☐ Stockpile	
Soil Grid Reference:	
Detailed Grid Reference:	
Stockpile Number:	
Top of Excavation:	
Base of Excavation:	

General Image
Detailed Image

Destination of Moved Soil

New Soil Location: ☒ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	G7
Detailed Grid Reference:	50.8593492, -0.9710733
Stockpile Number:	

General Image



Detailed Image

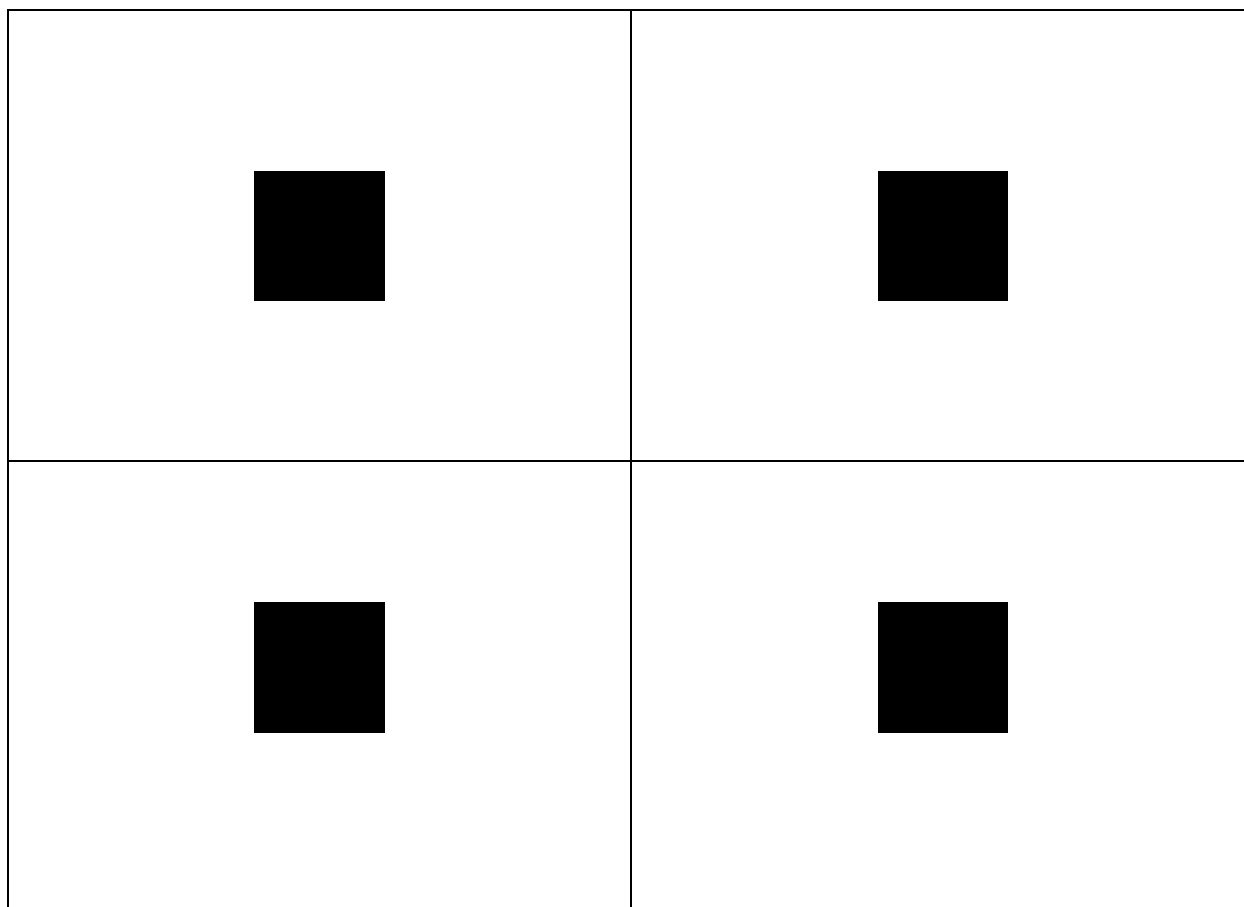




Sampling / Comments

Origin Sample Taken:	No
Sample Reference:	
Destination Sample Take	
Sample Reference:	Dt G7 01
Sampling Comments	
General Observations	

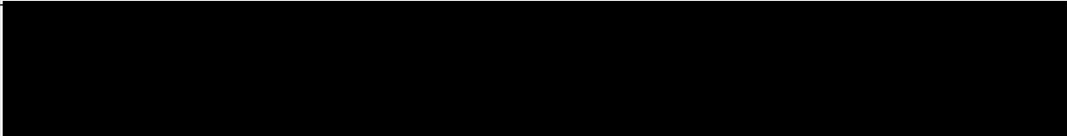
Additional Images





REMEDIAL OVERSIGHT & MATERIAL TRACKING (PFIZER, HAVANT)

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Status:	Issue 1	

Author:	Reviewed:	Authorised:
		
Paul O'Connor	Marcus Bell	Will Evans
Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☐ Soil Excavation ☒ Stockpile	
Soil Grid Reference:	F7
Detailed Grid Reference:	50.8596628, -0.9708088
Stockpile Number:	SP E6 to G9
Top of Excavation:	
Base of Excavation:	

General Image



Detailed Image





Destination of Moved Soil

New Soil Location: ☒ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	
Detailed Grid Reference:	
Stockpile Number:	

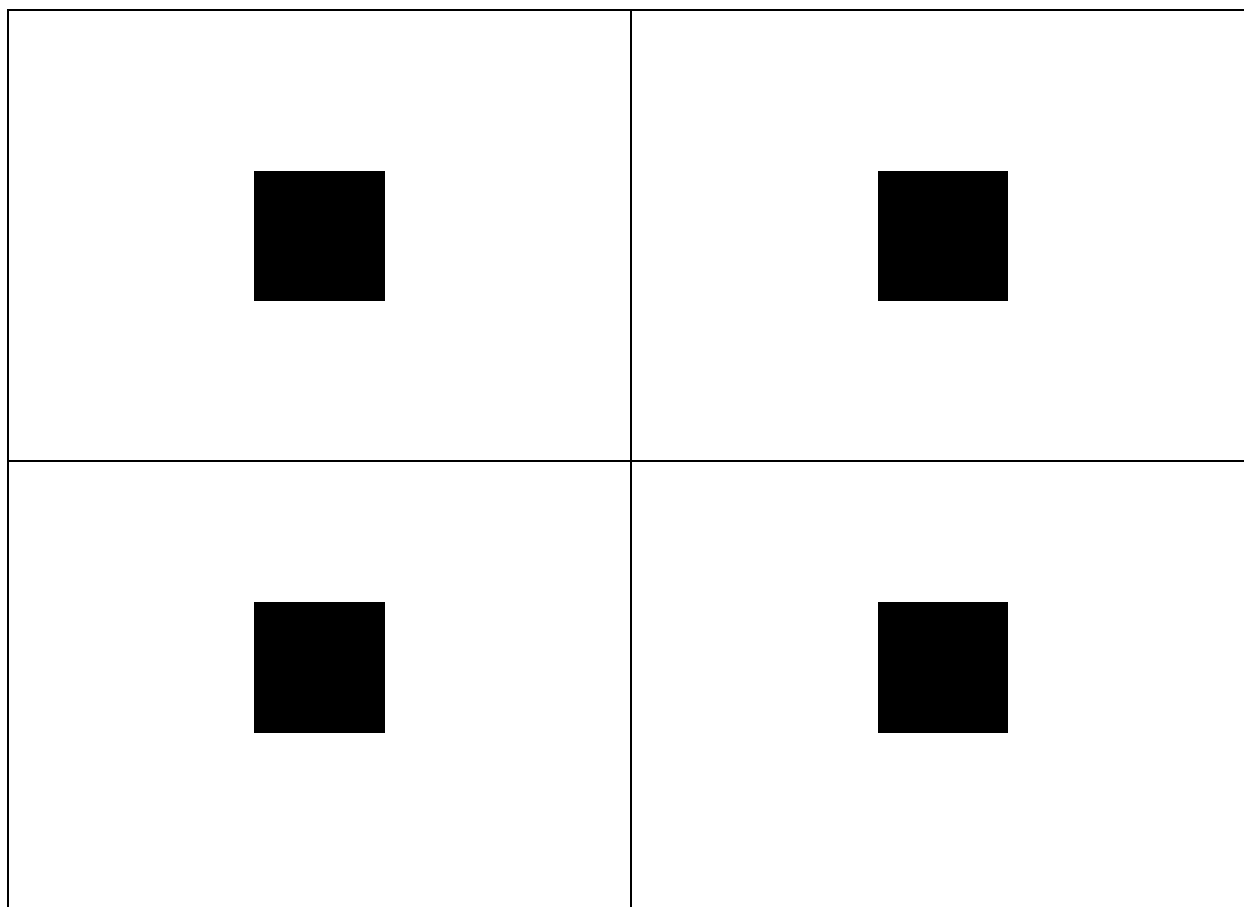
General Image
Detailed Image



Sampling / Comments

Origin Sample Taken:	Yes
Sample Reference:	SP E6 to G9
Destination Sample Take	No
Sample Reference:	
Sampling Comments	
Collected fro E6 to G9. Current location F7.	
General Observations	

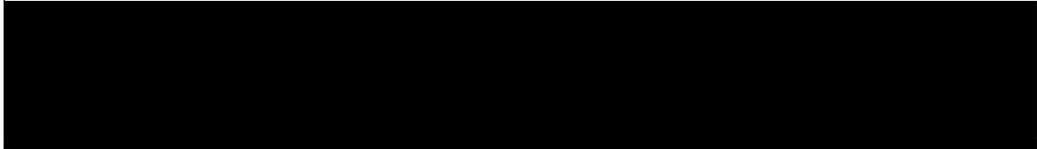
Additional Images





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Author:	Reviewed:	Authorised:
		
Paul O'Connor	Marcus Bell	Will Evans
Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☒ Soil Excavation ☐ Stockpile	
Soil Grid Reference:	G6
Detailed Grid Reference:	50.8593839, -0.9712272
Stockpile Number:	
Top of Excavation:	
Base of Excavation:	

General Image



Detailed Image





Destination of Moved Soil

New Soil Location: ☒ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	G6
Detailed Grid Reference:	
Stockpile Number:	

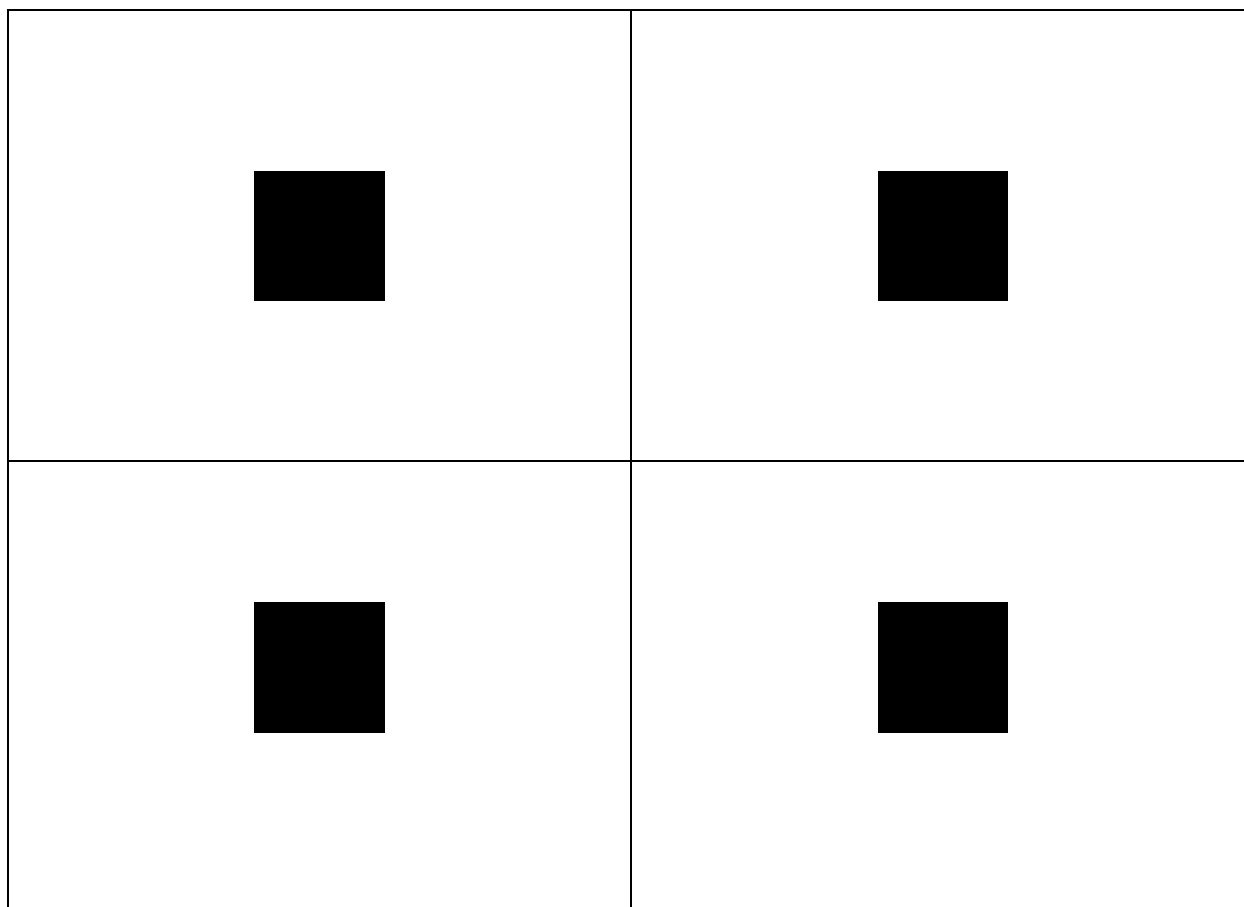
General Image
Detailed Image



Sampling / Comments

Origin Sample Taken:	Yes
Sample Reference:	Or G6 0.5
Destination Sample Take	No
Sample Reference:	
Sampling Comments	
From excavation of foundations	
General Observations	

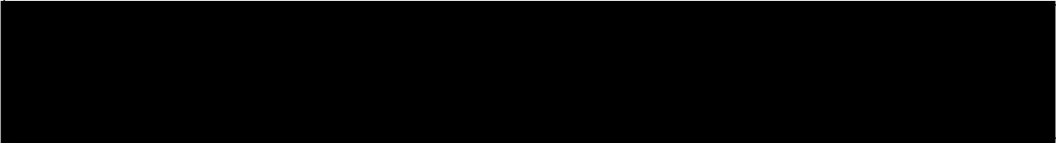
Additional Images





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Author:	Reviewed:	Authorised:
		
Paul O'Connor	Marcus Bell	Will Evans
Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☒ Soil Excavation ☐ Stockpile	
Soil Grid Reference:	F11
Detailed Grid Reference:	50.8592220, -0.9697828
Stockpile Number:	
Top of Excavation:	
Base of Excavation:	

General Image



Detailed Image





Destination of Moved Soil

New Soil Location: ☒ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	
Detailed Grid Reference:	
Stockpile Number:	

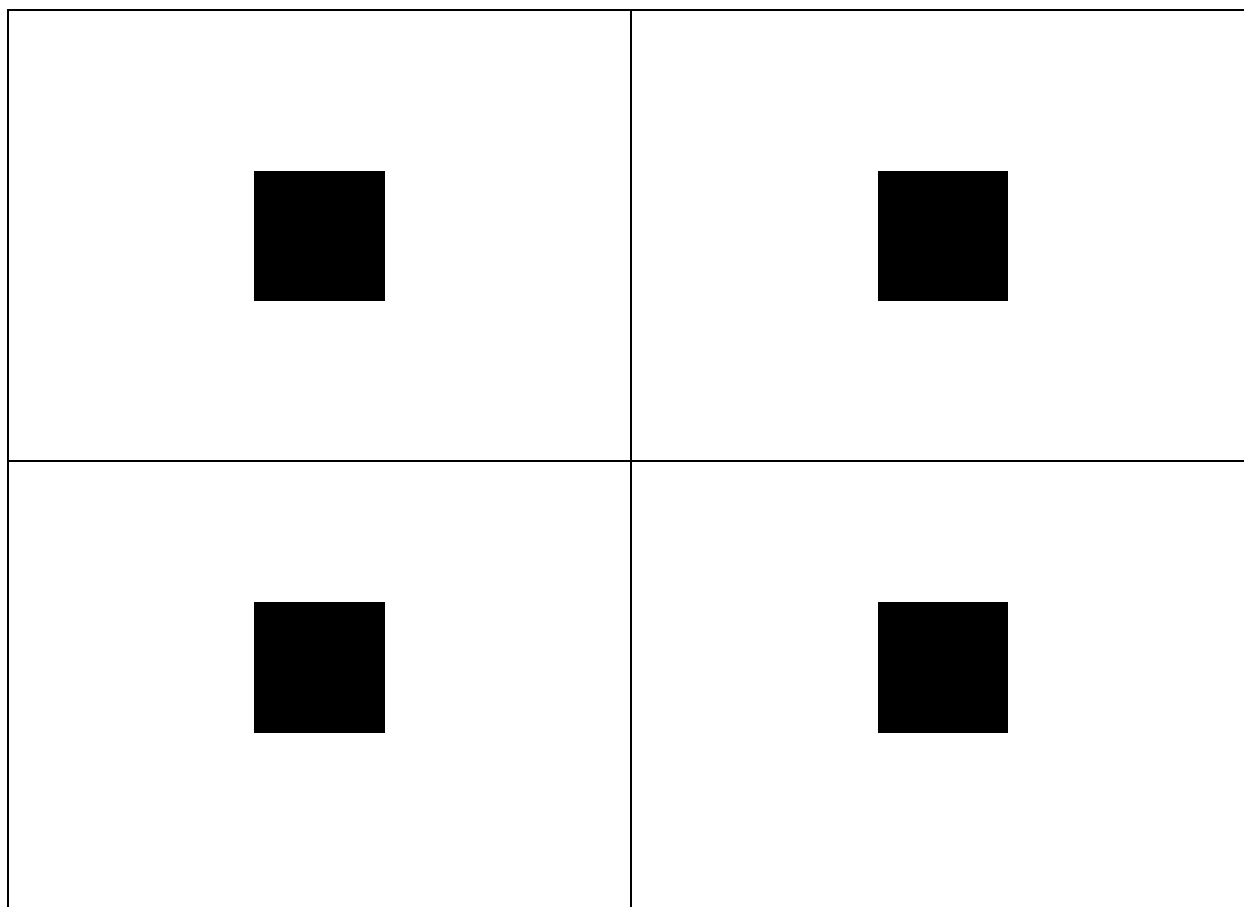
General Image
Detailed Image



Sampling / Comments

Origin Sample Taken:	Yes
Sample Reference:	Or F11 0.5
Destination Sample Take	No
Sample Reference:	
Sampling Comments	
General Observations	

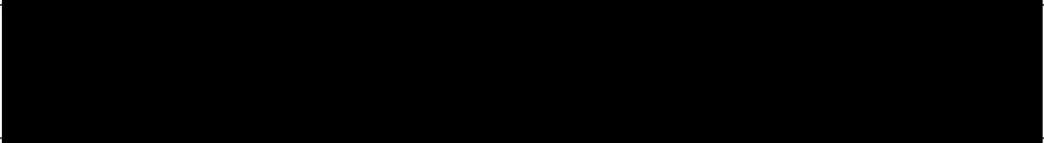
Additional Images





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Author:	Reviewed:	Authorised:
		
Paul O'Connor	Marcus Bell	Will Evans
Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☒ Soil Excavation ☐ Stockpile	
Soil Grid Reference:	F13
Detailed Grid Reference:	50.8590476, -0.9690922
Stockpile Number:	
Top of Excavation:	
Base of Excavation:	

General Image



Detailed Image





Destination of Moved Soil

New Soil Location: ☒ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	
Detailed Grid Reference:	
Stockpile Number:	

General Image
Detailed Image

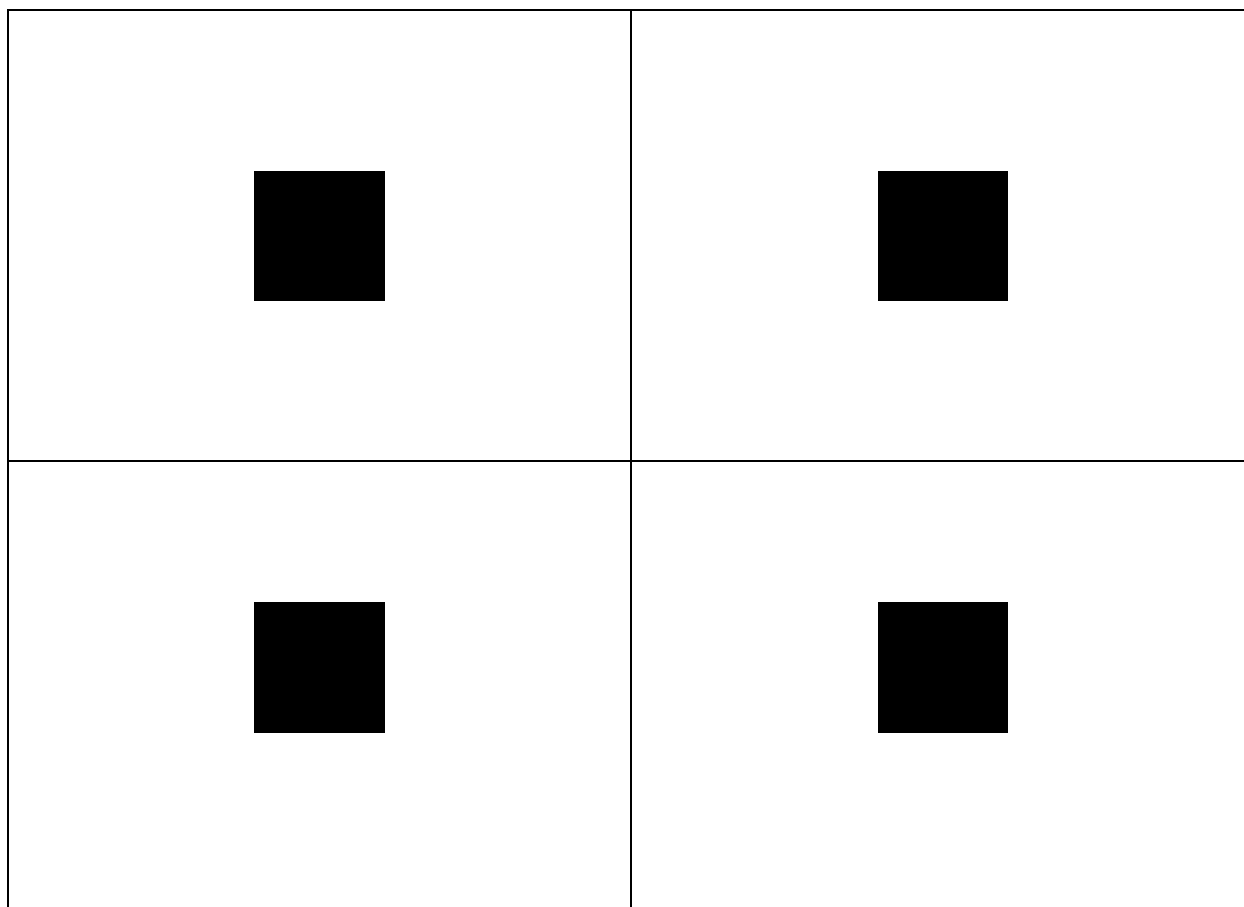




Sampling / Comments

Origin Sample Taken:	Yes
Sample Reference:	Or F13 0.3
Destination Sample Take	No
Sample Reference:	
Sampling Comments	
General Observations	
Foundation Excavation	

Additional Images





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Author:	Reviewed:	Authorised:
Paul O'Connor	Marcus Bell	Will Evans
Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☐ Soil Excavation ☒ Stockpile	
Soil Grid Reference:	K3
Detailed Grid Reference:	50.8589746, -0.9726035
Stockpile Number:	SP02
Top of Excavation:	
Base of Excavation:	

General Image



Detailed Image





Destination of Moved Soil

New Soil Location: ☒ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	
Detailed Grid Reference:	
Stockpile Number:	

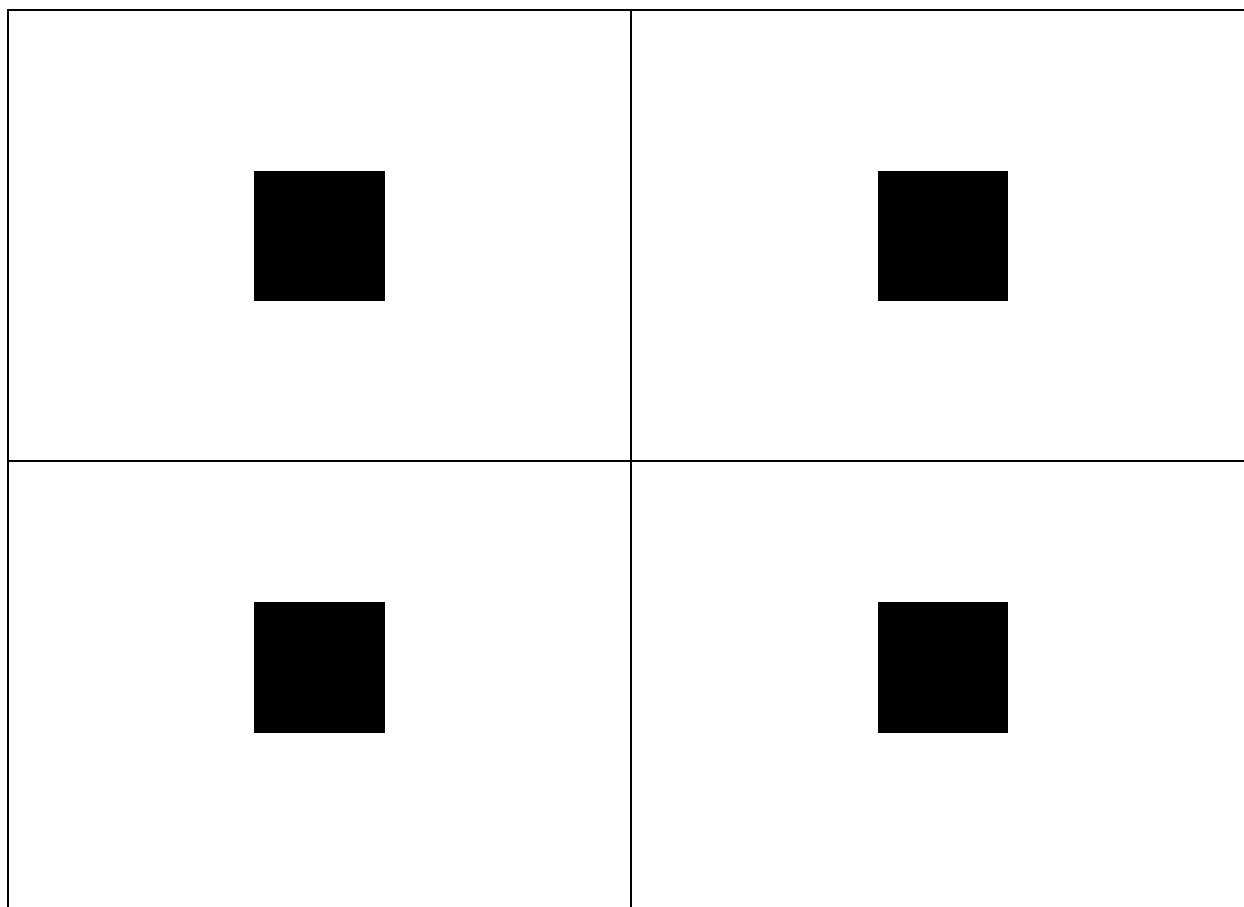
General Image
Detailed Image



Sampling / Comments

Origin Sample Taken:	Yes
Sample Reference:	SP02 K3 03
Destination Sample Take	No
Sample Reference:	
Sampling Comments	
General Observations	

Additional Images





REMEDIAL OVERSIGHT & MATERIAL TRACKING (PFIZER, HAVANT)

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Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☐ Soil Excavation ☒ Stockpile	
Soil Grid Reference:	C5
Detailed Grid Reference:	50.8602850, -0.9711360
Stockpile Number:	SP03
Top of Excavation:	
Base of Excavation:	

General Image



Detailed Image





Destination of Moved Soil

New Soil Location: ☒ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	
Detailed Grid Reference:	
Stockpile Number:	

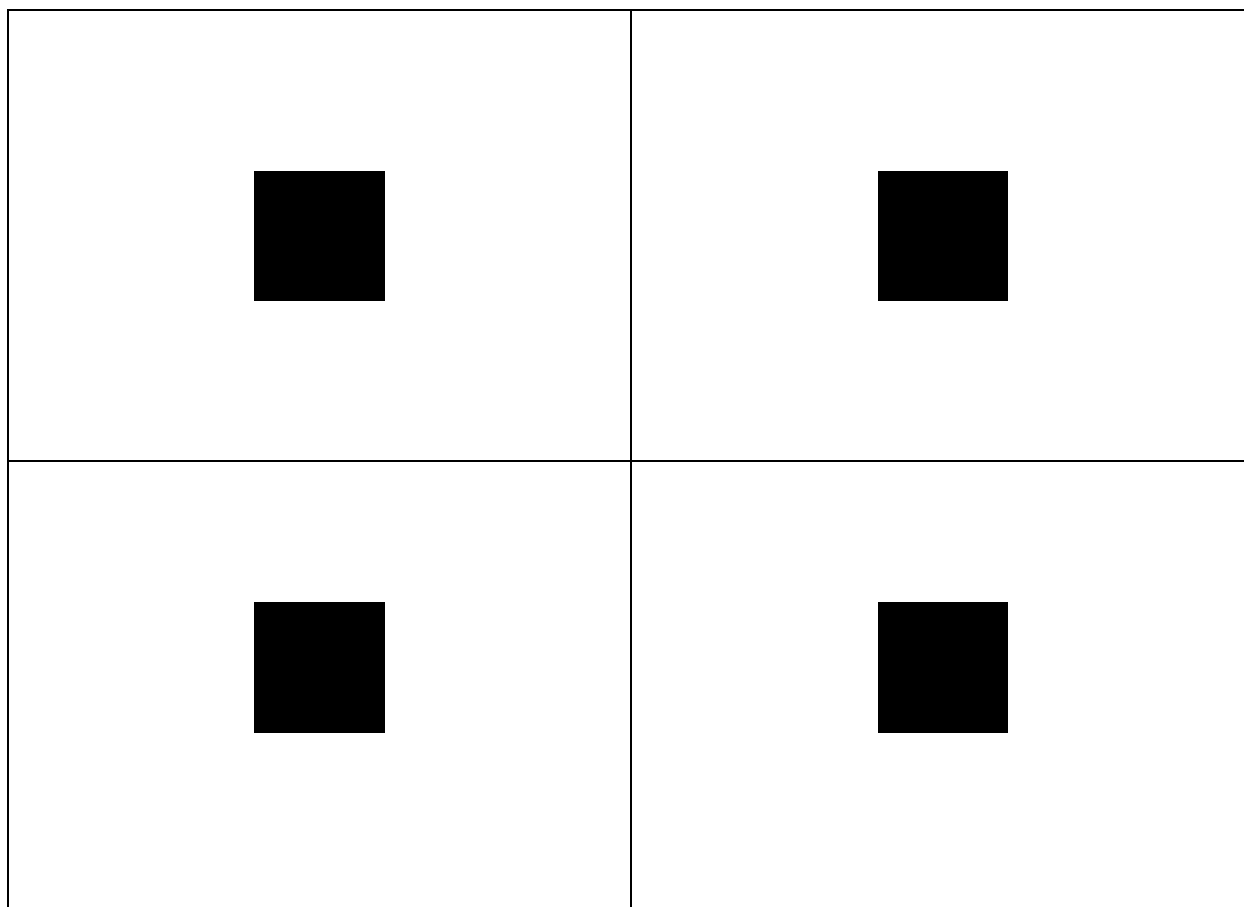
General Image
Detailed Image



Sampling / Comments

Origin Sample Taken:	Yes
Sample Reference:	SP03 C5 01
Destination Sample Take	No
Sample Reference:	
Sampling Comments	
General Observations	

Additional Images





REMEDIAL OVERSIGHT & MATERIAL TRACKING (PFIZER, HAVANT)

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Status:	Issue 1	

Author:	Reviewed:	Authorised:
Paul O'Connor	Marcus Bell	Will Evans
Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☐ Soil Excavation ☒ Stockpile	
Soil Grid Reference:	C5
Detailed Grid Reference:	50.8603773, -0.9708547
Stockpile Number:	SP03
Top of Excavation:	
Base of Excavation:	

General Image



Detailed Image





Destination of Moved Soil

New Soil Location: ☒ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	
Detailed Grid Reference:	
Stockpile Number:	

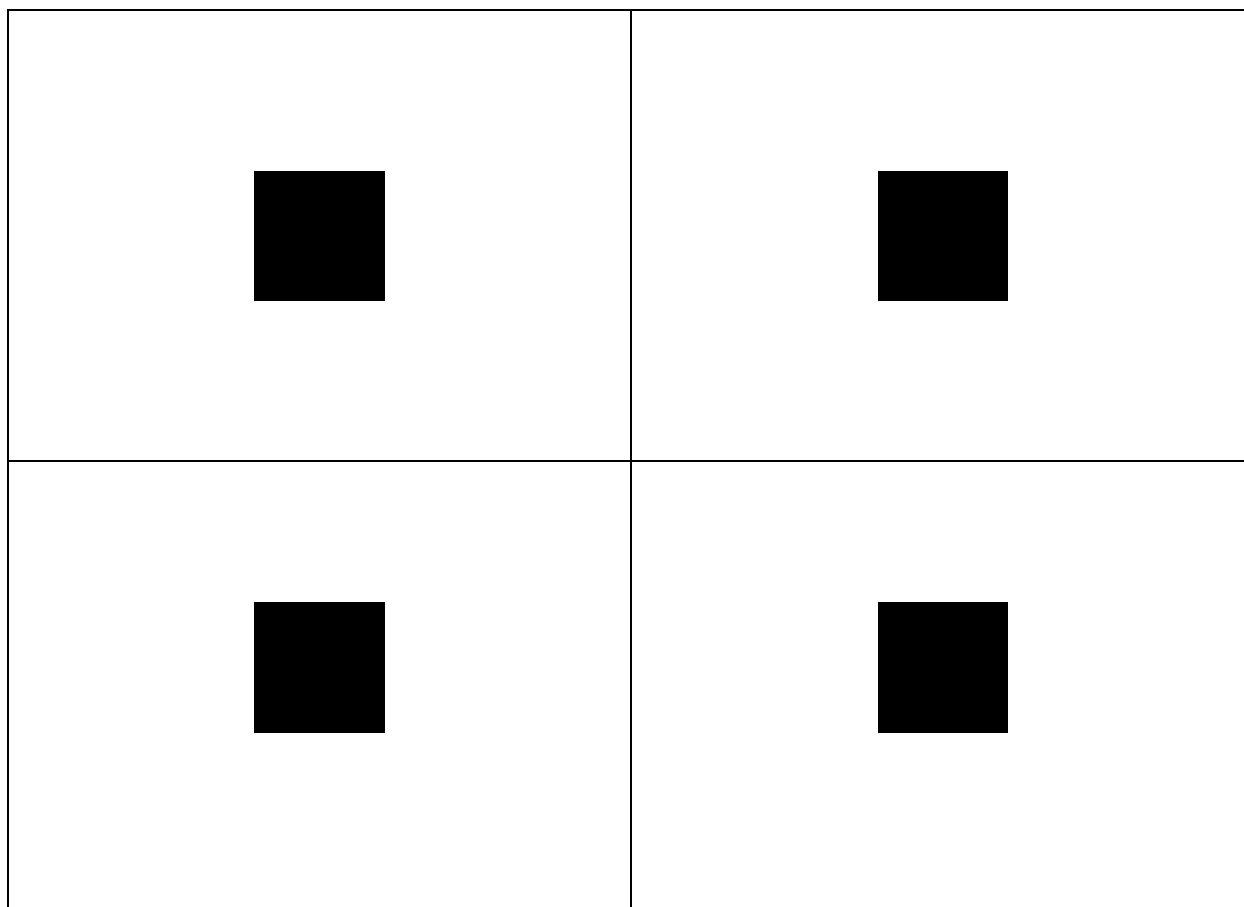
General Image
Detailed Image



Sampling / Comments

Origin Sample Taken:	Yes
Sample Reference:	SP03 C5 02
Destination Sample Take	No
Sample Reference:	
Sampling Comments	
General Observations	

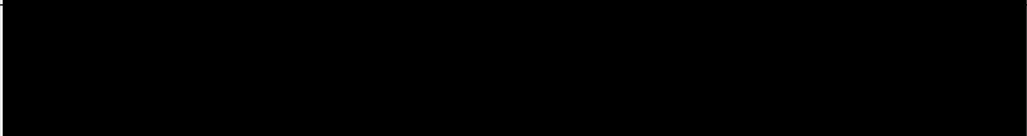
Additional Images





REMEDIAL OVERSIGHT & MATERIAL TRACKING (PFIZER, HAVANT)

Project Reference:	UK21.5634	
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Status:	Issue 1	

Author:	Reviewed:	Authorised:
		
Paul O'Connor	Marcus Bell	Will Evans
Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☐ Soil Excavation ☒ Stockpile	
Soil Grid Reference:	J4
Detailed Grid Reference:	50.85911111, -0.9722562
Stockpile Number:	SP02
Top of Excavation:	
Base of Excavation:	

General Image



Detailed Image





Destination of Moved Soil

New Soil Location: ☒ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	
Detailed Grid Reference:	
Stockpile Number:	

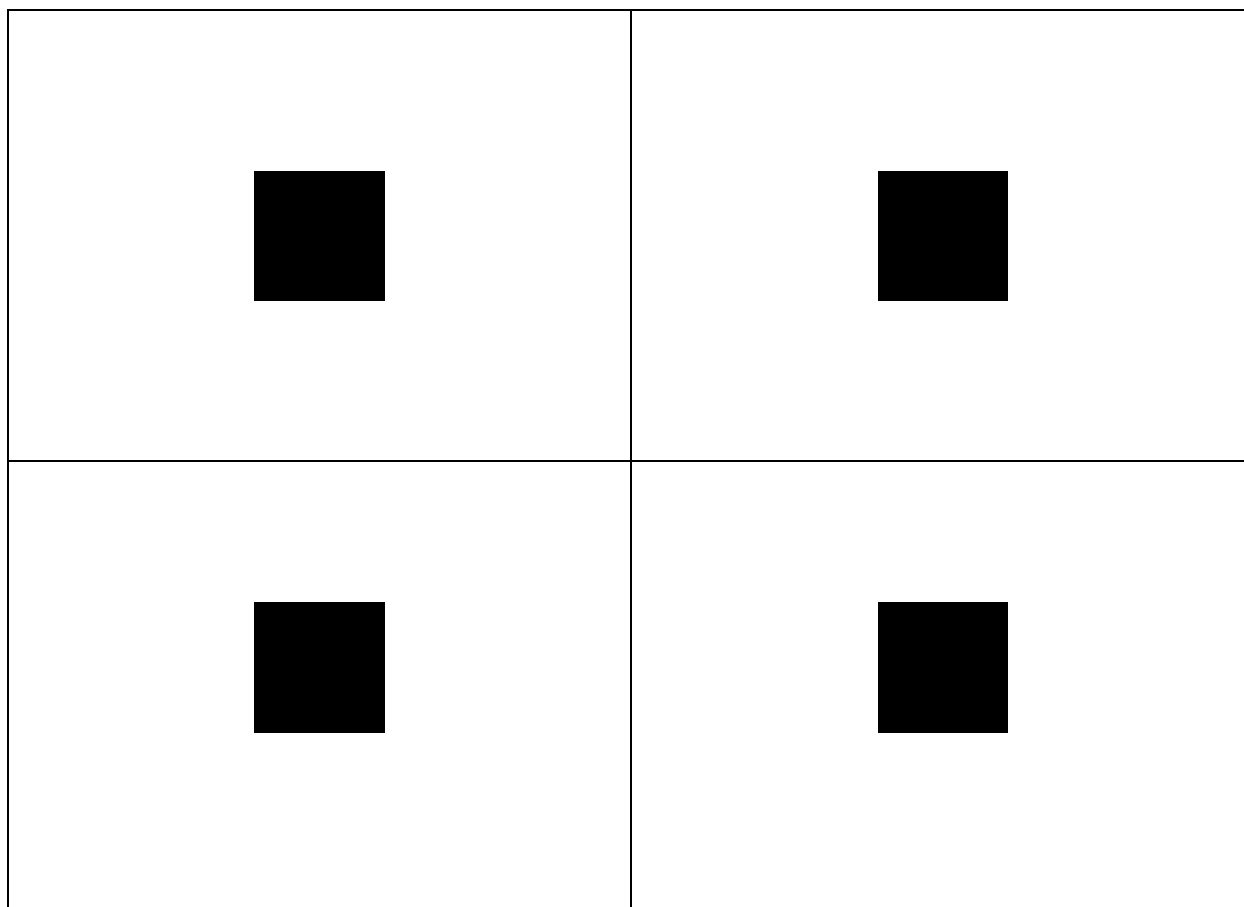
General Image
Detailed Image



Sampling / Comments

Origin Sample Taken:	Yes
Sample Reference:	SP02 J4 02
Destination Sample Take	No
Sample Reference:	
Sampling Comments	
General Observations	
SP02 May be distributed on site or exported.	

Additional Images





REMEDIAL OVERSIGHT & MATERIAL TRACKING (PFIZER, HAVANT)

Project Reference:	UK21.5634	
Title:	Remedial Oversight & Material Tracking (Pfizer, Havant)	
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Status:	Issue 1	

Author:	Reviewed:	Authorised:
Paul O'Connor	Marcus Bell	Will Evans
Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☐ Soil Excavation ☒ Stockpile	
Soil Grid Reference:	J3
Detailed Grid Reference:	50.8592986, -0.9725824
Stockpile Number:	SP02
Top of Excavation:	
Base of Excavation:	

General Image



Detailed Image





Destination of Moved Soil

New Soil Location: ☒ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	
Detailed Grid Reference:	
Stockpile Number:	

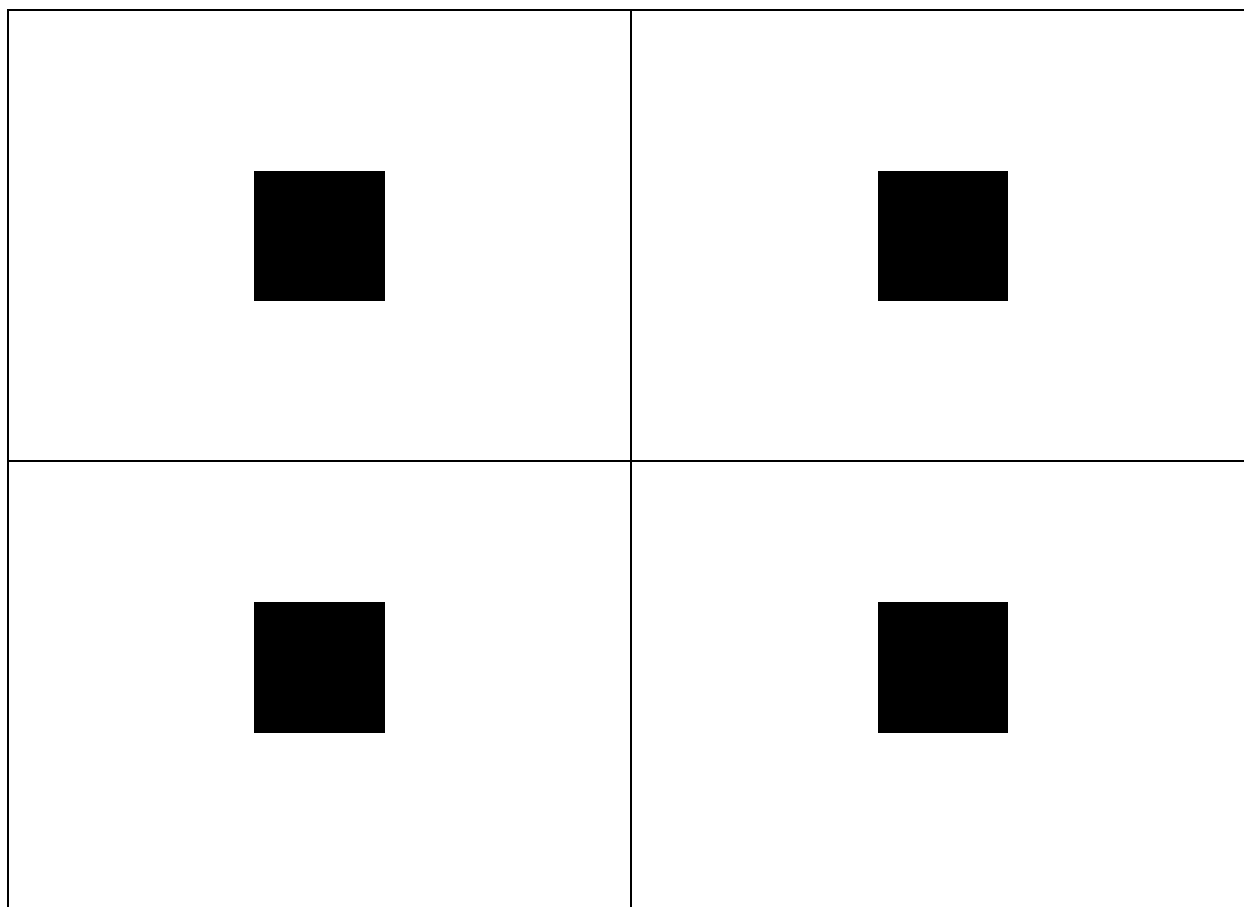
General Image
Detailed Image



Sampling / Comments

Origin Sample Taken:	Yes
Sample Reference:	SP02 J3 01
Destination Sample Taken:	No
Sample Reference:	
Sampling Comments	
General Observations	

Additional Images





REMEDIAL OVERSIGHT & MATERIAL TRACKING (PFIZER, HAVANT)

Project Reference:	UK21.5634	
Title:	Remedial Oversight & Material Tracking (Pfizer, Havant)	
Client:	Havant Property LLP	
Date:	12/15/2021	
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Status:	Issue 1	

Author:	Reviewed:	Authorised:
		
Paul O'Connor	Marcus Bell	Will Evans
Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☒ Soil Excavation ☐ Stockpile	
Soil Grid Reference:	B10 to C13
Detailed Grid Reference:	50.8596116, -0.9687157
Stockpile Number:	SP B10 to C13
Top of Excavation:	
Base of Excavation:	

General Image



Detailed Image





Destination of Moved Soil

New Soil Location: ☐ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	
Detailed Grid Reference:	
Stockpile Number:	

General Image
Detailed Image

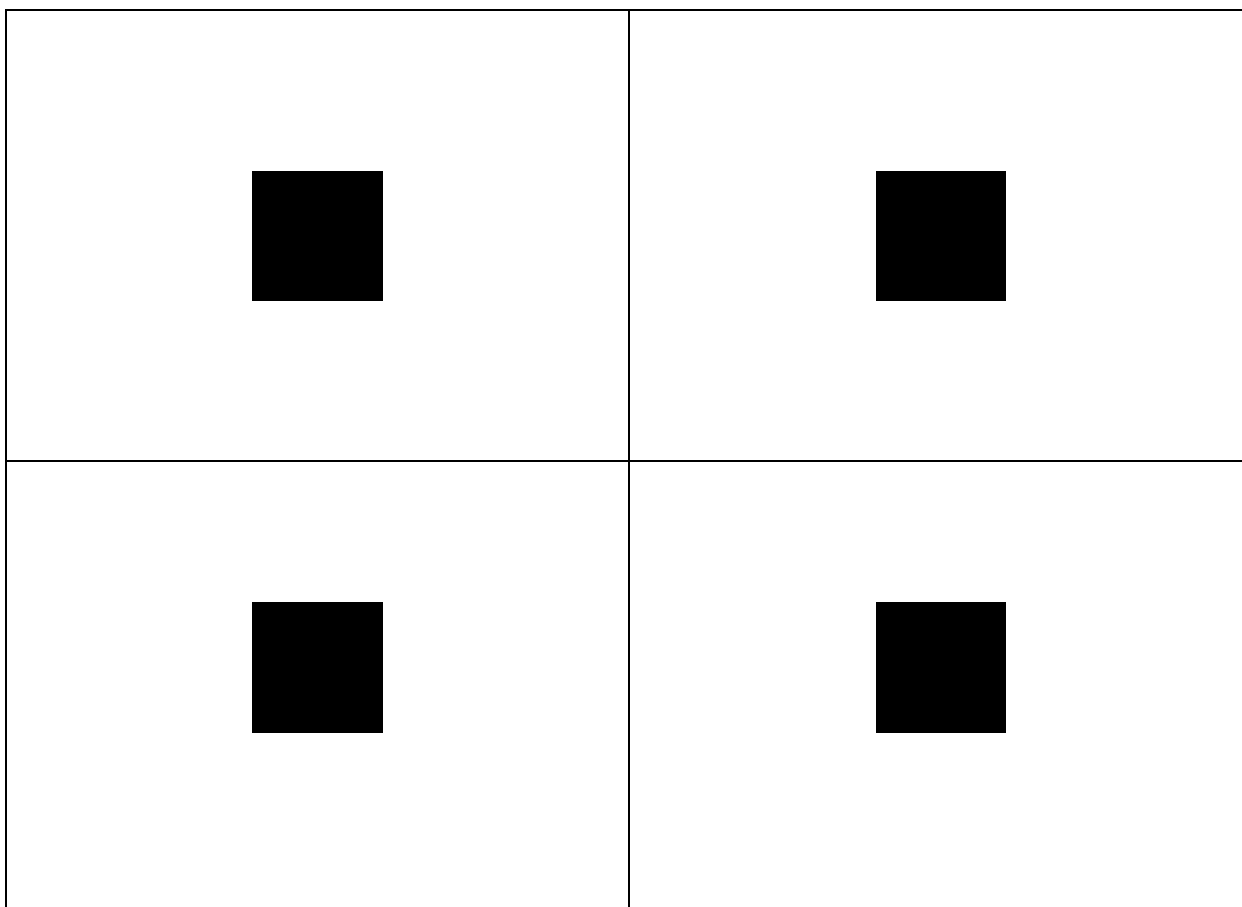




Sampling / Comments

Origin Sample Taken:	Yes
Sample Reference:	Or SPB10 to C13 02
Destination Sample Take	
Sample Reference:	
Sampling Comments	
General Observations	

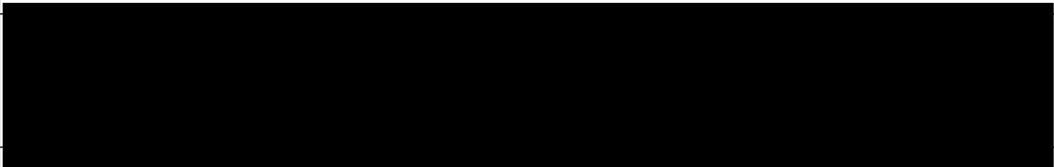
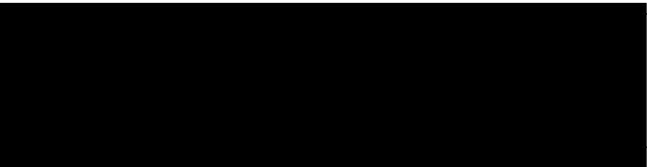
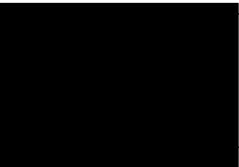
Additional Images





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Paul O'Connor	Marcus Bell	Will Evans
Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☒ Soil Excavation ☐ Stockpile	
Soil Grid Reference:	B10 to C13
Detailed Grid Reference:	50.8594161, -0.9690077
Stockpile Number:	SP B10 to C13
Top of Excavation:	
Base of Excavation:	

General Image



Detailed Image





Destination of Moved Soil

New Soil Location: ☐ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	
Detailed Grid Reference:	
Stockpile Number:	

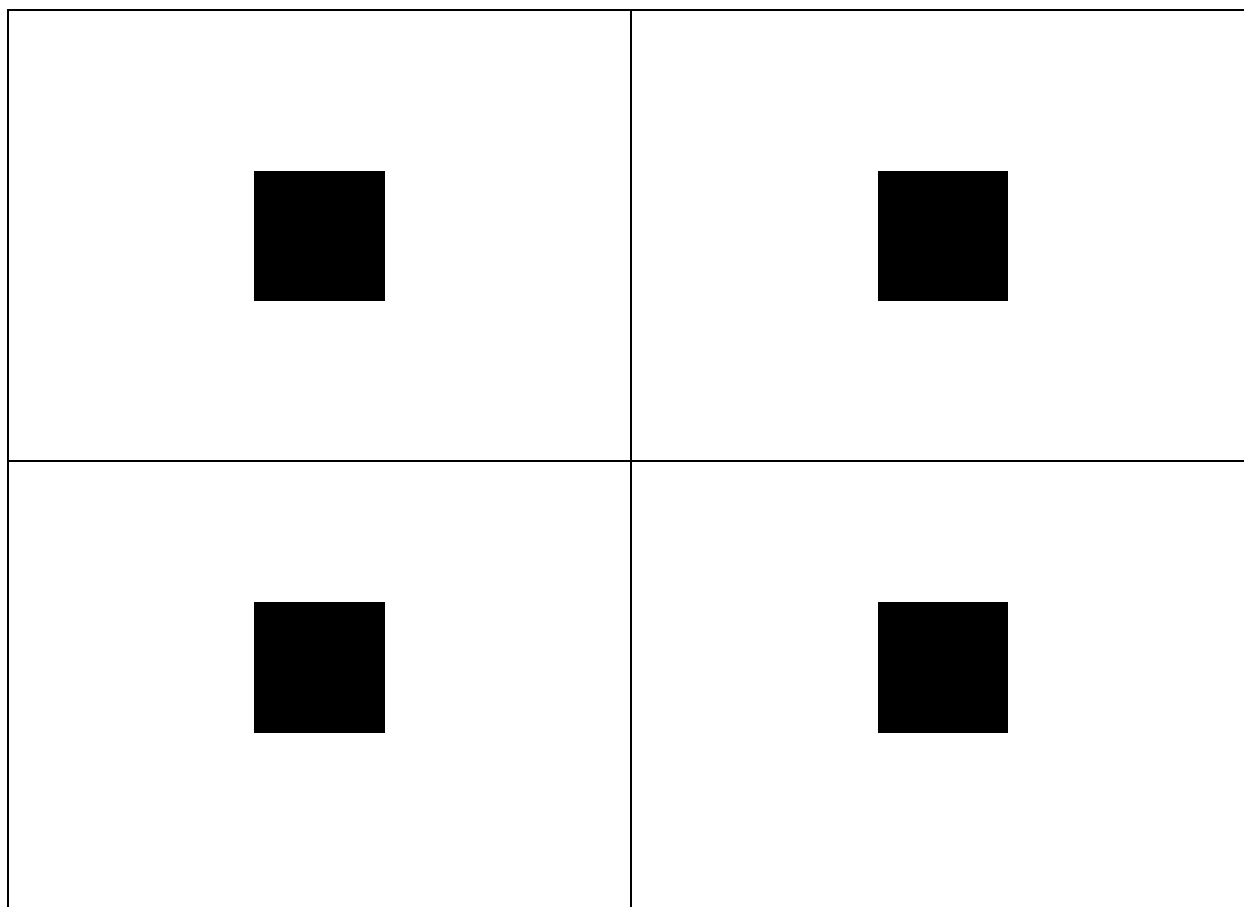
General Image
Detailed Image



Sampling / Comments

Origin Sample Taken:	Yes
Sample Reference:	Or SPB10 to C13 01
Destination Sample Take	No
Sample Reference:	
Sampling Comments	
General Observations	

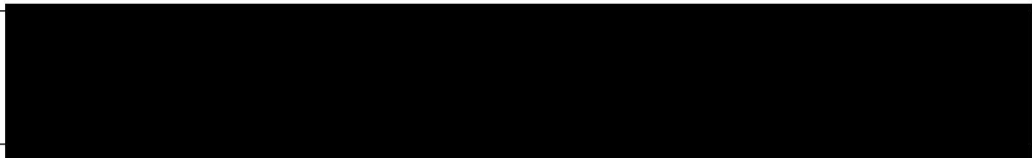
Additional Images





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Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☒ Soil Excavation ☐ Stockpile	
Soil Grid Reference:	
Detailed Grid Reference:	
Stockpile Number:	
Top of Excavation:	
Base of Excavation:	

General Image
Detailed Image



Destination of Moved Soil

New Soil Location: ☒ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	B4
Detailed Grid Reference:	50.8605855, -0.9712859
Stockpile Number:	

General Image



Detailed Image

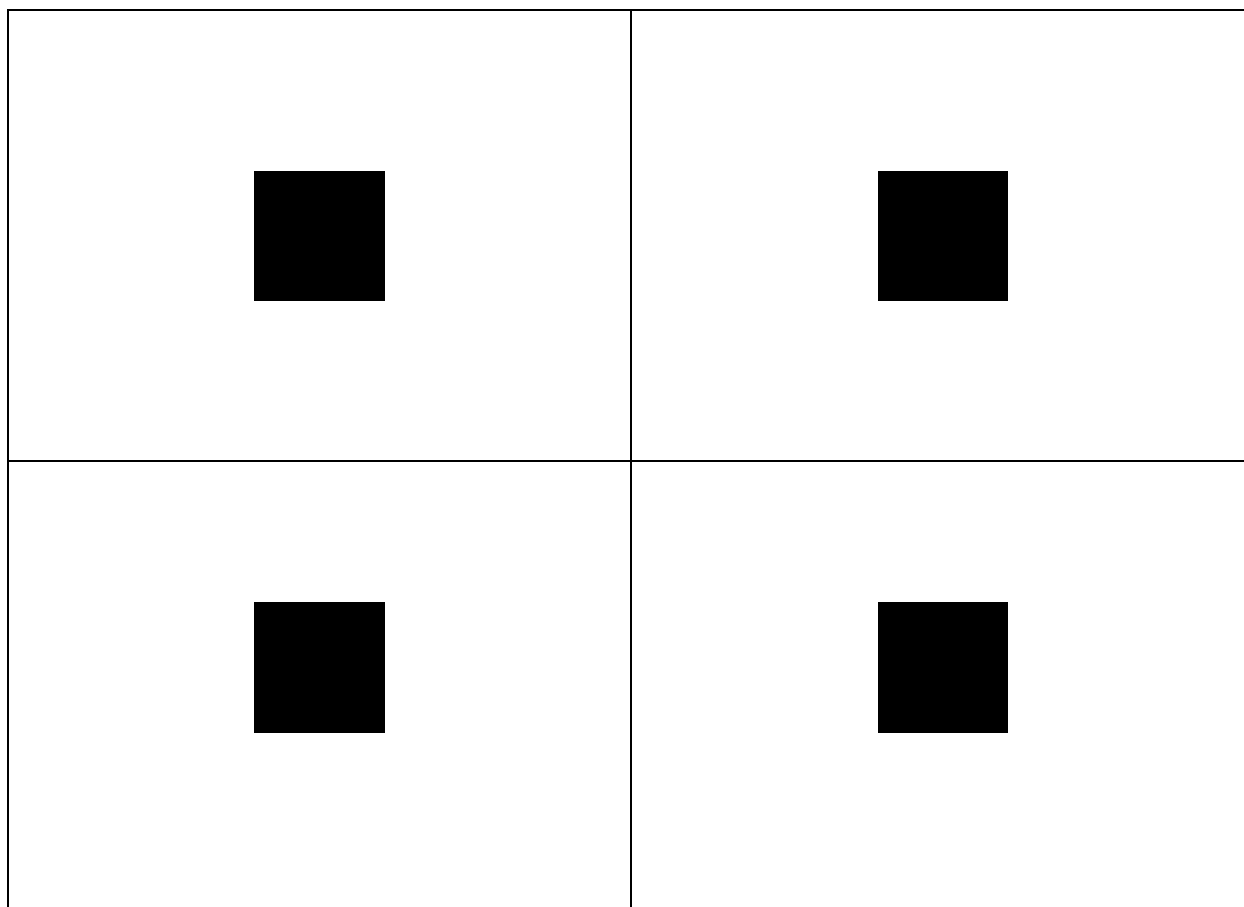




Sampling / Comments

Origin Sample Taken:	
Sample Reference:	
Destination Sample Taken:	Yes
Sample Reference:	Dt B4 01
Sampling Comments	
General Observations	

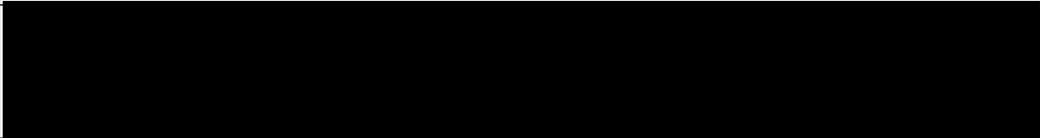
Additional Images





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Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☒ Soil Excavation ☐ Stockpile	
Soil Grid Reference:	E10
Detailed Grid Reference:	50.8595680, -0.9698536
Stockpile Number:	
Top of Excavation:	0.0
Base of Excavation:	1.5

General Image



Detailed Image





Destination of Moved Soil

New Soil Location: ☐ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	
Detailed Grid Reference:	
Stockpile Number:	

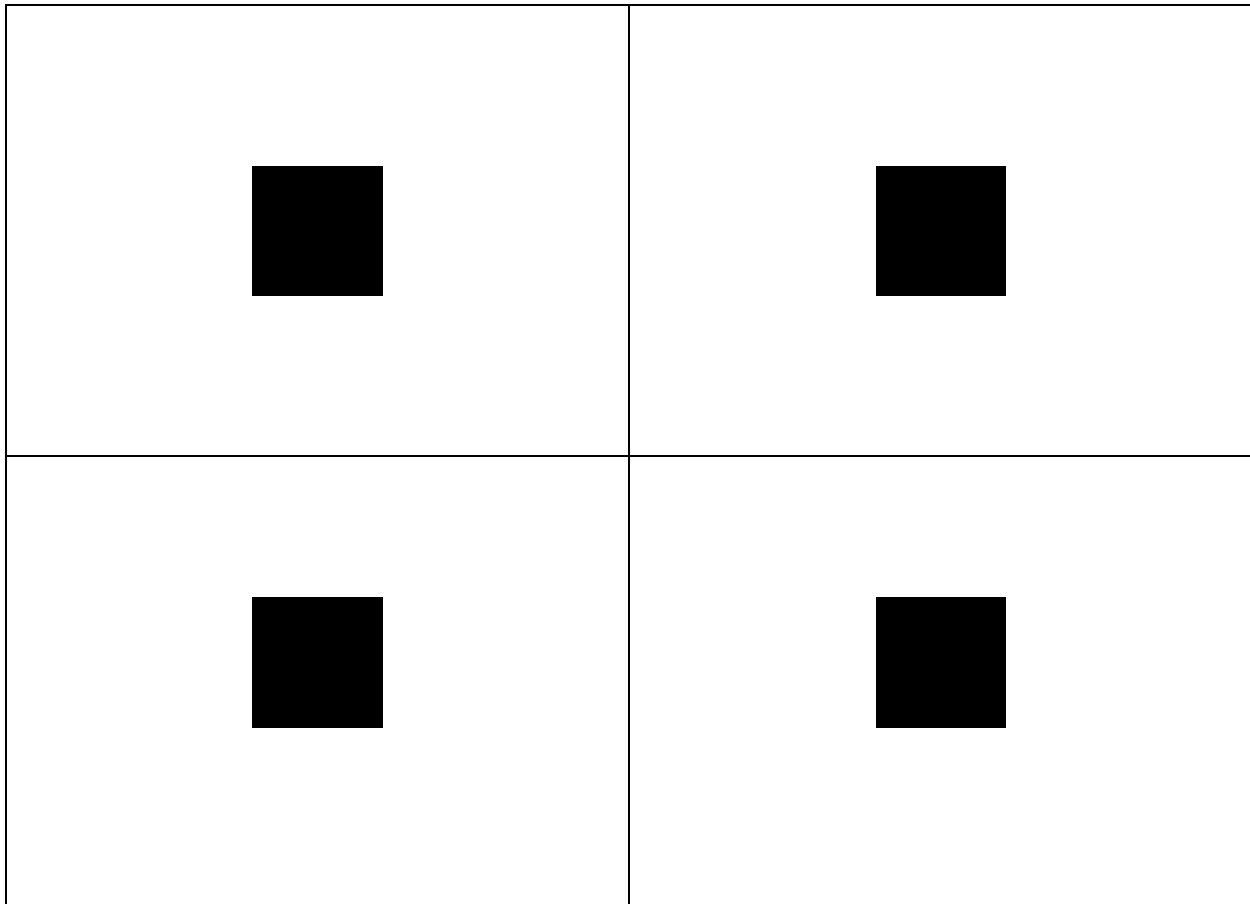
General Image
Detailed Image



Sampling / Comments

Origin Sample Taken:	Yes
Sample Reference:	Or E10 01 1.0
Destination Sample Taken:	No
Sample Reference:	
Sampling Comments	
General Observations	

Additional Images





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Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☒ Soil Excavation ☐ Stockpile	
Soil Grid Reference:	B8 to C13
Detailed Grid Reference:	
Stockpile Number:	
Top of Excavation:	
Base of Excavation:	

General Image
Detailed Image



Destination of Moved Soil

New Soil Location: ☒ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	C5
Detailed Grid Reference:	50.8602651, -0.9710364
Stockpile Number:	

General Image



Detailed Image

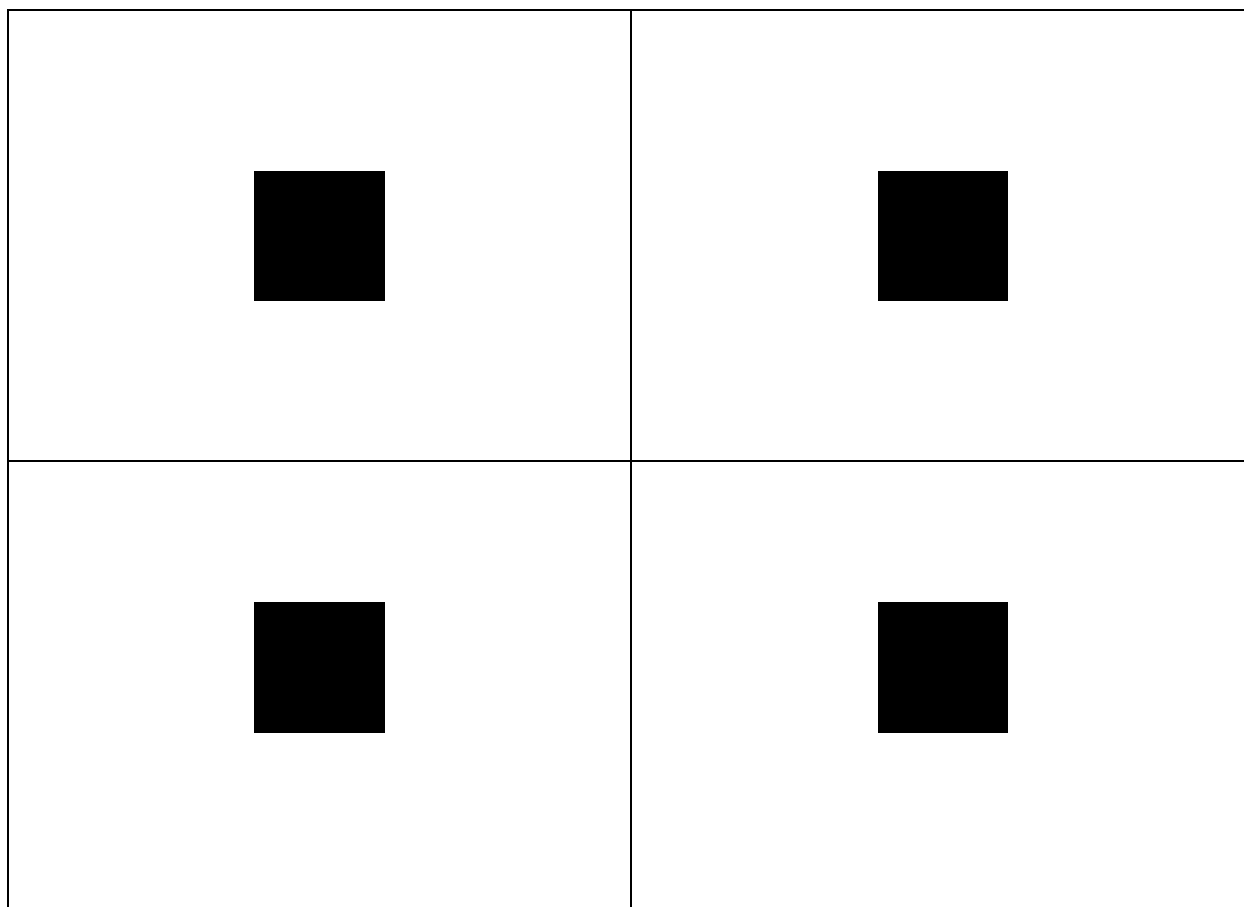




Sampling / Comments

Origin Sample Taken:	
Sample Reference:	
Destination Sample Taken:	Yes
Sample Reference:	Dt C5 01
Sampling Comments	
General Observations	

Additional Images





REMEDIAL OVERSIGHT & MATERIAL TRACKING (PFIZER, HAVANT)

Project Reference:	UK21.5634	
Title:	Remedial Oversight & Material Tracking (Pfizer, Havant)	
Client:	Havant Property LLP	
Date:	12/15/2021	
EPS Contact Details:	7B Caxton House Broad Street Cambourne Cambridge CB23 6JN	T: 01954 710666 F: 01954 710677 E: info@epstrategies.co.uk W: www.epstrategies.co.uk
Status:	Issue 1	

Author:	Reviewed:	Authorised:
		
Paul O'Connor	Marcus Bell	Will Evans
Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☒ Soil Excavation ☐ Stockpile	
Soil Grid Reference:	E6
Detailed Grid Reference:	50.8598203, -0.9710991
Stockpile Number:	
Top of Excavation:	0.0
Base of Excavation:	1.5

General Image



Detailed Image





Destination of Moved Soil

New Soil Location: ☒ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	B3 to C6
Detailed Grid Reference:	
Stockpile Number:	

General Image



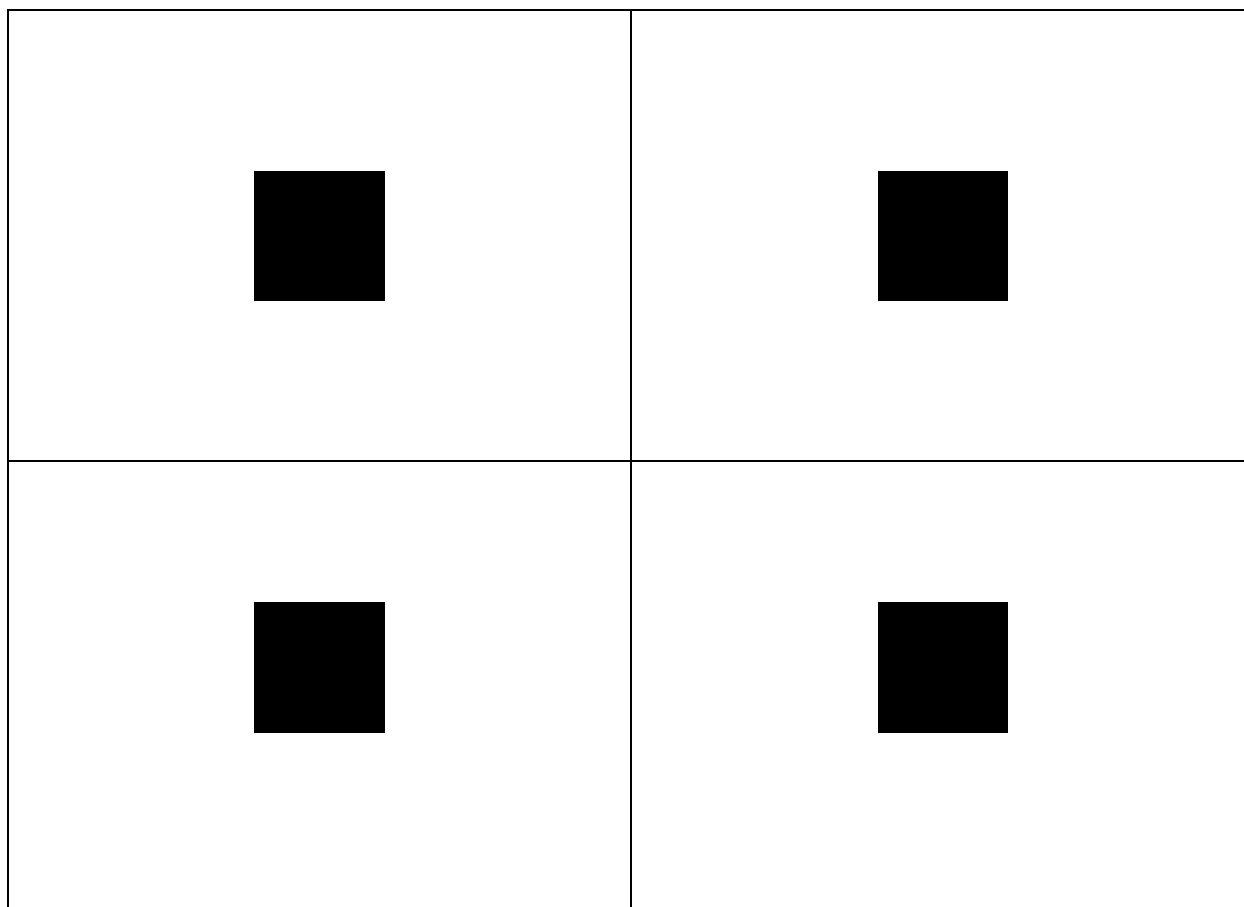
Detailed Image



Sampling / Comments

Origin Sample Taken:	Yes
Sample Reference:	Or E6 01
Destination Sample Taken	No
Sample Reference:	
Sampling Comments	
General Observations	

Additional Images





REMEDIAL OVERSIGHT & MATERIAL TRACKING (PFIZER, HAVANT)

Project Reference:	UK21.5634	
Title:	Remedial Oversight & Material Tracking (Pfizer, Havant)	
Client:	Havant Property LLP	
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Status:	Issue 1	

Author:	Reviewed:	Authorised:
		
Paul O'Connor	Marcus Bell	Will Evans
Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☒ Soil Excavation ☐ Stockpile	
Soil Grid Reference:	E7
Detailed Grid Reference:	
Stockpile Number:	
Top of Excavation:	
Base of Excavation:	

General Image
Detailed Image



Destination of Moved Soil

New Soil Location: ☒ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	D7
Detailed Grid Reference:	50.8599424, -0.9706073
Stockpile Number:	

General Image



Detailed Image

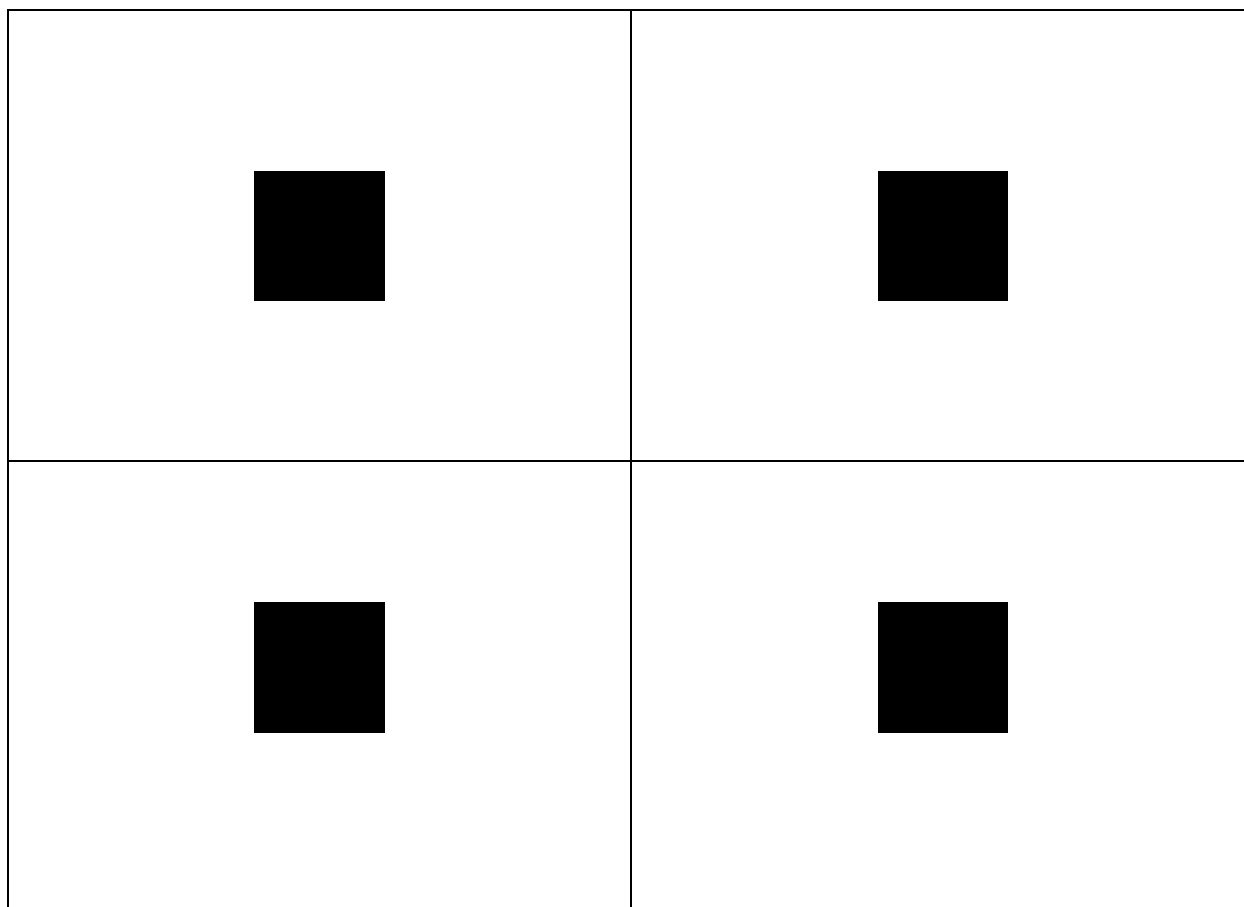




Sampling / Comments

Origin Sample Taken:	
Sample Reference:	
Destination Sample Taken:	Yes
Sample Reference:	Dt D7 01
Sampling Comments	
General Observations	

Additional Images





REMEDIAL OVERSIGHT & MATERIAL TRACKING (PFIZER, HAVANT)

Project Reference:	UK21.5634	
Title:	Remedial Oversight & Material Tracking (Pfizer, Havant)	
Client:	Havant Property LLP	
Date:	12/15/2021	
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Status:	Issue 1	

Author:	Reviewed:	Authorised:
		
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Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☒ Soil Excavation ☐ Stockpile	
Soil Grid Reference:	B10 to C13
Detailed Grid Reference:	
Stockpile Number:	
Top of Excavation:	
Base of Excavation:	

General Image
Detailed Image

Destination of Moved Soil

New Soil Location: ☒ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	D5
Detailed Grid Reference:	50.8601316, -0.9712547
Stockpile Number:	

General Image



Detailed Image

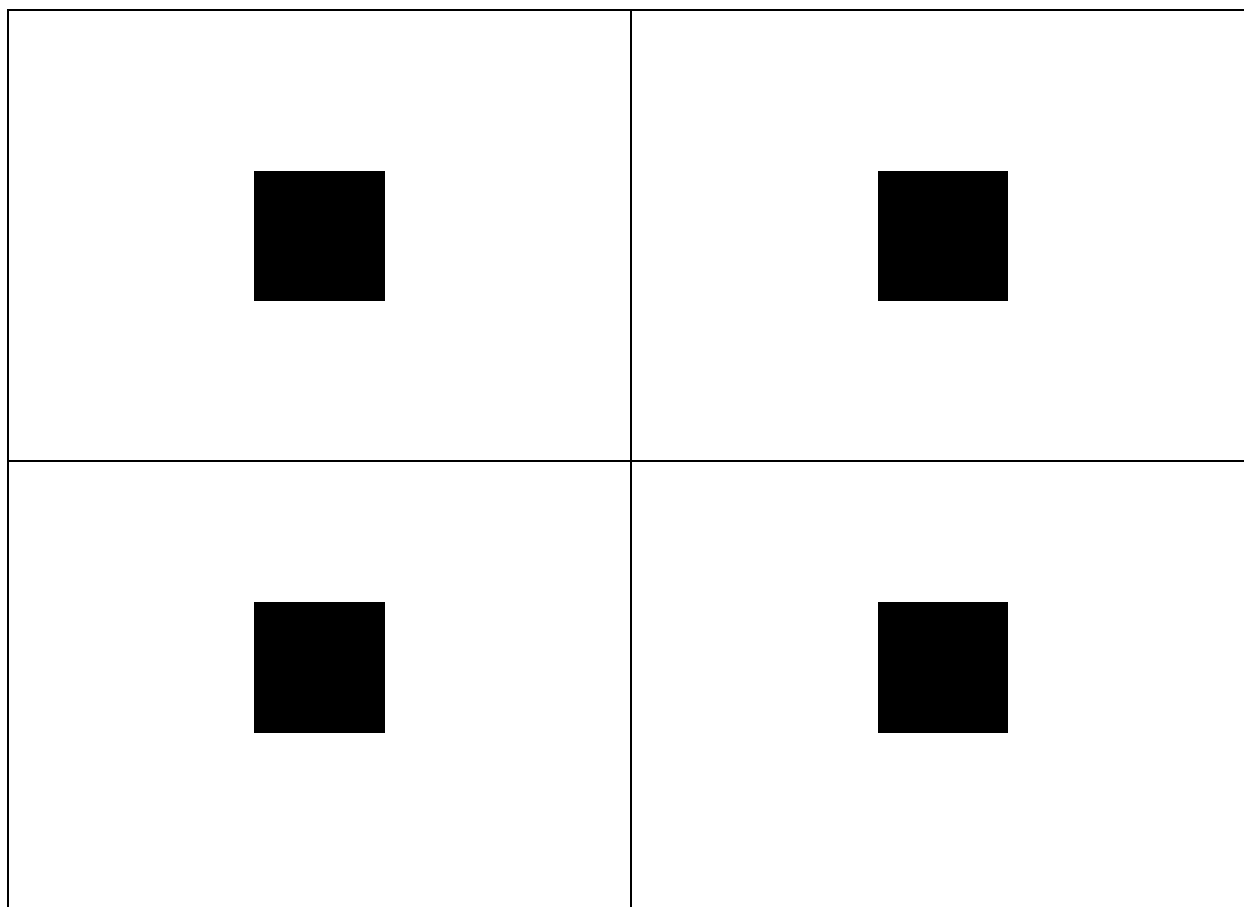




Sampling / Comments

Origin Sample Taken:	No
Sample Reference:	
Destination Sample Take	Yes
Sample Reference:	Dt D5 01
Sampling Comments	
General Observations	

Additional Images





REMEDIAL OVERSIGHT & MATERIAL TRACKING (PFIZER, HAVANT)

Project Reference:	UK21.5634	
Title:	Remedial Oversight & Material Tracking (Pfizer, Havant)	
Client:	Havant Property LLP	
Date:	12/16/2021	
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Status:	Issue 1	

Author:	Reviewed:	Authorised:
		
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Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☐ Soil Excavation ☒ Stockpile	
Soil Grid Reference:	K2
Detailed Grid Reference:	
Stockpile Number:	SP01
Top of Excavation:	
Base of Excavation:	

General Image



Detailed Image





Destination of Moved Soil

New Soil Location: ☐ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	
Detailed Grid Reference:	
Stockpile Number:	

General Image
Detailed Image

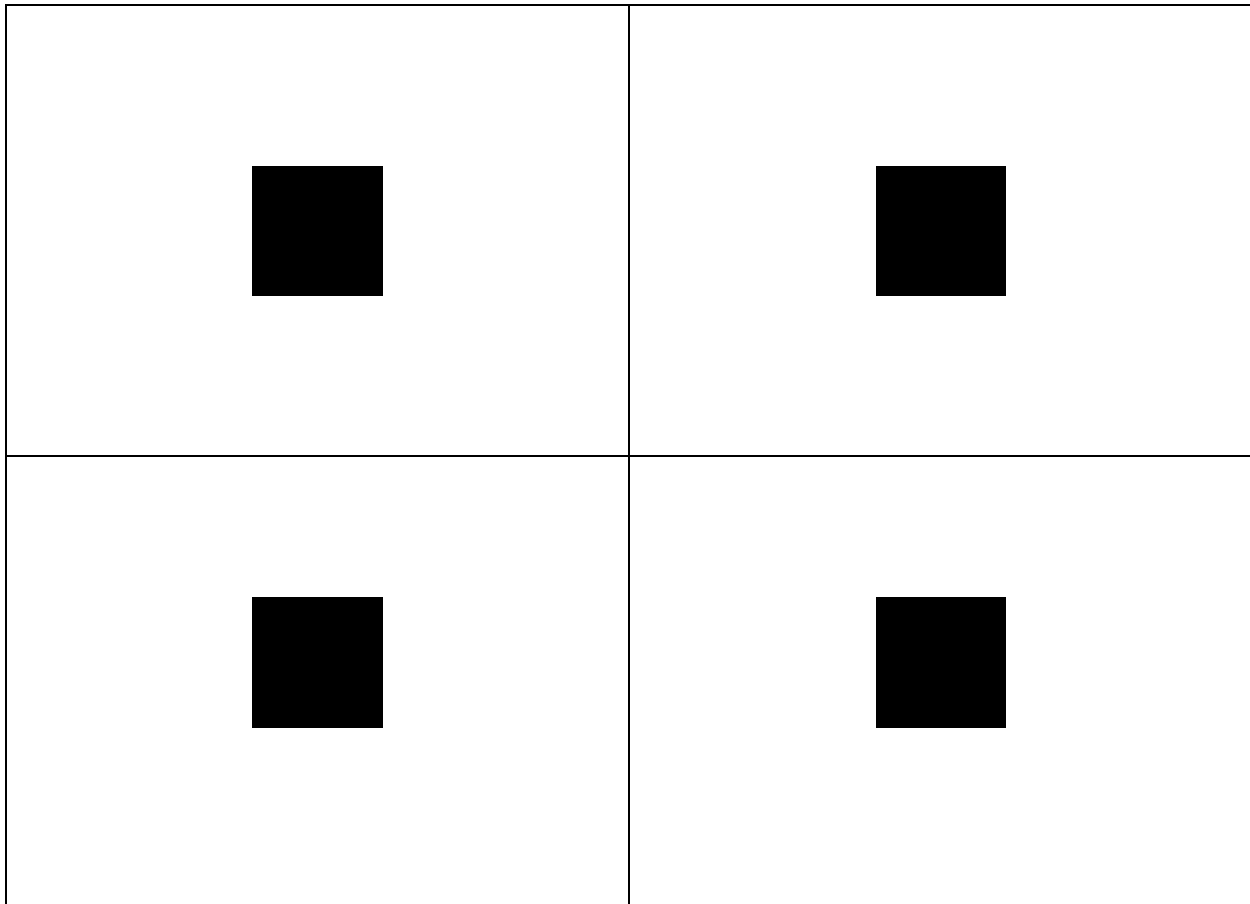




Sampling / Comments

Origin Sample Taken:	
Sample Reference:	
Destination Sample Taken:	No
Sample Reference:	
Sampling Comments	
General Observations	
Export of unsuitable soil to: UK Remediation, Bedhampton Haulier is TJ Transport. 01329 226446.	

Additional Images





REMEDIAL OVERSIGHT & MATERIAL TRACKING (PFIZER, HAVANT)

Project Reference:	UK21.5634	
Title:	Remedial Oversight & Material Tracking (Pfizer, Havant)	
Client:	Havant Property LLP	
Date:	12/15/2021	
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Status:	Issue 1	

Author:	Reviewed:	Authorised:
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Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☒ Soil Excavation ☐ Stockpile	
Soil Grid Reference:	D12
Detailed Grid Reference:	50.8595297, -0.9690875
Stockpile Number:	
Top of Excavation:	
Base of Excavation:	

General Image



Detailed Image





Destination of Moved Soil

New Soil Location: ☐ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	
Detailed Grid Reference:	
Stockpile Number:	

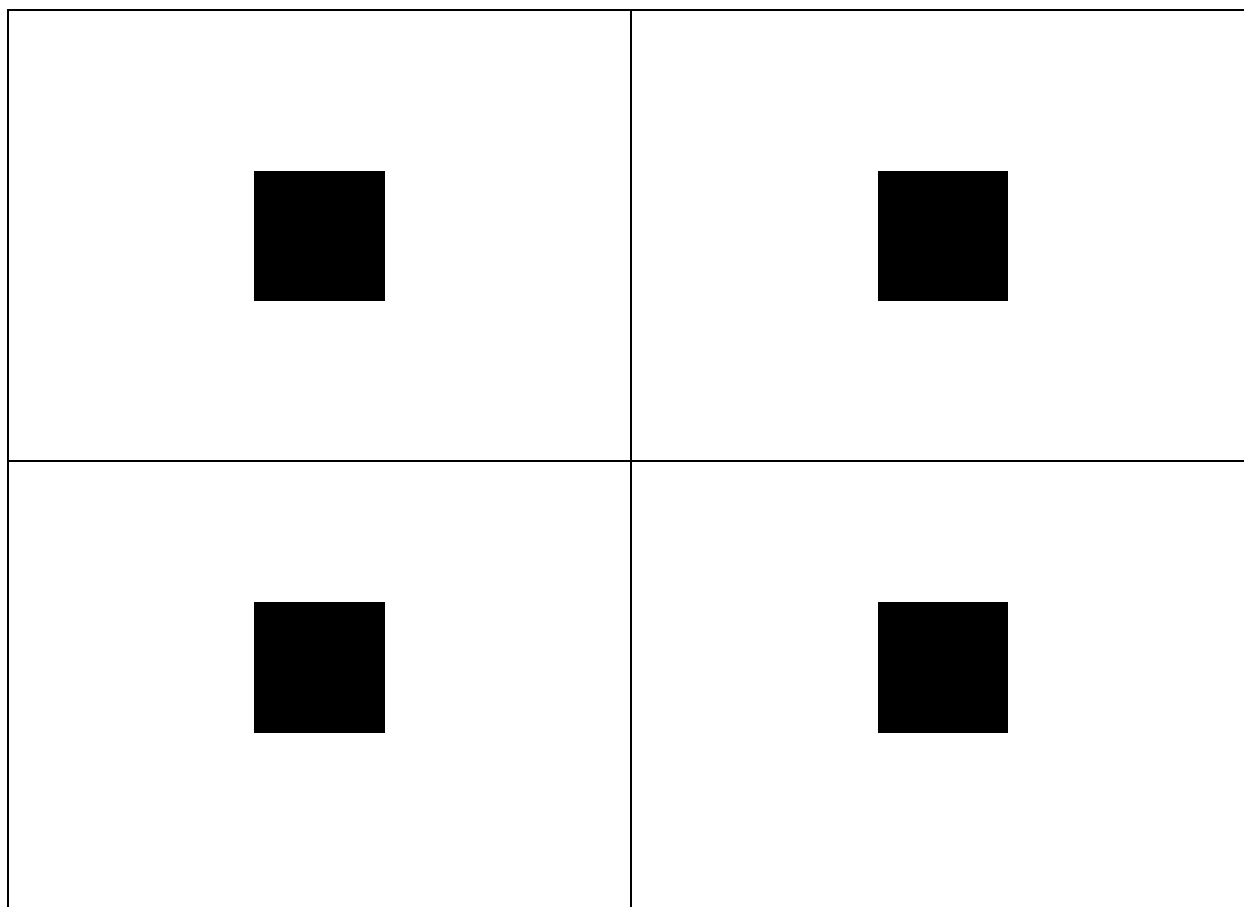
General Image
Detailed Image



Sampling / Comments

Origin Sample Taken:	Yes
Sample Reference:	Or D12 01
Destination Sample Taken:	No
Sample Reference:	
Sampling Comments	
General Observations	

Additional Images





REMEDIAL OVERSIGHT & MATERIAL TRACKING (PFIZER, HAVANT)

Project Reference:	UK21.5634	
Title:	Remedial Oversight & Material Tracking (Pfizer, Havant)	
Client:	Havant Property LLP	
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Status:	Issue 1	

Author:	Reviewed:	Authorised:
		
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Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☒ Soil Excavation ☐ Stockpile	
Soil Grid Reference:	
Detailed Grid Reference:	B10 to C14
Stockpile Number:	
Top of Excavation:	
Base of Excavation:	

General Image
Detailed Image



Destination of Moved Soil

New Soil Location: ☒ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	B9
Detailed Grid Reference:	50.8601784, -0.9698801
Stockpile Number:	

General Image



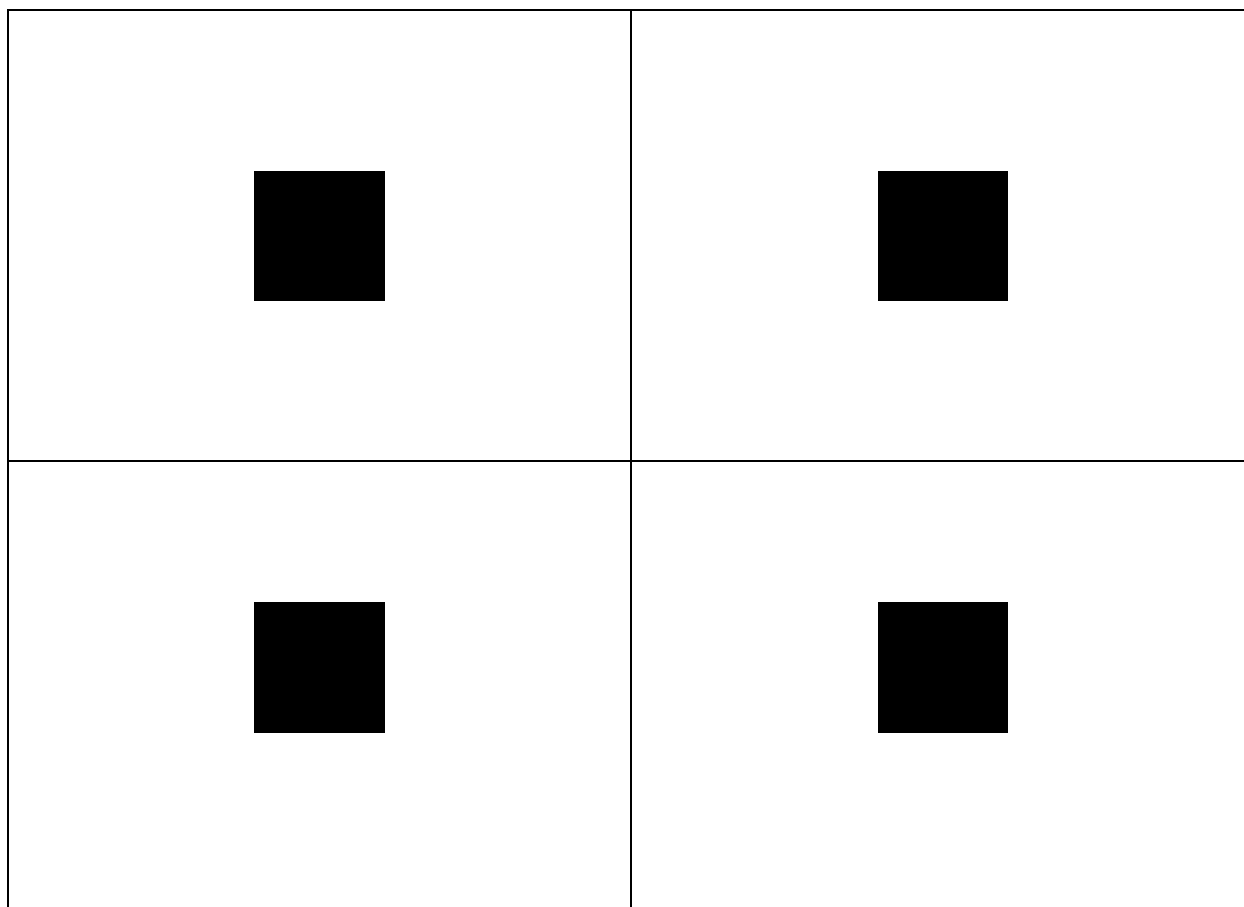
Detailed Image



Sampling / Comments

Origin Sample Taken:	No
Sample Reference:	
Destination Sample Take	Yes
Sample Reference:	Dt B9 01
Sampling Comments	
General Observations	

Additional Images





REMEDIAL OVERSIGHT & MATERIAL TRACKING (PFIZER, HAVANT)

Project Reference:	UK21.5634	
Title:	Remedial Oversight & Material Tracking (Pfizer, Havant)	
Client:	Havant Property LLP	
Date:	12/15/2021	
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Status:	Issue 1	

Author:	Reviewed:	Authorised:
		
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Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☒ Soil Excavation ☐ Stockpile	
Soil Grid Reference:	E7
Detailed Grid Reference:	
Stockpile Number:	
Top of Excavation:	0.0
Base of Excavation:	1.5

General Image
Detailed Image



Destination of Moved Soil

New Soil Location: ☐ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	
Detailed Grid Reference:	
Stockpile Number:	

General Image



Detailed Image

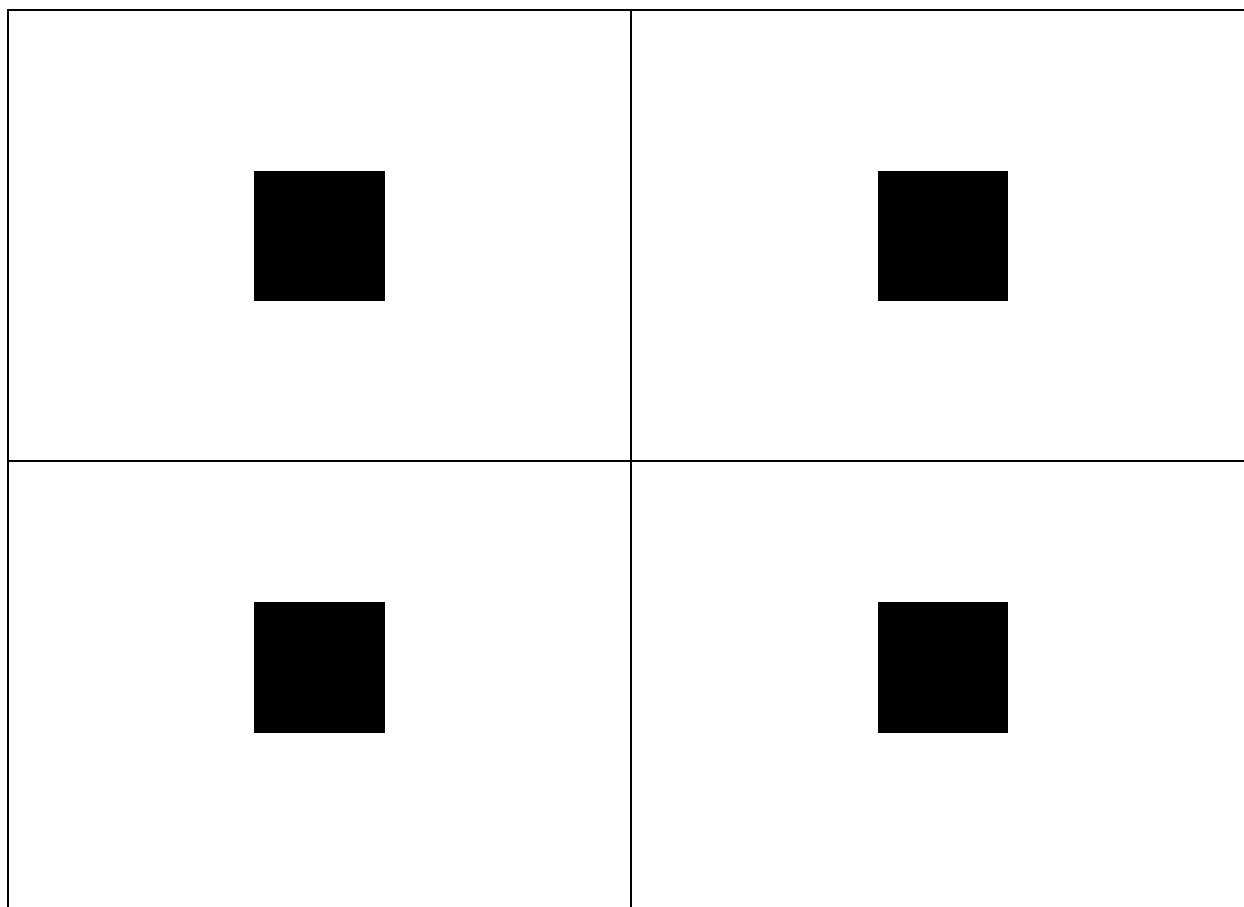




Sampling / Comments

Origin Sample Taken:	Yes
Sample Reference:	Or E7 01
Destination Sample Take	No
Sample Reference:	
Sampling Comments	
General Observations	

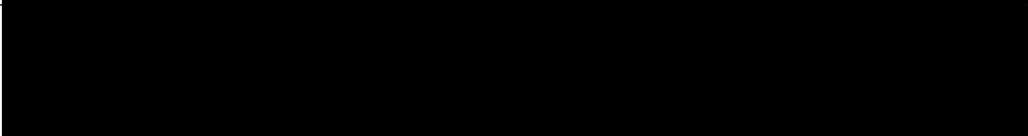
Additional Images





REMEDIAL OVERSIGHT & MATERIAL TRACKING (PFIZER, HAVANT)

Project Reference:	UK21.5634	
Title:	Remedial Oversight & Material Tracking (Pfizer, Havant)	
Client:	Havant Property LLP	
Date:	12/09/2021	
EPS Contact Details:	7B Caxton House Broad Street Cambourne Cambridge CB23 6JN	T: 01954 710666 F: 01954 710677 E: info@epstrategies.co.uk W: www.epstrategies.co.uk
Status:	Issue 1	

Author:	Reviewed:	Authorised:
		
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Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☒ Soil Excavation ☐ Stockpile	
Soil Grid Reference:	B6-11, C6-11
Detailed Grid Reference:	
Stockpile Number:	
Top of Excavation:	
Base of Excavation:	

General Image



Detailed Image





Destination of Moved Soil

New Soil Location: ☒ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	B6
Detailed Grid Reference:	
Stockpile Number:	

General Image



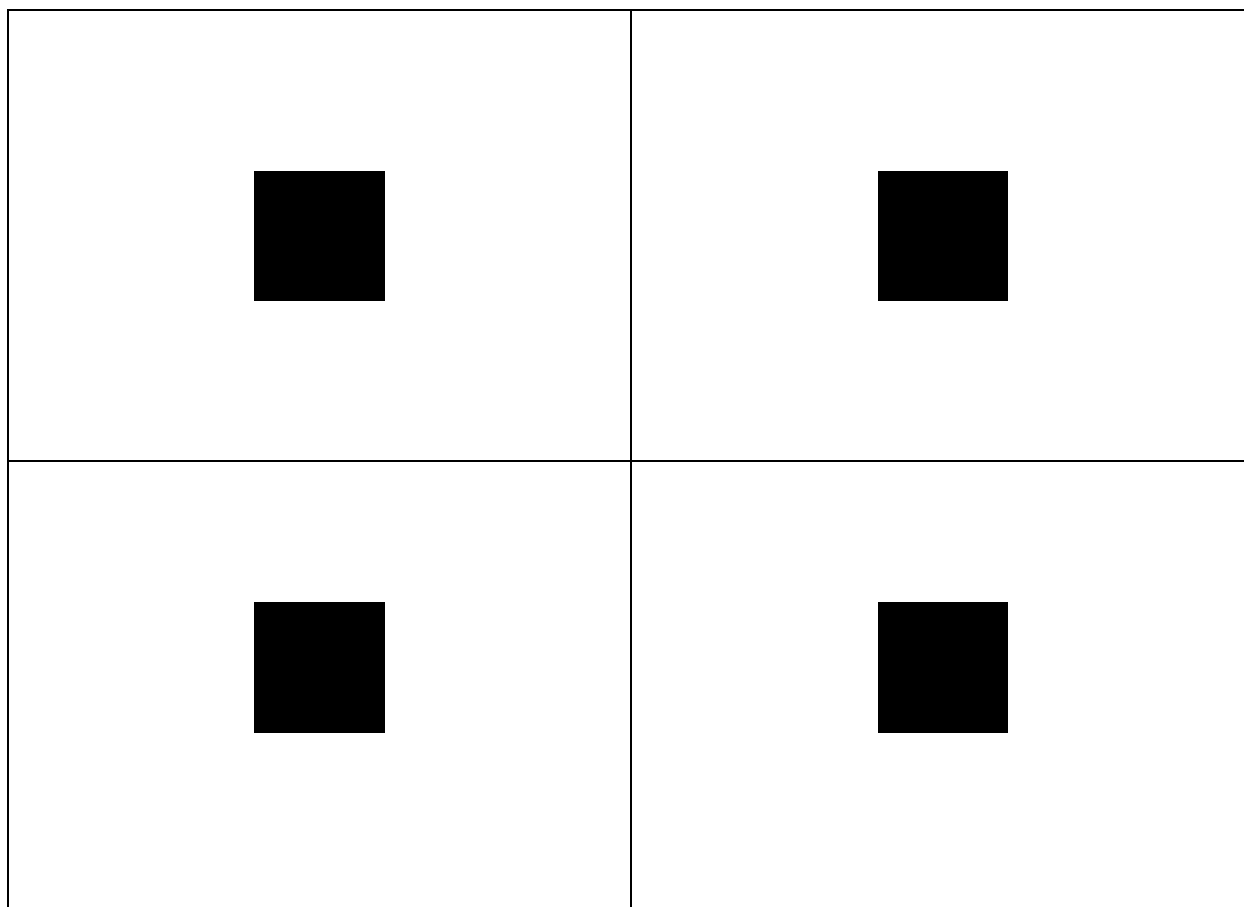
Detailed Image



Sampling / Comments

Origin Sample Taken:	No
Sample Reference:	
Destination Sample Take	Yes
Sample Reference:	VS B6 01
Sampling Comments	
General Observations	

Additional Images





REMEDIAL OVERSIGHT & MATERIAL TRACKING (PFIZER, HAVANT)

Project Reference:	UK21.5634	
Title:	Remedial Oversight & Material Tracking (Pfizer, Havant)	
Client:	Havant Property LLP	
Date:	12/09/2021	
EPS Contact Details:	7B Caxton House Broad Street Cambourne Cambridge CB23 6JN	T: 01954 710666 F: 01954 710677 E: info@epstrategies.co.uk W: www.epstrategies.co.uk
Status:	Issue 1	

Author:	Reviewed:	Authorised:
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Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☒ Soil Excavation ☐ Stockpile	
Soil Grid Reference:	C8-11, B8-11
Detailed Grid Reference:	
Stockpile Number:	
Top of Excavation:	
Base of Excavation:	

General Image



Detailed Image





Destination of Moved Soil

New Soil Location: ☒ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	C8
Detailed Grid Reference:	50.8600535, -0.9702727
Stockpile Number:	

General Image



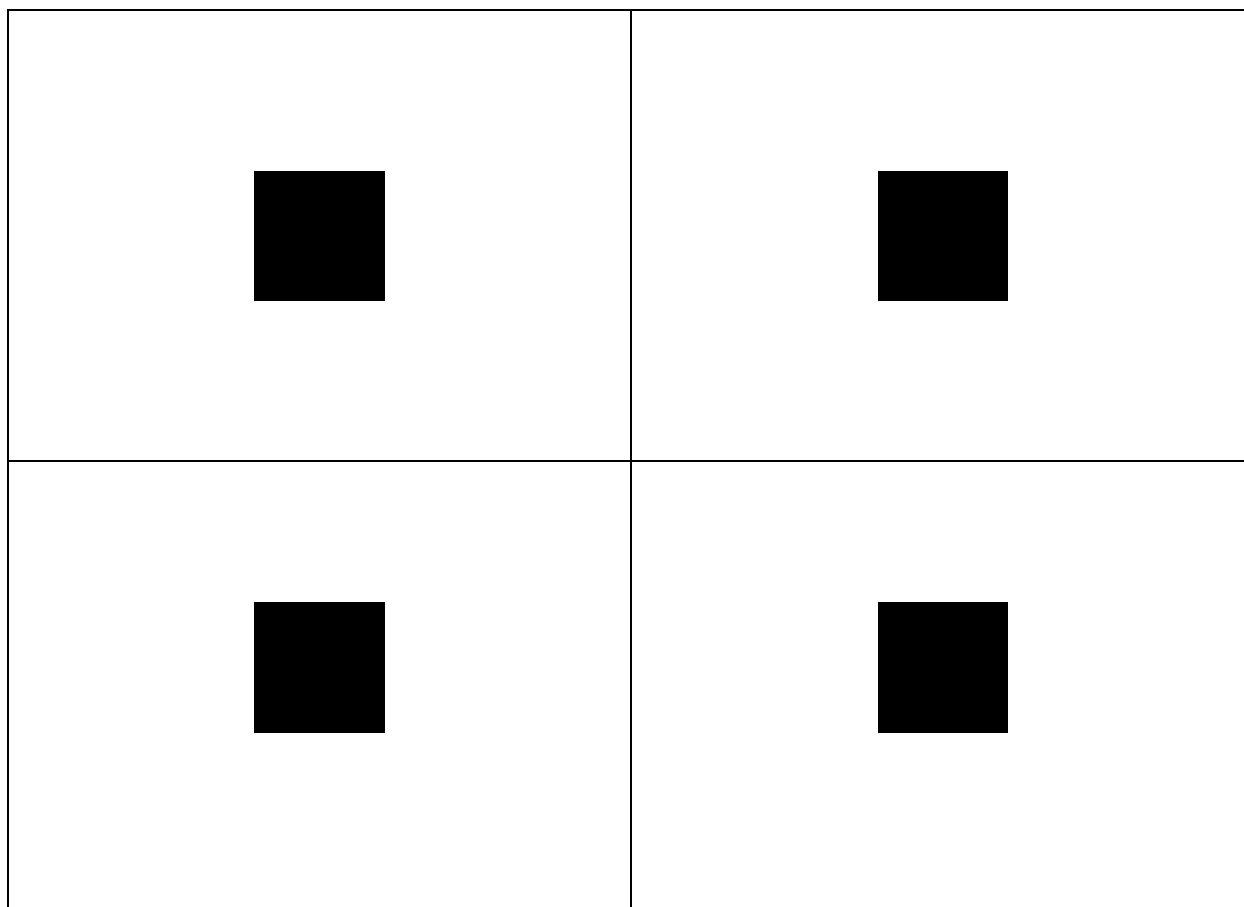
Detailed Image



Sampling / Comments

Origin Sample Taken:	No
Sample Reference:	
Destination Sample Take	Yes
Sample Reference:	VS C8 01
Sampling Comments	
General Observations	

Additional Images





REMEDIAL OVERSIGHT & MATERIAL TRACKING (PFIZER, HAVANT)

Project Reference:	UK21.5634	
Title:	Remedial Oversight & Material Tracking (Pfizer, Havant)	
Client:	Havant Property LLP	
Date:	12/09/2021	
EPS Contact Details:	7B Caxton House Broad Street Cambourne Cambridge CB23 6JN	T: 01954 710666 F: 01954 710677 E: info@epstrategies.co.uk W: www.epstrategies.co.uk
Status:	Issue 1	

Author:	Reviewed:	Authorised:
		
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Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☒ Soil Excavation ☐ Stockpile	
Soil Grid Reference:	C13
Detailed Grid Reference:	50.8595733, -0.9686969
Stockpile Number:	
Top of Excavation:	0.0
Base of Excavation:	2.4

General Image



Detailed Image





Destination of Moved Soil

New Soil Location: ☒ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	C13
Detailed Grid Reference:	
Stockpile Number:	

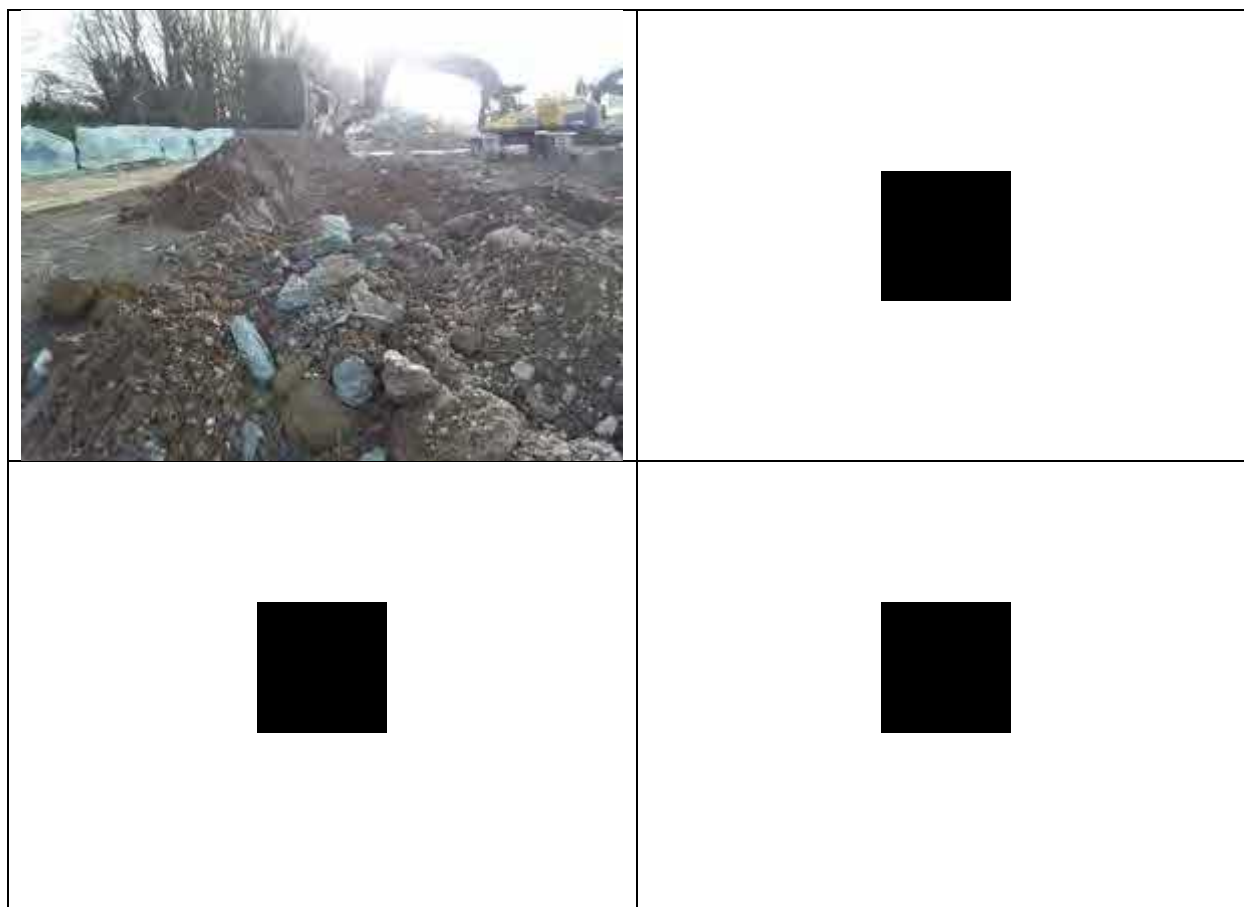
General Image
Detailed Image



Sampling / Comments

Origin Sample Taken:	Yes
Sample Reference:	TP110 C13 2.0
Destination Sample Take	No
Sample Reference:	
Sampling Comments	
Opportune sample of deep excavation for coverage.	
General Observations	

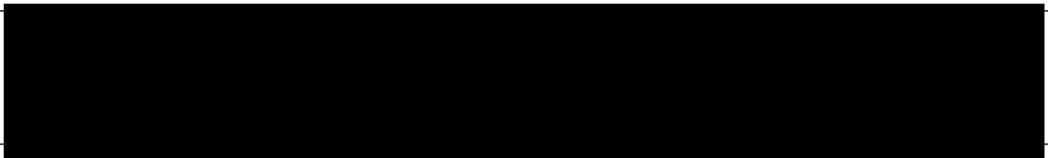
Additional Images





REMEDIAL OVERSIGHT & MATERIAL TRACKING (PFIZER, HAVANT)

Project Reference:	UK21.5634	
Title:	Remedial Oversight & Material Tracking (Pfizer, Havant)	
Client:	Havant Property LLP	
Date:	12/09/2021	
EPS Contact Details:	7B Caxton House Broad Street Cambourne Cambridge CB23 6JN	T: 01954 710666 F: 01954 710677 E: info@epstrategies.co.uk W: www.epstrategies.co.uk
Status:	Issue 1	

Author:	Reviewed:	Authorised:
		
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Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☒ Soil Excavation ☐ Stockpile	
Soil Grid Reference:	D10
Detailed Grid Reference:	50.8597572, -0.9696514
Stockpile Number:	
Top of Excavation:	0.0
Base of Excavation:	2.0

General Image



Detailed Image





Destination of Moved Soil

New Soil Location: ☐ Backfilled into Excavation ☒ Stockpile	
Soil Grid Reference:	K2
Detailed Grid Reference:	
Stockpile Number:	SP01

General Image
Detailed Image



Sampling / Comments

Origin Sample Taken:	Yes
Sample Reference:	TP BH3 SE
Destination Sample Take	No
Sample Reference:	
Sampling Comments	
General Observations	

Additional Images





REMEDIAL OVERSIGHT & MATERIAL TRACKING (PFIZER, HAVANT)

Project Reference:	UK21.5634	
Title:	Remedial Oversight & Material Tracking (Pfizer, Havant)	
Client:	Havant Property LLP	
Date:	12/09/2021	
EPS Contact Details:	7B Caxton House Broad Street Cambourne Cambridge CB23 6JN	T: 01954 710666 F: 01954 710677 E: info@epstrategies.co.uk W: www.epstrategies.co.uk
Status:	Issue 1	

Author:	Reviewed:	Authorised:
		
Paul O'Connor	Marcus Bell	Will Evans
Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☒ Soil Excavation ☐ Stockpile	
Soil Grid Reference:	D10
Detailed Grid Reference:	50.8596410, -0.9696632
Stockpile Number:	
Top of Excavation:	0.0
Base of Excavation:	1.5

General Image



Detailed Image





Destination of Moved Soil

New Soil Location: ☒ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	D10
Detailed Grid Reference:	
Stockpile Number:	

General Image



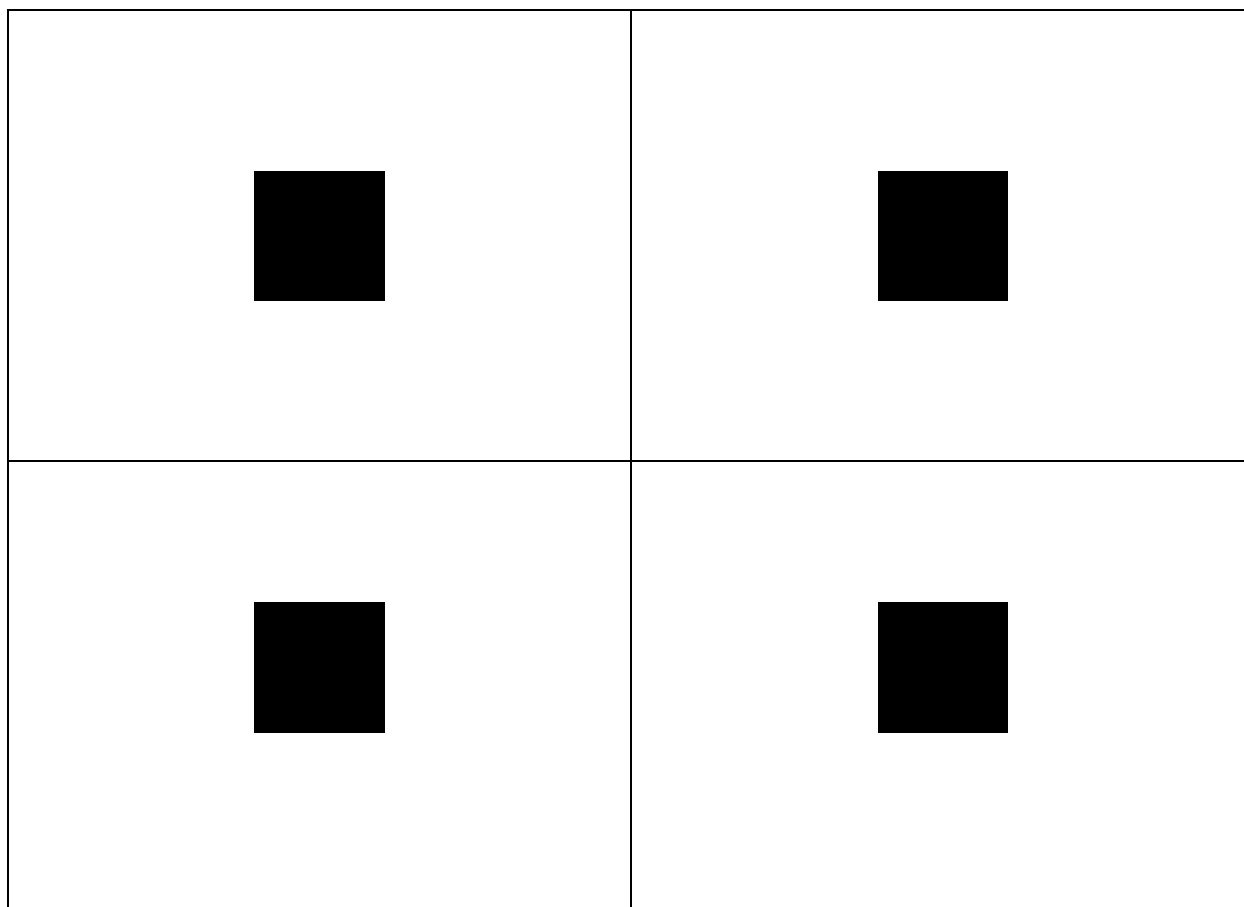
Detailed Image



Sampling / Comments

Origin Sample Taken:	Yes
Sample Reference:	TP109 D10 1.5
Destination Sample Take	No
Sample Reference:	TP109 D10 1.5
Sampling Comments	
From drain near BH3 which may be phthalate pathway.	
General Observations	

Additional Images





REMEDIAL OVERSIGHT & MATERIAL TRACKING (PFIZER, HAVANT)

Project Reference:	UK21.5634	
Title:	Remedial Oversight & Material Tracking (Pfizer, Havant)	
Client:	Havant Property LLP	
Date:	12/09/2021	
EPS Contact Details:	7B Caxton House Broad Street Cambourne Cambridge CB23 6JN	T: 01954 710666 F: 01954 710677 E: info@epstrategies.co.uk W: www.epstrategies.co.uk
Status:	Issue 1	

Author:	Reviewed:	Authorised:
		
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Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☒ Soil Excavation ☐ Stockpile	
Soil Grid Reference:	D10
Detailed Grid Reference:	50.8597551, -0.9696735
Stockpile Number:	
Top of Excavation:	0.0
Base of Excavation:	2.0

General Image
Detailed Image





Destination of Moved Soil

New Soil Location: ☐ Backfilled into Excavation ☒ Stockpile	
Soil Grid Reference:	K2
Detailed Grid Reference:	
Stockpile Number:	SP01

General Image



Detailed Image

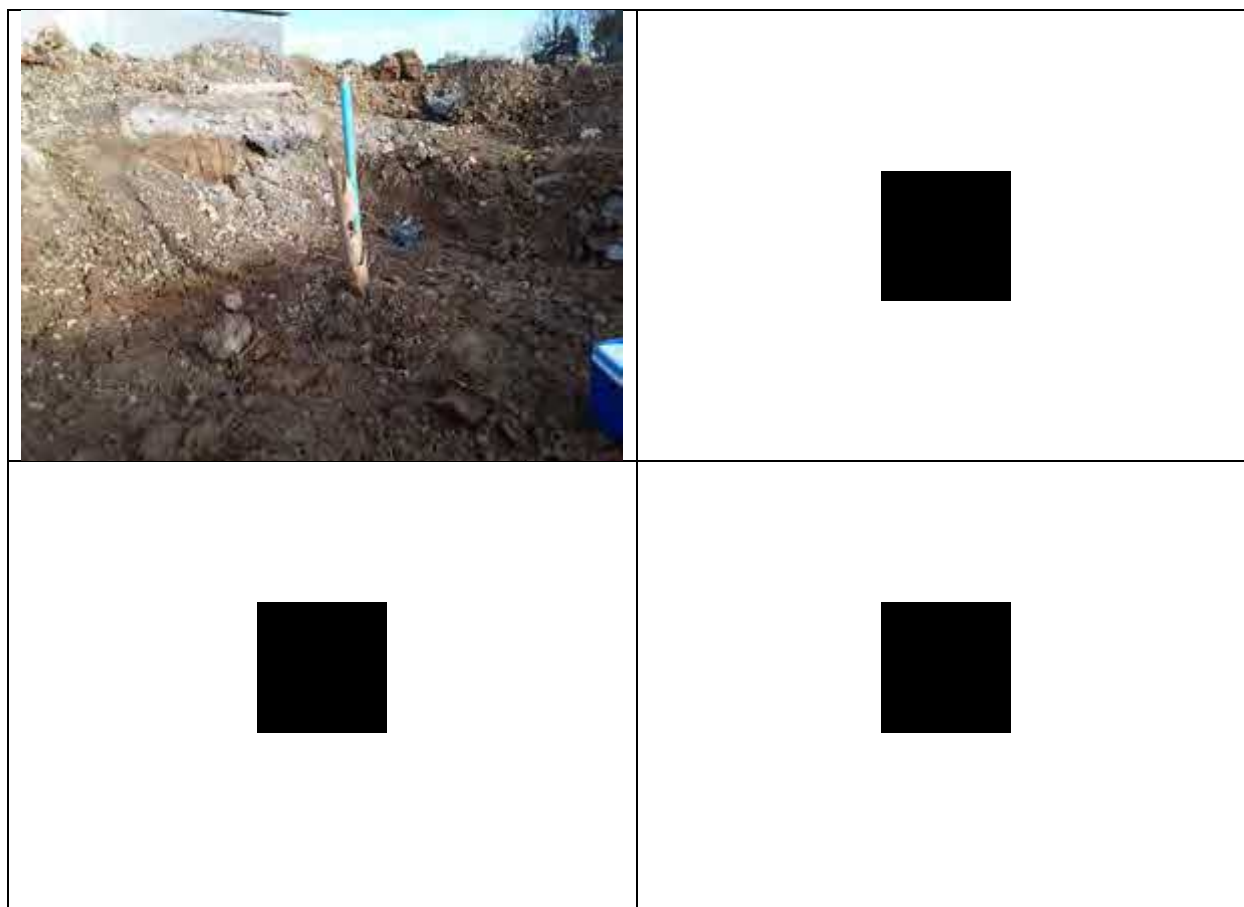




Sampling / Comments

Origin Sample Taken:	Yes
Sample Reference:	TP BH3 S.2
Destination Sample Taken	No
Sample Reference:	
Sampling Comments	
General Observations	

Additional Images





REMEDIAL OVERSIGHT & MATERIAL TRACKING (PFIZER, HAVANT)

Project Reference:	UK21.5634	
Title:	Remedial Oversight & Material Tracking (Pfizer, Havant)	
Client:	Havant Property LLP	
Date:	12/09/2021	
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Status:	Issue 1	

Author:	Reviewed:	Authorised:
		
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Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☒ Soil Excavation ☐ Stockpile	
Soil Grid Reference:	D1
Detailed Grid Reference:	50.8597843, -0.9696853
Stockpile Number:	
Top of Excavation:	0.0
Base of Excavation:	2.0

General Image



Detailed Image





Destination of Moved Soil

New Soil Location: ☐ Backfilled into Excavation ☒ Stockpile	
Soil Grid Reference:	SP101
Detailed Grid Reference:	K2
Stockpile Number:	

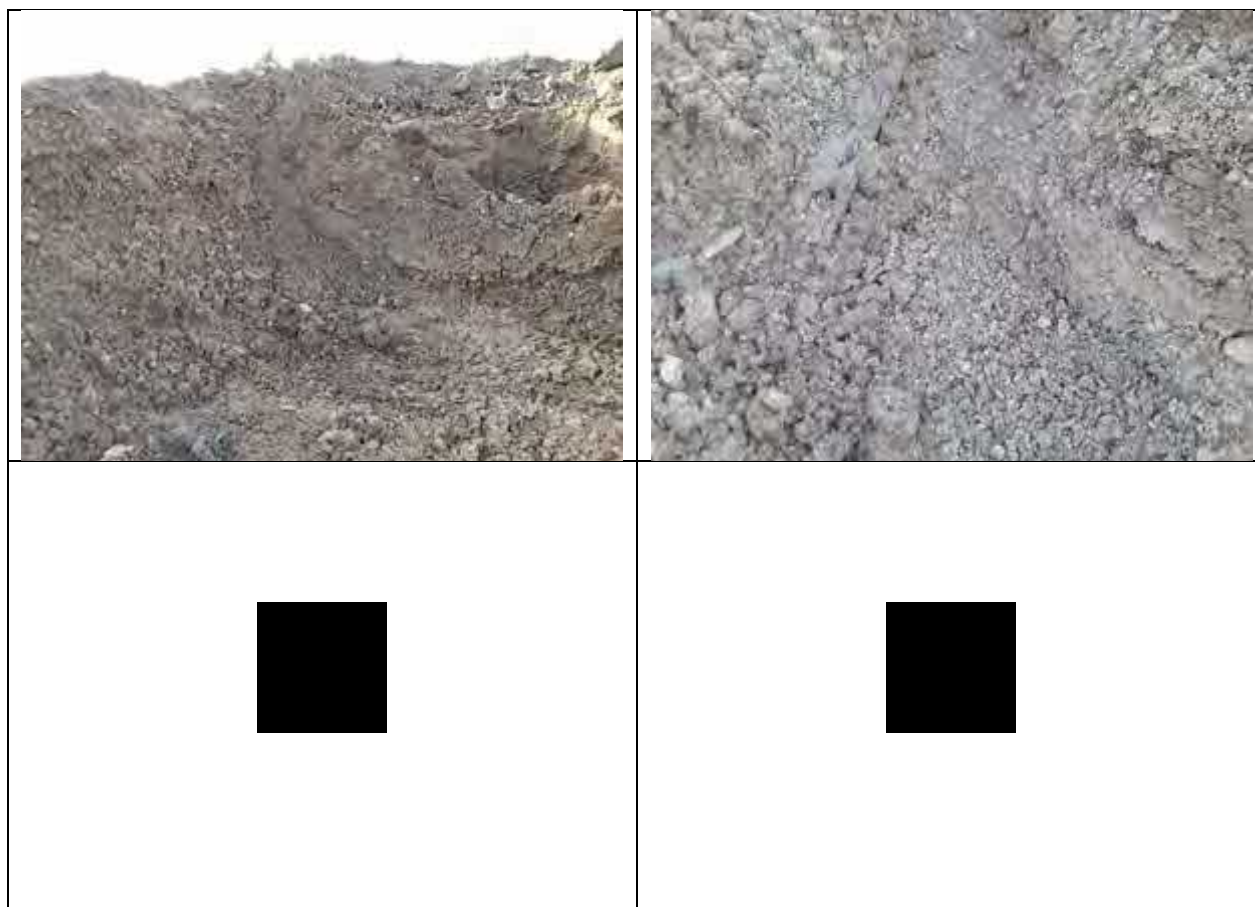
General Image
Detailed Image



Sampling / Comments

Origin Sample Taken:	Yes
Sample Reference:	TP BH3 SW 1.0
Destination Sample Take	No
Sample Reference:	
Sampling Comments	
BH3 Remediation excavation south extension	
General Observations	
No visual evidence of contamination or odour	

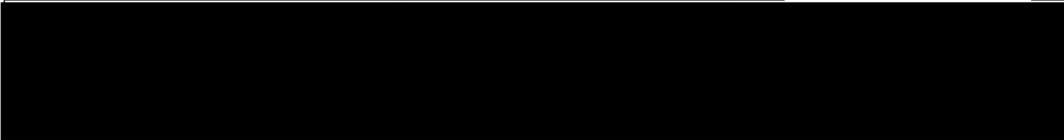
Additional Images





REMEDIAL OVERSIGHT & MATERIAL TRACKING (PFIZER, HAVANT)

Project Reference:	UK21.5634	
Title:	Remedial Oversight & Material Tracking (Pfizer, Havant)	
Client:	Havant Property LLP	
Date:	11/30/2021	
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Status:	Issue 1	

Author:	Reviewed:	Authorised:
		
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Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☒ Soil Excavation ☐ Stockpile	
Soil Grid Reference:	D10 (BH3)
Detailed Grid Reference:	50.8597676, -0.9697081
Stockpile Number:	SP01
Top of Excavation:	0.0
Base of Excavation:	2.0

General Image



Detailed Image





Destination of Moved Soil

New Soil Location: ☐ Backfilled into Excavation ☒ Stockpile	
Soil Grid Reference:	K2
Detailed Grid Reference:	
Stockpile Number:	SP01

General Image



Detailed Image





Sampling / Comments

Origin Sample Taken:	Yes
Sample Reference:	TP BH3 N, S, E, W at 1 and 2m
Destination Sample Take	Yes
Sample Reference:	SP01.1, SP01.2, SP1.03
Sampling Comments	
Faint odour while sampling. Distinct but similar to bleach / ammonia.	
General Observations	
Phthalate excavation centered around BH3. Excavation is 8m x 8m x 2m deep. Need to backfill excavation as soon as possible or extend if required. Samples on 3 day turnaround. BH3 survives excavation work.	

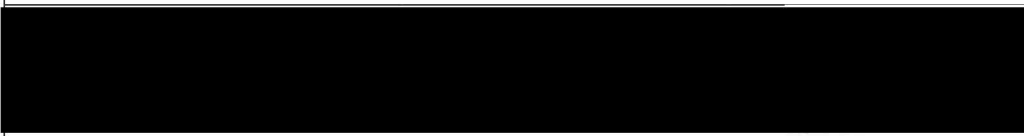
Additional Images





REMEDIAL OVERSIGHT & MATERIAL TRACKING (PFIZER, HAVANT)

Project Reference:	UK21.5634	
Title:	Remedial Oversight & Material Tracking (Pfizer, Havant)	
Client:	Havant Property LLP	
Date:	11/18/2021	
EPS Contact Details:	7B Caxton House Broad Street Cambourne Cambridge CB23 6JN	T: 01954 710666 F: 01954 710677 E: info@epstrategies.co.uk W: www.epstrategies.co.uk
Status:	Issue 1	

Author:	Reviewed:	Authorised:
		
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Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☒ Soil Excavation ☐ Stockpile	
Soil Grid Reference:	C3
Detailed Grid Reference:	50.8605174, -0.9717549
Stockpile Number:	
Top of Excavation:	1.0
Base of Excavation:	2.0

General Image



Detailed Image





Destination of Moved Soil

New Soil Location: ☒ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	C3
Detailed Grid Reference:	
Stockpile Number:	

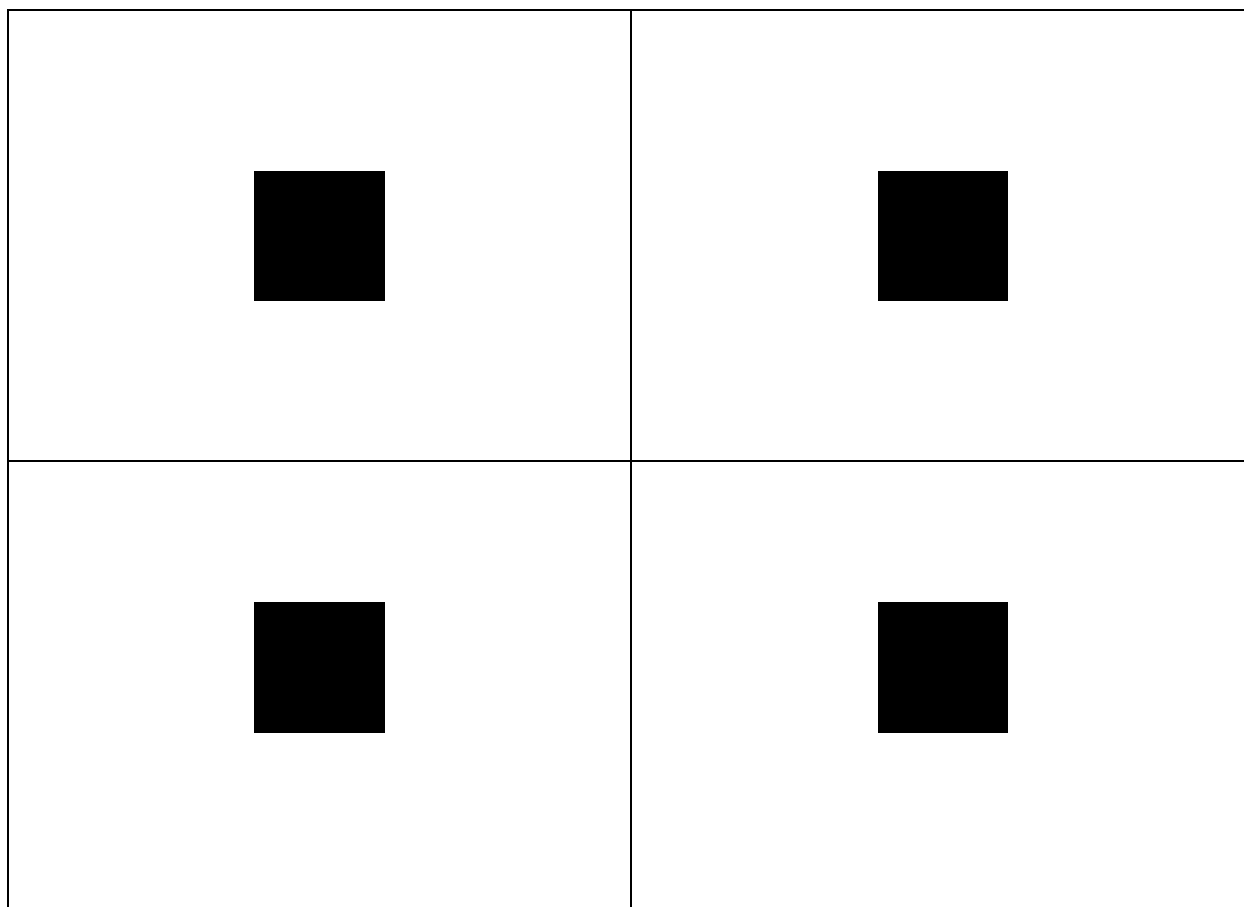
General Image
Detailed Image



Sampling / Comments

Origin Sample Taken:	Yes
Sample Reference:	TP108 C3 2.0
Destination Sample Take	No
Sample Reference:	
Sampling Comments	
Drainage sample (beneath pipe).	
General Observations	

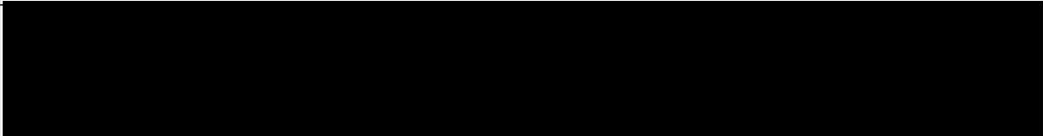
Additional Images





REMEDIAL OVERSIGHT & MATERIAL TRACKING (PFIZER, HAVANT)

Project Reference:	UK21.5634	
Title:	Remedial Oversight & Material Tracking (Pfizer, Havant)	
Client:	Havant Property LLP	
Date:	11/18/2021	
EPS Contact Details:	7B Caxton House Broad Street Cambourne Cambridge CB23 6JN	T: 01954 710666 F: 01954 710677 E: info@epstrategies.co.uk W: www.epstrategies.co.uk
Status:	Issue 1	

Author:	Reviewed:	Authorised:
		
Paul O'Connor	Marcus Bell	Will Evans
Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☒ Soil Excavation ☐ Stockpile	
Soil Grid Reference:	C7
Detailed Grid Reference:	AP
Stockpile Number:	
Top of Excavation:	1.0
Base of Excavation:	2.0

General Image



Detailed Image





Destination of Moved Soil

New Soil Location: ☒ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	C7
Detailed Grid Reference:	
Stockpile Number:	

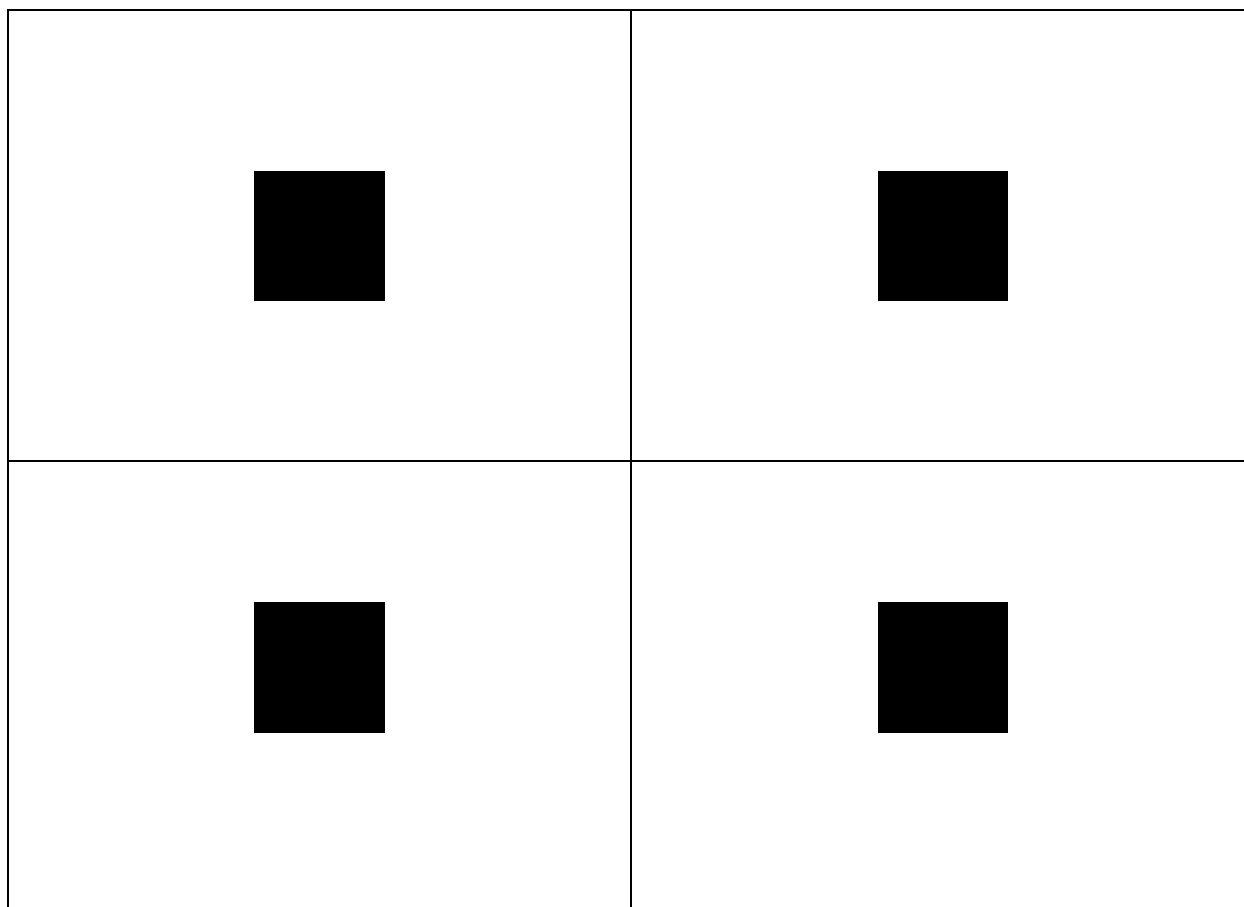
General Image
Detailed Image



Sampling / Comments

Origin Sample Taken:	Yes
Sample Reference:	TP106 C7 2.0
Destination Sample Take	No
Sample Reference:	
Sampling Comments	
AOPC1	
General Observations	

Additional Images





REMEDIAL OVERSIGHT & MATERIAL TRACKING (PFIZER, HAVANT)

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Author:	Reviewed:	Authorised:
		
Paul O'Connor	Marcus Bell	Will Evans
Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☒ Soil Excavation ☐ Stockpile	
Soil Grid Reference:	C3
Detailed Grid Reference:	50.8605174, -0.9717549
Stockpile Number:	
Top of Excavation:	0.0
Base of Excavation:	1.0

General Image



Detailed Image





Destination of Moved Soil

New Soil Location: ☒ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	C3
Detailed Grid Reference:	AP
Stockpile Number:	

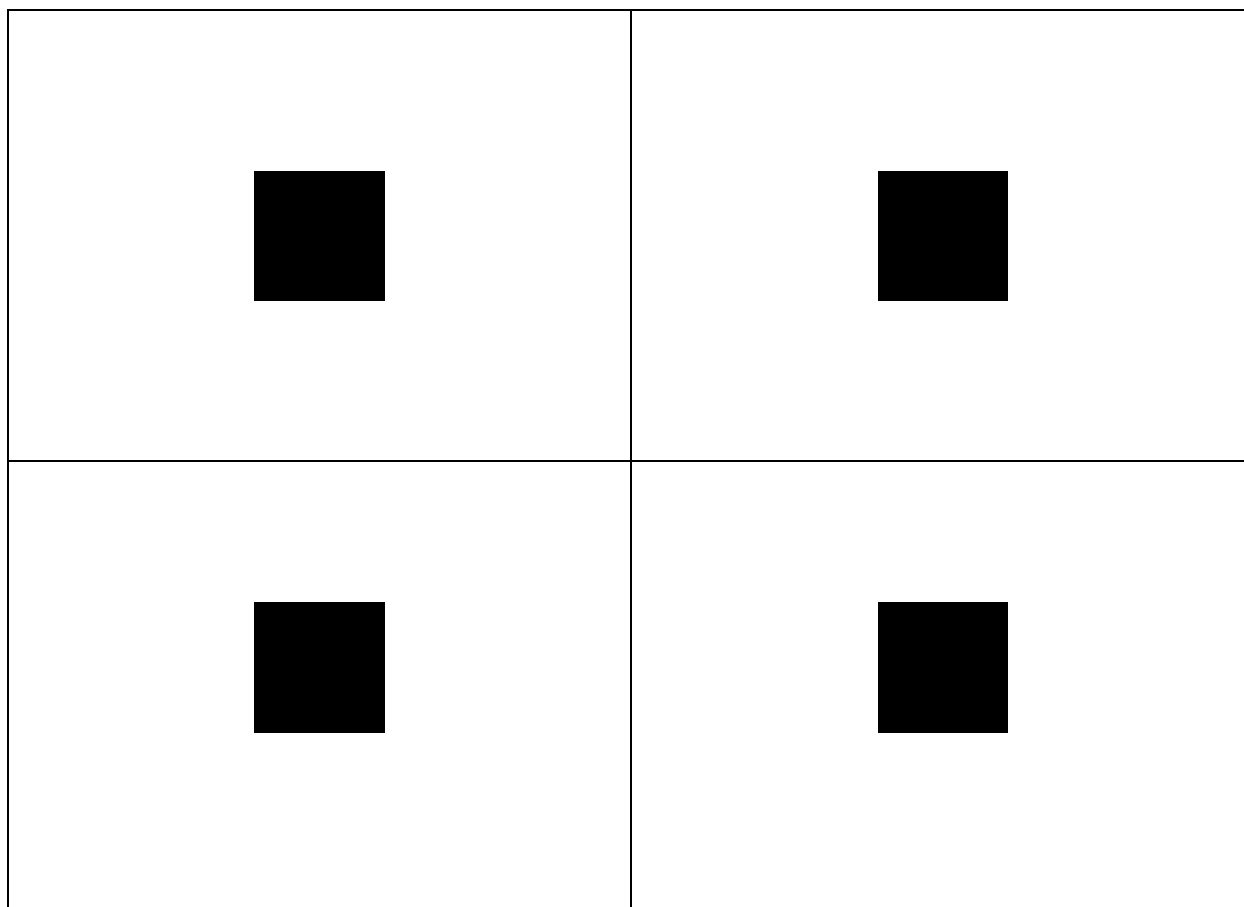
General Image
Detailed Image



Sampling / Comments

Origin Sample Taken:	Yes
Sample Reference:	TP108 C3 1.0
Destination Sample Take	No
Sample Reference:	
Sampling Comments	
Drainage sample	
General Observations	

Additional Images





REMEDIAL OVERSIGHT & MATERIAL TRACKING (PFIZER, HAVANT)

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Author:	Reviewed:	Authorised:
		
Paul O'Connor	Marcus Bell	Will Evans
Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☒ Soil Excavation ☐ Stockpile	
Soil Grid Reference:	B4
Detailed Grid Reference:	AP
Stockpile Number:	
Top of Excavation:	1.0
Base of Excavation:	2.0

General Image



Detailed Image





Destination of Moved Soil

New Soil Location: ☒ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	
Detailed Grid Reference:	
Stockpile Number:	

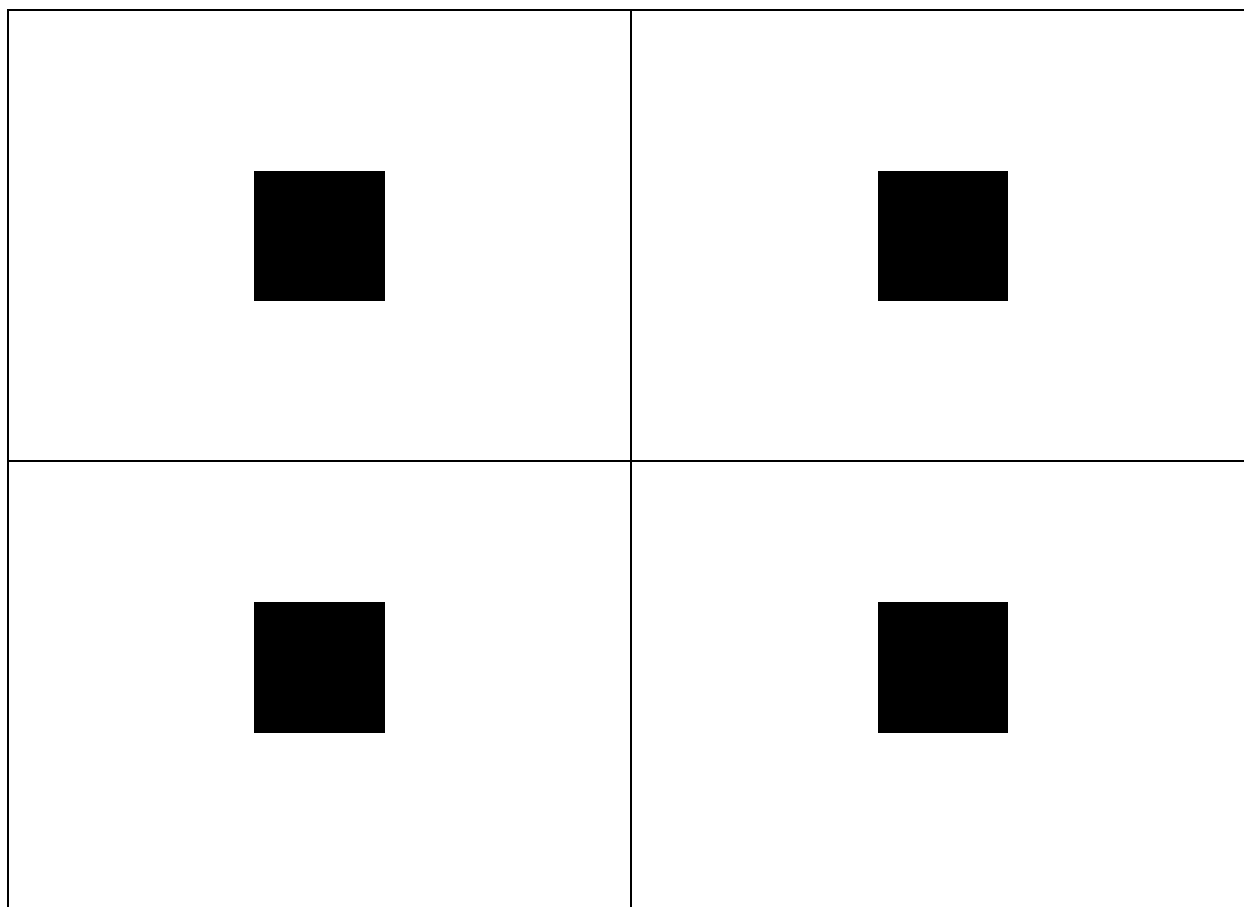
General Image
Detailed Image



Sampling / Comments

Origin Sample Taken:	Yes
Sample Reference:	TP107 B4 2.0
Destination Sample Take	No
Sample Reference:	
Sampling Comments	
AOPC1	
General Observations	

Additional Images





REMEDIAL OVERSIGHT & MATERIAL TRACKING (PFIZER, HAVANT)

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Status:	Issue 1	

Author:	Reviewed:	Authorised:
		
Paul O'Connor	Marcus Bell	Will Evans
Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☒ Soil Excavation ☐ Stockpile	
Soil Grid Reference:	B4
Detailed Grid Reference:	50.8605798, -0.9710401
Stockpile Number:	
Top of Excavation:	0.0
Base of Excavation:	1.0

General Image



Detailed Image





Destination of Moved Soil

New Soil Location: ☒ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	B4
Detailed Grid Reference:	
Stockpile Number:	

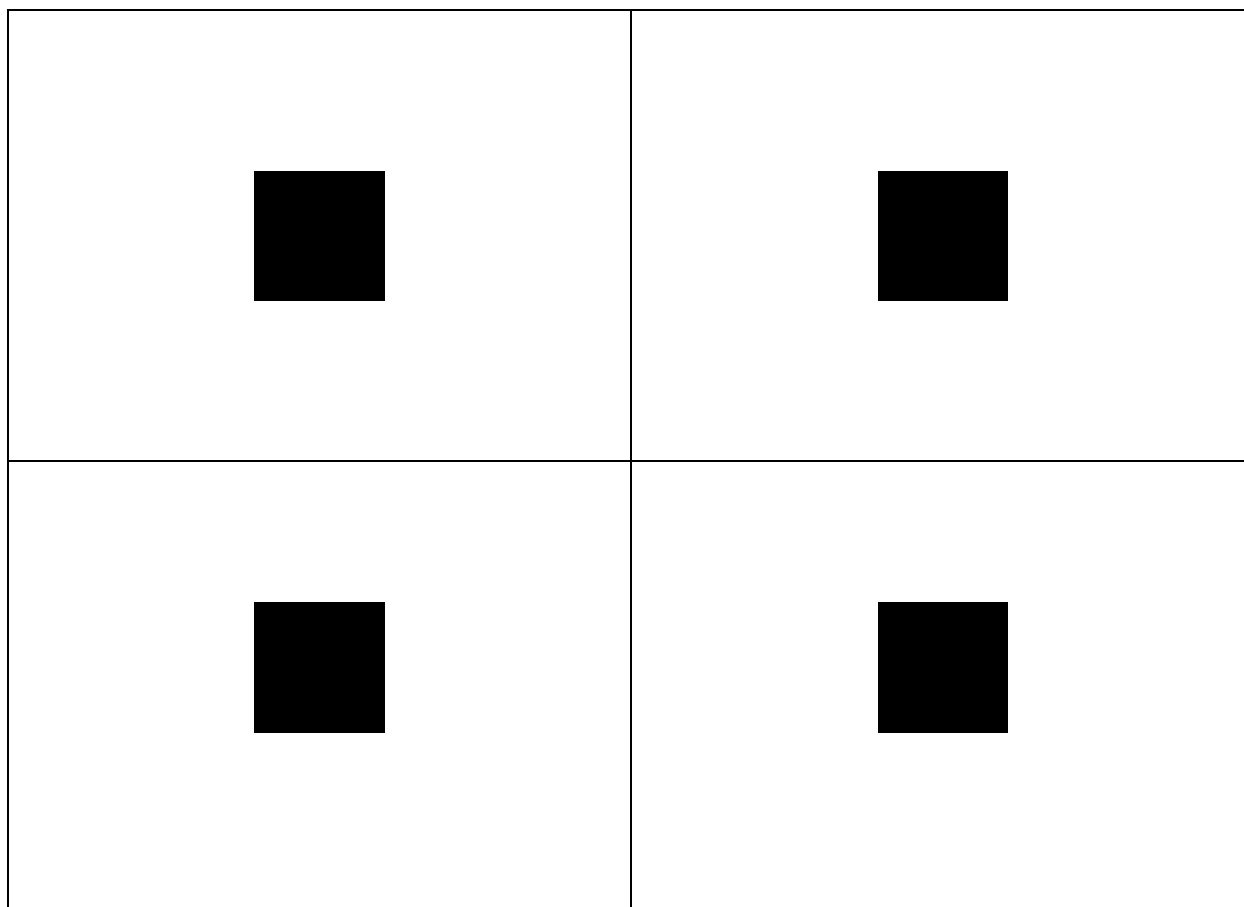
General Image
Detailed Image



Sampling / Comments

Origin Sample Taken:	Yes
Sample Reference:	TP107 B4 1.0
Destination Sample Taken:	No
Sample Reference:	
Sampling Comments	
AOPC1	
General Observations	

Additional Images





REMEDIAL OVERSIGHT & MATERIAL TRACKING (PFIZER, HAVANT)

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Author:	Reviewed:	Authorised:
Paul O'Connor	Marcus Bell	Will Evans
Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☒ Soil Excavation ☐ Stockpile	
Soil Grid Reference:	B8
Detailed Grid Reference:	AP
Stockpile Number:	
Top of Excavation:	1.0
Base of Excavation:	1.8

General Image



Detailed Image





Destination of Moved Soil

New Soil Location: ☒ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	B8
Detailed Grid Reference:	
Stockpile Number:	

General Image
Detailed Image

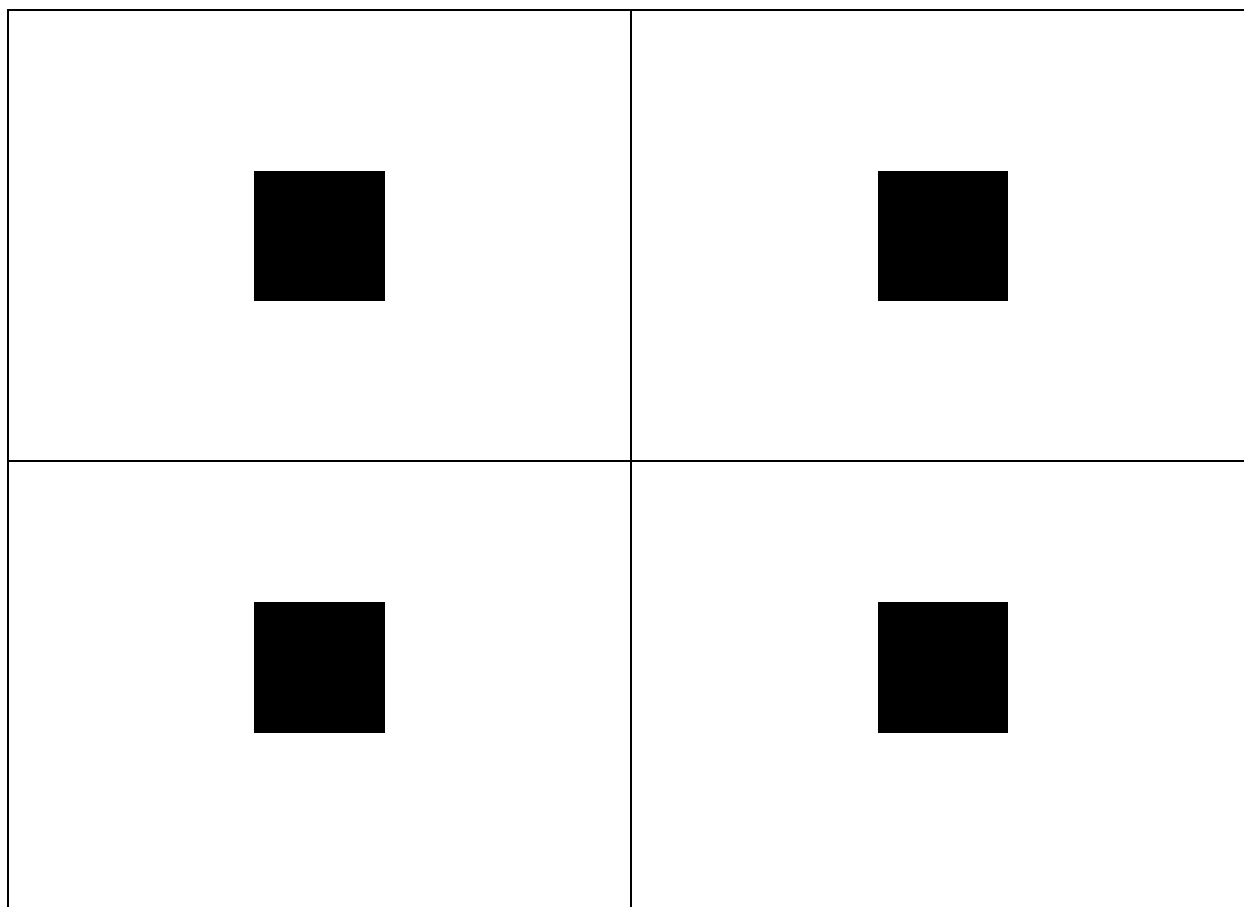




Sampling / Comments

Origin Sample Taken:	Yes
Sample Reference:	TP105 B8 1.8
Destination Sample Take	No
Sample Reference:	
Sampling Comments	
AOPC1	
General Observations	

Additional Images





REMEDIAL OVERSIGHT & MATERIAL TRACKING (PFIZER, HAVANT)

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Status:	Issue 1	

Author:	Reviewed:	Authorised:
A large black rectangular box redacting the names and signatures of the individuals in the Author, Reviewed, and Authorised columns.		
Paul O'Connor	Marcus Bell	Will Evans
Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☒ Soil Excavation ☐ Stockpile	
Soil Grid Reference:	B8
Detailed Grid Reference:	50.8602562, -0.9700128
Stockpile Number:	
Top of Excavation:	1.0
Base of Excavation:	2.0

General Image



Detailed Image





Destination of Moved Soil

New Soil Location: ☒ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	B8
Detailed Grid Reference:	
Stockpile Number:	

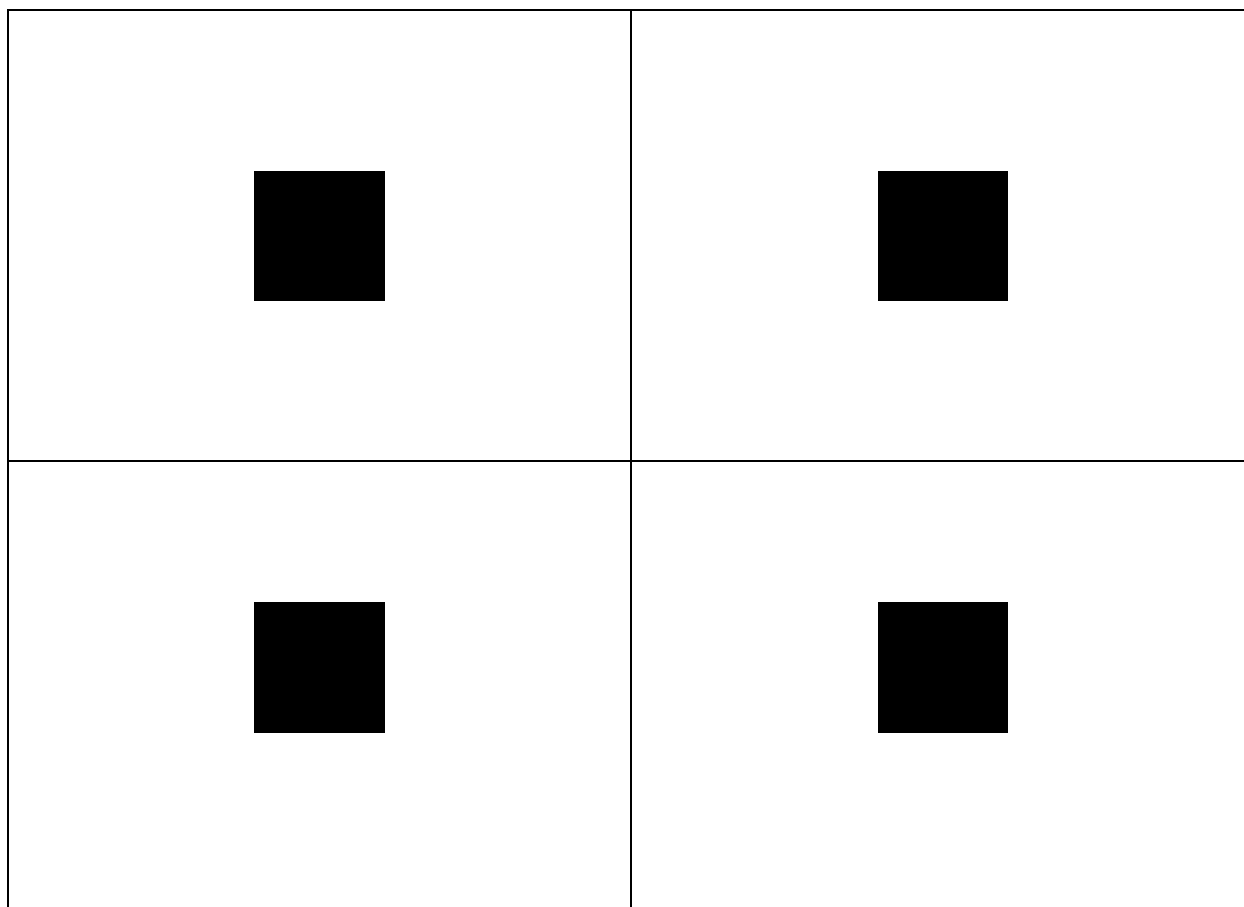
General Image
Detailed Image



Sampling / Comments

Origin Sample Taken:	Yes
Sample Reference:	TP105 B8 1.0
Destination Sample Taken:	No
Sample Reference:	
Sampling Comments	
AOPC1	
General Observations	

Additional Images





REMEDIAL OVERSIGHT & MATERIAL TRACKING (PFIZER, HAVANT)

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Status:	Issue 1	

Author:	Reviewed:	Authorised:
		
Paul O'Connor	Marcus Bell	Will Evans
Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☒ Soil Excavation ☐ Stockpile	
Soil Grid Reference:	C7
Detailed Grid Reference:	
Stockpile Number:	
Top of Excavation:	0.0
Base of Excavation:	1.0

General Image



Detailed Image





Destination of Moved Soil

New Soil Location: ☒ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	C7
Detailed Grid Reference:	
Stockpile Number:	

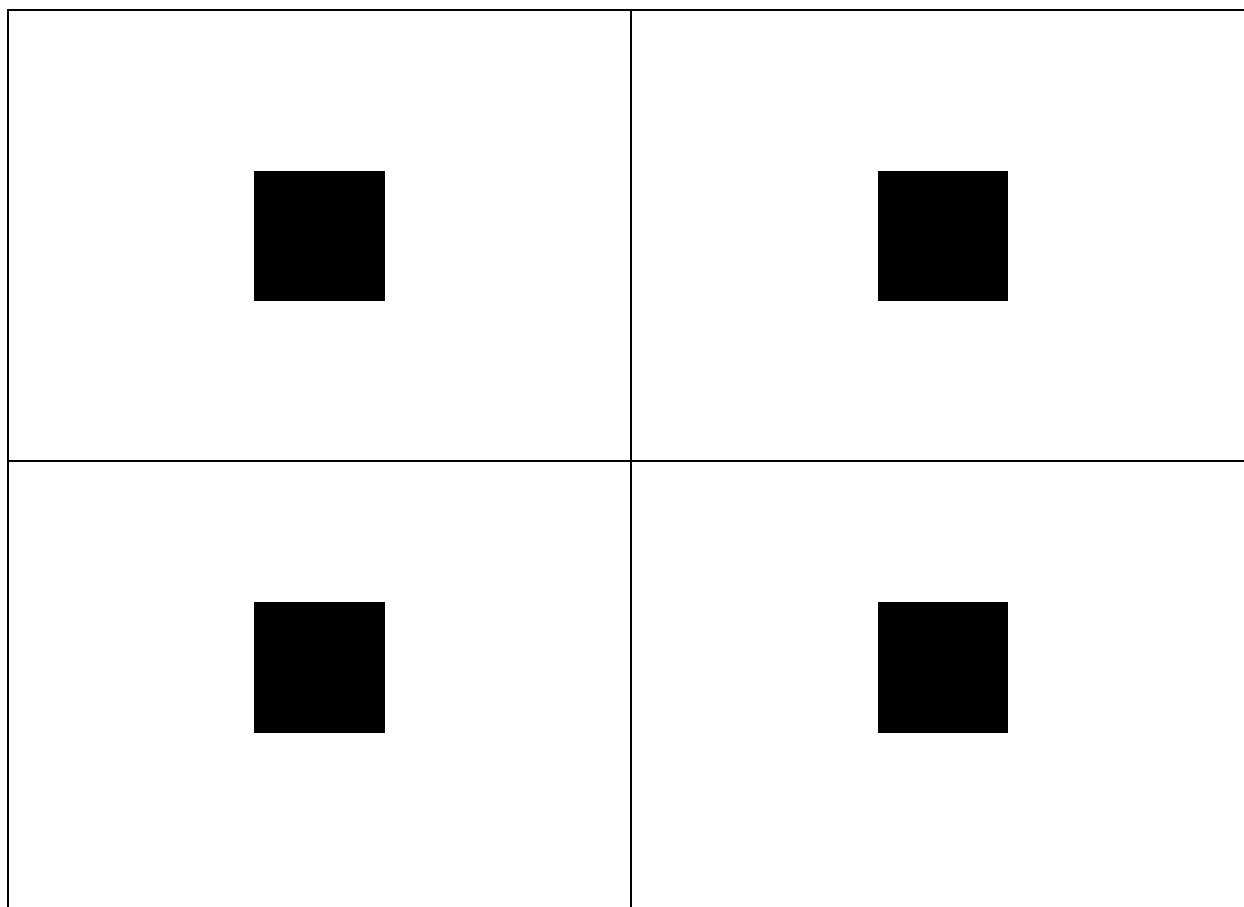
General Image
Detailed Image



Sampling / Comments

Origin Sample Taken:	Yes
Sample Reference:	TP106 C7 1.0
Destination Sample Take	No
Sample Reference:	
Sampling Comments	
AOPC1	
General Observations	

Additional Images





REMEDIAL OVERSIGHT & MATERIAL TRACKING (PFIZER, HAVANT)

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Status:	Issue 1	

Author:	Reviewed:	Authorised:
		
Paul O'Connor	Marcus Bell	Will Evans
Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☐ Soil Excavation ☒ Stockpile	
Soil Grid Reference:	C3
Detailed Grid Reference:	50.860744,-0.971930
Stockpile Number:	Beach
Top of Excavation:	
Base of Excavation:	

General Image



Detailed Image





Destination of Moved Soil

New Soil Location: ☐ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	
Detailed Grid Reference:	
Stockpile Number:	

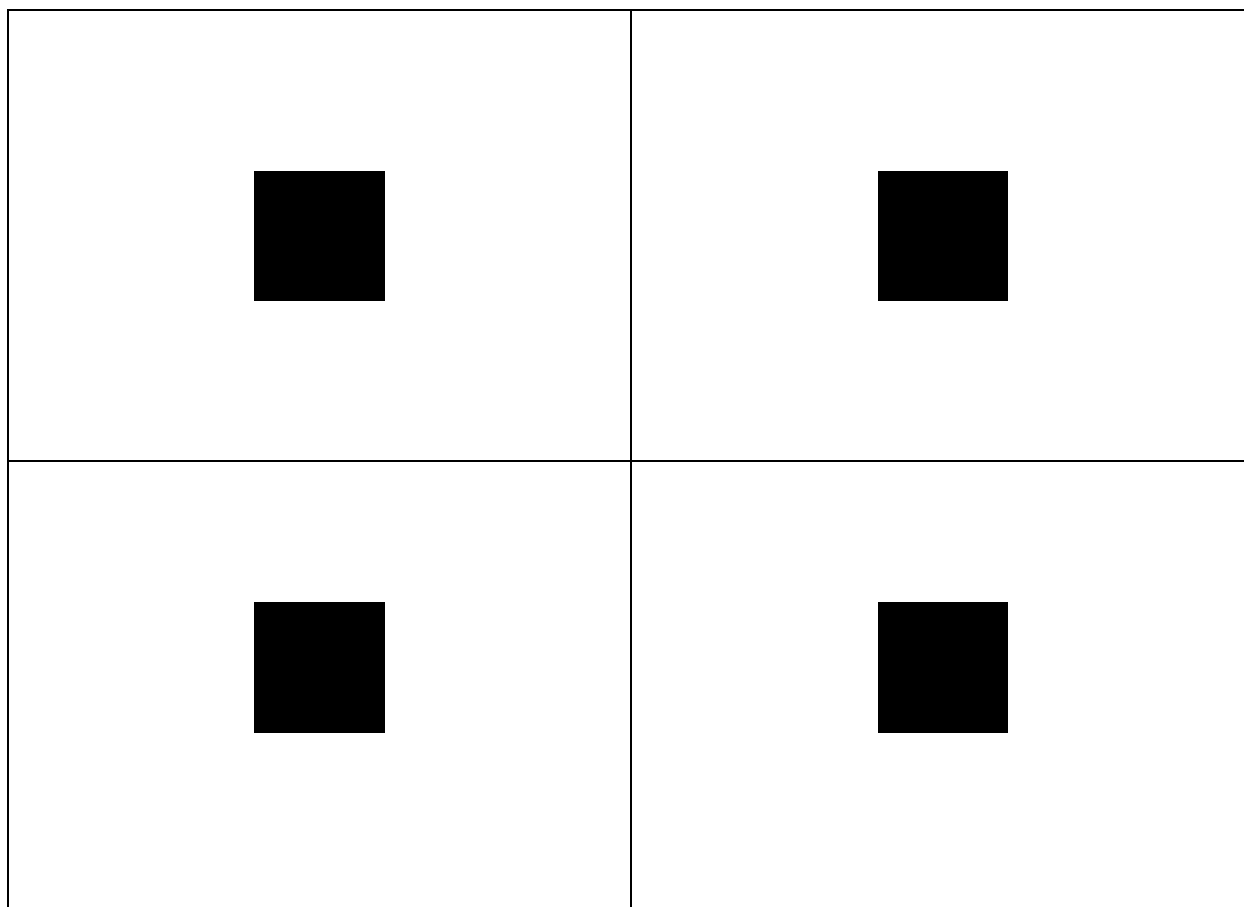
General Image
Detailed Image



Sampling / Comments

Origin Sample Taken:	Yes
Sample Reference:	SP Beach 1
Destination Sample Take	No
Sample Reference:	
Sampling Comments	
General Observations	

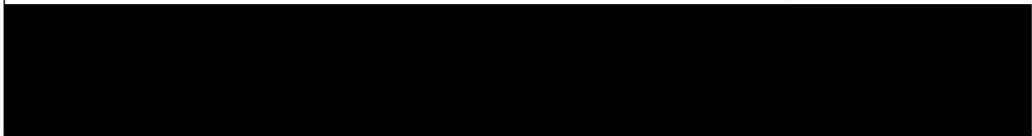
Additional Images





REMEDIAL OVERSIGHT & MATERIAL TRACKING (PFIZER, HAVANT)

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Status:	Issue 1	

Author:	Reviewed:	Authorised:
		
Paul O'Connor	Marcus Bell	Will Evans
Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☒ Soil Excavation ☐ Stockpile	
Soil Grid Reference:	C3 (S)
Detailed Grid Reference:	50.860677,-0.972038
Stockpile Number:	Beach
Top of Excavation:	
Base of Excavation:	

General Image



Detailed Image





Destination of Moved Soil

New Soil Location: ☐ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	
Detailed Grid Reference:	
Stockpile Number:	

General Image
Detailed Image

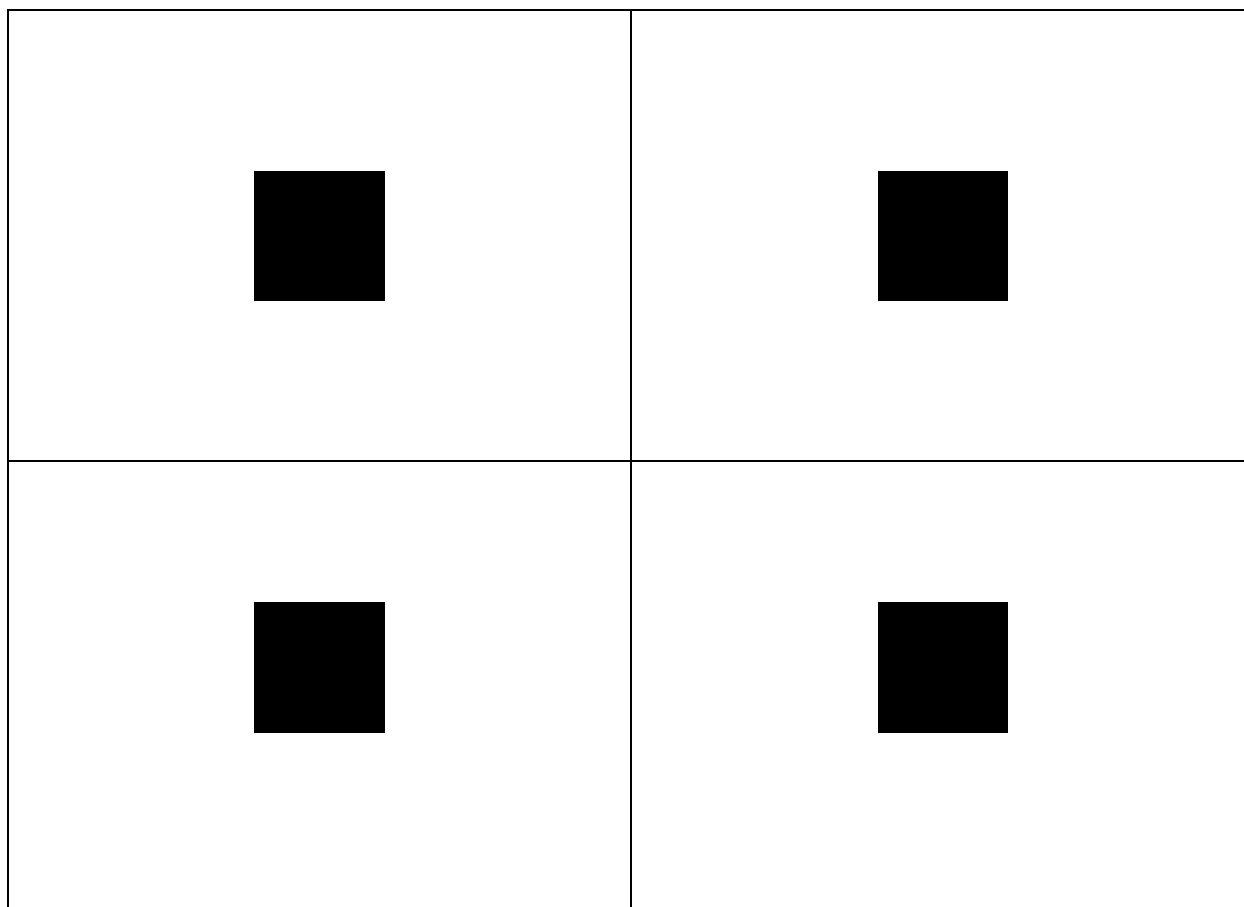




Sampling / Comments

Origin Sample Taken:	Yes
Sample Reference:	SP Beach 2
Destination Sample Take	
Sample Reference:	
Sampling Comments	
General Observations	

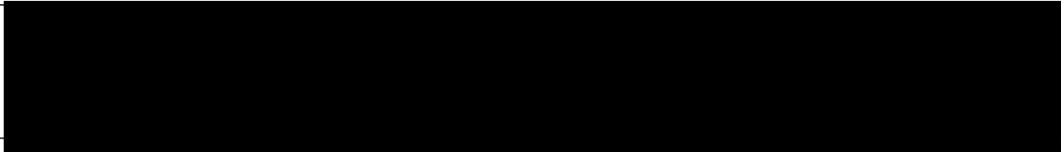
Additional Images





REMEDIAL OVERSIGHT & MATERIAL TRACKING (PFIZER, HAVANT)

Project Reference:	UK21.5634	
Title:	Remedial Oversight & Material Tracking (Pfizer, Havant)	
Client:	Havant Property LLP	
Date:	11/08/2021	
EPS Contact Details:	7B Caxton House Broad Street Cambourne Cambridge CB23 6JN	T: 01954 710666 F: 01954 710677 E: info@epstrategies.co.uk W: www.epstrategies.co.uk
Status:	Issue 1	

Author:	Reviewed:	Authorised:
		
Paul O'Connor	Marcus Bell	Will Evans
Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☒ Soil Excavation ☐ Stockpile	
Soil Grid Reference:	D3
Detailed Grid Reference:	50.860483,-0.972046
Stockpile Number:	
Top of Excavation:	
Base of Excavation:	

General Image



Detailed Image





Destination of Moved Soil

New Soil Location: ☐ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	
Detailed Grid Reference:	
Stockpile Number:	

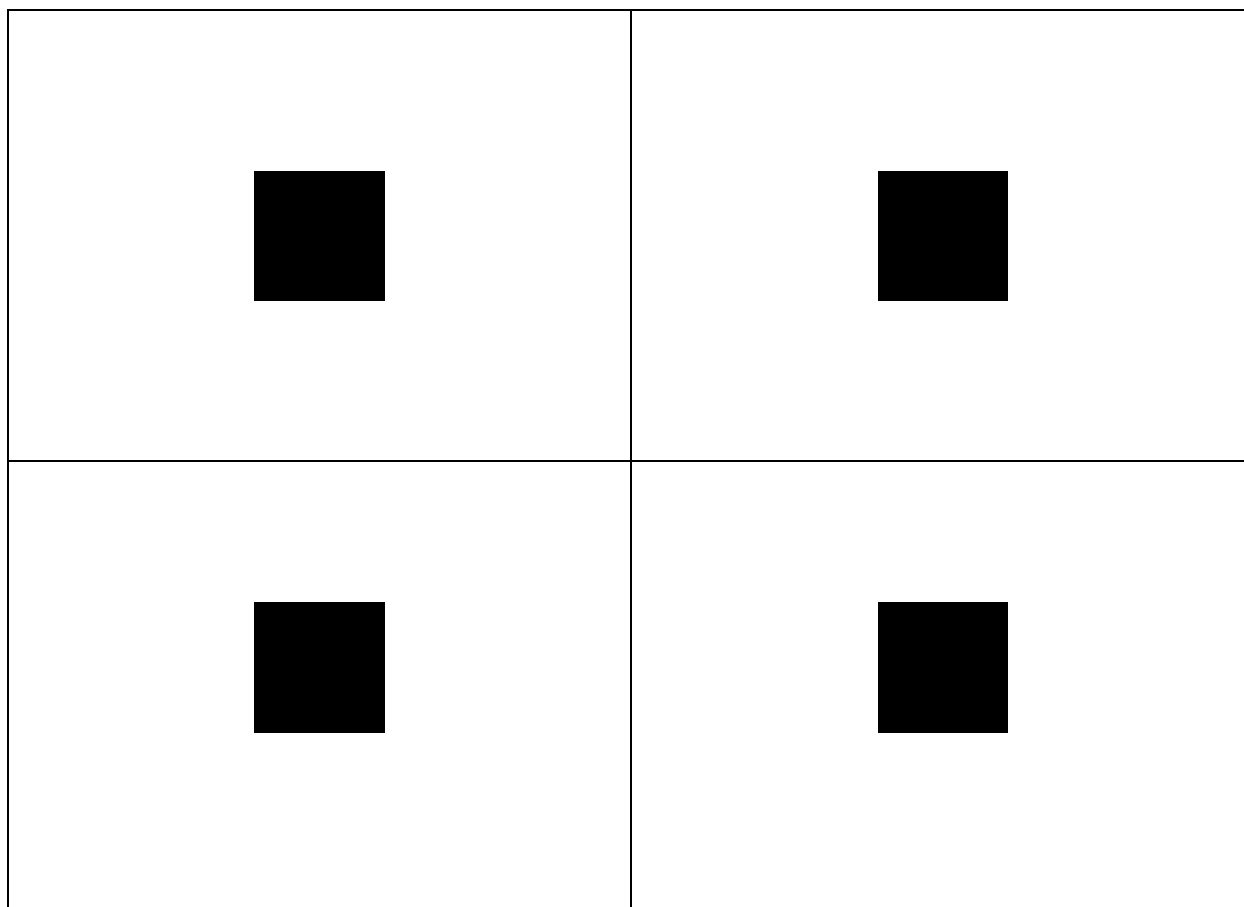
General Image
Detailed Image



Sampling / Comments

Origin Sample Taken:	Yes
Sample Reference:	SP Beach 3
Destination Sample Take	No
Sample Reference:	
Sampling Comments	
General Observations	

Additional Images





REMEDIAL OVERSIGHT & MATERIAL TRACKING (PFIZER, HAVANT)

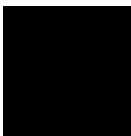
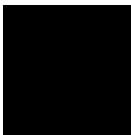
Project Reference:	UK21.5634	
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Status:	Issue 1	

Author:	Reviewed:	Authorised:
Paul O'Connor	Marcus Bell	Will Evans
Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☐ Soil Excavation ☐ Stockpile	
Soil Grid Reference:	TP101 Location
Detailed Grid Reference:	50.860202,-0.969660
Stockpile Number:	
Top of Excavation:	
Base of Excavation:	

General Image
Detailed Image





Destination of Moved Soil

New Soil Location: ☐ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	
Detailed Grid Reference:	
Stockpile Number:	

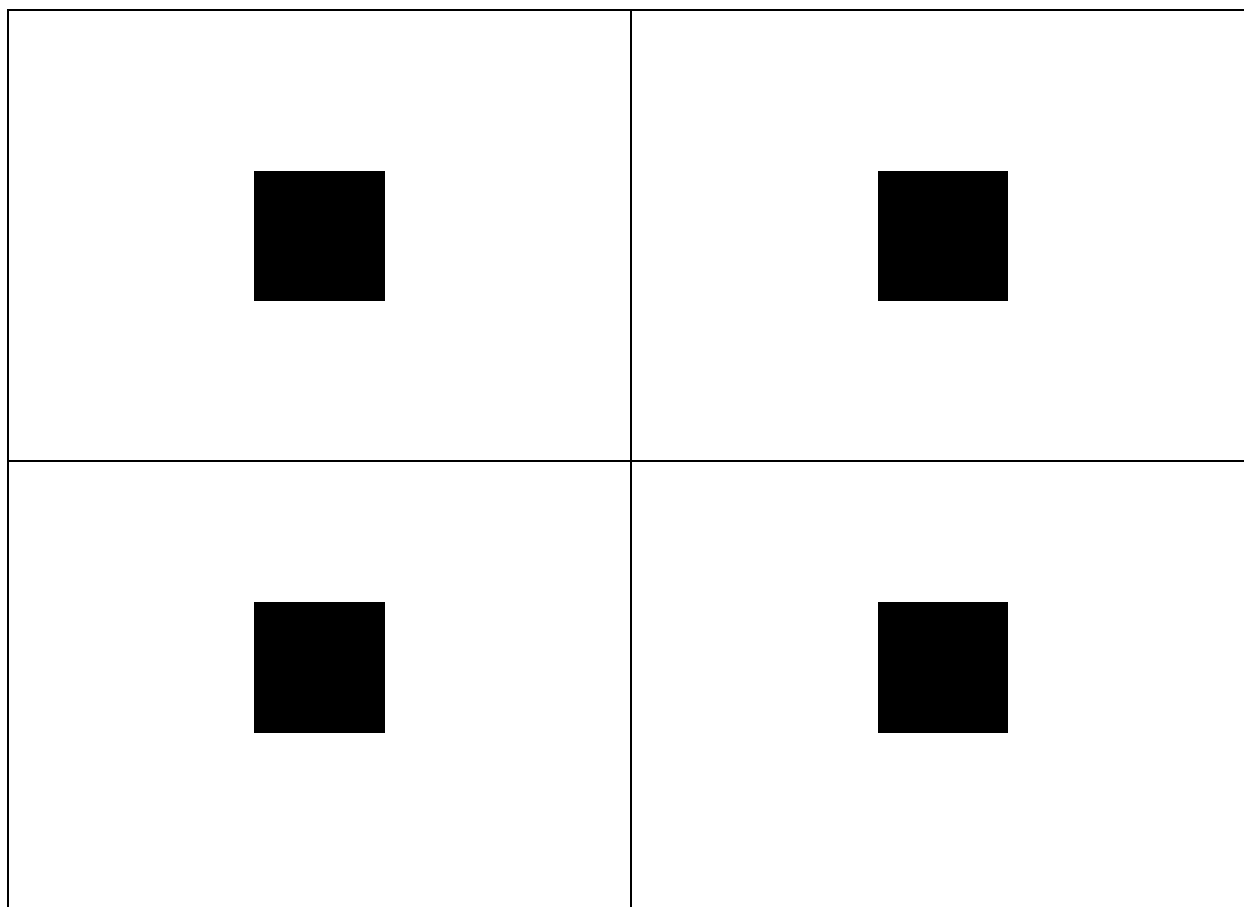
General Image
Detailed Image



Sampling / Comments

Origin Sample Taken:	
Sample Reference:	
Destination Sample Taken:	
Sample Reference:	
Sampling Comments	
General Observations	

Additional Images





REMEDIAL OVERSIGHT & MATERIAL TRACKING (PFIZER, HAVANT)

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Status:	Issue 1	

Author:	Reviewed:	Authorised:
		
Paul O'Connor	Marcus Bell	Will Evans
Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☐ Soil Excavation ☐ Stockpile	
Soil Grid Reference:	TP102 Location
Detailed Grid Reference:	50.860154,-0.969344
Stockpile Number:	
Top of Excavation:	
Base of Excavation:	

General Image
Detailed Image





Destination of Moved Soil

New Soil Location: ☐ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	
Detailed Grid Reference:	
Stockpile Number:	

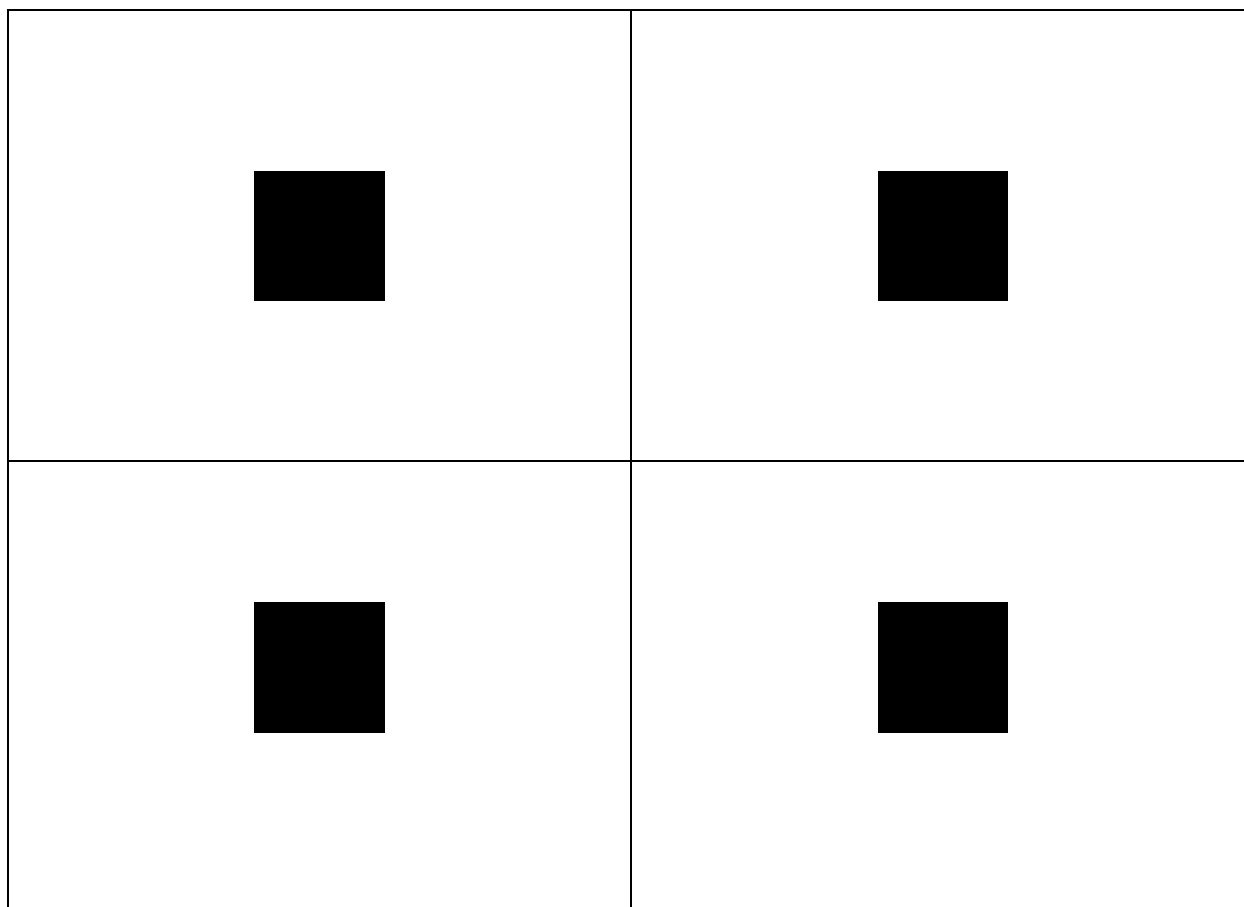
General Image
Detailed Image



Sampling / Comments

Origin Sample Taken:	
Sample Reference:	
Destination Sample Taken:	
Sample Reference:	
Sampling Comments	
General Observations	

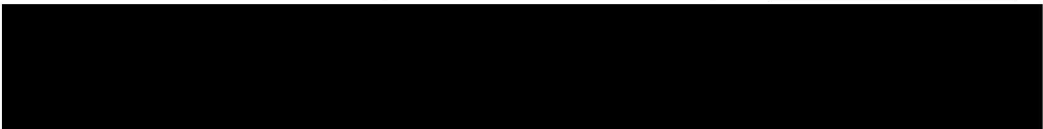
Additional Images





REMEDIAL OVERSIGHT & MATERIAL TRACKING (PFIZER, HAVANT)

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Author:	Reviewed:	Authorised:
		
Paul O'Connor	Marcus Bell	Will Evans
Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☐ Soil Excavation ☐ Stockpile	
Soil Grid Reference:	TP103 Location
Detailed Grid Reference:	50.860072,-0.969052
Stockpile Number:	
Top of Excavation:	
Base of Excavation:	

General Image
Detailed Image





Destination of Moved Soil

New Soil Location: ☐ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	
Detailed Grid Reference:	
Stockpile Number:	

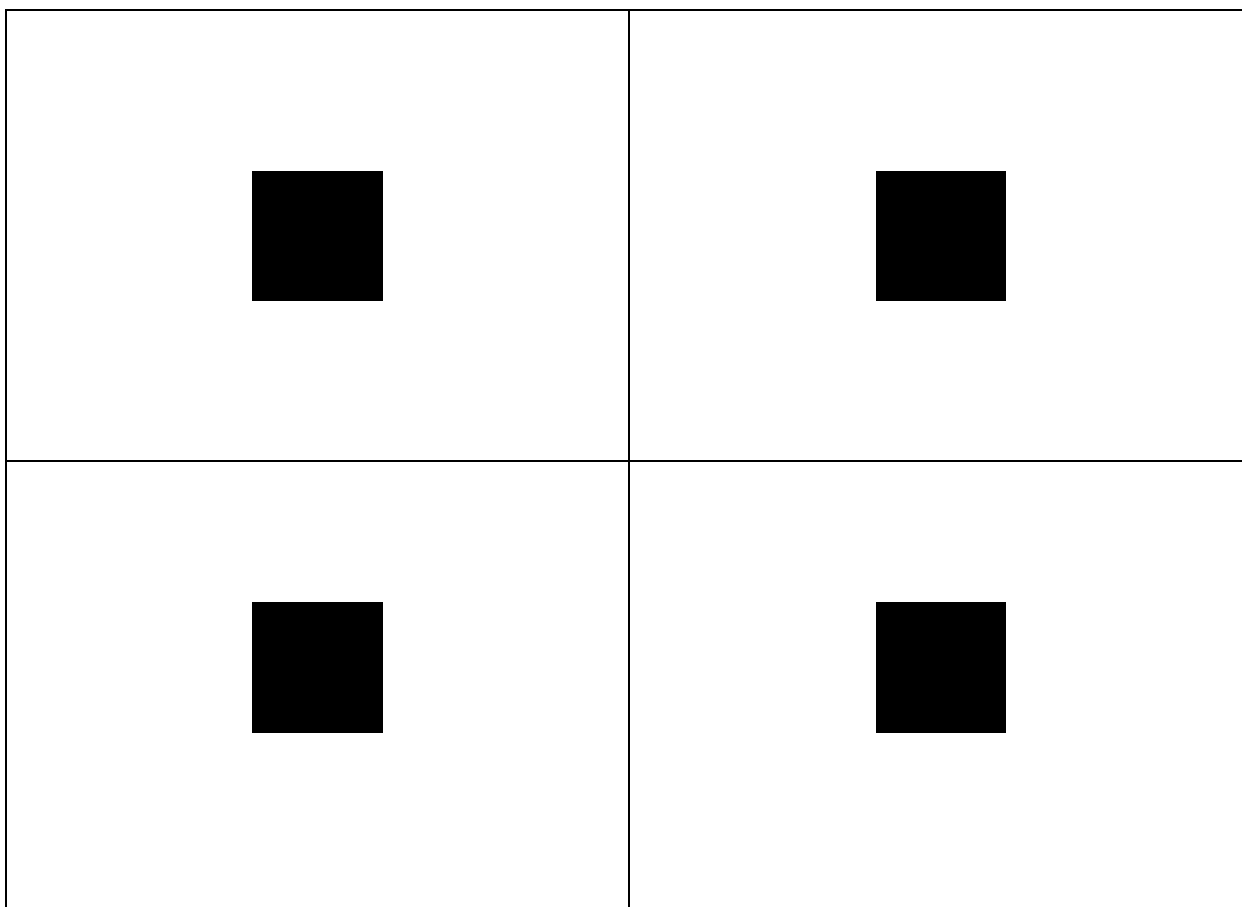
General Image
Detailed Image



Sampling / Comments

Origin Sample Taken:	
Sample Reference:	
Destination Sample Taken:	
Sample Reference:	
Sampling Comments	
General Observations	

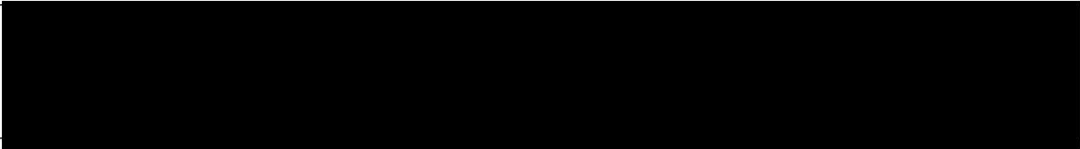
Additional Images





REMEDIAL OVERSIGHT & MATERIAL TRACKING (PFIZER, HAVANT)

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Author:	Reviewed:	Authorised:
		
Paul O'Connor	Marcus Bell	Will Evans
Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☐ Soil Excavation ☐ Stockpile	
Soil Grid Reference:	TP104 Location
Detailed Grid Reference:	50.860001,-0.968752
Stockpile Number:	
Top of Excavation:	
Base of Excavation:	

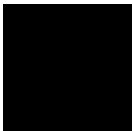
General Image
Detailed Image



Destination of Moved Soil

New Soil Location: ☐ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	
Detailed Grid Reference:	
Stockpile Number:	

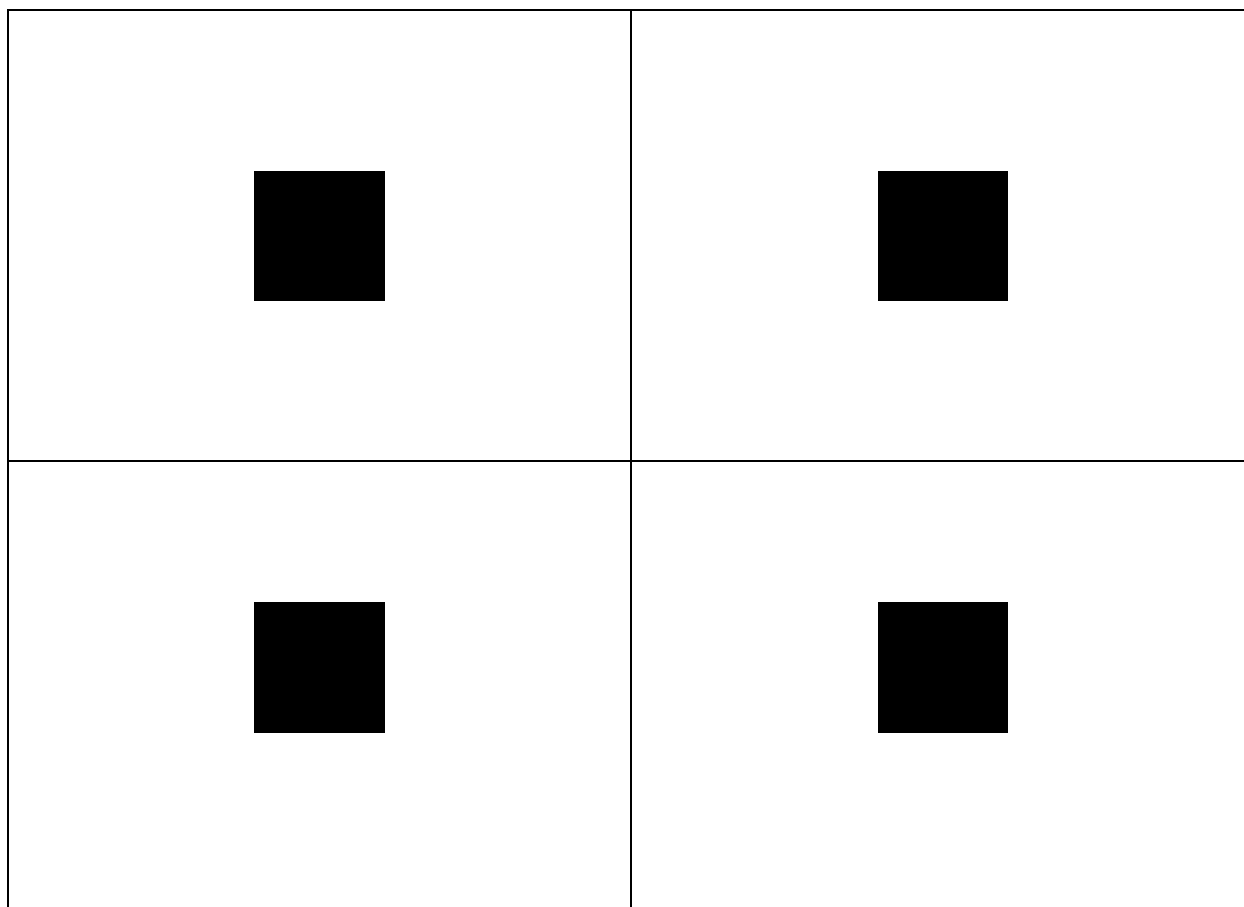
General Image
Detailed Image



Sampling / Comments

Origin Sample Taken:	
Sample Reference:	
Destination Sample Taken:	
Sample Reference:	
Sampling Comments	
General Observations	

Additional Images





REMEDIAL OVERSIGHT & MATERIAL TRACKING (PFIZER, HAVANT)

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Status:	Issue 1

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Paul O'Connor	Marcus Bell	Will Evans
Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☒ Soil Excavation ☐ Stockpile	
Soil Grid Reference:	B10
Detailed Grid Reference:	50.860092,-0.969220
Stockpile Number:	
Top of Excavation:	0.3
Base of Excavation:	0.5

General Image



Detailed Image





Destination of Moved Soil

New Soil Location: ☒ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	B10
Detailed Grid Reference:	
Stockpile Number:	

General Image
Detailed Image

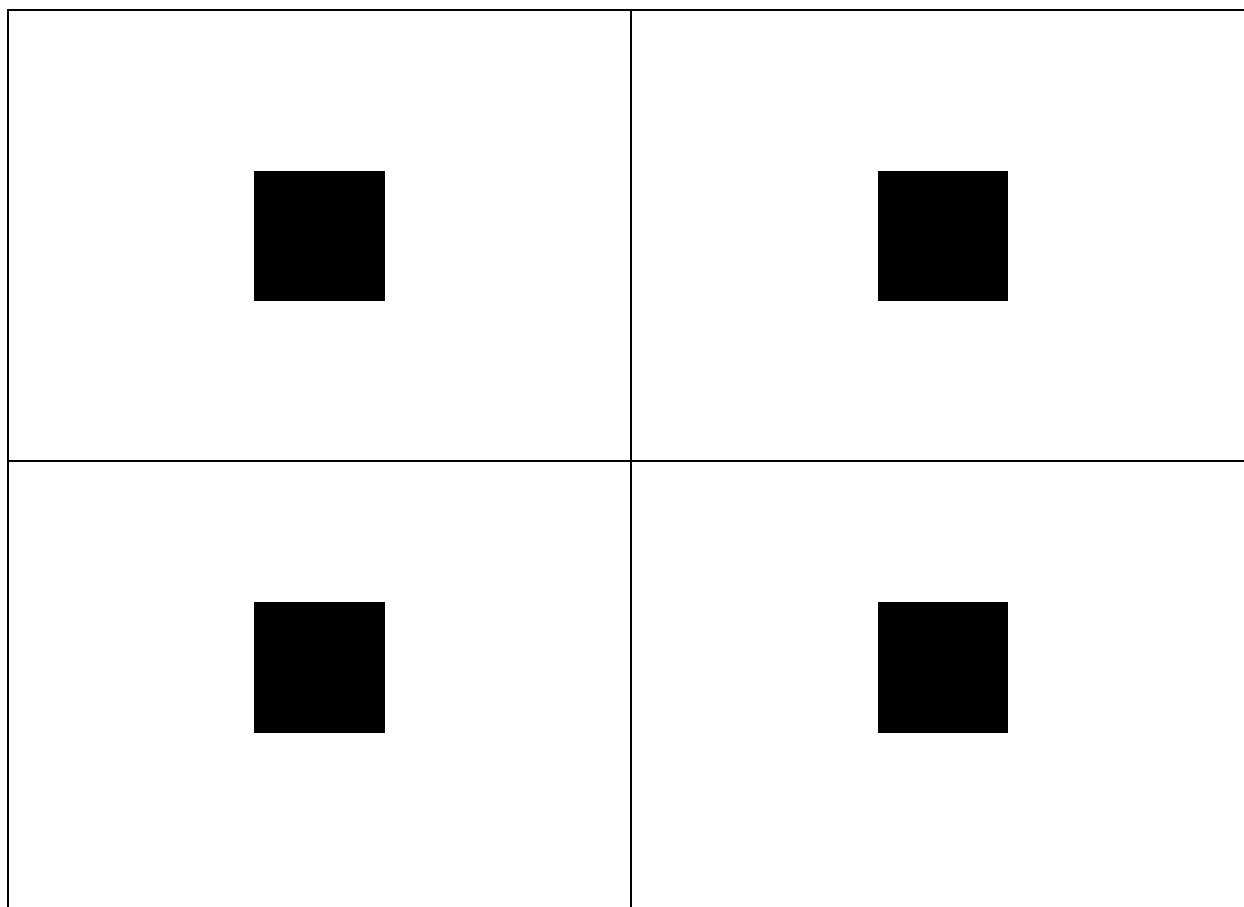




Sampling / Comments

Origin Sample Taken:	Yes
Sample Reference:	TP102 B10 0.4
Destination Sample Taken	No
Sample Reference:	
Sampling Comments	
General Observations	
Perimeter TP AOPC1	

Additional Images





REMEDIAL OVERSIGHT & MATERIAL TRACKING (PFIZER, HAVANT)

Project Reference:	UK21.5634	
Title:	Remedial Oversight & Material Tracking (Pfizer, Havant)	
Client:	Havant Property LLP	
Date:	11/08/2021	
EPS Contact Details:	7B Caxton House Broad Street Cambourne Cambridge CB23 6JN	T: 01954 710666 F: 01954 710677 E: info@epstrategies.co.uk W: www.epstrategies.co.uk
Status:	Issue 1	

Author:	Reviewed:	Authorised:
		
Paul O'Connor	Marcus Bell	Will Evans
Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☒ Soil Excavation ☐ Stockpile	
Soil Grid Reference:	B11
Detailed Grid Reference:	50.860033,-0.969019
Stockpile Number:	
Top of Excavation:	0.8
Base of Excavation:	1.3

General Image
Detailed Image



Destination of Moved Soil

New Soil Location: ☒ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	
Detailed Grid Reference:	
Stockpile Number:	

General Image
Detailed Image

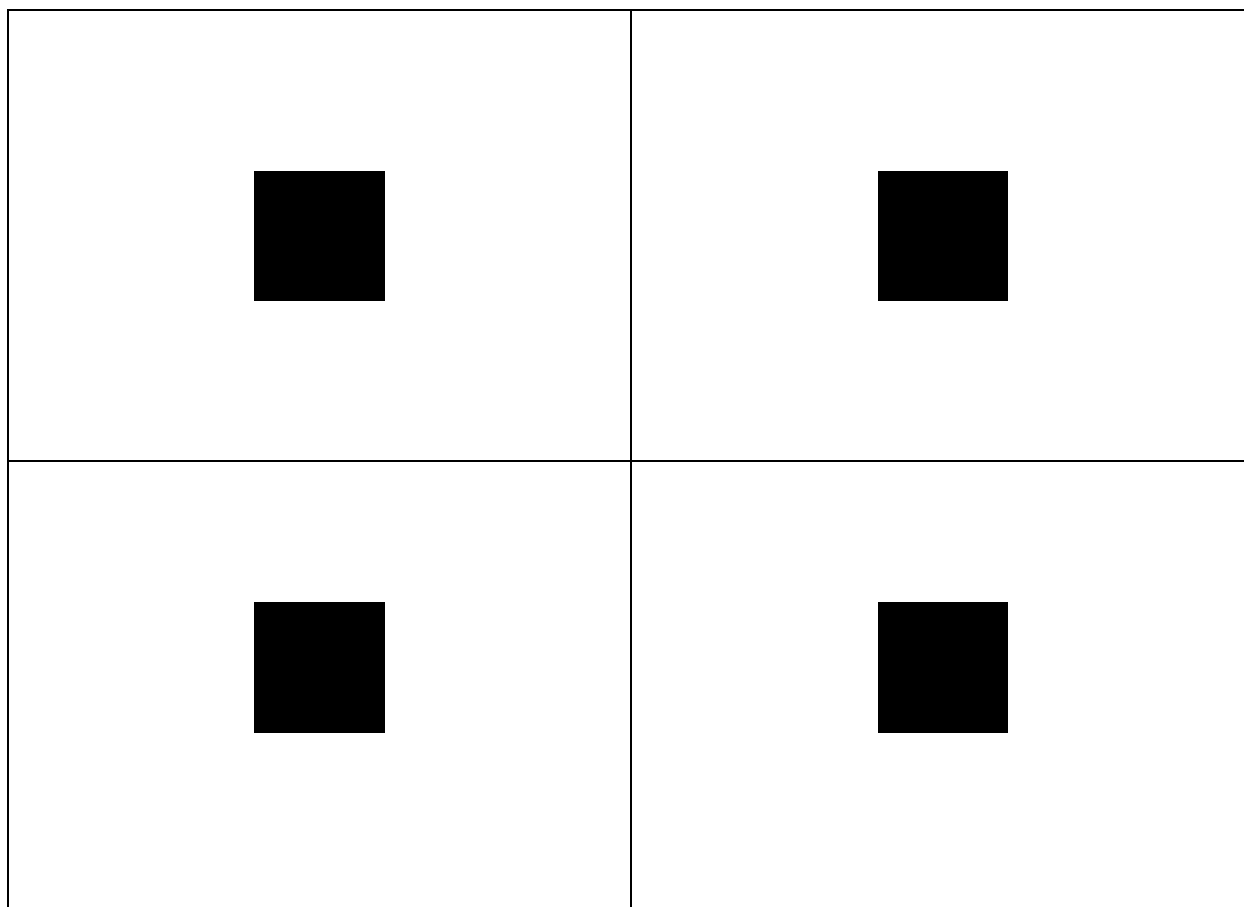




Sampling / Comments

Origin Sample Taken:	Yes
Sample Reference:	TP103 B11 1.3
Destination Sample Take	No
Sample Reference:	
Sampling Comments	
General Observations	
Perimeter TP AOPC1	

Additional Images





REMEDIAL OVERSIGHT & MATERIAL TRACKING (PFIZER, HAVANT)

Project Reference:	UK21.5634	
Title:	Remedial Oversight & Material Tracking (Pfizer, Havant)	
Client:	Havant Property LLP	
Date:	11/08/2021	
EPS Contact Details:	7B Caxton House Broad Street Cambourne Cambridge CB23 6JN	T: 01954 710666 F: 01954 710677 E: info@epstrategies.co.uk W: www.epstrategies.co.uk
Status:	Issue 1	

Author:	Reviewed:	Authorised:
A large black rectangular box redacting the names and titles of the individuals involved in the document.		
Paul O'Connor	Marcus Bell	Will Evans
Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☒ Soil Excavation ☐ Stockpile	
Soil Grid Reference:	B11 (E)
Detailed Grid Reference:	
Stockpile Number:	
Top of Excavation:	1.2
Base of Excavation:	1.3

General Image



Detailed Image





Destination of Moved Soil

New Soil Location: ☐ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	
Detailed Grid Reference:	
Stockpile Number:	

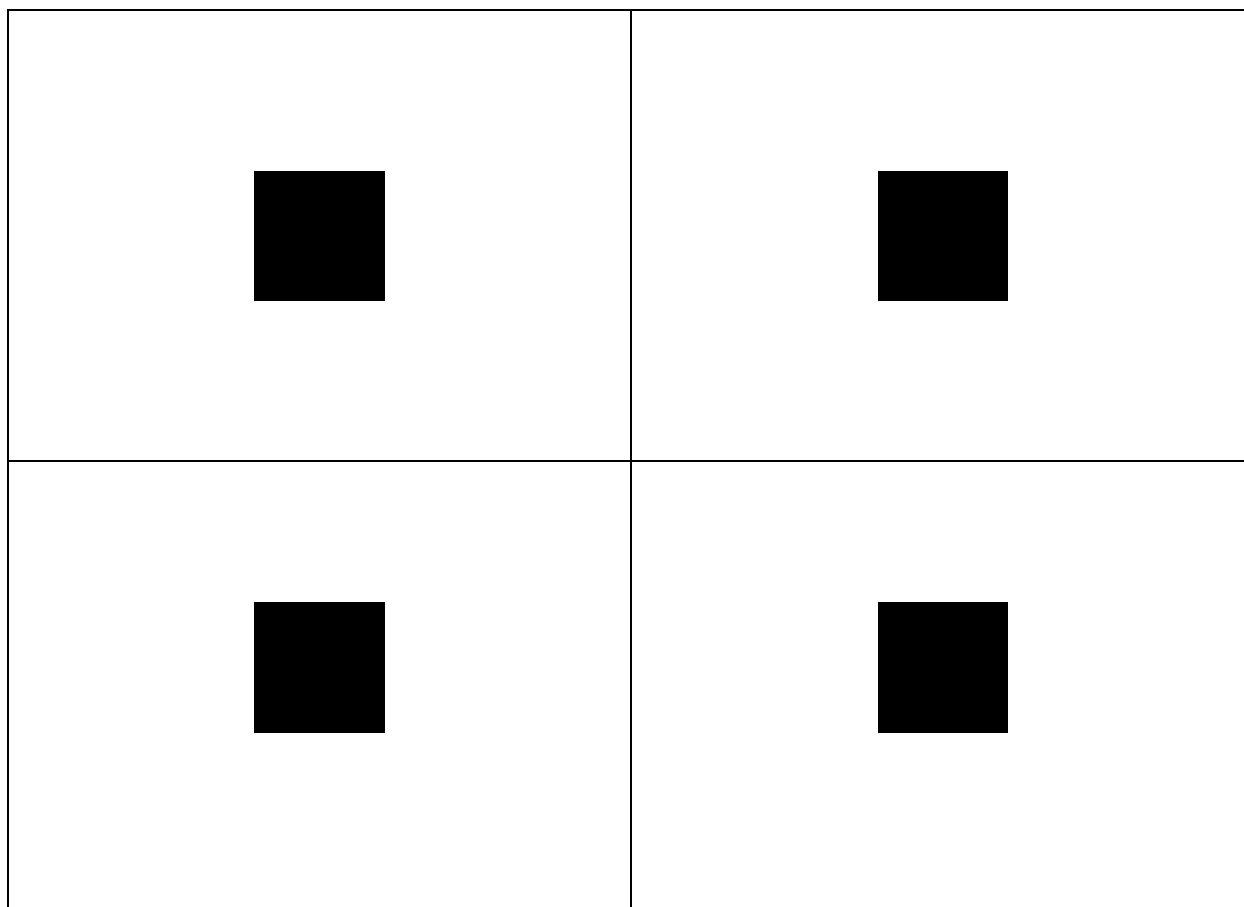
General Image
Detailed Image



Sampling / Comments

Origin Sample Taken:	Yes
Sample Reference:	TP104 B11 (E) 1.3
Destination Sample Taken	No
Sample Reference:	
Sampling Comments	
General Observations	
Perimeter excavation near neighbouring site bike rack AOPC1	

Additional Images





REMEDIAL OVERSIGHT & MATERIAL TRACKING (PFIZER, HAVANT)

Project Reference:	UK21.5634	
Title:	Remedial Oversight & Material Tracking (Pfizer, Havant)	
Client:	Havant Property LLP	
Date:	11/08/2021	
EPS Contact Details:	7B Caxton House Broad Street Cambourne Cambridge CB23 6JN	T: 01954 710666 F: 01954 710677 E: info@epstrategies.co.uk W: www.epstrategies.co.uk
Status:	Issue 1	

Author:	Reviewed:	Authorised:
A large black rectangular box redacting the names and signatures of the Author, Reviewed, and Authorised individuals.		
Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☒ Soil Excavation ☐ Stockpile	
Soil Grid Reference:	B11 (E)
Detailed Grid Reference:	50.860011,-0.968813
Stockpile Number:	
Top of Excavation:	0.4
Base of Excavation:	1.2

General Image



Detailed Image





Destination of Moved Soil

New Soil Location: ☒ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	
Detailed Grid Reference:	
Stockpile Number:	

General Image
Detailed Image

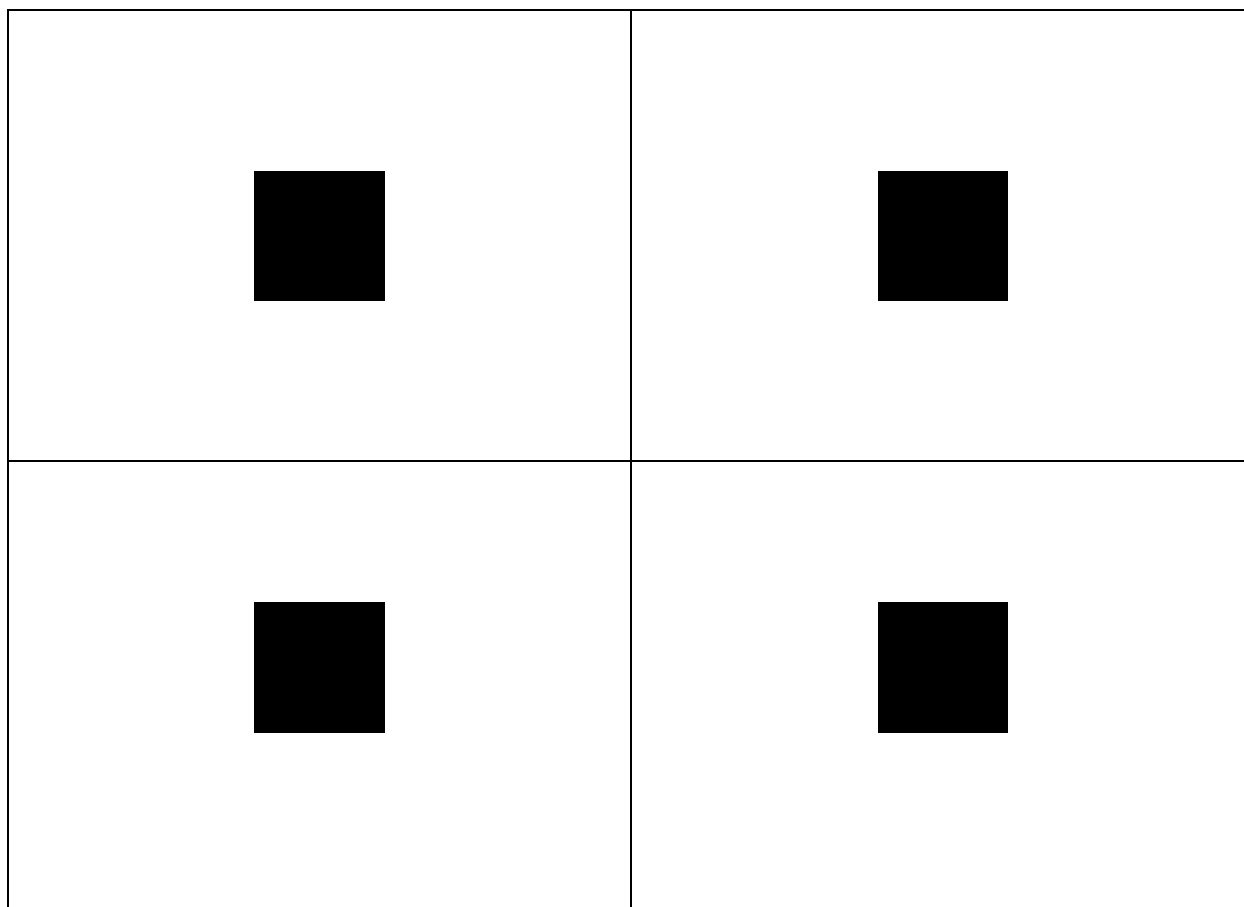




Sampling / Comments

Origin Sample Taken:	Yes
Sample Reference:	TP104 B11 (E) 0.6
Destination Sample Take	No
Sample Reference:	
Sampling Comments	
General Observations	
Perimeter excavation only AOPC1 Adjacent neighboring site bike rack	

Additional Images





REMEDIAL OVERSIGHT & MATERIAL TRACKING (PFIZER, HAVANT)

Project Reference:	UK21.5634	
Title:	Remedial Oversight & Material Tracking (Pfizer, Havant)	
Client:	Havant Property LLP	
Date:	11/08/2021	
EPS Contact Details:	7B Caxton House Broad Street Cambourne Cambridge CB23 6JN	T: 01954 710666 F: 01954 710677 E: info@epstrategies.co.uk W: www.epstrategies.co.uk
Status:	Issue 1	

Author:	Reviewed:	Authorised:
		
Paul O'Connor	Marcus Bell	Will Evans
Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☒ Soil Excavation ☐ Stockpile	
Soil Grid Reference:	B11
Detailed Grid Reference:	50.860033,-0.969019
Stockpile Number:	
Top of Excavation:	0.4
Base of Excavation:	0.8

General Image



Detailed Image





Destination of Moved Soil

New Soil Location: ☒ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	
Detailed Grid Reference:	
Stockpile Number:	

General Image
Detailed Image

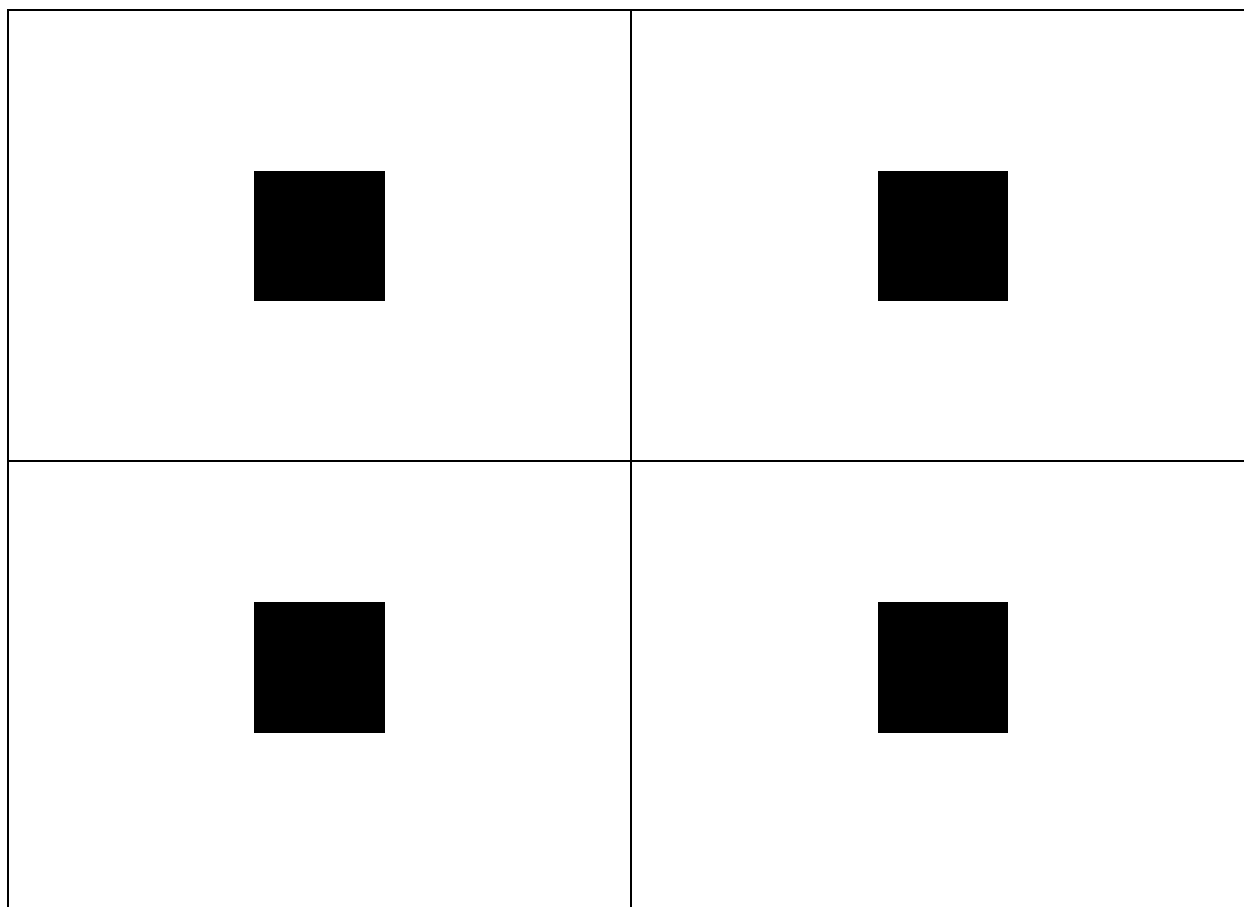




Sampling / Comments

Origin Sample Taken:	Yes
Sample Reference:	TP103 B11 0.6
Destination Sample Take	No
Sample Reference:	
Sampling Comments	
General Observations	
Perimeter TP AOPC1	

Additional Images





REMEDIAL OVERSIGHT & MATERIAL TRACKING (PFIZER, HAVANT)

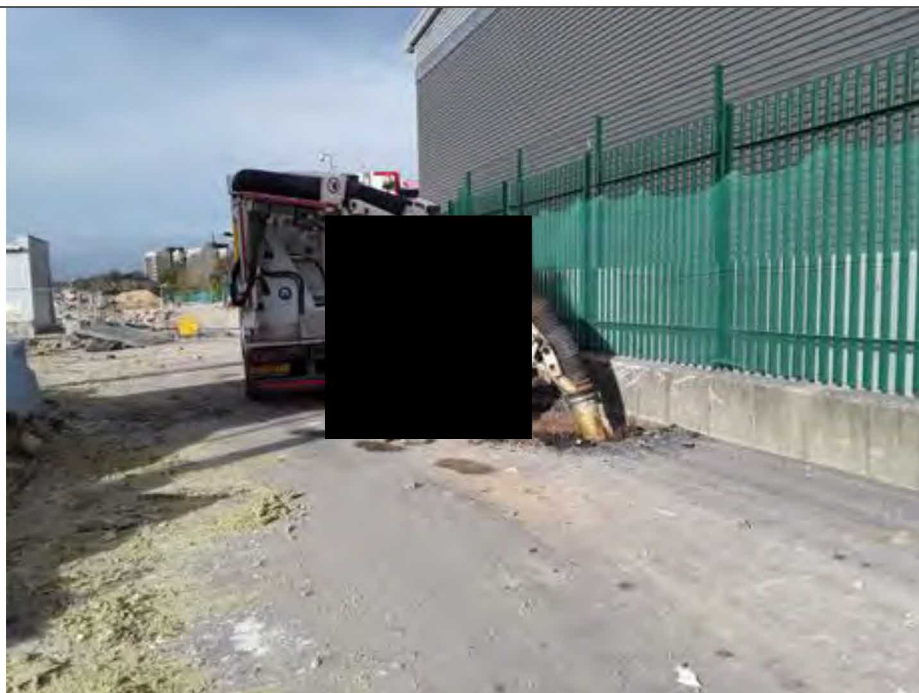
Project Reference:	UK21.5634	
Title:	Remedial Oversight & Material Tracking (Pfizer, Havant)	
Client:	Havant Property LLP	
Date:	11/08/2021	
EPS Contact Details:	7B Caxton House Broad Street Cambourne Cambridge CB23 6JN	T: 01954 710666 F: 01954 710677 E: info@epstrategies.co.uk W: www.epstrategies.co.uk
Status:	Issue 1	

Author:	Reviewed:	Authorised:
		
Paul O'Connor	Marcus Bell	Will Evans
Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☒ Soil Excavation ☐ Stockpile	
Soil Grid Reference:	B10
Detailed Grid Reference:	
Stockpile Number:	
Top of Excavation:	0.5
Base of Excavation:	1.5

General Image



Detailed Image



Destination of Moved Soil

New Soil Location: ☒ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	B10
Detailed Grid Reference:	
Stockpile Number:	

General Image
Detailed Image

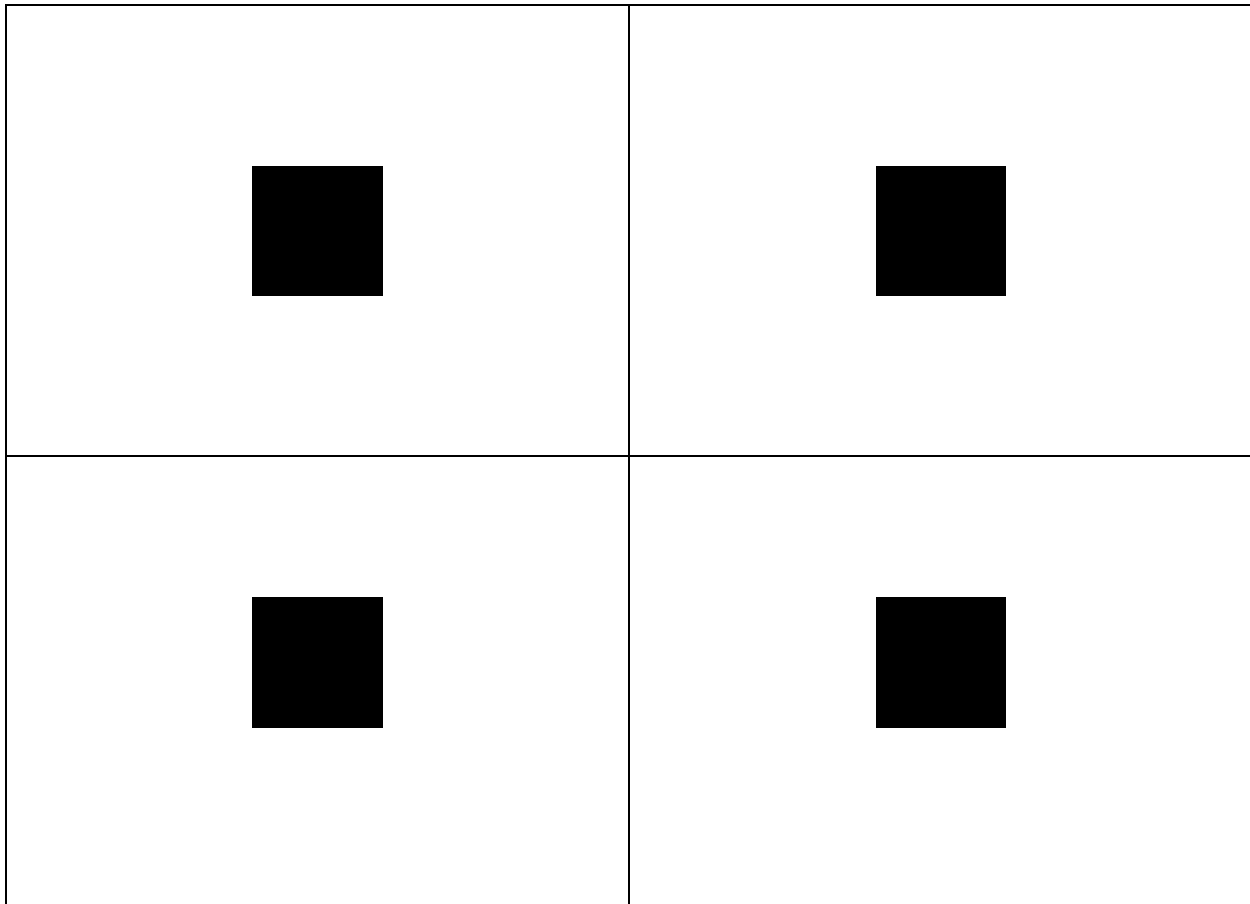




Sampling / Comments

Origin Sample Taken:	Yes
Sample Reference:	TP102 B10 1.3
Destination Sample Take	No
Sample Reference:	
Sampling Comments	
General Observations	

Additional Images





REMEDIAL OVERSIGHT & MATERIAL TRACKING (PFIZER, HAVANT)

Project Reference:	UK21.5634	
Title:	Remedial Oversight & Material Tracking (Pfizer, Havant)	
Client:	Havant Property LLP	
Date:	11/08/2021	
EPS Contact Details:	7B Caxton House Broad Street Cambourne Cambridge CB23 6JN	T: 01954 710666 F: 01954 710677 E: info@epstrategies.co.uk W: www.epstrategies.co.uk
Status:	Issue 1	

Author:	Reviewed:	Authorised:
		
Paul O'Connor	Marcus Bell	Will Evans
Consultant	Associate Director	Director

Excavation of Soil

Soil Location: ☒ Soil Excavation ☐ Stockpile	
Soil Grid Reference:	B9
Detailed Grid Reference:	50.860253,-0.969562
Stockpile Number:	
Top of Excavation:	1.0
Base of Excavation:	1.5

General Image
Detailed Image



Destination of Moved Soil

New Soil Location: ☒ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	B9
Detailed Grid Reference:	
Stockpile Number:	

General Image
Detailed Image

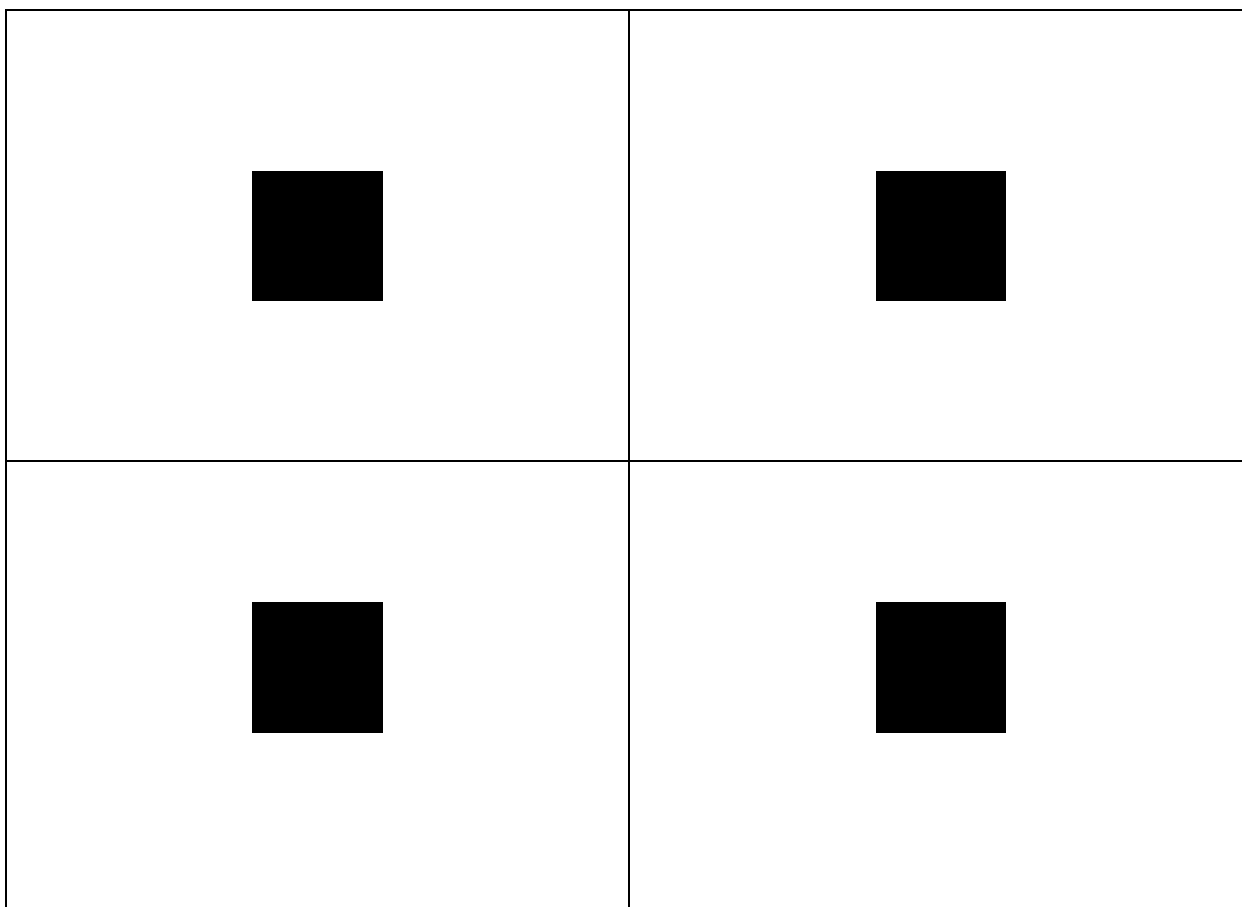




Sampling / Comments

Origin Sample Taken:	Yes
Sample Reference:	TP101 B9 1.4
Destination Sample Take	No
Sample Reference:	
Sampling Comments	
General Observations	
Utility exposure only Adjacent substation	

Additional Images





REMEDIAL OVERSIGHT & MATERIAL TRACKING (PFIZER, HAVANT)

Project Reference:	UK21.5634	
Title:	Remedial Oversight & Material Tracking (Pfizer, Havant)	
Client:	Havant Property LLP	
Date:	11/08/2021	
EPS Contact Details:	7B Caxton House Broad Street Cambourne Cambridge CB23 6JN	T: 01954 710666 F: 01954 710677 E: info@epstrategies.co.uk W: www.epstrategies.co.uk
Status:	Issue 1	

Author:	Reviewed:	Authorised:
		
Paul O'Connor	Marcus Bell	Will Evans
Consultant	Associate Director	Director

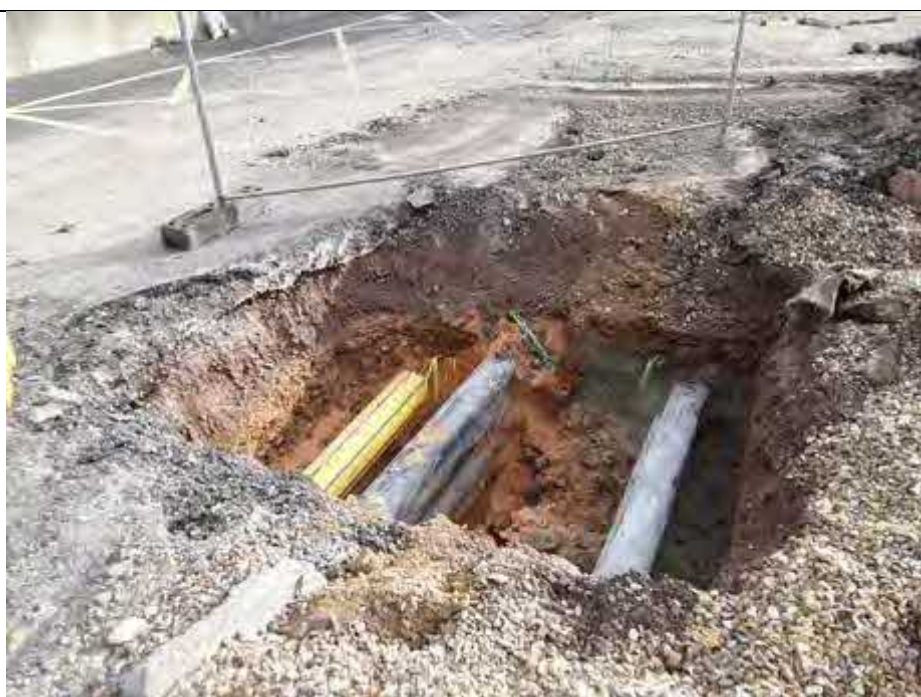
Excavation of Soil

Soil Location: ☒ Soil Excavation ☐ Stockpile	
Soil Grid Reference:	B9
Detailed Grid Reference:	50.860066,-0.969524
Stockpile Number:	
Top of Excavation:	0.5
Base of Excavation:	1.0

General Image



Detailed Image





Destination of Moved Soil

New Soil Location: ☒ Backfilled into Excavation ☐ Stockpile	
Soil Grid Reference:	
Detailed Grid Reference:	
Stockpile Number:	

General Image
Detailed Image

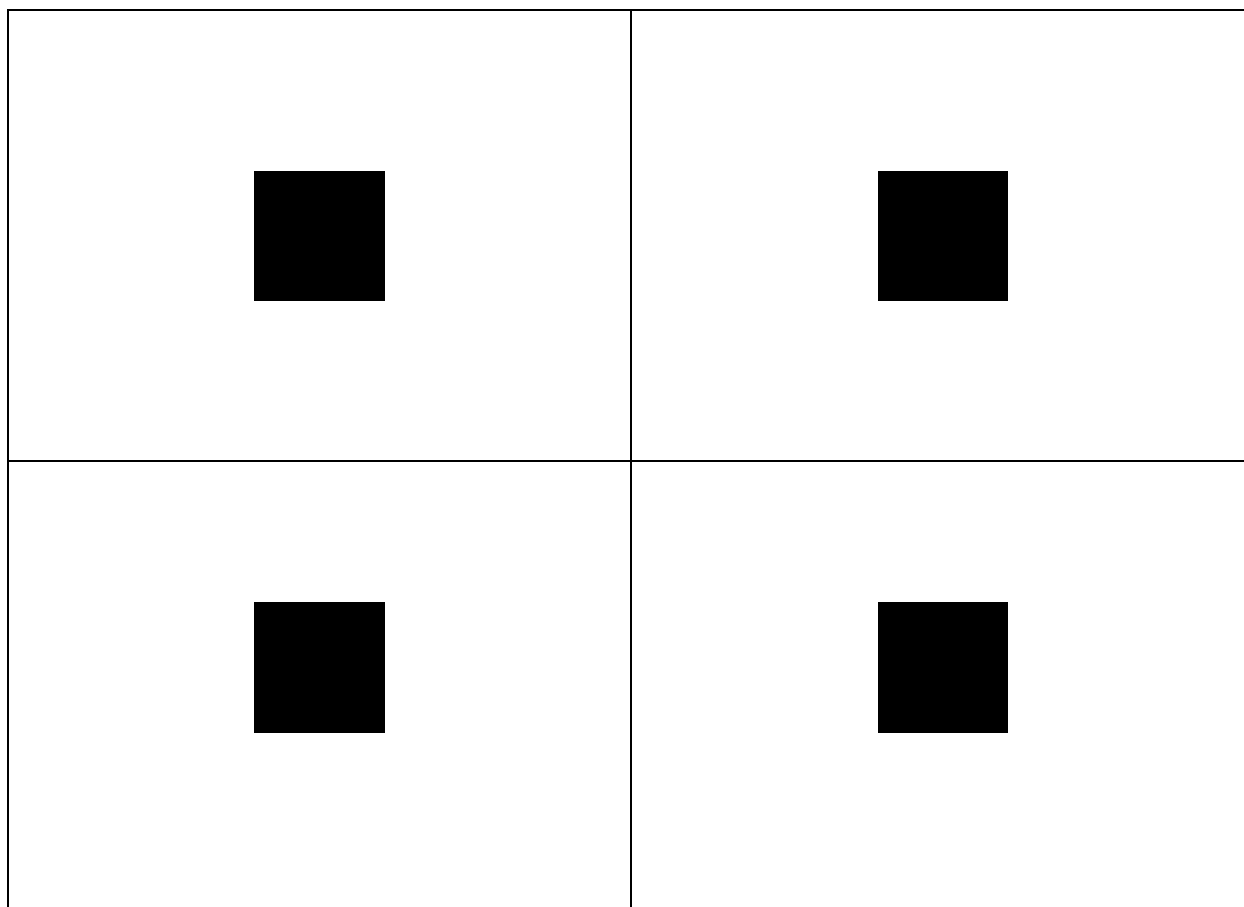




Sampling / Comments

Origin Sample Taken:	Yes
Sample Reference:	TP101 B9 1.0
Destination Sample Taken:	No
Sample Reference:	
Sampling Comments	
General Observations	
Trial pit utility exposure only. Adjacent substation	

Additional Images



APPENDIX E

Waste Transfer Documentation

Waste Transfer Note

Description of Transfer

Driver

Ticket Number	208334	Full Name	Andrew Campbell
Waste regulation code	17-05-04 Non Hazardous Contaminated Soil	Company Name and Address	TJ Transport Limited 127 Wickham Road, Fareham, Hampshire, PO17 5BP
Weight in Loads	1 Loads 8W Tipper		
Transfer Date and Time	16-Dec-2021 08:53:54	Driver Signature	
Waste Carrier Registration Number	CBDU133054	Vehicle Registration Number	V20 TJT
Order Number	CELT19825		

From

To

Full Name	Jay Wills	Full Name	Lou
Weighbridge number	N/A	Weighbridge number	901
SIC Code			
Company Name and Address	Collins Earthworks Pfizer Global Supplys 32 New Lane Havant PO9 2NG	Company Name and Address	UK Remediation, Havant Harts Farm Way , Havant, Hampshire, PO9 1JN
Time and Date	16-Dec-2021 08:53:54 50.859539031982 -0.971451699734	Time and Date	16-Dec-2021 09:12:00 50.8595398 -0.9714517
Signature		Signature	

Waste Transfer Note

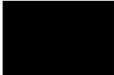
Description of Transfer

Driver

Ticket Number	208335	Full Name	Andrew Campbell
Waste regulation code	17-05-04 Non Hazardous Contaminated Soil	Company Name and Address	TJ Transport Limited 127 Wickham Road, Fareham, Hampshire, PO17 5BP
Weight in Loads	1 Loads 8W Tipper		
Transfer Date and Time	16-Dec-2021 09:24:27	Driver Signature	
Waste Carrier Registration Number	CBDU133054	Vehicle Registration Number	V20 TJT
Order Number	CELT19825		

From

To

Full Name	Jay Wills	Full Name	Lou
Weighbridge number	N/A	Weighbridge number	903
SIC Code			
Company Name and Address	Collins Earthworks Pfizer Global Supplys 32 New Lane Havant PO9 2NG	Company Name and Address	UK Remediation, Havant Harts Farm Way , Havant, Hampshire, PO9 1JN
Time and Date	16-Dec-2021 09:24:27 50.859539031982 -0.971451699734	Time and Date	16-Dec-2021 09:41:30 50.8590097 -0.9816469
Signature		Signature	

Waste Transfer Note

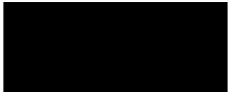
Description of Transfer

Driver

Ticket Number	208336	Full Name	Andrew Campbell
Waste regulation code	17-05-04 Non Hazardous Contaminated Soil	Company Name and Address	TJ Transport Limited 127 Wickham Road, Fareham, Hampshire, PO17 5BP
Weight in Loads	1 Loads 8W Tipper		
Transfer Date and Time	16-Dec-2021 09:53:41	Driver Signature	
Waste Carrier Registration Number	CBDU133054	Vehicle Registration Number	V20 TJT
Order Number	CELT19825		

From

To

Full Name	Jay Wilks	Full Name	Lou
Weighbridge number	N/A	Weighbridge number	904
SIC Code			
Company Name and Address	Collins Earthworks Pfizer Global Supplys 32 New Lane Havant PO9 2NG	Company Name and Address	UK Remediation, Havant Harts Farm Way , Havant, Hampshire, PO9 1JN
Time and Date	16-Dec-2021 09:53:41 50.859195709229 -0.972928225994	Time and Date	16-Dec-2021 10:09:57 50.8591946 -0.9729282
Signature		Signature	

Waste Transfer Note

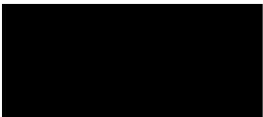
Description of Transfer

Driver

Ticket Number	208337	Full Name	Andrew Campbell
Waste regulation code	17-05-04 Non Hazardous Contaminated Soil	Company Name and Address	TJ Transport Limited 127 Wickham Road, Fareham, Hampshire, PO17 5BP
Weight in Loads	1 Loads 8W Tipper		
Transfer Date and Time	16-Dec-2021 10:22:19	Driver Signature	
Waste Carrier Registration Number	CBDU133054	Vehicle Registration Number	V20 TJI
Order Number	CELT19825		

From

To

Full Name	Jay Wilks	Full Name	Lou
Weighbridge number	N/A	Weighbridge number	905
SIC Code			
Company Name and Address	Collins Earthworks Pfizer Global Supplys 32 New Lane Havant PO9 2NG	Company Name and Address	UK Remediation, Havant Harts Farm Way , Havant, Hampshire, PO9 1JN
Time and Date	16-Dec-2021 10:22:19 50.859195709229 -0.972928225994	Time and Date	16-Dec-2021 10:38:34 50.8591946 -0.9729282
Signature		Signature	

Waste Transfer Note

Description of Transfer

Driver

Ticket Number	208661	Full Name	Paul Billingham
Waste regulation code	17-05-04 Non Hazardous Contaminated Soil	Company Name and Address	TJ Transport Limited 127 Wickham Road, Fareham, Hampshire, PO17 5BP
Weight in Loads	1 Loads 8W Tipper		
Transfer Date and Time	17-Dec-2021 09:16:16	Driver Signature	
Waste Carrier Registration Number	CBDU92662	Vehicle Registration Number	EU17 UXF
Order Number	CELT19825		

From

To

Full Name	Ashley	Full Name	Lou
Weighbridge number	208661	Weighbridge number	911
SIC Code	52290		
Company Name and Address	Collins Earthworks (Transport) Ltd Pfizer Global Supplys 32 New Lane Havant PO9 2NG	Company Name and Address	UK Remediation, Havant Harts Farm Way , Havant, Hampshire, PO9 1JN
Time and Date	17-Dec-2021 09:16:16 50.876937866211 -1.180631995201	Time and Date	17-Dec-2021 09:31:30 50.876939 -1.180632
Signature		Signature	

Waste Transfer Note

Description of Transfer

Driver

Ticket Number	208662	Full Name	Paul Billingham
Waste regulation code	17-05-04 Non Hazardous Contaminated Soil	Company Name and Address	TJ Transport Limited 127 Wickham Road, Fareham, Hampshire, PO17 5BP
Weight in Loads	1 Loads 8W Tipper		
Transfer Date and Time	17-Dec-2021 10:08:39	Driver Signature	
Waste Carrier Registration Number	CBDU92662	Vehicle Registration Number	EO17 UXF
Order Number	CELT19825		

From

To

Full Name	Mckalee	Full Name	Lou
Weighbridge number	208662	Weighbridge number	913
SIC Code	52290		
Company Name and Address	Collins Earthworks (Transport) Ltd Pfizer Global Supplys 32 New Lane Havant PO9 2NG	Company Name and Address	UK Remediation, Havant Harts Farm Way , Havant, Hampshire, PO9 1JN
Time and Date	17-Dec-2021 10:08:39 50.859558105469 -0.972333192825	Time and Date	17-Dec-2021 10:21:18 50.8595562 -0.9723332
Signature		Signature	

Waste Transfer Note

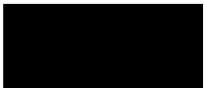
Description of Transfer

Driver

Ticket Number	208663	Full Name	Paul Billingham
Waste regulation code	17-05-04 Non Hazardous Contaminated Soil	Company Name and Address	TJ Transport Limited 127 Wickham Road, Fareham, Hampshire, PO17 5BP
Weight in Loads	1 Loads 8W Tipper		
Transfer Date and Time	17-Dec-2021 10:41:14	Driver Signature	
Waste Carrier Registration Number	CBDU92662	Vehicle Registration Number	EU17 UXF
Order Number	CELT19825		

From

To

Full Name	Mckalee	Full Name	Lou
Weighbridge number	208663	Weighbridge number	914
SIC Code	52290		
Company Name and Address	Collins Earthworks (Transport) Ltd Pfizer Global Supplys 32 New Lane Havant PO9 2NG	Company Name and Address	UK Remediation, Havant Harts Farm Way , Havant, Hampshire, PO9 1JN
Time and Date	17-Dec-2021 10:41:14 50.859558105469 -0.972333192825	Time and Date	17-Dec-2021 10:50:33 50.8595562 -0.9723332
Signature		Signature	

Waste Transfer Note

Description of Transfer

Driver

Ticket Number	208664	Full Name	Paul Billingham
Waste regulation code	17-05-04 Non Hazardous Contaminated Soil	Company Name and Address	TJ Transport Limited 127 Wickham Road, Fareham, Hampshire, PO17 5BP
Weight in Loads	1 Loads 8W Tipper		
Transfer Date and Time	17-Dec-2021 11:15:08	Driver Signature	
Waste Carrier Registration Number	CBDU92662	Vehicle Registration Number	EU17 UXF
Order Number	CELT19825		

From

To

Full Name	Mckalee	Full Name	Lou
Weighbridge number	208664	Weighbridge number	915
SIC Code	52290		
Company Name and Address	Collins Earthworks (Transport) Ltd Pfizer Global Supplys 32 New Lane Havant PO9 2NG	Company Name and Address	UK Remediation, Havant Harts Farm Way , Havant, Hampshire, PO9 1JN
Time and Date	17-Dec-2021 11:15:08 50.859558105469 -0.972333192825	Time and Date	17-Dec-2021 11:35:12 50.8595562 -0.9723332
Signature		Signature	

Waste Transfer Note

Description of Transfer

Driver

Ticket Number	218318	Full Name	Ken Robbins
Waste regulation code	17-05-04 Non Hazardous Contaminated Soil	Company Name and Address	TJ Transport Limited 127 Wickham Road, Fareham, Hampshire, PO17 5BP
Weight in Loads	1 Loads 8W Tipper		
Transfer Date and Time	02-Feb-2022 09:48:10	Driver Signature	
Waste Carrier Registration Number	CBDU68777	Vehicle Registration Number	RANDR8W1
Order Number	CELT19825		

From

To

Full Name	Holden	Full Name	Sue
Weighbridge number	NA	Weighbridge number	HTF4308.01
SIC Code	52290		
Company Name and Address	Collins Earthworks (Transport) Ltd Pfizer Global Supplys 32 New Lane Havant PO9 2NG	Company Name and Address	UK Remediation, Havant Harts Farm Way , Havant, Hampshire, PO9 1JN
Time and Date	02-Feb-2022 09:48:10 50.874015808105 -1.250803351402	Time and Date	02-Feb-2022 10:27:56 50.8593734035456 -0.9735686451021539
Signature		Signature	

By signing the above I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011



APPENDIX F

Environmental Laboratory Report –Soils (EPS)

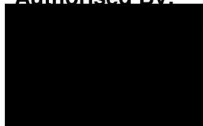
EPS Ltd
7B Caxton House
Broad Street
Cambourne
Cambridgeshire
CB23 6JN



Attention : Marcus Bell
Date : 8th December, 2021
Your reference : UK21.5634
Our reference : Test Report 21/19082 Batch 1
Location : 32 New Lane Havant (Pfizer)
Date samples received : 2nd December, 2021
Status : Final report
Issue : 1.1

Nine samples were received for analysis on 2nd December, 2021 of which nine were scheduled for analysis. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.
All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

Authorised By:



Bruce Leslie
Project Manager

Please include all sections of this report if it is reproduced

Client Name: EPS Ltd
Reference: UK21.5634
Location: 32 New Lane Havant (Pfizer)
Contact: Marcus Bell
EMT Job No: 21/19082

Solids: V=60g VOC jar. J=250g glass jar. T=plastic tub

Please see attached notes for all abbreviations and acronyms

Client Name: EPS Ltd
Reference: UK21.5634
Location: 32 New Lane Havant (Pfizer)
Contact: Marcus Bell
EMT Job No: 21/19082

Solids: V=60g VOC jar. J=250g glass jar. T=plastic tub

Please see attached notes for all abbreviations and acronyms

Element Materials Technology

Client Name: EPS Ltd
Reference: UK21.5634
Location: 32 New Lane Havant (Pfizer)
Contact: Marcus Bell
EMT Job No: 21/19082

SVOC Report : Solid

EMT Sample No.	1-3	4-6	7-9	10-12	13-15	16-18	19-21	22-24	25-27		Please see attached notes for all abbreviations and acronyms		
Sample ID	TP-BH3 N1	TP-BH3 N2	TP-BH3 S1	TP-BH3 S2	TP-BH3 E1	TP-BH3 E2	TP-BH3 W1	TP-BH3 W2	TP-BH3 B				
Depth	1.00	2.00	1.00	2.00	1.00	2.00	1.00	2.00	2.00				
COC No / misc Containers	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T				
Sample Date	30/11/2021	30/11/2021	30/11/2021	30/11/2021	30/11/2021	30/11/2021	30/11/2021	30/11/2021	30/11/2021				
Sample Type	Clay	Clay	Clay	Clay	Clayey Sand	Clay	Clay	Clay	Clay				
Batch Number	1	1	1	1	1	1	1	1	1				
Date of Receipt	02/12/2021	02/12/2021	02/12/2021	02/12/2021	02/12/2021	02/12/2021	02/12/2021	02/12/2021	02/12/2021		LOD/LOR	Units	Method No.
SVOC MS													
Phenols													
2-Chlorophenol ^{#M}	<10	<10	<10	<10	<10	<10	<10	<10	<10		<10	ug/kg	TM16/PM8
2-Methylphenol	<10	<10	<10	<10	<10	<10	<10	<10	<10		<10	ug/kg	TM16/PM8
2-Nitrophenol	<10	<10	<10	<10	<10	<10	<10	<10	<10		<10	ug/kg	TM16/PM8
2,4-Dichlorophenol ^{#M}	<10	<10	<10	<10	<10	<10	<10	<10	<10		<10	ug/kg	TM16/PM8
2,4-Dimethylphenol	<10	<10	<10	<10	<10	<10	<10	<10	<10		<10	ug/kg	TM16/PM8
2,4,5-Trichlorophenol	<10	<10	<10	<10	<10	<10	<10	<10	<10		<10	ug/kg	TM16/PM8
2,4,6-Trichlorophenol	<10	<10	<10	<10	<10	<10	<10	<10	<10		<10	ug/kg	TM16/PM8
4-Chloro-3-methylphenol	<10	<10	<10	<10	<10	<10	<10	<10	<10		<10	ug/kg	TM16/PM8
4-Methylphenol	<10	<10	<10	<10	<10	<10	<10	<10	<10		<10	ug/kg	TM16/PM8
4-Nitrophenol	<10	<10	<10	<10	<10	<10	<10	<10	<10		<10	ug/kg	TM16/PM8
Pentachlorophenol	<10	<10	<10	<10	<10	<10	<10	<10	<10		<10	ug/kg	TM16/PM8
Phenol ^{#M}	<10	<10	<10	<10	<10	<10	<10	<10	<10		<10	ug/kg	TM16/PM8
PAHs													
2-Chloronaphthalene ^{#M}	<10	<10	<10	<10	<10	<10	<10	<10	<10		<10	ug/kg	TM16/PM8
2-Methylnaphthalene ^{#M}	<10	<10	<10	<10	<10	<10	<10	<10	<10		<10	ug/kg	TM16/PM8
Phthalates													
Bis(2-ethylhexyl) phthalate	<100	<100	<100	<100	144	<100	<100	<100	<100		<100	ug/kg	TM16/PM8
Butylbenzyl phthalate	<100	<100	16818	792	602	578	<100	756	<100		<100	ug/kg	TM16/PM8
Di-n-butyl phthalate	<100	<100	128	<100	<100	<100	<100	<100	<100		<100	ug/kg	TM16/PM8
Di-n-Octyl phthalate	<100	<100	<100	<100	<100	<100	<100	<100	<100		<100	ug/kg	TM16/PM8
Diethyl phthalate	<100	<100	<100	<100	<100	<100	<100	<100	<100		<100	ug/kg	TM16/PM8
Dimethyl phthalate ^{#M}	<100	<100	<100	<100	<100	<100	<100	<100	<100		<100	ug/kg	TM16/PM8
Other SVOCs													
1,2-Dichlorobenzene	<10	<10	<10	<10	<10	<10	<10	<10	<10		<10	ug/kg	TM16/PM8
1,2,4-Trichlorobenzene ^{#M}	<10	<10	<10	<10	<10	<10	<10	<10	<10		<10	ug/kg	TM16/PM8
1,3-Dichlorobenzene	<10	<10	<10	<10	<10	<10	<10	<10	<10		<10	ug/kg	TM16/PM8
1,4-Dichlorobenzene	<10	<10	<10	<10	<10	<10	<10	<10	<10		<10	ug/kg	TM16/PM8
2-Nitroaniline	<10	<10	<10	<10	<10	<10	<10	<10	<10		<10	ug/kg	TM16/PM8
2,4-Dinitrotoluene	<10	<10	<10	<10	<10	<10	<10	<10	<10		<10	ug/kg	TM16/PM8
2,6-Dinitrotoluene	<10	<10	<10	<10	<10	<10	<10	<10	<10		<10	ug/kg	TM16/PM8
3-Nitroaniline	<10	<10	<10	<10	<10	<10	<10	<10	<10		<10	ug/kg	TM16/PM8
4-Bromophenylphenylether ^{#M}	<10	<10	<10	<10	<10	<10	<10	<10	<10		<10	ug/kg	TM16/PM8
4-Chloroaniline	<10	<10	<10	<10	<10	<10	<10	<10	<10		<10	ug/kg	TM16/PM8
4-Chlorophenylphenylether	<10	<10	<10	<10	<10	<10	<10	<10	<10		<10	ug/kg	TM16/PM8
4-Nitroaniline	<10	<10	<10	<10	<10	<10	<10	<10	<10		<10	ug/kg	TM16/PM8
Azobenzene	<10	<10	<10	<10	<10	<10	<10	<10	<10		<10	ug/kg	TM16/PM8
Bis(2-chloroethoxy)methane	<10	<10	<10	<10	<10	<10	<10	<10	<10		<10	ug/kg	TM16/PM8
Bis(2-chloroethyl)ether	<10	<10	<10	<10	<10	<10	<10	<10	<10		<10	ug/kg	TM16/PM8
Carbazole	<10	<10	63	120	<10	<10	<10	<10	<10		<10	ug/kg	TM16/PM8
Dibenzofuran ^{#M}	<10	<10	<10	<10	<10	<10	<10	<10	<10		<10	ug/kg	TM16/PM8
Hexachlorobenzene	<10	<10	<10	<10	<10	<10	<10	<10	<10		<10	ug/kg	TM16/PM8
Hexachlorobutadiene ^{#M}	<10	<10	<10 ⁺	<10 ⁺	<10 ⁺	<10 ⁺	<10	<10 ⁺	<10		<10	ug/kg	TM16/PM8
Hexachlorocyclopentadiene	<10	<10	<10	<10	<10	<10	<10	<10	<10		<10	ug/kg	TM16/PM8
Hexachloroethane	<10	<10	<10	<10	<10	<10	<10	<10	<10		<10	ug/kg	TM16/PM8
Isophorone ^{#M}	<10	<10	<10	<10	<10	<10	<10	<10	<10		<10	ug/kg	TM16/PM8
N-nitrosodi-n-propylamine ^{#M}	<10	<10	<10	<10	<10	<10	<10	<10	<10		<10	ug/kg	TM16/PM8
Nitrobenzene ^{#M}	<10	<10	<10	<10	<10	<10	<10	<10	<10		<10	ug/kg	TM16/PM8
Surrogate Recovery 2-Fluorobiphenyl	113	109	167 ^{SV}	122	100	87	107	142 ^{SV}	103		<0	%	TM16/PM8
Surrogate Recovery p-Terphenyl-d14	111	109	139 ^{SV}	127	116	130	105	132 ^{SV}	100		<0	%	TM16/PM8

Element Materials Technology

Client Name: EPS Ltd
Reference: UK21.5634
Location: 32 New Lane Havant (Pfizer)
Contact: Marcus Bell
EMT Job No: 21/19082

VOC Report : Solid

EMT Sample No.	1-3	4-6	7-9	10-12	13-15	16-18	19-21	22-24	25-27		Please see attached notes for all abbreviations and acronyms		
Sample ID	TP-BH3 N1	TP-BH3 N2	TP-BH3 S1	TP-BH3 S2	TP-BH3 E1	TP-BH3 E2	TP-BH3 W1	TP-BH3 W2	TP-BH3 B				
Depth	1.00	2.00	1.00	2.00	1.00	2.00	1.00	2.00	2.00				
COC No / misc Containers	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T				
Sample Date	30/11/2021	30/11/2021	30/11/2021	30/11/2021	30/11/2021	30/11/2021	30/11/2021	30/11/2021	30/11/2021				
Sample Type	Clay	Clay	Clay	Clay	Clayey Sand	Clay	Clay	Clay	Clay				
Batch Number	1	1	1	1	1	1	1	1	1				
Date of Receipt	02/12/2021	02/12/2021	02/12/2021	02/12/2021	02/12/2021	02/12/2021	02/12/2021	02/12/2021	02/12/2021				
											LOD/LOR	Units	Method No.
VOC MS													
Dichlorodifluoromethane	<2	<2	<2	<2	<2	<2	<2	<2	<2		<2	ug/kg	TM15/PM10
Methyl Tertiary Butyl Ether #	<2	<2	<2	<2	<2	<2	<2	<2	<2		<2	ug/kg	TM15/PM10
Chloromethane #	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
Vinyl Chloride	<2	<2	<2	<2	<2	<2	<2	<2	<2		<2	ug/kg	TM15_A/PM10
Bromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1		<1	ug/kg	TM15/PM10
Chloroethane #	<2	<2	<2	<2	<2	<2	<2	<2	<2		<2	ug/kg	TM15/PM10
Trichlorofluoromethane #	<2	<2	<2	<2	<2	3	<2	<2	<2		<2	ug/kg	TM15/PM10
1,1-Dichloroethene (1,1 DCE) #	<6	<6	<6	<6	<6	<6	<6	<6	<6		<6	ug/kg	TM15/PM10
Dichloromethane (DCM) #	<7	<7	<7	<7	<7	<7	<7	<7	<7		<7	ug/kg	TM15/PM10
trans-1,2-Dichloroethene #	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
1,1-Dichloroethane #	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
cis-1,2-Dichloroethene #	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
2,2-Dichloropropane	<4	<4	<4	<4	<4	<4	<4	<4	<4		<4	ug/kg	TM15/PM10
Bromochloromethane #	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
Chloroform #	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
1,1,1-Trichloroethane #	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
1,1-Dichloropropene #	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
Carbon tetrachloride #	<4	<4	<4	<4	<4	<4	<4	<4	<4		<4	ug/kg	TM15/PM10
1,2-Dichloroethane #	<4	<4	<4	<4	<4	<4	<4	<4	<4		<4	ug/kg	TM15/PM10
Benzene #	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
Trichloroethene (TCE) #	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
1,2-Dichloropropane #	<6	<6	<6	<6	<6	<6	<6	<6	<6		<6	ug/kg	TM15/PM10
Dibromomethane #	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
Bromodichloromethane #	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
cis-1,3-Dichloropropene	<4	<4	<4	<4	<4	<4	<4	<4	<4		<4	ug/kg	TM15/PM10
Toluene #	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
trans-1,3-Dichloropropene	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
1,1,2-Trichloroethane #	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
Tetrachloroethene (PCE) #	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
1,3-Dichloropropane #	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
Dibromochloromethane #	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
1,2-Dibromoethane #	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
Chlorobenzene #	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
1,1,1,2-Tetrachloroethane #	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
Ethylbenzene #	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
m/p-Xylene #	<5	<5	<5	<5	<5	<5	<5	<5	<5		<5	ug/kg	TM15/PM10
o-Xylene #	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
Styrene	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15_A/PM10
Bromoform	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
Isopropylbenzene #	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
1,1,2,2-Tetrachloroethane #	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
Bromobenzene	<2	<2	<2	<2	<2	<2	<2	<2	<2		<2	ug/kg	TM15/PM10
1,2,3-Trichloropropane #	<4	<4	<4	<4	<4	<4	<4	<4	<4		<4	ug/kg	TM15/PM10
Propylbenzene #	<4	<4	<4	<4	<4	<4	<4	<4	<4		<4	ug/kg	TM15/PM10
2-Chlorotoluene	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
1,3,5-Trimethylbenzene #	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
4-Chlorotoluene	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
tert-Butylbenzene #	<5	<5	<5	<5	<5	<5	<5	<5	<5		<5	ug/kg	TM15/PM10
1,2,4-Trimethylbenzene #	<6	<6	<6	<6	<6	<6	<6	<6	<6		<6	ug/kg	TM15/PM10
sec-Butylbenzene #	<4	<4	<4	<4	<4	<4	<4	<4	<4		<4	ug/kg	TM15/PM10
4-Isopropyltoluene #	<4	<4	<4	<4	<4	<4	<4	<4	<4		<4	ug/kg	TM15/PM10
1,3-Dichlorobenzene #	<4	<4	<4	<4	<4	<4	<4	<4	<4		<4	ug/kg	TM15/PM10
1,4-Dichlorobenzene #	<4	<4	<4	<4	<4	<4	<4	<4	<4		<4	ug/kg	TM15/PM10
n-Butylbenzene #	<4	<4	<4	<4	<4	<4	<4	<4	<4		<4	ug/kg	TM15/PM10
1,2-Dichlorobenzene #	<4	<4	<4	<4	<4	<4	<4	<4	<4		<4	ug/kg	TM15/PM10
1,2-Dibromo-3-chloropropane #	<4	<4	<4	<4	<4	<4	<4	<4	<4		<4	ug/kg	TM15/PM10
1,2,4-Trichlorobenzene	<7	<7	<7	<7	<7	<7	<7	<7	<7		<7	ug/kg	TM15/PM10
Hexachlorobutadiene	<4	<4	<4	<4	<4	<4	<4	<4	<4		<4	ug/kg	TM15/PM10
Naphthalene	<27	<27	<27	<27	<27	<27	<27	<27	<27		<27	ug/kg	TM15/PM10
1,2,3-Trichlorobenzene	<7	<7	<7	<7	<7	<7	<7	<7	<7		<7	ug/kg	TM15/PM10
Surrogate Recovery Toluene D8	103	105	102	103	100	103	106	107	107		<0	%	TM15/PM10
Surrogate Recovery 4-Bromofluorobenzene	102	108	98	100	96	99	102	105	104		<0	%	TM15/PM10

Matrix : Solid

QF-PM 3.1.8 v10

Client Name: EPS Ltd
Reference: UK21.5634
Location: 32 New Lane Havant (Pfizer)
Contact: Marcus Bell

Note:

Asbestos Screen analysis is carried out in accordance with our documented in-house methods PM042 and TM065 and HSG 248 by Stereo and Polarised Light Microscopy using Dispersion Staining Techniques and is covered by our UKAS accreditation. Detailed Gravimetric Quantification and PCOM Fibre Analysis is carried out in accordance with our documented in-house methods PM042 and TM131 and HSG 248 using Stereo and Polarised Light Microscopy and Phase Contrast Optical Microscopy (PCOM). Samples are retained for not less than 6 months from the date of analysis unless specifically requested.

Opinions, including ACM type and Asbestos level less than 0.1%, lie outside the scope of our UKAS accreditation.

Where the sample is not taken by a Element Materials Technology consultant, Element Materials Technology cannot be responsible for inaccurate or unrepresentative sampling.

EMT Job No.	Batch	Sample ID	Depth	EMT Sample No.	Date Of Analysis	Analysis	Result
21/19082	1	TP-BH3 N1	1.00	3	03/12/2021	General Description (Bulk Analysis)	Soil/Stones
					03/12/2021	Asbestos Fibres	NAD
					03/12/2021	Asbestos ACM	NAD
					03/12/2021	Asbestos Type	NAD
					03/12/2021	Asbestos Level Screen	NAD
21/19082	1	TP-BH3 N2	2.00	6	03/12/2021	General Description (Bulk Analysis)	Soil/Stones
					03/12/2021	Asbestos Fibres	NAD
					03/12/2021	Asbestos ACM	NAD
					03/12/2021	Asbestos Type	NAD
					03/12/2021	Asbestos Level Screen	NAD
21/19082	1	TP-BH3 S1	1.00	9	03/12/2021	General Description (Bulk Analysis)	Soil/Stones
					03/12/2021	Asbestos Fibres	NAD
					03/12/2021	Asbestos ACM	NAD
					03/12/2021	Asbestos Type	NAD
					03/12/2021	Asbestos Level Screen	NAD
21/19082	1	TP-BH3 S2	2.00	12	03/12/2021	General Description (Bulk Analysis)	soil/stone
					03/12/2021	Asbestos Fibres	NAD
					03/12/2021	Asbestos ACM	NAD
					03/12/2021	Asbestos Type	NAD
					03/12/2021	Asbestos Level Screen	NAD
21/19082	1	TP-BH3 E1	1.00	15	03/12/2021	General Description (Bulk Analysis)	soil/stone
					03/12/2021	Asbestos Fibres	NAD
					03/12/2021	Asbestos ACM	NAD
					03/12/2021	Asbestos Type	NAD
					03/12/2021	Asbestos Level Screen	NAD
21/19082	1	TP-BH3 E2	2.00	18	03/12/2021	General Description (Bulk Analysis)	soil/stone
					03/12/2021	Asbestos Fibres	NAD
					03/12/2021	Asbestos ACM	NAD
					03/12/2021	Asbestos Type	NAD
					03/12/2021	Asbestos Level Screen	NAD
21/19082	1	TP-BH3 W1	1.00	21	03/12/2021	General Description (Bulk Analysis)	soil
					03/12/2021	Asbestos Fibres	NAD
					03/12/2021	Asbestos ACM	NAD

Client Name: EPS Ltd
Reference: UK21.5634
Location: 32 New Lane Havant (Pfizer)
Contact: Marcus Bell

EMT Job No.	Batch	Sample ID	Depth	EMT Sample No.	Date Of Analysis	Analysis	Result
21/19082	1	TP-BH3 W1	1.00	21	03/12/2021	Asbestos Type	NAD
					03/12/2021	Asbestos Level Screen	NAD
21/19082	1	TP-BH3 W2	2.00	24	03/12/2021	General Description (Bulk Analysis)	soil
					03/12/2021	Asbestos Fibres	NAD
					03/12/2021	Asbestos ACM	NAD
					03/12/2021	Asbestos Type	NAD
					03/12/2021	Asbestos Level Screen	NAD
21/19082	1	TP-BH3 B	2.00	27	03/12/2021	General Description (Bulk Analysis)	soil
					03/12/2021	Asbestos Fibres	NAD
					03/12/2021	Asbestos ACM	NAD
					03/12/2021	Asbestos Type	NAD
					03/12/2021	Asbestos Level Screen	NAD

Client Name: EPS Ltd
Reference: UK21.5634
Location: 32 New Lane Havant (Pfizer)
Contact: Marcus Bell

[illegible]

Please note that only samples that are deviating are mentioned in this report. If no samples are listed it is because none were deviating. Only analyses which are accredited are recorded as deviating if set criteria are not met.

NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

EMT Job No.: 21/19082

SOILS

Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Limits of detection for analyses carried out on as received samples are not moisture content corrected. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

Where a CEN 10:1 ZERO Headspace VOC test has been carried out, a 10:1 ratio of water to wet (as received) soil has been used.

% Asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264 The Survey Guide - Appendix 2 : ACMs in buildings listed in order of ease of fibre release.

Sufficient amount of sample must be received to carry out the testing specified. Where an insufficient amount of sample has been received the testing may not meet the requirements of our accredited methods, as such accreditation may be removed.

Negative Neutralization Potential (NP) values are obtained when the volume of NaOH (0.1N) titrated (pH 8.3) is greater than the volume of HCl (1N) to reduce the pH of the sample to 2.0 - 2.5. Any negative NP values are corrected to 0.

The calculation of Pyrite content assumes that all oxidisable sulphides present in the sample are pyrite. This may not be the case. The calculation may be an overestimate when other sulphides such as Barite (Barium Sulphate) are present.

WATERS

Please note we are not a UK Drinking Water Inspectorate (DWI) Approved Laboratory .

ISO17025 accreditation applies to surface water and groundwater and usually one other matrix which is analysis specific, any other liquids are outside our scope of accreditation.

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

DEVIATING SAMPLES

All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. The temperature of sample receipt is recorded on the confirmation schedules in order that the client can make an informed decision as to whether testing should still be undertaken.

SURROGATES

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

DILUTIONS

A dilution suffix indicates a dilution has been performed and the reported result takes this into account. No further calculation is required.

BLANKS

Where analytes have been found in the blank, the sample will be treated in accordance with our laboratory procedure for dealing with contaminated blanks.

NOTE

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a UKAS requirement for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.

Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.

Please include all sections of this report if it is reproduced

REPORTS FROM THE SOUTH AFRICA LABORATORY

Any method number not prefixed with SA has been undertaken in our UK laboratory unless reported as subcontracted.

Measurement Uncertainty

Measurement uncertainty defines the range of values that could reasonably be attributed to the measured quantity. This range of values has not been included within the reported results. Uncertainty expressed as a percentage can be provided upon request.

ABBREVIATIONS and ACRONYMS USED

#	ISO17025 (UKAS Ref No. 4225) accredited - UK.
SA	ISO17025 (SANAS Ref No.T0729) accredited - South Africa
B	Indicates analyte found in associated method blank.
DR	Dilution required.
M	MCERTS accredited.
NA	Not applicable
NAD	No Asbestos Detected.
ND	None Detected (usually refers to VOC and/SVOC TICs).
NDP	No Determination Possible
SS	Calibrated against a single substance
SV	Surrogate recovery outside performance criteria. This may be due to a matrix effect.
W	Results expressed on as received basis.
+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
>>	Results above calibration range, the result should be considered the minimum value. The actual result could be significantly higher.
*	Analysis subcontracted to an Element Materials Technology approved laboratory.
AD	Samples are dried at 35°C ±5°C
CO	Suspected carry over
LOD/LOR	Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS
ME	Matrix Effect
NFD	No Fibres Detected
BS	AQC Sample
LB	Blank Sample
N	Client Sample
TB	Trip Blank Sample
OC	Outside Calibration Range

HWOL ACRONYMS AND OPERATORS USED

HS	Headspace Analysis.
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent.
CU	Clean-up - e.g. by florisil, silica gel.
1D	GC - Single coil gas chromatography.
Total	Aliphatics & Aromatics.
AL	Aliphatics only.
AR	Aromatics only.
2D	GC-GC - Double coil gas chromatography.
#1	EH_Total but with humics mathematically subtracted
#2	EU_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +).
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total
MS	Mass Spectrometry.

EMT Job No: 21/19082

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/S ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
PM4	Gravimetric measurement of Natural Moisture Content and % Moisture Content at either 35°C or 105°C. Calculation based on ISO 11465:1993(E) and BS1377-2:1990.	PM0	No preparation is required.			AR	
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.			AR	Yes
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.	Yes		AR	Yes
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.	Yes	Yes	AR	Yes
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM16	Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE.			AR	
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM8/PM16	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required/Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE.			AR	Yes
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM8/PM16	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required/Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE.	Yes		AR	Yes
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM8/PM16	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required/Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE.	Yes	Yes	AR	Yes
TM5/TM36	please refer to TM5 and TM36 for method details	PM8/PM12/PM16	please refer to PM8/PM16 and PM12 for method details			AR	Yes
TM5/TM36	please refer to TM5 and TM36 for method details	PM8/PM12/PM16	please refer to PM8/PM16 and PM12 for method details	Yes		AR	Yes

EMT Job No: 21/19082

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
PM13	A visual examination of the solid sample is carried out to ascertain sample make up, colour and any other inclusions. This is not a geotechnical description.	PM0	No preparation is required.			AR	No
TM15	Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.	PM10	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.			AR	Yes
TM15	Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.	PM10	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.	Yes		AR	Yes
TM16	Modified USEPA 8270D v5:2014. Quantitative determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.			AR	Yes
TM16	Modified USEPA 8270D v5:2014. Quantitative determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.	Yes	Yes	AR	Yes
TM17	Modified US EPA method 8270D v5:2014. Determination of specific Polychlorinated Biphenyl congeners by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.	Yes		AR	Yes
TM20	Modified BS 1377-3:1990/USEPA 160.1/3 (TDS/TS: 1971) Gravimetric determination of Total Dissolved Solids/Total Solids	PM0	No preparation is required.			AR	Yes
TM21	Modified BS 7755-3:1995, ISO10694:1995 Determination of Total Organic Carbon or Total Carbon by combustion in an Eltra TOC furnace/analyser in the presence of oxygen. The CO ₂ generated is quantified using infra-red detection. Organic Matter (SOM) calculated as per EA MCERTS Chemical Testing of Soil, March 2012 v4.	PM24	Dried and ground solid samples are washed with hydrochloric acid, then rinsed with deionised water to remove the mineral carbon before TOC analysis.			AD	Yes
TM21	Modified BS 7755-3:1995, ISO10694:1995 Determination of Total Organic Carbon or Total Carbon by combustion in an Eltra TOC furnace/analyser in the presence of oxygen. The CO ₂ generated is quantified using infra-red detection. Organic Matter (SOM) calculated as per EA MCERTS Chemical Testing of Soil, March 2012 v4.	PM24	Dried and ground solid samples are washed with hydrochloric acid, then rinsed with deionised water to remove the mineral carbon before TOC analysis.	Yes		AD	Yes
TM22	Modified BS1377-3:1990 Gravimetric determination of Loss on Ignition by temperature controlled Muffle Furnace (35C-440C). On request modified ASTM D2974-00 LOI (105C-440C)	PM0	No preparation is required.	Yes		AD	Yes

EMT Job No: 21/19082

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM26	Determination of phenols by Reversed Phased High Performance Liquid Chromatography and Electro-Chemical Detection.	PM0	No preparation is required.			AR	Yes
TM26	Determination of phenols by Reversed Phased High Performance Liquid Chromatography and Electro-Chemical Detection.	PM21B	As Received samples are extracted in Methanol: Water (60:40) by reciprocal shaker.			AR	Yes
TM30	Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma – Optical Emission Spectrometry): WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996	PM15	Acid digestion of dried and ground solid samples using Aqua Regia refluxed at 112.5 °C. Samples containing asbestos are not dried and ground.	Yes	Yes	AD	Yes
TM30	Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma – Optical Emission Spectrometry): WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996	PM17	Modified method BS EN12457-2:2002 As received solid samples are leached with water in a 10:1 water to soil ratio for 24 hours, the moisture content of the sample is included in the ratio.	Yes		AR	Yes
TM36	Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GC/FID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested.	PM12	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.			AR	Yes
TM36	Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GC/FID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested.	PM12	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.	Yes		AR	Yes
TM36	Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GC/FID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested.	PM12	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.	Yes	Yes	AR	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013	PM0	No preparation is required.	Yes		AR	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.	Yes	Yes	AD	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.			AR	Yes

EMT Job No: 21/19082

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.	Yes		AR	Yes
TM50	Acid soluble sulphate (Total Sulphate) analysed by ICP-OES	PM29	A hot hydrochloric acid digest is performed on a dried and ground sample, and the resulting liquor is analysed.	Yes	Yes	AD	Yes
TM60	TC/TOC analysis of Waters by High Temperature Combustion followed by NDIR detection. Based on the following modified standard methods: USEPA 9060A (2002), APHA SMEWW 5310B:1999 22nd Edition, ASTM D 7573, and USEPA 415.1.	PM0	No preparation is required.			AR	Yes
TM65	Asbestos Bulk Identification method based on HSG 248 First edition (2006)	PM42	Modified SCA Blue Book V.12 draft 2017 and WM3 1st Edition v1.1:2018. Solid samples undergo a thorough visual inspection for asbestos fibres prior to asbestos identification using TM065.	Yes		AR	
TM73	Modified US EPA methods 150.1 (1982) and 9045D Rev. 4 - 2004) and BS1377-3:1990. Determination of pH by Metrohm automated probe analyser.	PM11	Extraction of as received solid samples using one part solid to 2.5 parts deionised water.	Yes	Yes	AR	No
TM89	Modified USEPA method OIA-1667 (1999). Determination of cyanide by Flow Injection Analyser. Where WAD cyanides are required a Ligand displacement step is carried out before analysis.	PM45	As received solid samples are extracted with 1M NaOH by orbital shaker for Cyanide, Sulphide and Thiocyanate analysis.	Yes	Yes	AR	Yes
TM173	Analysis of fluoride by ISE (Ion Selective Electrode) using modified ISE method 9214 - 340.2 (EPA 1998)	PM0	No preparation is required.			AR	Yes
NONE	No Method Code	NONE	No Method Code			AD	Yes
NONE	No Method Code	PM4	Gravimetric measurement of Natural Moisture Content and % Moisture Content at either 35°C or 105°C. Calculation based on ISO 11465:1993(E) and BS1377-2:1990.			AR	
TM15_A	Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds, Vinyl Chloride & Styrene by Headspace GC-MS.	PM10	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.			AR	Yes

EPS Ltd
7B Caxton House
Broad Street
Cambourne
Cambridgeshire
CB23 6JN



Attention : Marcus Bell
Date : 8th December, 2021
Your reference : UK21.5634
Our reference : Test Report 21/19082 Batch 1
Location : 32 New Lane Havant (Pfizer)
Date samples received : 2nd December, 2021
Status : Final report
Issue : 1.2

Three samples were received for analysis on 2nd December, 2021 of which three were scheduled for analysis. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.

All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

Authorised By:



Bruce Leslie
Project Manager

Please include all sections of this report if it is reproduced

Client Name: EPS Ltd
Reference: UK21.5634
Location: 32 New Lane Havant (Pfizer)
Contact: Marcus Bell
EMT Job No: 21/19082

Solids: V=60g VOC jar. J=250g glass jar. T=plastic tub

Please see attached notes for all abbreviations and acronyms

Element Materials Technology

Client Name: EPS Ltd
Reference: UK21.5634
Location: 32 New Lane Havant (Pfizer)
Contact: Marcus Bell
EMT Job No: 21/19082

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	28-30	31-33	34-36								Please see attached notes for all abbreviations and acronyms		
Sample ID	SP01.1	SP01.2	SP01.3										
Depth													
COC No / misc													
Containers	V J T	V J T	V J T										
Sample Date	30/11/2021	30/11/2021	30/11/2021										
Sample Type	Clay	Clay	Clay										
Batch Number	1	1	1										
Date of Receipt	02/12/2021	02/12/2021	02/12/2021								LOD/LOR	Units	Method No.
TPH CWG													
Aliphatics													
>C5-C6 (HS_1D_AL) ^{#M}	0.1	<0.1	<0.1								<0.1	mg/kg	TM36/PM12
>C6-C8 (HS_1D_AL) ^{#M}	<0.1	<0.1	<0.1								<0.1	mg/kg	TM36/PM12
>C8-C10 (HS_1D_AL)	<0.1	<0.1	<0.1								<0.1	mg/kg	TM36/PM12
>C10-C12 (EH_CU_1D_AL) ^{#M}	<0.2	<0.2	<0.2								<0.2	mg/kg	TM5/PM8/PM16
>C12-C16 (EH_CU_1D_AL) ^{#M}	<4	<4	<4								<4	mg/kg	TM5/PM8/PM16
>C16-C21 (EH_CU_1D_AL) ^{#M}	<7	<7	<7								<7	mg/kg	TM5/PM8/PM16
>C21-C35 (EH_CU_1D_AL) ^{#M}	<7	<7	<7								<7	mg/kg	TM5/PM8/PM16
Total aliphatics C5-35 (EH+HS_CU_1D_AL)	<19	<19	<19								<19	mg/kg	TM5/PM8/PM16/PM12/PM10
Aromatics													
>C5-EC7 (HS_1D_AR) [#]	<0.1	<0.1	<0.1								<0.1	mg/kg	TM36/PM12
>EC7-EC8 (HS_1D_AR) [#]	<0.1	<0.1	<0.1								<0.1	mg/kg	TM36/PM12
>EC8-EC10 (HS_1D_AR) ^{#M}	<0.1	<0.1	<0.1								<0.1	mg/kg	TM36/PM12
>EC10-EC12 (EH_CU_1D_AR) [#]	<0.2	<0.2	<0.2								<0.2	mg/kg	TM5/PM8/PM16
>EC12-EC16 (EH_CU_1D_AR) [#]	<4	<4	<4								<4	mg/kg	TM5/PM8/PM16
>EC16-EC21 (EH_CU_1D_AR) [#]	<7	<7	<7								<7	mg/kg	TM5/PM8/PM16
>EC21-EC35 (EH_CU_1D_AR) [#]	<7	<7	<7								<7	mg/kg	TM5/PM8/PM16
Total aromatics C5-35 (EH+HS_CU_1D_AR) [#]	<19	<19	<19								<19	mg/kg	TM5/PM8/PM16/PM12/PM10
Total aliphatics and aromatics (C5-35) (EH+HS_CU_1D_Total)	<38	<38	<38								<38	mg/kg	TM5/PM8/PM16/PM12/PM10
PCB 28 [#]	<5	<5	<5								<5	ug/kg	TM17/PM8
PCB 52 [#]	<5	<5	<5								<5	ug/kg	TM17/PM8
PCB 101 [#]	<5	<5	<5								<5	ug/kg	TM17/PM8
PCB 118 [#]	<5	<5	<5								<5	ug/kg	TM17/PM8
PCB 138 [#]	<5	<5	<5								<5	ug/kg	TM17/PM8
PCB 153 [#]	<5	<5	<5								<5	ug/kg	TM17/PM8
PCB 180 [#]	<5	<5	<5								<5	ug/kg	TM17/PM8
Total 7 PCBs [#]	<35	<35	<35								<35	ug/kg	TM17/PM8
Natural Moisture Content	14.7	11.5	15.8								<0.1	%	PM4/PM0
Ammoniacal Nitrogen as N	<0.6	<0.6	<0.6								<0.6	mg/kg	TM38/PM20
Hexavalent Chromium [#]	<0.3	<0.3	<0.3								<0.3	mg/kg	TM38/PM20
Chromium III	59.5	65.4	91.7								<0.5	mg/kg	NONE/NONE
Total Organic Carbon [#]	0.12	0.14	0.07								<0.02	%	TM21/PM24
Loss on Ignition [#]	1.8	2.5	1.6								<1.0	%	TM22/PM0
pH ^{#M}	11.23	11.21	9.90								<0.01	pH units	TM73/PM11
Sample Type	Clay	Clay	Clay								None		PM13/PM0
Sample Colour	Medium Brown	Medium Brown	Medium Brown								None		PM13/PM0
Other Items	stones, chalk	stones, chalk	stones, chalk								None		PM13/PM0

Element Materials Technology

Client Name: EPS Ltd
Reference: UK21.5634
Location: 32 New Lane Havant (Pfizer)
Contact: Marcus Bell
EMT Job No: 21/19082

SVOC Report : Solid

EMT Sample No.	28-30	31-33	34-36								Please see attached notes for all abbreviations and acronyms		
Sample ID	SP01.1	SP01.2	SP01.3										
Depth													
COC No / misc													
Containers	V J T	V J T	V J T										
Sample Date	30/11/2021	30/11/2021	30/11/2021										
Sample Type	Clay	Clay	Clay								LOD/LOR	Units	Method No.
Batch Number	1	1	1										
Date of Receipt	02/12/2021	02/12/2021	02/12/2021										
SVOC MS													
Phenols													
2-Chlorophenol ^{#M}	<10	<10	<10								<10	ug/kg	TM16/PM8
2-Methylphenol	<10	<10	<10								<10	ug/kg	TM16/PM8
2-Nitrophenol	<10	<10	<10								<10	ug/kg	TM16/PM8
2,4-Dichlorophenol ^{#M}	<10	<10	<10								<10	ug/kg	TM16/PM8
2,4-Dimethylphenol	<10	<10	<10								<10	ug/kg	TM16/PM8
2,4,5-Trichlorophenol	<10	<10	<10								<10	ug/kg	TM16/PM8
2,4,6-Trichlorophenol	<10	<10	<10								<10	ug/kg	TM16/PM8
4-Chloro-3-methylphenol	<10	<10	<10								<10	ug/kg	TM16/PM8
4-Methylphenol	<10	<10	<10								<10	ug/kg	TM16/PM8
4-Nitrophenol	<10	<10	<10								<10	ug/kg	TM16/PM8
Pentachlorophenol	<10	<10	<10								<10	ug/kg	TM16/PM8
Phenol ^{#M}	<10	<10	<10								<10	ug/kg	TM16/PM8
PAHs													
2-Chloronaphthalene ^{#M}	<10	<10	<10								<10	ug/kg	TM16/PM8
2-Methylnaphthalene ^{#M}	<10	<10	<10								<10	ug/kg	TM16/PM8
Phthalates													
Bis(2-ethylhexyl) phthalate	<100	<100	<100								<100	ug/kg	TM16/PM8
Butylbenzyl phthalate	<100	<100	191								<100	ug/kg	TM16/PM8
Di-n-butyl phthalate	<100	<100	<100								<100	ug/kg	TM16/PM8
Di-n-Octyl phthalate	<100	<100	<100								<100	ug/kg	TM16/PM8
Diethyl phthalate	<100	<100	<100								<100	ug/kg	TM16/PM8
Dimethyl phthalate ^{#M}	<100	<100	<100								<100	ug/kg	TM16/PM8
Other SVOCs													
1,2-Dichlorobenzene	<10	<10	<10								<10	ug/kg	TM16/PM8
1,2,4-Trichlorobenzene ^{#M}	<10	<10	<10								<10	ug/kg	TM16/PM8
1,3-Dichlorobenzene	<10	<10	<10								<10	ug/kg	TM16/PM8
1,4-Dichlorobenzene	<10	<10	<10								<10	ug/kg	TM16/PM8
2-Nitroaniline	<10	<10	<10								<10	ug/kg	TM16/PM8
2,4-Dinitrotoluene	<10	<10	<10								<10	ug/kg	TM16/PM8
2,6-Dinitrotoluene	<10	<10	<10								<10	ug/kg	TM16/PM8
3-Nitroaniline	<10	<10	<10								<10	ug/kg	TM16/PM8
4-Bromophenylphenylether ^{#M}	<10	<10	<10								<10	ug/kg	TM16/PM8
4-Chloroaniline	<10	<10	<10								<10	ug/kg	TM16/PM8
4-Chlorophenylphenylether	<10	<10	<10								<10	ug/kg	TM16/PM8
4-Nitroaniline	<10	<10	<10								<10	ug/kg	TM16/PM8
Azobenzene	<10	<10	<10								<10	ug/kg	TM16/PM8
Bis(2-chloroethoxy)methane	<10	<10	<10								<10	ug/kg	TM16/PM8
Bis(2-chloroethyl)ether	<10	<10	<10								<10	ug/kg	TM16/PM8
Carbazole	<10	32	<10								<10	ug/kg	TM16/PM8
Dibenzofuran ^{#M}	<10	<10	<10								<10	ug/kg	TM16/PM8
Hexachlorobenzene	<10	<10	<10								<10	ug/kg	TM16/PM8
Hexachlorobutadiene ^{#M}	<10	<10	<10								<10	ug/kg	TM16/PM8
Hexachlorocyclopentadiene	<10	<10	<10								<10	ug/kg	TM16/PM8
Hexachloroethane	<10	<10	<10								<10	ug/kg	TM16/PM8
Isophorone ^{#M}	<10	<10	<10								<10	ug/kg	TM16/PM8
N-nitrosodi-n-propylamine ^{#M}	<10	<10	<10								<10	ug/kg	TM16/PM8
Nitrobenzene ^{#M}	<10	<10	<10								<10	ug/kg	TM16/PM8
Surrogate Recovery 2-Fluorobiphenyl	123	112	103								<0	%	TM16/PM8
Surrogate Recovery p-Terphenyl-d14	139 ^{SV}	114	111								<0	%	TM16/PM8

Element Materials Technology

Client Name: EPS Ltd
Reference: UK21.5634
Location: 32 New Lane Havant (Pfizer)
Contact: Marcus Bell
EMT Job No: 21/19082

VOC Report : Solid

EMT Sample No.	28-30	31-33	34-36								Please see attached notes for all abbreviations and acronyms		
Sample ID	SP01.1	SP01.2	SP01.3										
Depth													
COC No / misc													
Containers	V J T	V J T	V J T										
Sample Date	30/11/2021	30/11/2021	30/11/2021										
Sample Type	Clay	Clay	Clay								LOD/LOR	Units	Method No.
Batch Number	1	1	1										
Date of Receipt	02/12/2021	02/12/2021	02/12/2021										
VOC MS													
Dichlorodifluoromethane	<2	<2	<2								<2	ug/kg	TM15/PM10
Methyl Tertiary Butyl Ether #	<2	<2	<2								<2	ug/kg	TM15/PM10
Chloromethane #	<3	<3	<3								<3	ug/kg	TM15/PM10
Vinyl Chloride	<2	<2	<2								<2	ug/kg	TM15_A/PM10
Bromomethane	<1	<1	<1								<1	ug/kg	TM15/PM10
Chloroethane #	<2	<2	<2								<2	ug/kg	TM15/PM10
Trichlorofluoromethane #	3	6	<2								<2	ug/kg	TM15/PM10
1,1-Dichloroethene (1,1 DCE) #	<6	<6	<6								<6	ug/kg	TM15/PM10
Dichloromethane (DCM) #	<7	<7	<7								<7	ug/kg	TM15/PM10
trans-1-2-Dichloroethene #	<3	<3	<3								<3	ug/kg	TM15/PM10
1,1-Dichloroethane #	<3	<3	<3								<3	ug/kg	TM15/PM10
cis-1-2-Dichloroethene #	<3	<3	<3								<3	ug/kg	TM15/PM10
2,2-Dichloropropane	<4	<4	<4								<4	ug/kg	TM15/PM10
Bromochloromethane #	<3	<3	<3								<3	ug/kg	TM15/PM10
Chloroform #	<3	<3	<3								<3	ug/kg	TM15/PM10
1,1,1-Trichloroethane #	<3	<3	<3								<3	ug/kg	TM15/PM10
1,1-Dichloropropene #	<3	<3	<3								<3	ug/kg	TM15/PM10
Carbon tetrachloride #	<4	<4	<4								<4	ug/kg	TM15/PM10
1,2-Dichloroethane #	<4	<4	<4								<4	ug/kg	TM15/PM10
Benzene #	<3	<3	<3								<3	ug/kg	TM15/PM10
Trichloroethene (TCE) #	<3	<3	<3								<3	ug/kg	TM15/PM10
1,2-Dichloropropane #	<6	<6	<6								<6	ug/kg	TM15/PM10
Dibromomethane #	<3	<3	<3								<3	ug/kg	TM15/PM10
Bromodichloromethane #	<3	<3	<3								<3	ug/kg	TM15/PM10
cis-1-3-Dichloropropene	<4	<4	<4								<4	ug/kg	TM15/PM10
Toluene #	<3	<3	<3								<3	ug/kg	TM15/PM10
trans-1-3-Dichloropropene	<3	<3	<3								<3	ug/kg	TM15/PM10
1,1,2-Trichloroethane #	<3	<3	<3								<3	ug/kg	TM15/PM10
Tetrachloroethene (PCE) #	<3	<3	<3								<3	ug/kg	TM15/PM10
1,3-Dichloropropane #	<3	<3	<3								<3	ug/kg	TM15/PM10
Dibromochloromethane #	<3	<3	<3								<3	ug/kg	TM15/PM10
1,2-Dibromoethane #	<3	<3	<3								<3	ug/kg	TM15/PM10
Chlorobenzene #	<3	<3	<3								<3	ug/kg	TM15/PM10
1,1,1,2-Tetrachloroethane #	<3	<3	<3								<3	ug/kg	TM15/PM10
Ethylbenzene #	<3	<3	<3								<3	ug/kg	TM15/PM10
m/p-Xylene #	<5	<5	<5								<5	ug/kg	TM15/PM10
o-Xylene #	<3	<3	<3								<3	ug/kg	TM15/PM10
Styrene	<3	<3	<3								<3	ug/kg	TM15_A/PM10
Bromoform	<3	<3	<3								<3	ug/kg	TM15/PM10
Isopropylbenzene #	<3	<3	<3								<3	ug/kg	TM15/PM10
1,1,2,2-Tetrachloroethane #	<3	<3	<3								<3	ug/kg	TM15/PM10
Bromobenzene	<2	<2	<2								<2	ug/kg	TM15/PM10
1,2,3-Trichloropropane #	<4	<4	<4								<4	ug/kg	TM15/PM10
Propylbenzene #	<4	<4	<4								<4	ug/kg	TM15/PM10
2-Chlorotoluene	<3	<3	<3								<3	ug/kg	TM15/PM10
1,3,5-Trimethylbenzene #	4	<3	<3								<3	ug/kg	TM15/PM10
4-Chlorotoluene	<3	<3	<3								<3	ug/kg	TM15/PM10
tert-Butylbenzene #	<5	<5	<5								<5	ug/kg	TM15/PM10
1,2,4-Trimethylbenzene #	16	<6	<6								<6	ug/kg	TM15/PM10
sec-Butylbenzene #	<4	<4	<4								<4	ug/kg	TM15/PM10
4-Isopropyltoluene #	<4	<4	<4								<4	ug/kg	TM15/PM10
1,3-Dichlorobenzene #	<4	<4	<4								<4	ug/kg	TM15/PM10
1,4-Dichlorobenzene #	<4	<4	<4								<4	ug/kg	TM15/PM10
n-Butylbenzene #	5	<4	<4								<4	ug/kg	TM15/PM10
1,2-Dichlorobenzene #	<4	<4	<4								<4	ug/kg	TM15/PM10
1,2-Dibromo-3-chloropropane #	<4	<4	<4								<4	ug/kg	TM15/PM10
1,2,4-Trichlorobenzene	<7	<7	<7								<7	ug/kg	TM15/PM10
Hexachlorobutadiene	<4	<4	<4								<4	ug/kg	TM15/PM10
Naphthalene	<27	<27	<27								<27	ug/kg	TM15/PM10
1,2,3-Trichlorobenzene	<7	<7	<7								<7	ug/kg	TM15/PM10
Surrogate Recovery Toluene D8	106	105	108								<0	%	TM15/PM10
Surrogate Recovery 4-Bromofluorobenzene	100	104	105								<0	%	TM15/PM10

Mass of sample taken (kg)	-	Moisture Content Ratio (%) =	16.8
Mass of dry sample (kg) =	0.09	Dry Matter Content Ratio (%) =	85.6
Particle Size <4mm =	>95%		
EMT Job No	21/19082	Landfill Waste Acceptance Criteria Limits	
Sample No	30		
Client Sample No	SP01.1		
Depth/Other			
Sample Date	30/11/2021		
Batch No	1		
Solid Waste Analysis		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non- Hazardous Landfill
Total Organic Carbon (%)	0.12	3	5
Loss on Ignition (%)	1.8	-	10
Sum of BTEX (mg/kg)	<0.017	6	-
Sum of 7 PCBs (mg/kg)	<0.035	1	-
Mineral Oil (mg/kg) (EH_CU_1D_AL)	<30	500	-
PAH Sum of 17(mg/kg)	<0.64	100	-
pH (pH Units)	11.23	-	>6
ANC to pH 7 (mol/kg)	-	-	to be evaluated
ANC to pH 4 (mol/kg)	-	-	to be evaluated
Eluate Analysis	10:1 conc ⁿ leached		Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg
	C ₁₀ mg/l	A ₁₀ mg/kg	
Arsenic	<0.0025	<0.025	0.5
Barium	0.017	0.17	20
Cadmium	<0.0005	<0.005	0.04
Chromium	0.0035	0.035	0.5
Copper	<0.007	<0.07	2
Mercury	<0.001	<0.01	0.01
Molybdenum	0.002	0.02	0.5
Nickel	<0.002	<0.02	0.4
Lead	<0.005	<0.05	0.5
Antimony	<0.002	<0.02	0.06
Selenium	<0.003	<0.03	0.1
Zinc	<0.003	<0.03	4
Chloride	0.6	6	800
Fluoride	<0.3	<3	10
Sulphate as SO ₄	40.9	409	1000
Total Dissolved Solids	167	1670	4000
Phenol	<0.01	<0.1	1
Dissolved Organic Carbon	<2	<20	500

Mass of sample taken (kg)	-	Moisture Content Ratio (%) =	15.0
Mass of dry sample (kg) =	0.09	Dry Matter Content Ratio (%) =	86.9
Particle Size <4mm =	>95%		
EMT Job No	21/19082	Landfill Waste Acceptance Criteria Limits	
Sample No	33		
Client Sample No	SP01.2		
Depth/Other			
Sample Date	30/11/2021		
Batch No	1		
Solid Waste Analysis		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non- Hazardous Landfill
Total Organic Carbon (%)	0.14	3	5
Loss on Ignition (%)	2.5	-	10
Sum of BTEX (mg/kg)	<0.017	6	-
Sum of 7 PCBs (mg/kg)	<0.035	1	-
Mineral Oil (mg/kg) (EH_CU_1D_AL)	<30	500	-
PAH Sum of 17(mg/kg)	4.40	100	-
pH (pH Units)	11.21	-	>6
ANC to pH 7 (mol/kg)	-	-	to be evaluated
ANC to pH 4 (mol/kg)	-	-	to be evaluated
Eluate Analysis	10:1 conc ⁿ leached		Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg
	C ₁₀ mg/l	A ₁₀ mg/kg	
Arsenic	0.0044	0.044	0.5
Barium	0.004	0.04	20
Cadmium	<0.0005	<0.005	0.04
Chromium	0.0042	0.042	0.5
Copper	<0.007	<0.07	2
Mercury	<0.001	<0.01	0.01
Molybdenum	0.003	0.03	0.5
Nickel	<0.002	<0.02	0.4
Lead	<0.005	<0.05	0.5
Antimony	<0.002	<0.02	0.06
Selenium	<0.003	<0.03	0.1
Zinc	<0.003	<0.03	4
Chloride	0.7	7	800
Fluoride	<0.3	<3	10
Sulphate as SO ₄	23.4	234	1000
Total Dissolved Solids	128	1281	4000
Phenol	<0.01	<0.1	1
Dissolved Organic Carbon	<2	<20	500

Mass of sample taken (kg)	-	Moisture Content Ratio (%) =	23.8
Mass of dry sample (kg) =	0.09	Dry Matter Content Ratio (%) =	80.8
Particle Size <4mm =	>95%		
EMT Job No	21/19082	Landfill Waste Acceptance Criteria Limits	
Sample No	36		
Client Sample No	SP01.3		
Depth/Other			
Sample Date	30/11/2021		
Batch No	1		
Solid Waste Analysis		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non- Hazardous Landfill
Total Organic Carbon (%)	0.07	3	5
Loss on Ignition (%)	1.6	-	10
Sum of BTEX (mg/kg)	<0.017	6	-
Sum of 7 PCBs (mg/kg)	<0.035	1	-
Mineral Oil (mg/kg) (EH_CU_1D_AL)	<30	500	-
PAH Sum of 17(mg/kg)	<0.64	100	-
pH (pH Units)	9.90	-	>6
ANC to pH 7 (mol/kg)	-	-	to be evaluated
ANC to pH 4 (mol/kg)	-	-	to be evaluated
Eluate Analysis	10:1 conc ⁿ leached		Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg
	C ₁₀ mg/l	A ₁₀ mg/kg	
Arsenic	0.0030	0.030	0.5
Barium	<0.003	<0.03	20
Cadmium	<0.0005	<0.005	0.04
Chromium	0.0070	0.070	0.5
Copper	0.022	0.22	2
Mercury	<0.001	<0.01	0.01
Molybdenum	0.003	0.03	0.5
Nickel	<0.002	<0.02	0.4
Lead	<0.005	<0.05	0.5
Antimony	<0.002	<0.02	0.06
Selenium	<0.003	<0.03	0.1
Zinc	0.019	0.19	4
Chloride	0.8	8	800
Fluoride	0.4	4	10
Sulphate as SO ₄	22.8	228	1000
Total Dissolved Solids	84	840	4000
Phenol	<0.01	<0.1	1
Dissolved Organic Carbon	2	20	500

Matrix : Solid

9 of 18

Client Name: EPS Ltd
Reference: UK21.5634
Location: 32 New Lane Havant (Pfizer)
Contact: Marcus Bell

Note:

Asbestos Screen analysis is carried out in accordance with our documented in-house methods PM042 and TM065 and HSG 248 by Stereo and Polarised Light Microscopy using Dispersion Staining Techniques and is covered by our UKAS accreditation. Detailed Gravimetric Quantification and PCOM Fibre Analysis is carried out in accordance with our documented in-house methods PM042 and TM131 and HSG 248 using Stereo and Polarised Light Microscopy and Phase Contrast Optical Microscopy (PCOM). Samples are retained for not less than 6 months from the date of analysis unless specifically requested.

Opinions, including ACM type and Asbestos level less than 0.1%, lie outside the scope of our UKAS accreditation.

Where the sample is not taken by a Element Materials Technology consultant, Element Materials Technology cannot be responsible for inaccurate or unrepresentative sampling.

[illegible]

Client Name: EPS Ltd
Reference: UK21.5634
Location: 32 New Lane Havant (Pfizer)
Contact: Marcus Bell

[illegible]

Please note that only samples that are deviating are mentioned in this report. If no samples are listed it is because none were deviating. Only analyses which are accredited are recorded as deviating if set criteria are not met.

NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

EMT Job No.: 21/19082

SOILS

Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Limits of detection for analyses carried out on as received samples are not moisture content corrected. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

Where a CEN 10:1 ZERO Headspace VOC test has been carried out, a 10:1 ratio of water to wet (as received) soil has been used.

% Asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264 The Survey Guide - Appendix 2 : ACMs in buildings listed in order of ease of fibre release.

Sufficient amount of sample must be received to carry out the testing specified. Where an insufficient amount of sample has been received the testing may not meet the requirements of our accredited methods, as such accreditation may be removed.

Negative Neutralization Potential (NP) values are obtained when the volume of NaOH (0.1N) titrated (pH 8.3) is greater than the volume of HCl (1N) to reduce the pH of the sample to 2.0 - 2.5. Any negative NP values are corrected to 0.

The calculation of Pyrite content assumes that all oxidisable sulphides present in the sample are pyrite. This may not be the case. The calculation may be an overestimate when other sulphides such as Barite (Barium Sulphate) are present.

WATERS

Please note we are not a UK Drinking Water Inspectorate (DWI) Approved Laboratory .

ISO17025 accreditation applies to surface water and groundwater and usually one other matrix which is analysis specific, any other liquids are outside our scope of accreditation.

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

DEVIATING SAMPLES

All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. The temperature of sample receipt is recorded on the confirmation schedules in order that the client can make an informed decision as to whether testing should still be undertaken.

SURROGATES

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

DILUTIONS

A dilution suffix indicates a dilution has been performed and the reported result takes this into account. No further calculation is required.

BLANKS

Where analytes have been found in the blank, the sample will be treated in accordance with our laboratory procedure for dealing with contaminated blanks.

NOTE

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a UKAS requirement for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.

Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.

Please include all sections of this report if it is reproduced

REPORTS FROM THE SOUTH AFRICA LABORATORY

Any method number not prefixed with SA has been undertaken in our UK laboratory unless reported as subcontracted.

Measurement Uncertainty

Measurement uncertainty defines the range of values that could reasonably be attributed to the measured quantity. This range of values has not been included within the reported results. Uncertainty expressed as a percentage can be provided upon request.

ABBREVIATIONS and ACRONYMS USED

#	ISO17025 (UKAS Ref No. 4225) accredited - UK.
SA	ISO17025 (SANAS Ref No.T0729) accredited - South Africa
B	Indicates analyte found in associated method blank.
DR	Dilution required.
M	MCERTS accredited.
NA	Not applicable
NAD	No Asbestos Detected.
ND	None Detected (usually refers to VOC and/SVOC TICs).
NDP	No Determination Possible
SS	Calibrated against a single substance
SV	Surrogate recovery outside performance criteria. This may be due to a matrix effect.
W	Results expressed on as received basis.
+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
>>	Results above calibration range, the result should be considered the minimum value. The actual result could be significantly higher.
*	Analysis subcontracted to an Element Materials Technology approved laboratory.
AD	Samples are dried at 35°C ±5°C
CO	Suspected carry over
LOD/LOR	Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS
ME	Matrix Effect
NFD	No Fibres Detected
BS	AQC Sample
LB	Blank Sample
N	Client Sample
TB	Trip Blank Sample
OC	Outside Calibration Range

HWOL ACRONYMS AND OPERATORS USED

HS	Headspace Analysis.
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent.
CU	Clean-up - e.g. by florisil, silica gel.
1D	GC - Single coil gas chromatography.
Total	Aliphatics & Aromatics.
AL	Aliphatics only.
AR	Aromatics only.
2D	GC-GC - Double coil gas chromatography.
#1	EH_Total but with humics mathematically subtracted
#2	EU_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +).
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total
MS	Mass Spectrometry.

EMT Job No: 21/19082

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
PM4	Gravimetric measurement of Natural Moisture Content and % Moisture Content at either 35°C or 105°C. Calculation based on ISO 11465:1993(E) and BS1377-2:1990.	PM0	No preparation is required.			AR	
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.			AR	Yes
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.	Yes		AR	Yes
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.	Yes	Yes	AR	Yes
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM16	Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE.			AR	
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM8/PM16	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required/Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE.			AR	Yes
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM8/PM16	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required/Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE.	Yes		AR	Yes
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM8/PM16	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required/Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE.	Yes	Yes	AR	Yes
TM5/TM36	please refer to TM5 and TM36 for method details	PM8/PM12/PM16	please refer to PM8/PM16 and PM12 for method details			AR	Yes
TM5/TM36	please refer to TM5 and TM36 for method details	PM8/PM12/PM16	please refer to PM8/PM16 and PM12 for method details	Yes		AR	Yes

EMT Job No: 21/19082

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
PM13	A visual examination of the solid sample is carried out to ascertain sample make up, colour and any other inclusions. This is not a geotechnical description.	PM0	No preparation is required.			AR	No
TM15	Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.	PM10	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.			AR	Yes
TM15	Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.	PM10	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.	Yes		AR	Yes
TM16	Modified USEPA 8270D v5:2014. Quantitative determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.			AR	Yes
TM16	Modified USEPA 8270D v5:2014. Quantitative determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.	Yes	Yes	AR	Yes
TM17	Modified US EPA method 8270D v5:2014. Determination of specific Polychlorinated Biphenyl congeners by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.	Yes		AR	Yes
TM20	Modified BS 1377-3:1990/USEPA 160.1/3 (TDS/TS: 1971) Gravimetric determination of Total Dissolved Solids/Total Solids	PM0	No preparation is required.			AR	Yes
TM21	Modified BS 7755-3:1995, ISO10694:1995 Determination of Total Organic Carbon or Total Carbon by combustion in an Eltra TOC furnace/analyser in the presence of oxygen. The CO ₂ generated is quantified using infra-red detection. Organic Matter (SOM) calculated as per EA MCERTS Chemical Testing of Soil, March 2012 v4.	PM24	Dried and ground solid samples are washed with hydrochloric acid, then rinsed with deionised water to remove the mineral carbon before TOC analysis.			AD	Yes
TM21	Modified BS 7755-3:1995, ISO10694:1995 Determination of Total Organic Carbon or Total Carbon by combustion in an Eltra TOC furnace/analyser in the presence of oxygen. The CO ₂ generated is quantified using infra-red detection. Organic Matter (SOM) calculated as per EA MCERTS Chemical Testing of Soil, March 2012 v4.	PM24	Dried and ground solid samples are washed with hydrochloric acid, then rinsed with deionised water to remove the mineral carbon before TOC analysis.	Yes		AD	Yes
TM22	Modified BS1377-3:1990 Gravimetric determination of Loss on Ignition by temperature controlled Muffle Furnace (35C-440C). On request modified ASTM D2974-00 LOI (105C-440C)	PM0	No preparation is required.	Yes		AD	Yes

EMT Job No: 21/19082

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM26	Determination of phenols by Reversed Phased High Performance Liquid Chromatography and Electro-Chemical Detection.	PM0	No preparation is required.			AR	Yes
TM26	Determination of phenols by Reversed Phased High Performance Liquid Chromatography and Electro-Chemical Detection.	PM21B	As Received samples are extracted in Methanol: Water (60:40) by reciprocal shaker.			AR	Yes
TM30	Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma – Optical Emission Spectrometry): WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996	PM15	Acid digestion of dried and ground solid samples using Aqua Regia refluxed at 112.5 °C. Samples containing asbestos are not dried and ground.	Yes	Yes	AD	Yes
TM30	Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma – Optical Emission Spectrometry): WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996	PM17	Modified method BS EN12457-2:2002 As received solid samples are leached with water in a 10:1 water to soil ratio for 24 hours, the moisture content of the sample is included in the ratio.	Yes		AR	Yes
TM36	Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GC/FID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested.	PM12	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.			AR	Yes
TM36	Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GC/FID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested.	PM12	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.	Yes		AR	Yes
TM36	Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GC/FID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested.	PM12	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.	Yes	Yes	AR	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013	PM0	No preparation is required.	Yes		AR	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.	Yes	Yes	AD	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.			AR	Yes

EMT Job No: 21/19082

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/S ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.	Yes		AR	Yes
TM50	Acid soluble sulphate (Total Sulphate) analysed by ICP-OES	PM29	A hot hydrochloric acid digest is performed on a dried and ground sample, and the resulting liquor is analysed.	Yes	Yes	AD	Yes
TM60	TC/TOC analysis of Waters by High Temperature Combustion followed by NDIR detection. Based on the following modified standard methods: USEPA 9060A (2002), APHA SMEWW 5310B:1999 22nd Edition, ASTM D 7573, and USEPA 415.1.	PM0	No preparation is required.			AR	Yes
TM65	Asbestos Bulk Identification method based on HSG 248 First edition (2006)	PM42	Modified SCA Blue Book V.12 draft 2017 and WM3 1st Edition v1.1:2018. Solid samples undergo a thorough visual inspection for asbestos fibres prior to asbestos identification using TM065.	Yes		AR	
TM73	Modified US EPA methods 150.1 (1982) and 9045D Rev. 4 - 2004) and BS1377-3:1990. Determination of pH by Metrohm automated probe analyser.	PM11	Extraction of as received solid samples using one part solid to 2.5 parts deionised water.	Yes	Yes	AR	No
TM89	Modified USEPA method OIA-1667 (1999). Determination of cyanide by Flow Injection Analyser. Where WAD cyanides are required a Ligand displacement step is carried out before analysis.	PM45	As received solid samples are extracted with 1M NaOH by orbital shaker for Cyanide, Sulphide and Thiocyanate analysis.	Yes	Yes	AR	Yes
TM173	Analysis of fluoride by ISE (Ion Selective Electrode) using modified ISE method 9214 - 340.2 (EPA 1998)	PM0	No preparation is required.			AR	Yes
NONE	No Method Code	NONE	No Method Code			AD	Yes
NONE	No Method Code	PM4	Gravimetric measurement of Natural Moisture Content and % Moisture Content at either 35°C or 105°C. Calculation based on ISO 11465:1993(E) and BS1377-2:1990.			AR	
TM15_A	Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds, Vinyl Chloride & Styrene by Headspace GC-MS.	PM10	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.			AR	Yes

EPS Ltd
7B Caxton House
Broad Street
Cambourne
Cambridgeshire
CB23 6JN



Attention : Marcus Bell
Date : 18th November, 2021
Your reference : UK21.5634
Our reference : Test Report 21/17757 Batch 1
Location : 32 New Lane Havant (Pfizer) PO9 2NG
Date samples received : 10th November, 2021
Status : Final Report
Issue : 1

Eleven samples were received for analysis on 10th November, 2021 of which eleven were scheduled for analysis. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.

All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

Authorised By:



Hayley Prowse
Project Manager

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All solid results are expressed on a dry weight basis unless stated otherwise.

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Element Materials Technology

Client Name: EPS Ltd
Reference: UK21.5634
Location: 32 New Lane Havant (Pfizer) PO9 2NG
Contact: Marcus Bell
EMT Job No: 21/17757

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	1-3	4-6	7-9	10-12	13-15	16-18	19-21	22-24	25-27	28-30	Please see attached notes for all abbreviations and acronyms		
Sample ID	TP101 B9	TP101 B9	TP102 B10	TP102 B10	TP103 B11	TP103 B11	TP104 B11 (E)	TP104 B11 (E)	SP BEACH 1	SP BEACH 2			
Depth	1.00	1.40	0.40	1.30	0.60	1.30	0.60	1.30					
COC No / misc													
Containers	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T			
Sample Date	08/11/2021	08/11/2021	08/11/2021	08/11/2021	08/11/2021	08/11/2021	08/11/2021	08/11/2021	08/11/2021	08/11/2021			
Sample Type	Sand	Sand	Clay	Clay	Clay	Clay	Clay	Other (Solid)	Other (Solid)	Other (Solid)			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	10/11/2021	10/11/2021	10/11/2021	10/11/2021	10/11/2021	10/11/2021	10/11/2021	10/11/2021	10/11/2021	10/11/2021	LOD/LOR	Units	Method No.
TPH CWG													
Aliphatics													
>C5-C6 (HS_1D_AL)	-	-	-	-	-	-	-	<0.1	0.2	<0.1	<0.1	mg/kg	TM36/PM12
>C5-C6 (HS_1D_AL) ^{#M}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	<0.1	mg/kg	TM36/PM12
>C6-C8 (HS_1D_AL)	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>C6-C8 (HS_1D_AL) ^{#M}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	<0.1	mg/kg	TM36/PM12
>C8-C10 (HS_1D_AL)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>C10-C12 (EH_CU_1D_AL)	-	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.2	mg/kg	TM5/PM8/PM16
>C10-C12 (EH_CU_1D_AL) ^{#M}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	<0.2	mg/kg	TM5/PM8/PM16
>C12-C16 (EH_CU_1D_AL)	-	-	-	-	-	-	-	<4	<4	<4	<4	mg/kg	TM5/PM8/PM16
>C12-C16 (EH_CU_1D_AL) ^{#M}	<4	<4	<4	<4	<4	<4	<4	-	-	-	<4	mg/kg	TM5/PM8/PM16
>C16-C21 (EH_CU_1D_AL)	-	-	-	-	-	-	-	<7	<7	<7	<7	mg/kg	TM5/PM8/PM16
>C16-C21 (EH_CU_1D_AL) ^{#M}	<7	<7	<7	<7	<7	<7	<7	-	-	-	<7	mg/kg	TM5/PM8/PM16
>C21-C35 (EH_CU_1D_AL)	-	-	-	-	-	-	-	<7	<7	<7	<7	mg/kg	TM5/PM8/PM16
>C21-C35 (EH_CU_1D_AL) ^{#M}	<7	<7	<7	<7	<7	<7	<7	-	-	-	<7	mg/kg	TM5/PM8/PM16
Total aliphatics C5-35 (EH+HS_CU_1D_AL)	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	mg/kg	TM5/PM8/PM16
Aromatics													
>C5-EC7 (HS_1D_AR)	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>C5-EC7 (HS_1D_AR) [#]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	<0.1	mg/kg	TM36/PM12
>EC7-EC8 (HS_1D_AR)	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>EC7-EC8 (HS_1D_AR) [#]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	<0.1	mg/kg	TM36/PM12
>EC8-EC10 (HS_1D_AR)	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>EC8-EC10 (HS_1D_AR) ^{#M}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	<0.1	mg/kg	TM36/PM12
>EC10-EC12 (EH_CU_1D_AR)	-	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.2	mg/kg	TM5/PM8/PM16
>EC10-EC12 (EH_CU_1D_AR) [#]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	<0.2	mg/kg	TM5/PM8/PM16
>EC12-EC16 (EH_CU_1D_AR)	-	-	-	-	-	-	-	<4	<4	<4	<4	mg/kg	TM5/PM8/PM16
>EC12-EC16 (EH_CU_1D_AR) [#]	<4	<4	<4	<4	<4	<4	<4	-	-	-	<4	mg/kg	TM5/PM8/PM16
>EC16-EC21 (EH_CU_1D_AR)	-	-	-	-	-	-	-	<7	<7	<7	<7	mg/kg	TM5/PM8/PM16
>EC16-EC21 (EH_CU_1D_AR) [#]	<7	<7	<7	<7	<7	<7	<7	-	-	-	<7	mg/kg	TM5/PM8/PM16
>EC21-EC35 (EH_CU_1D_AR)	-	-	-	-	-	-	-	<7	<7	<7	<7	mg/kg	TM5/PM8/PM16
>EC21-EC35 (EH_CU_1D_AR) [#]	<7	<7	<7	<7	<7	<7	<7	-	-	-	<7	mg/kg	TM5/PM8/PM16
Total aromatics C5-35 (EH+HS_CU_1D_AR)	-	-	-	-	-	-	-	<19	<19	<19	<19	mg/kg	TM5/PM8/PM16
Total aromatics C5-35 (EH+HS_CU_1D_AR) [#]	<19	<19	<19	<19	<19	<19	<19	-	-	-	<19	mg/kg	TM5/PM8/PM16
Total aliphatics and aromatics (C5-35) (EH+HS_CU_1D_Total)	<38	<38	<38	<38	<38	<38	<38	<38	<38	<38	<38	mg/kg	TM5/PM8/PM16
MTBE													
MTBE	-	-	-	-	-	-	-	<5	<5	<5	<5	ug/kg	TM36/PM12
MTBE [#]	<5	<5	<5	<5	<5	<5	<5	-	-	-	<5	ug/kg	TM36/PM12
Benzene	-	-	-	-	-	-	-	<5	<5	<5	<5	ug/kg	TM36/PM12
Benzene [#]	<5	<5	<5	<5	<5	<5	<5	-	-	-	<5	ug/kg	TM36/PM12
Toluene	-	-	-	-	-	-	-	<5	<5	<5	<5	ug/kg	TM36/PM12
Toluene [#]	<5	<5	<5	<5	<5	<5	<5	-	-	-	<5	ug/kg	TM36/PM12
Ethylbenzene	-	-	-	-	-	-	-	<5	<5	<5	<5	ug/kg	TM36/PM12
Ethylbenzene [#]	<5	<5	<5	<5	<5	<5	<5	-	-	-	<5	ug/kg	TM36/PM12
m/p-Xylene	-	-	-	-	-	-	-	<5	<5	<5	<5	ug/kg	TM36/PM12

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All solid results are expressed on a dry weight basis unless stated otherwise.

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Client Name: EPS Ltd
Reference: UK21.5634
Location: 32 New Lane Havant (Pfizer) PO9 2NG
Contact: Marcus Bell
EMT Job No: 21/17757

[illegible]

Element Materials Technology

Client Name: EPS Ltd
Reference: UK21.5634
Location: 32 New Lane Havant (Pfizer) PO9 2NG
Contact: Marcus Bell
EMT Job No: 21/17757

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	31-33										Please see attached notes for all abbreviations and acronyms				
Sample ID	SP BEACH 3														
Depth															
COC No / misc															
Containers	V J T														
Sample Date	08/11/2021														
Sample Type	Other (Solid)														
Batch Number	1														
Date of Receipt	10/11/2021											LOD/LOR	Units	Method No.	
PAH MS															
Naphthalene	<0.04											<0.04	mg/kg	TM4/PM8	
Naphthalene ^{#M}	-											<0.04	mg/kg	TM4/PM8	
Acenaphthylene	<0.03											<0.03	mg/kg	TM4/PM8	
Acenaphthene	<0.05											<0.05	mg/kg	TM4/PM8	
Acenaphthene ^{#M}	-											<0.05	mg/kg	TM4/PM8	
Fluorene	<0.04											<0.04	mg/kg	TM4/PM8	
Fluorene ^{#M}	-											<0.04	mg/kg	TM4/PM8	
Phenanthrene	<0.03											<0.03	mg/kg	TM4/PM8	
Phenanthrene ^{#M}	-											<0.03	mg/kg	TM4/PM8	
Anthracene	<0.04											<0.04	mg/kg	TM4/PM8	
Anthracene [#]	-											<0.04	mg/kg	TM4/PM8	
Fluoranthene	<0.03											<0.03	mg/kg	TM4/PM8	
Fluoranthene ^{#M}	-											<0.03	mg/kg	TM4/PM8	
Pyrene	<0.03											<0.03	mg/kg	TM4/PM8	
Pyrene [#]	-											<0.03	mg/kg	TM4/PM8	
Benzo(a)anthracene	<0.06											<0.06	mg/kg	TM4/PM8	
Benzo(a)anthracene [#]	-											<0.06	mg/kg	TM4/PM8	
Chrysene	<0.02											<0.02	mg/kg	TM4/PM8	
Chrysene ^{#M}	-											<0.02	mg/kg	TM4/PM8	
Benzo(bk)fluoranthene	<0.07											<0.07	mg/kg	TM4/PM8	
Benzo(bk)fluoranthene ^{#M}	-											<0.07	mg/kg	TM4/PM8	
Benzo(a)pyrene	<0.04											<0.04	mg/kg	TM4/PM8	
Benzo(a)pyrene [#]	-											<0.04	mg/kg	TM4/PM8	
Indeno(123cd)pyrene	<0.04											<0.04	mg/kg	TM4/PM8	
Indeno(123cd)pyrene ^{#M}	-											<0.04	mg/kg	TM4/PM8	
Dibenzo(ah)anthracene	<0.04											<0.04	mg/kg	TM4/PM8	
Dibenzo(ah)anthracene [#]	-											<0.04	mg/kg	TM4/PM8	
Benzo(ghi)perylene	<0.04											<0.04	mg/kg	TM4/PM8	
Benzo(ghi)perylene [#]	-											<0.04	mg/kg	TM4/PM8	
PAH 16 Total	<0.6											<0.6	mg/kg	TM4/PM8	
Benzo(b)fluoranthene	<0.05											<0.05	mg/kg	TM4/PM8	
Benzo(k)fluoranthene	<0.02											<0.02	mg/kg	TM4/PM8	
PAH Surrogate % Recovery	97											<0	%	TM4/PM8	

Matrix : Solid

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Client Name: EPS Ltd
Reference: UK21.5634
Location: 32 New Lane Havant (Pfizer) PO9 2NG
Contact: Marcus Bell

Note:

Asbestos Screen analysis is carried out in accordance with our documented in-house methods PM042 and TM065 and HSG 248 by Stereo and Polarised Light Microscopy using Dispersion Staining Techniques and is covered by our UKAS accreditation. Detailed Gravimetric Quantification and PCOM Fibre Analysis is carried out in accordance with our documented in-house methods PM042 and TM131 and HSG 248 using Stereo and Polarised Light Microscopy and Phase Contrast Optical Microscopy (PCOM). Samples are retained for not less than 6 months from the date of analysis unless specifically requested.

Opinions, including ACM type and Asbestos level less than 0.1%, lie outside the scope of our UKAS accreditation.

Where the sample is not taken by a Element Materials Technology consultant, Element Materials Technology cannot be responsible for inaccurate or unrepresentative sampling.

EMT Job No.	Batch	Sample ID	Depth	EMT Sample No.	Date Of Analysis	Analysis	Result
21/17757	1	TP101 B9	1.00	3	15/11/2021	General Description (Bulk Analysis)	glass/soil
					15/11/2021	Asbestos Fibres	NAD
					15/11/2021	Asbestos ACM	NAD
					15/11/2021	Asbestos Type	NAD
					15/11/2021	Asbestos Level Screen	NAD
21/17757	1	TP101 B9	1.40	6	15/11/2021	General Description (Bulk Analysis)	glass
					15/11/2021	Asbestos Fibres	NAD
					15/11/2021	Asbestos ACM	NAD
					15/11/2021	Asbestos Type	NAD
					15/11/2021	Asbestos Level Screen	NAD
21/17757	1	TP102 B10	0.40	9	15/11/2021	General Description (Bulk Analysis)	soil/stone
					15/11/2021	Asbestos Fibres	NAD
					15/11/2021	Asbestos ACM	NAD
					15/11/2021	Asbestos Type	NAD
					15/11/2021	Asbestos Level Screen	NAD
21/17757	1	TP102 B10	1.30	12	15/11/2021	General Description (Bulk Analysis)	soil
					15/11/2021	Asbestos Fibres	NAD
					15/11/2021	Asbestos ACM	NAD
					15/11/2021	Asbestos Type	NAD
					15/11/2021	Asbestos Level Screen	NAD
21/17757	1	TP103 B11	0.60	15	15/11/2021	General Description (Bulk Analysis)	soil
					15/11/2021	Asbestos Fibres	NAD
					15/11/2021	Asbestos ACM	NAD
					15/11/2021	Asbestos Type	NAD
					15/11/2021	Asbestos Level Screen	NAD
21/17757	1	TP103 B11	1.30	18	15/11/2021	General Description (Bulk Analysis)	soil
					15/11/2021	Asbestos Fibres	NAD
					15/11/2021	Asbestos ACM	NAD
					15/11/2021	Asbestos Type	NAD
					15/11/2021	Asbestos Level Screen	NAD
21/17757	1	TP104 B11 (E)	0.60	21	15/11/2021	General Description (Bulk Analysis)	soil/stone
					15/11/2021	Asbestos Fibres	NAD
					15/11/2021	Asbestos ACM	NAD

Client Name: EPS Ltd
Reference: UK21.5634
Location: 32 New Lane Havant (Pfizer) PO9 2NG
Contact: Marcus Bell

EMT Job No.	Batch	Sample ID	Depth	EMT Sample No.	Date Of Analysis	Analysis	Result
21/17757	1	TP104 B11 (E)	0.60	21	15/11/2021	Asbestos Type	NAD
					15/11/2021	Asbestos Level Screen	NAD
21/17757	1	TP104 B11 (E)	1.30	24	15/11/2021	General Description (Bulk Analysis)	stones
					15/11/2021	Asbestos Fibres	NAD
					15/11/2021	Asbestos ACM	NAD
					15/11/2021	Asbestos Type	NAD
					15/11/2021	Asbestos Level Screen	NAD
21/17757	1	SP BEACH 1		27	15/11/2021	General Description (Bulk Analysis)	stones
					15/11/2021	Asbestos Fibres	NAD
					15/11/2021	Asbestos ACM	NAD
					15/11/2021	Asbestos Type	NAD
					15/11/2021	Asbestos Level Screen	NAD
21/17757	1	SP BEACH 2		30	12/11/2021	General Description (Bulk Analysis)	Stones
					12/11/2021	Asbestos Fibres	NAD
					12/11/2021	Asbestos ACM	NAD
					12/11/2021	Asbestos Type	NAD
					12/11/2021	Asbestos Level Screen	NAD
21/17757	1	SP BEACH 3		33	12/11/2021	General Description (Bulk Analysis)	Stones
					12/11/2021	Asbestos Fibres	NAD
					12/11/2021	Asbestos ACM	NAD
					12/11/2021	Asbestos Type	NAD
					12/11/2021	Asbestos Level Screen	NAD

Client Name: EPS Ltd
Reference: UK21.5634
Location: 32 New Lane Havant (Pfizer) PO9 2NG
Contact: Marcus Bell

[illegible]

Please note that only samples that are deviating are mentioned in this report. If no samples are listed it is because none were deviating. Only analyses which are accredited are recorded as deviating if set criteria are not met.

NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

EMT Job No.: 21/17757

SOILS

Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Limits of detection for analyses carried out on as received samples are not moisture content corrected. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

Where a CEN 10:1 ZERO Headspace VOC test has been carried out, a 10:1 ratio of water to wet (as received) soil has been used.

% Asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264 The Survey Guide - Appendix 2 : ACMs in buildings listed in order of ease of fibre release.

Sufficient amount of sample must be received to carry out the testing specified. Where an insufficient amount of sample has been received the testing may not meet the requirements of our accredited methods, as such accreditation may be removed.

Negative Neutralization Potential (NP) values are obtained when the volume of NaOH (0.1N) titrated (pH 8.3) is greater than the volume of HCl (1N) to reduce the pH of the sample to 2.0 - 2.5. Any negative NP values are corrected to 0.

The calculation of Pyrite content assumes that all oxidisable sulphides present in the sample are pyrite. This may not be the case. The calculation may be an overestimate when other sulphides such as Barite (Barium Sulphate) are present.

WATERS

Please note we are not a UK Drinking Water Inspectorate (DWI) Approved Laboratory .

ISO17025 accreditation applies to surface water and groundwater and usually one other matrix which is analysis specific, any other liquids are outside our scope of accreditation.

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

DEVIATING SAMPLES

All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. The temperature of sample receipt is recorded on the confirmation schedules in order that the client can make an informed decision as to whether testing should still be undertaken.

SURROGATES

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

DILUTIONS

A dilution suffix indicates a dilution has been performed and the reported result takes this into account. No further calculation is required.

BLANKS

Where analytes have been found in the blank, the sample will be treated in accordance with our laboratory procedure for dealing with contaminated blanks.

NOTE

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a UKAS requirement for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.

Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.

REPORTS FROM THE SOUTH AFRICA LABORATORY

Any method number not prefixed with SA has been undertaken in our UK laboratory unless reported as subcontracted.

Measurement Uncertainty

Measurement uncertainty defines the range of values that could reasonably be attributed to the measured quantity. This range of values has not been included within the reported results. Uncertainty expressed as a percentage can be provided upon request.

ABBREVIATIONS and ACRONYMS USED

#	ISO17025 (UKAS Ref No. 4225) accredited - UK.
SA	ISO17025 (SANAS Ref No.T0729) accredited - South Africa
B	Indicates analyte found in associated method blank.
DR	Dilution required.
M	MCERTS accredited.
NA	Not applicable
NAD	No Asbestos Detected.
ND	None Detected (usually refers to VOC and/SVOC TICs).
NDP	No Determination Possible
SS	Calibrated against a single substance
SV	Surrogate recovery outside performance criteria. This may be due to a matrix effect.
W	Results expressed on as received basis.
+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
>>	Results above calibration range, the result should be considered the minimum value. The actual result could be significantly higher.
*	Analysis subcontracted to an Element Materials Technology approved laboratory.
AD	Samples are dried at 35°C ±5°C
CO	Suspected carry over
LOD/LOR	Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS
ME	Matrix Effect
NFD	No Fibres Detected
BS	AQC Sample
LB	Blank Sample
N	Client Sample
TB	Trip Blank Sample
OC	Outside Calibration Range

HWOL ACRONYMS AND OPERATORS USED

HS	Headspace Analysis.
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent.
CU	Clean-up - e.g. by florisil, silica gel.
1D	GC - Single coil gas chromatography.
Total	Aliphatics & Aromatics.
AL	Aliphatics only.
AR	Aromatics only.
2D	GC-GC - Double coil gas chromatography.
#1	EH_Total but with humics mathematically subtracted
#2	EU_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +).
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total
MS	Mass Spectrometry.

EMT Job No: 21/17757

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/S ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
PM4	Gravimetric measurement of Natural Moisture Content and % Moisture Content at either 35°C or 105°C. Calculation based on ISO 11465:1993(E) and BS1377-2:1990.	PM0	No preparation is required.			AR	
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.			AR	Yes
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.	Yes		AR	Yes
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.	Yes	Yes	AR	Yes
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM16	Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE.			AR	
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM8/PM16	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required/Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE.			AR	Yes
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM8/PM16	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required/Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE.	Yes		AR	Yes
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM8/PM16	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required/Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE.	Yes	Yes	AR	Yes
TM5/TM36	please refer to TM5 and TM36 for method details	PM8/PM12/PM16	please refer to PM8/PM16 and PM12 for method details			AR	Yes
TM5/TM36	please refer to TM5 and TM36 for method details	PM8/PM12/PM16	please refer to PM8/PM16 and PM12 for method details	Yes		AR	Yes

EMT Job No: 21/17757

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/S ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
PM13	A visual examination of the solid sample is carried out to ascertain sample make up, colour and any other inclusions. This is not a geotechnical description.	PM0	No preparation is required.			AR	No
TM21	Modified BS 7755-3:1995, ISO10694:1995 Determination of Total Organic Carbon or Total Carbon by combustion in an Eltra TOC furnace/analyser in the presence of oxygen. The CO ₂ generated is quantified using infra-red detection. Organic Matter (SOM) calculated as per EA MCERTS Chemical Testing of Soil, March 2012 v4.	PM24	Dried and ground solid samples are washed with hydrochloric acid, then rinsed with deionised water to remove the mineral carbon before TOC analysis.			AD	Yes
TM26	Determination of phenols by Reversed Phased High Performance Liquid Chromatography and Electro-Chemical Detection.	PM21B	As Received samples are extracted in Methanol: Water (60:40) by reciprocal shaker.			AR	Yes
TM30	Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma –Optical Emission Spectrometry): WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEPA 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996	PM15	Acid digestion of dried and ground solid samples using Aqua Regia refluxed at 112.5 °C. Samples containing asbestos are not dried and ground.			AD	Yes
TM30	Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma –Optical Emission Spectrometry): WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEPA 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996	PM15	Acid digestion of dried and ground solid samples using Aqua Regia refluxed at 112.5 °C. Samples containing asbestos are not dried and ground.	Yes	Yes	AD	Yes
TM36	Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GC/FID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested.	PM12	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.			AR	Yes
TM36	Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GC/FID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested.	PM12	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.	Yes		AR	Yes
TM36	Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GC/FID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested.	PM12	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.	Yes	Yes	AR	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH ₄ ⁺ 350.1 (Rev.2 1993) –Al anions comparable to BS ISO 15923-1: 2013	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.			AD	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH ₄ ⁺ 350.1 (Rev.2 1993) –Al anions comparable to BS ISO 15923-1: 2013	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.	Yes	Yes	AD	Yes

EMT Job No: 21/17757

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) –Al anions comparable to BS ISO 15923-1: 2013	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.			AR	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) –Al anions comparable to BS ISO 15923-1: 2013	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.	Yes		AR	Yes
TM50	Acid soluble sulphate (Total Sulphate) analysed by ICP-OES	PM29	A hot hydrochloric acid digest is performed on a dried and ground sample, and the resulting liquor is analysed.			AD	Yes
TM50	Acid soluble sulphate (Total Sulphate) analysed by ICP-OES	PM29	A hot hydrochloric acid digest is performed on a dried and ground sample, and the resulting liquor is analysed.	Yes	Yes	AD	Yes
TM65	Asbestos Bulk Identification method based on HSG 248 First edition (2006)	PM42	Modified SCA Blue Book V.12 draft 2017 and WM3 1st Edition v1.1:2018. Solid samples undergo a thorough visual inspection for asbestos fibres prior to asbestos identification using TM065.	Yes		AR	
TM73	Modified US EPA methods 150.1 (1982) and 9045D Rev. 4 - 2004) and BS1377-3:1990. Determination of pH by Metrohm automated probe analyser.	PM11	Extraction of as received solid samples using one part solid to 2.5 parts deionised water.			AR	No
TM73	Modified US EPA methods 150.1 (1982) and 9045D Rev. 4 - 2004) and BS1377-3:1990. Determination of pH by Metrohm automated probe analyser.	PM11	Extraction of as received solid samples using one part solid to 2.5 parts deionised water.	Yes	Yes	AR	No
TM89	Modified USEPA method OIA-1667 (1999). Determination of cyanide by Flow Injection Analyser. Where WAD cyanides are required a Ligand displacement step is carried out before analysis.	PM45	As received solid samples are extracted with 1M NaOH by orbital shaker for Cyanide, Sulphide and Thiocyanate analysis.			AR	Yes
TM89	Modified USEPA method OIA-1667 (1999). Determination of cyanide by Flow Injection Analyser. Where WAD cyanides are required a Ligand displacement step is carried out before analysis.	PM45	As received solid samples are extracted with 1M NaOH by orbital shaker for Cyanide, Sulphide and Thiocyanate analysis.	Yes	Yes	AR	Yes
NONE	No Method Code	NONE	No Method Code			AD	Yes

EPS Ltd
7B Caxton House
Broad Street
Cambourne
Cambridgeshire
CB23 6JN



Attention : Paul O'Connor
Date : 25th November, 2021
Your reference : UK21.5634
Our reference : Test Report 21/18437 Batch 1
Location : Pfizer Havant
Date samples received : 20th November, 2021
Status : Final Report
Issue : 1

Eight samples were received for analysis on 20th November, 2021 of which eight were scheduled for analysis. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.
All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

Authorised By:



Hayley Prowse
Project Manager

Please include all sections of this report if it is reproduced

Element Materials Technology

Client Name: EPS Ltd
Reference: UK21.5634
Location: Pfizer Havant
Contact: Paul O'Connor
EMT Job No: 21/18437

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	1-3	4-6	7-9	10-12	13-15	16-18	19-21	22-24			Please see attached notes for all abbreviations and acronyms		
Sample ID	TP105 B8	TP105 B8	TP106 C7	TP106 C7	TP107 B4	TP107 B4	TP108 C3	TP108 C3					
Depth	1.00	1.80	1.00	2.00	1.00	1.80	1.00	2.00					
COC No / misc													
Containers	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T					
Sample Date	18/11/2021	18/11/2021	18/11/2021	18/11/2021	18/11/2021	18/11/2021	18/11/2021	18/11/2021					
Sample Type	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay					
Batch Number	1	1	1	1	1	1	1	1					
Date of Receipt	20/11/2021	20/11/2021	20/11/2021	20/11/2021	20/11/2021	20/11/2021	20/11/2021	20/11/2021			LOD/LOR	Units	Method No.
Arsenic ^{#M}	12.4	6.6	5.9	7.1	6.5	51.4	8.6	8.1			<0.5	mg/kg	TM30/PM15
Cadmium ^{#M}	1.0	0.9	0.6	0.8	0.3	0.1	0.2	1.8			<0.1	mg/kg	TM30/PM15
Chromium ^{#M}	57.5	189.3	38.6	68.1	63.2	21.1	70.2	66.7			<0.5	mg/kg	TM30/PM15
Copper ^{#M}	8	9	7	8	7	4	11	51			<1	mg/kg	TM30/PM15
Lead ^{#M}	14	7	7	8	9	24	19	43			<5	mg/kg	TM30/PM15
Mercury ^{#M}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	0.8			<0.1	mg/kg	TM30/PM15
Nickel ^{#M}	25.1	21.3	11.3	19.6	11.7	12.5	17.8	27.9			<0.7	mg/kg	TM30/PM15
Selenium ^{#M}	2	1	<1	1	<1	<1	<1	<1			<1	mg/kg	TM30/PM15
Total Sulphate as SO4 ^{#M}	446	604	85	126	932	819	414	147			<50	mg/kg	TM50/PM29
Zinc ^{#M}	84	33	34	34	26	71	48	584			<5	mg/kg	TM30/PM15
PAH MS													
Naphthalene ^{#M}	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04			<0.04	mg/kg	TM4/PM8
Acenaphthylene	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03			<0.03	mg/kg	TM4/PM8
Acenaphthene ^{#M}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05			<0.05	mg/kg	TM4/PM8
Fluorene ^{#M}	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04			<0.04	mg/kg	TM4/PM8
Phenanthrene ^{#M}	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03			<0.03	mg/kg	TM4/PM8
Anthracene [#]	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04			<0.04	mg/kg	TM4/PM8
Fluoranthene ^{#M}	<0.03	<0.03	<0.03	<0.03	0.06	<0.03	<0.03	0.05			<0.03	mg/kg	TM4/PM8
Pyrene [#]	<0.03	<0.03	<0.03	<0.03	0.06	<0.03	<0.03	0.05			<0.03	mg/kg	TM4/PM8
Benzo(a)anthracene [#]	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06			<0.06	mg/kg	TM4/PM8
Chrysene ^{#M}	<0.02	<0.02	<0.02	<0.02	0.04	<0.02	<0.02	0.05			<0.02	mg/kg	TM4/PM8
Benzo(bk)fluoranthene ^{#M}	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	0.10			<0.07	mg/kg	TM4/PM8
Benzo(a)pyrene [#]	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.05			<0.04	mg/kg	TM4/PM8
Indeno(123cd)pyrene ^{#M}	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.07			<0.04	mg/kg	TM4/PM8
Dibenzo(ah)anthracene [#]	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04			<0.04	mg/kg	TM4/PM8
Benzo(ghi)perylene [#]	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.07			<0.04	mg/kg	TM4/PM8
PAH 16 Total	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6			<0.6	mg/kg	TM4/PM8
Benzo(b)fluoranthene	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.07			<0.05	mg/kg	TM4/PM8
Benzo(k)fluoranthene	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.03			<0.02	mg/kg	TM4/PM8
PAH Surrogate % Recovery	96	96	90	93	90	95	97	95			<0	%	TM4/PM8
SVOC TICs	See Attached	ND	-	-	-	-	-	-				None	TM16/PM8

Client Name: EPS Ltd
Reference: UK21.5634
Location: Pfizer Havant
Contact: Paul O'Connor
EMT Job No: 21/18437

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	1-3	4-6	7-9	10-12	13-15	16-18	19-21	22-24			Please see attached notes for all abbreviations and acronyms		
Sample ID	TP105 B8	TP105 B8	TP106 C7	TP106 C7	TP107 B4	TP107 B4	TP108 C3	TP108 C3					
Depth	1.00	1.80	1.00	2.00	1.00	1.80	1.00	2.00					
COC No / misc													
Containers	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T					
Sample Date	18/11/2021	18/11/2021	18/11/2021	18/11/2021	18/11/2021	18/11/2021	18/11/2021	18/11/2021					
Sample Type	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay					
Batch Number	1	1	1	1	1	1	1	1			LOD/LOR	Units	Method No.
Date of Receipt	20/11/2021	20/11/2021	20/11/2021	20/11/2021	20/11/2021	20/11/2021	20/11/2021	20/11/2021					
TPH CWG													
Aliphatics													
>C5-C6 (HS_1D_AL) ^{#M}	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1			<0.1	mg/kg	TM36/PM12
>C6-C8 (HS_1D_AL) ^{#M}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			<0.1	mg/kg	TM36/PM12
>C8-C10 (HS_1D_AL)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			<0.1	mg/kg	TM36/PM12
>C10-C12 (EH_CU_1D_AL) ^{#M}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2			<0.2	mg/kg	TMS/PM8/PM16
>C12-C16 (EH_CU_1D_AL) ^{#M}	<4	<4	<4	<4	<4	<4	<4	<4			<4	mg/kg	TMS/PM8/PM16
>C16-C21 (EH_CU_1D_AL) ^{#M}	<7	<7	<7	<7	<7	<7	<7	61			<7	mg/kg	TMS/PM8/PM16
>C21-C35 (EH_CU_1D_AL) ^{#M}	<7	<7	<7	<7	<7	148	<7	273			<7	mg/kg	TMS/PM8/PM16
Total aliphatics C5-35 (EH+HS_CU_1D_AL)	<19	<19	<19	<19	<19	148	<19	334			<19	mg/kg	TMS/PM8/PM16/PM12/PM10
Aromatics													
>C5-EC7 (HS_1D_AR) [#]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			<0.1	mg/kg	TM36/PM12
>EC7-EC8 (HS_1D_AR) [#]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			<0.1	mg/kg	TM36/PM12
>EC8-EC10 (HS_1D_AR) ^{#M}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			<0.1	mg/kg	TM36/PM12
>EC10-EC12 (EH_CU_1D_AR) [#]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2			<0.2	mg/kg	TMS/PM8/PM16
>EC12-EC16 (EH_CU_1D_AR) [#]	<4	<4	<4	<4	<4	<4	<4	<4			<4	mg/kg	TMS/PM8/PM16
>EC16-EC21 (EH_CU_1D_AR) [#]	<7	<7	<7	<7	14	41	<7	17			<7	mg/kg	TMS/PM8/PM16
>EC21-EC35 (EH_CU_1D_AR) [#]	<7	<7	<7	<7	<7	478	<7	195			<7	mg/kg	TMS/PM8/PM16
Total aromatics C5-35 (EH+HS_CU_1D_AR) [#]	<19	<19	<19	<19	<19	519	<19	212			<19	mg/kg	TMS/PM8/PM16/PM12/PM10
Total aliphatics and aromatics (C5-35) (EH+HS_CU_1D_Total)	<38	<38	<38	<38	<38	667	<38	546			<38	mg/kg	TMS/PM8/PM16/PM12/PM10
MTBE [#]	<5	<5	<5	<5	<5	<5	<5	<5			<5	ug/kg	TM36/PM12
Benzene [#]	<5	<5	<5	<5	<5	<5	<5	<5			<5	ug/kg	TM36/PM12
Toluene [#]	12	<5	<5	<5	<5	<5	<5	21			<5	ug/kg	TM36/PM12
Ethylbenzene [#]	<5	<5	<5	<5	<5	<5	<5	<5			<5	ug/kg	TM36/PM12
m/p-Xylene [#]	9	<5	<5	<5	<5	<5	<5	<5			<5	ug/kg	TM36/PM12
o-Xylene [#]	<5	<5	<5	<5	<5	<5	<5	<5			<5	ug/kg	TM36/PM12
Total Phenols HPLC	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15			<0.15	mg/kg	TM26/PM21B
Natural Moisture Content	11.2	18.7	20.4	20.1	18.1	9.1	15.9	15.5			<0.1	%	PM4/PM0
Ammoniacal Nitrogen as N	<0.6	<0.6	-	-	-	-	-	-			<0.6	mg/kg	TM38/PM20
Hexavalent Chromium [#]	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3			<0.3	mg/kg	TM38/PM20
Sulphate as SO4 (2:1 Ext) ^{#M}	0.0885	0.0092	0.0926	0.0298	0.0960	0.0953	0.1079	0.0160			<0.0015	g/l	TM38/PM20
Chromium III	57.5	189.3	38.6	68.1	63.2	21.1	70.2	66.7			<0.5	mg/kg	NONE/NONE
Total Cyanide ^{#M}	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5			<0.5	mg/kg	TM89/PM45
Organic Matter	<0.2	<0.2	0.2	<0.2	<0.2	0.2	0.4	0.6			<0.2	%	TM21/PM24
pH ^{#M}	9.29	8.44	11.06	8.60	10.35	9.47	8.40	9.43			<0.01	pH units	TM73/PM11
Sample Type	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay			None		PM13/PM0
Sample Colour	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown			None		PM13/PM0

Client Name: EPS Ltd
 Reference: UK21.5634
 Location: Pfizer Havant
 Contact: Paul O'Connor
 EMT Job No: 21/18437

VOC Report : Solid

EMT Sample No.	1-3	4-6									Please see attached notes for all abbreviations and acronyms		
Sample ID	TP105 B8	TP105 B8											
Depth	1.00	1.80											
COC No / misc													
Containers	V J T	V J T											
Sample Date	18/11/2021	18/11/2021											
Sample Type	Clay	Clay											
Batch Number	1	1											
Date of Receipt	20/11/2021	20/11/2021									LOD/LOR	Units	Method No.
VOC MS													
Dichlorodifluoromethane	<2	<2									<2	ug/kg	TM15/PM10
Methyl Tertiary Butyl Ether #	<2	<2									<2	ug/kg	TM15/PM10
Chloromethane #	<3	<3									<3	ug/kg	TM15/PM10
Vinyl Chloride	<2	<2									<2	ug/kg	TM15_A/PM10
Bromomethane	<1	<1									<1	ug/kg	TM15/PM10
Chloroethane #	<2	<2									<2	ug/kg	TM15/PM10
Trichlorofluoromethane #	<2	<2									<2	ug/kg	TM15/PM10
1,1-Dichloroethene (1,1 DCE) #	<6	<6									<6	ug/kg	TM15/PM10
Dichloromethane (DCM) #	<7	<7									<7	ug/kg	TM15/PM10
trans-1,2-Dichloroethene #	<3	<3									<3	ug/kg	TM15/PM10
1,1-Dichloroethane #	<3	<3									<3	ug/kg	TM15/PM10
cis-1,2-Dichloroethene #	<3	<3									<3	ug/kg	TM15/PM10
2,2-Dichloropropane	<4	<4									<4	ug/kg	TM15/PM10
Bromochloromethane #	<3	<3									<3	ug/kg	TM15/PM10
Chloroform #	<3	<3									<3	ug/kg	TM15/PM10
1,1,1-Trichloroethane #	<3	<3									<3	ug/kg	TM15/PM10
1,1-Dichloropropene #	<3	<3									<3	ug/kg	TM15/PM10
Carbon tetrachloride #	<4	<4									<4	ug/kg	TM15/PM10
1,2-Dichloroethane #	<4	<4									<4	ug/kg	TM15/PM10
Benzene #	<3	<3									<3	ug/kg	TM15/PM10
Trichloroethene (TCE) #	<3	<3									<3	ug/kg	TM15/PM10
1,2-Dichloropropane #	<6	<6									<6	ug/kg	TM15/PM10
Dibromomethane #	<3	<3									<3	ug/kg	TM15/PM10
Bromodichloromethane #	<3	<3									<3	ug/kg	TM15/PM10
cis-1,3-Dichloropropene	<4	<4									<4	ug/kg	TM15/PM10
Toluene #	203	<3									<3	ug/kg	TM15/PM10
trans-1,3-Dichloropropene	<3	<3									<3	ug/kg	TM15/PM10
1,1,2-Trichloroethane #	<3	<3									<3	ug/kg	TM15/PM10
Tetrachloroethene (PCE) #	<3	<3									<3	ug/kg	TM15/PM10
1,3-Dichloropropane #	<3	<3									<3	ug/kg	TM15/PM10
Dibromochloromethane #	<3	<3									<3	ug/kg	TM15/PM10
1,2-Dibromoethane #	<3	<3									<3	ug/kg	TM15/PM10
Chlorobenzene #	<3	<3									<3	ug/kg	TM15/PM10
1,1,1,2-Tetrachloroethane #	<3	<3									<3	ug/kg	TM15/PM10
Ethylbenzene #	4	<3									<3	ug/kg	TM15/PM10
m/p-Xylene #	46	<5									<5	ug/kg	TM15/PM10
o-Xylene #	20	<3									<3	ug/kg	TM15/PM10
Styrene	<3	<3									<3	ug/kg	TM15_A/PM10
Bromoform	<3	<3									<3	ug/kg	TM15/PM10
Isopropylbenzene #	<3	<3									<3	ug/kg	TM15/PM10
1,1,2,2-Tetrachloroethane #	<3	<3									<3	ug/kg	TM15/PM10
Bromobenzene	<2	<2									<2	ug/kg	TM15/PM10
1,2,3-Trichloropropane #	<4	<4									<4	ug/kg	TM15/PM10
Propylbenzene #	<4	<4									<4	ug/kg	TM15/PM10
2-Chlorotoluene	<3	<3									<3	ug/kg	TM15/PM10
1,3,5-Trimethylbenzene #	<3	<3									<3	ug/kg	TM15/PM10
4-Chlorotoluene	<3	<3									<3	ug/kg	TM15/PM10
tert-Butylbenzene #	<5	<5									<5	ug/kg	TM15/PM10
1,2,4-Trimethylbenzene #	<6	<6									<6	ug/kg	TM15/PM10
sec-Butylbenzene #	<4	<4									<4	ug/kg	TM15/PM10
4-Isopropyltoluene #	<4	<4									<4	ug/kg	TM15/PM10
1,3-Dichlorobenzene #	<4	<4									<4	ug/kg	TM15/PM10
1,4-Dichlorobenzene #	<4	<4									<4	ug/kg	TM15/PM10
n-Butylbenzene #	<4	<4									<4	ug/kg	TM15/PM10
1,2-Dichlorobenzene #	<4	<4									<4	ug/kg	TM15/PM10
1,2-Dibromo-3-chloropropane #	<4	<4									<4	ug/kg	TM15/PM10
1,2,4-Trichlorobenzene	<7	<7									<7	ug/kg	TM15/PM10
Hexachlorobutadiene	<4	<4									<4	ug/kg	TM15/PM10
Naphthalene	<27	<27									<27	ug/kg	TM15/PM10
1,2,3-Trichlorobenzene	<7	<7									<7	ug/kg	TM15/PM10
Surrogate Recovery Toluene D8	121	124									<0	%	TM15/PM10
Surrogate Recovery 4-Bromofluorobenzene	89	92									<0	%	TM15/PM10

Element Materials Technology

Note: Only samples with TICs (if requested) are reported. If TICs were requested but no compounds found they are not reported.

[illegible]

Matrix : Solid

8 of 17

Client Name: EPS Ltd
Reference: UK21.5634
Location: Pfizer Havant
Contact: Paul O'Connor

Note:

Asbestos Screen analysis is carried out in accordance with our documented in-house methods PM042 and TM065 and HSG 248 by Stereo and Polarised Light Microscopy using Dispersion Staining Techniques and is covered by our UKAS accreditation. Detailed Gravimetric Quantification and PCOM Fibre Analysis is carried out in accordance with our documented in-house methods PM042 and TM131 and HSG 248 using Stereo and Polarised Light Microscopy and Phase Contrast Optical Microscopy (PCOM). Samples are retained for not less than 6 months from the date of analysis unless specifically requested.

Opinions, including ACM type and Asbestos level less than 0.1%, lie outside the scope of our UKAS accreditation.

Where the sample is not taken by a Element Materials Technology consultant, Element Materials Technology cannot be responsible for inaccurate or unrepresentative sampling.

EMT Job No.	Batch	Sample ID	Depth	EMT Sample No.	Date Of Analysis	Analysis	Result
21/18437	1	TP105 B8	1.00	3	22/11/2021	General Description (Bulk Analysis)	Soil/Stones
					22/11/2021	Asbestos Fibres	NAD
					22/11/2021	Asbestos ACM	NAD
					22/11/2021	Asbestos Type	NAD
					22/11/2021	Asbestos Level Screen	NAD
21/18437	1	TP105 B8	1.80	6	22/11/2021	General Description (Bulk Analysis)	Soil/Stones
					22/11/2021	Asbestos Fibres	NAD
					22/11/2021	Asbestos ACM	NAD
					22/11/2021	Asbestos Type	NAD
					22/11/2021	Asbestos Level Screen	NAD
21/18437	1	TP106 C7	1.00	9	22/11/2021	General Description (Bulk Analysis)	Soil/Stones
					22/11/2021	Asbestos Fibres	NAD
					22/11/2021	Asbestos ACM	NAD
					22/11/2021	Asbestos Type	NAD
					22/11/2021	Asbestos Level Screen	NAD
21/18437	1	TP106 C7	2.00	12	22/11/2021	General Description (Bulk Analysis)	soil
					22/11/2021	Asbestos Fibres	NAD
					22/11/2021	Asbestos ACM	NAD
					22/11/2021	Asbestos Type	NAD
					22/11/2021	Asbestos Level Screen	NAD
21/18437	1	TP107 B4	1.00	15	22/11/2021	General Description (Bulk Analysis)	Soil/Stones
					22/11/2021	Asbestos Fibres	NAD
					22/11/2021	Asbestos ACM	NAD
					22/11/2021	Asbestos Type	NAD
					22/11/2021	Asbestos Level Screen	NAD
21/18437	1	TP107 B4	1.80	18	22/11/2021	General Description (Bulk Analysis)	soil
					22/11/2021	Asbestos Fibres	NAD
					22/11/2021	Asbestos ACM	NAD
					22/11/2021	Asbestos Type	NAD
					22/11/2021	Asbestos Level Screen	NAD
21/18437	1	TP108 C3	1.00	21	22/11/2021	General Description (Bulk Analysis)	Soil/Stones
					22/11/2021	Asbestos Fibres	NAD
					22/11/2021	Asbestos ACM	NAD

Client Name: EPS Ltd
Reference: UK21.5634
Location: Pfizer Havant
Contact: Paul O'Connor

[illegible]

Client Name: EPS Ltd
Reference: UK21.5634
Location: Pfizer Havant
Contact: Paul O'Connor

[illegible]

Please note that only samples that are deviating are mentioned in this report. If no samples are listed it is because none were deviating. Only analyses which are accredited are recorded as deviating if set criteria are not met.

NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

EMT Job No.: 21/18437

SOILS

Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Limits of detection for analyses carried out on as received samples are not moisture content corrected. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

Where a CEN 10:1 ZERO Headspace VOC test has been carried out, a 10:1 ratio of water to wet (as received) soil has been used.

% Asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264 The Survey Guide - Appendix 2 : ACMs in buildings listed in order of ease of fibre release.

Sufficient amount of sample must be received to carry out the testing specified. Where an insufficient amount of sample has been received the testing may not meet the requirements of our accredited methods, as such accreditation may be removed.

Negative Neutralization Potential (NP) values are obtained when the volume of NaOH (0.1N) titrated (pH 8.3) is greater than the volume of HCl (1N) to reduce the pH of the sample to 2.0 - 2.5. Any negative NP values are corrected to 0.

The calculation of Pyrite content assumes that all oxidisable sulphides present in the sample are pyrite. This may not be the case. The calculation may be an overestimate when other sulphides such as Barite (Barium Sulphate) are present.

WATERS

Please note we are not a UK Drinking Water Inspectorate (DWI) Approved Laboratory .

ISO17025 accreditation applies to surface water and groundwater and usually one other matrix which is analysis specific, any other liquids are outside our scope of accreditation.

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

DEVIATING SAMPLES

All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. The temperature of sample receipt is recorded on the confirmation schedules in order that the client can make an informed decision as to whether testing should still be undertaken.

SURROGATES

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

DILUTIONS

A dilution suffix indicates a dilution has been performed and the reported result takes this into account. No further calculation is required.

BLANKS

Where analytes have been found in the blank, the sample will be treated in accordance with our laboratory procedure for dealing with contaminated blanks.

NOTE

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a UKAS requirement for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.

Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.

REPORTS FROM THE SOUTH AFRICA LABORATORY

Any method number not prefixed with SA has been undertaken in our UK laboratory unless reported as subcontracted.

Measurement Uncertainty

Measurement uncertainty defines the range of values that could reasonably be attributed to the measured quantity. This range of values has not been included within the reported results. Uncertainty expressed as a percentage can be provided upon request.

ABBREVIATIONS and ACRONYMS USED

#	ISO17025 (UKAS Ref No. 4225) accredited - UK.
SA	ISO17025 (SANAS Ref No.T0729) accredited - South Africa
B	Indicates analyte found in associated method blank.
DR	Dilution required.
M	MCERTS accredited.
NA	Not applicable
NAD	No Asbestos Detected.
ND	None Detected (usually refers to VOC and/SVOC TICs).
NDP	No Determination Possible
SS	Calibrated against a single substance
SV	Surrogate recovery outside performance criteria. This may be due to a matrix effect.
W	Results expressed on as received basis.
+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
>>	Results above calibration range, the result should be considered the minimum value. The actual result could be significantly higher.
*	Analysis subcontracted to an Element Materials Technology approved laboratory.
AD	Samples are dried at 35°C ±5°C
CO	Suspected carry over
LOD/LOR	Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS
ME	Matrix Effect
NFD	No Fibres Detected
BS	AQC Sample
LB	Blank Sample
N	Client Sample
TB	Trip Blank Sample
OC	Outside Calibration Range

HWOL ACRONYMS AND OPERATORS USED

HS	Headspace Analysis.
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent.
CU	Clean-up - e.g. by florisil, silica gel.
1D	GC - Single coil gas chromatography.
Total	Aliphatics & Aromatics.
AL	Aliphatics only.
AR	Aromatics only.
2D	GC-GC - Double coil gas chromatography.
#1	EH_Total but with humics mathematically subtracted
#2	EU_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +).
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total
MS	Mass Spectrometry.

EMT Job No: 21/18437

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/S ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
PM4	Gravimetric measurement of Natural Moisture Content and % Moisture Content at either 35°C or 105°C. Calculation based on ISO 11465:1993(E) and BS1377-2:1990.	PM0	No preparation is required.			AR	
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.			AR	Yes
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.	Yes		AR	Yes
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.	Yes	Yes	AR	Yes
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM16	Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE.			AR	
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM8/PM16	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required/Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE.	Yes		AR	Yes
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM8/PM16	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required/Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE.	Yes	Yes	AR	Yes
TM5/TM36	please refer to TM5 and TM36 for method details	PM8/PM12/PM16	please refer to PM8/PM16 and PM12 for method details			AR	Yes
TM5/TM36	please refer to TM5 and TM36 for method details	PM8/PM12/PM16	please refer to PM8/PM16 and PM12 for method details	Yes		AR	Yes
PM13	A visual examination of the solid sample is carried out to ascertain sample make up, colour and any other inclusions. This is not a geotechnical description.	PM0	No preparation is required.			AR	No

EMT Job No: 21/18437

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/S ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM15	Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.	PM10	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.			AR	Yes
TM15	Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.	PM10	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.	Yes		AR	Yes
TM16	Modified USEPA 8270D v5:2014. Quantitative determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.			AR	Yes
TM16	Modified USEPA 8270D v5:2014. Quantitative determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.	Yes	Yes	AR	Yes
TM21	Modified BS 7755-3:1995, ISO10694:1995 Determination of Total Organic Carbon or Total Carbon by combustion in an Eltra TOC furnace/analyser in the presence of oxygen. The CO2 generated is quantified using infra-red detection. Organic Matter (SOM) calculated as per EA MCERTS Chemical Testing of Soil, March 2012 v4.	PM24	Dried and ground solid samples are washed with hydrochloric acid, then rinsed with deionised water to remove the mineral carbon before TOC analysis.			AD	Yes
TM26	Determination of phenols by Reversed Phased High Performance Liquid Chromatography and Electro-Chemical Detection.	PM21B	As Received samples are extracted in Methanol: Water (60:40) by reciprocal shaker.			AR	Yes
TM30	Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma –Optical Emission Spectrometry): WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996	PM15	Acid digestion of dried and ground solid samples using Aqua Regia refluxed at 112.5 °C. Samples containing asbestos are not dried and ground.	Yes	Yes	AD	Yes
TM36	Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GCFID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested.	PM12	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.			AR	Yes
TM36	Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GCFID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested.	PM12	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.	Yes		AR	Yes
TM36	Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GCFID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested.	PM12	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.	Yes	Yes	AR	Yes

EMT Job No: 21/18437

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) –Al anions comparable to BS ISO 15923-1: 2013	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.	Yes	Yes	AD	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) –Al anions comparable to BS ISO 15923-1: 2013	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.			AR	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) –Al anions comparable to BS ISO 15923-1: 2013	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.	Yes		AR	Yes
TM50	Acid soluble sulphate (Total Sulphate) analysed by ICP-OES	PM29	A hot hydrochloric acid digest is performed on a dried and ground sample, and the resulting liquor is analysed.	Yes	Yes	AD	Yes
TM65	Asbestos Bulk Identification method based on HSG 248 First edition (2006)	PM42	Modified SCA Blue Book V.12 draft 2017 and WM3 1st Edition v1.1:2018. Solid samples undergo a thorough visual inspection for asbestos fibres prior to asbestos identification using TM065.	Yes		AR	
TM73	Modified US EPA methods 150.1 (1982) and 9045D Rev. 4 - 2004) and BS1377-3:1990. Determination of pH by Metrohm automated probe analyser.	PM11	Extraction of as received solid samples using one part solid to 2.5 parts deionised water.	Yes	Yes	AR	No
TM89	Modified USEPA method OIA-1667 (1999). Determination of cyanide by Flow Injection Analyser. Where WAD cyanides are required a Ligand displacement step is carried out before analysis.	PM45	As received solid samples are extracted with 1M NaOH by orbital shaker for Cyanide, Sulphide and Thiocyanate analysis.	Yes	Yes	AR	Yes
NONE	No Method Code	NONE	No Method Code			AD	Yes
TM15_A	Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds, Vinyl Chloride & Styrene by Headspace GC-MS.	PM10	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.			AR	Yes

EPS Ltd
10-12 East Parade
Leeds
LS1 2BH



Attention :	Paul O'Connor
Date :	21st December, 2021
Your reference :	UK21.5634
Our reference :	Test Report 21/19771 Batch 1
Location :	34, New Lane, Havant (Pfizer), PO9 2NG
Date samples received :	11th December, 2021
Status :	Final Report
Issue :	1

Four samples were received for analysis on 11th December, 2021 of which four were scheduled for analysis. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.

All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

Authorised By:



Bruce Leslie
Project Manager

Please include all sections of this report if it is reproduced

Element Materials Technology

Client Name: EPS Ltd
Reference: UK21.5634
Location: 34, New Lane, Havant (Pfizer), PO9 2NG
Contact: Paul O'Connor
EMT Job No: 21/19771

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	1-3	4-6	7-9	10-12							Please see attached notes for all abbreviations and acronyms		
Sample ID	TP BH3 SW	TP BH3 S.2	TP BH3 SE	TP109D10									
Depth	1.0	1.0	1.0	1.5									
COC No / misc													
Containers	V J T	V J T	V J T	V J T									
Sample Date	09/12/2021	09/12/2021	09/12/2021	09/12/2021									
Sample Type	Clay	Clay	Clay	Clay									
Batch Number	1	1	1	1									
Date of Receipt	11/12/2021	11/12/2021	11/12/2021	11/12/2021									
Arsenic #	6.5	6.3	4.3	8.5							<0.5	mg/kg	TM30/PM15
Cadmium #	0.6	0.6	0.5	0.8							<0.1	mg/kg	TM30/PM15
Chromium #	42.3	46.3	68.7	50.4							<0.5	mg/kg	TM30/PM15
Copper #	10	9	7	13							<1	mg/kg	TM30/PM15
Lead #	35	29	22	22							<5	mg/kg	TM30/PM15
Mercury #	<0.1	<0.1	<0.1	<0.1							<0.1	mg/kg	TM30/PM15
Nickel #	13.4	15.9	11.9	22.1							<0.7	mg/kg	TM30/PM15
Selenium #	<1	<1	<1	<1							<1	mg/kg	TM30/PM15
Total Sulphate as SO4 #	1381	853	842	1266							<50	mg/kg	TM50/PM29
Zinc #	55	54	33	57							<5	mg/kg	TM30/PM15
PAH MS													
Naphthalene #	<0.04	<0.04	<0.04	<0.04							<0.04	mg/kg	TM4/PM8
Acenaphthylene	<0.03	<0.03	<0.03	<0.03							<0.03	mg/kg	TM4/PM8
Acenaphthene #	<0.05	<0.05	0.06	<0.05							<0.05	mg/kg	TM4/PM8
Fluorene #	<0.04	<0.04	<0.04	<0.04							<0.04	mg/kg	TM4/PM8
Phenanthrene #	<0.03	<0.03	0.09	<0.03							<0.03	mg/kg	TM4/PM8
Anthracene #	<0.04	<0.04	<0.04	<0.04							<0.04	mg/kg	TM4/PM8
Fluoranthene #	0.03	<0.03	0.19	<0.03							<0.03	mg/kg	TM4/PM8
Pyrene #	<0.03	<0.03	0.15	<0.03							<0.03	mg/kg	TM4/PM8
Benzo(a)anthracene #	<0.06	<0.06	0.08	<0.06							<0.06	mg/kg	TM4/PM8
Chrysene #	<0.02	<0.02	0.07	<0.02							<0.02	mg/kg	TM4/PM8
Benzo(bk)fluoranthene #	<0.07	<0.07	0.08	<0.07							<0.07	mg/kg	TM4/PM8
Benzo(a)pyrene #	<0.04	<0.04	0.04	<0.04							<0.04	mg/kg	TM4/PM8
Indeno(123cd)pyrene #	<0.04	<0.04	<0.04	<0.04							<0.04	mg/kg	TM4/PM8
Dibenzo(ah)anthracene #	<0.04	<0.04	<0.04	<0.04							<0.04	mg/kg	TM4/PM8
Benzo(ghi)perylene #	<0.04	<0.04	<0.04	<0.04							<0.04	mg/kg	TM4/PM8
PAH 16 Total	<0.6	<0.6	0.8	<0.6							<0.6	mg/kg	TM4/PM8
Benzo(b)fluoranthene	<0.05	<0.05	0.06	<0.05							<0.05	mg/kg	TM4/PM8
Benzo(k)fluoranthene	<0.02	<0.02	0.02	<0.02							<0.02	mg/kg	TM4/PM8
PAH Surrogate % Recovery	96	96	100	99							<0	%	TM4/PM8
Methyl Tertiary Butyl Ether #	<2	<2	<2	<2							<2	ug/kg	TM15/PM10
Benzene #	<3	<3	<3	<3							<3	ug/kg	TM15/PM10
Toluene #	<3	<3	<3	<3							<3	ug/kg	TM15/PM10
Ethylbenzene #	<3	<3	<3	<3							<3	ug/kg	TM15/PM10
m/p-Xylene #	<5	<5	<5	<5							<5	ug/kg	TM15/PM10
o-Xylene #	<3	<3	<3	<3							<3	ug/kg	TM15/PM10
Surrogate Recovery Toluene D8	100	100	88	101							<0	%	TM15/PM10
Surrogate Recovery 4-Bromofluorobenzene	103	106	90	104							<0	%	TM15/PM10

Element Materials Technology

Client Name: EPS Ltd
Reference: UK21.5634
Location: 34, New Lane, Havant (Pfizer), PO9 2NG
Contact: Paul O'Connor
EMT Job No: 21/19771

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	1-3	4-6	7-9	10-12							Please see attached notes for all abbreviations and acronyms		
Sample ID	TP BH3 SW	TP BH3 S.2	TP BH3 SE	TP109D10									
Depth	1.0	1.0	1.0	1.5									
COC No / misc													
Containers	V J T	V J T	V J T	V J T									
Sample Date	09/12/2021	09/12/2021	09/12/2021	09/12/2021									
Sample Type	Clay	Clay	Clay	Clay									
Batch Number	1	1	1	1									
Date of Receipt	11/12/2021	11/12/2021	11/12/2021	11/12/2021							LOD/LOR	Units	Method No.
TPH CWG													
Aliphatics													
>C5-C6 [#]	<0.1	<0.1	<0.1	<0.1							<0.1	mg/kg	TM36/PM12
>C6-C8 [#]	<0.1	<0.1	<0.1	<0.1							<0.1	mg/kg	TM36/PM12
>C8-C10	<0.1	<0.1	<0.1	<0.1							<0.1	mg/kg	TM36/PM12
>C10-C12 [#]	<0.2	<0.2	<0.2	<0.2							<0.2	mg/kg	TM5/PM8/PM16
>C12-C16 [#]	<4	<4	<4	<4							<4	mg/kg	TM5/PM8/PM16
>C16-C21 [#]	<7	<7	<7	<7							<7	mg/kg	TM5/PM8/PM16
>C21-C35 [#]	<7	<7	<7	<7							<7	mg/kg	TM5/PM8/PM16
Total aliphatics C5-35	<19	<19	<19	<19							<19	mg/kg	TM5/PM8/PM16/PM12/PM10
Aromatics													
>C5-EC7 [#]	<0.1	<0.1	<0.1	<0.1							<0.1	mg/kg	TM36/PM12
>EC7-EC8 [#]	<0.1	<0.1	<0.1	<0.1							<0.1	mg/kg	TM36/PM12
>EC8-EC10 [#]	<0.1	<0.1	<0.1	<0.1							<0.1	mg/kg	TM36/PM12
>EC10-EC12 [#]	<0.2	<0.2	<0.2	<0.2							<0.2	mg/kg	TM5/PM8/PM16
>EC12-EC16 [#]	<4	<4	<4	<4							<4	mg/kg	TM5/PM8/PM16
>EC16-EC21 [#]	<7	<7	<7	<7							<7	mg/kg	TM5/PM8/PM16
>EC21-EC35 [#]	<7	<7	<7	<7							<7	mg/kg	TM5/PM8/PM16
Total aromatics C5-35 [#]	<19	<19	<19	<19							<19	mg/kg	TM5/PM8/PM16/PM12/PM10
Total aliphatics and aromatics(C5-35)	<38	<38	<38	<38							<38	mg/kg	TM5/PM8/PM16/PM12/PM10
Total Phenols HPLC	<0.15	<0.15	<0.15	<0.15							<0.15	mg/kg	TM26/PM21B
Natural Moisture Content	14.9	15.1	10.5	17.6							<0.1	%	PM4/PM0
Ammoniacal Nitrogen as N	<0.6	<0.6	<0.6	<0.6							<0.6	mg/kg	TM38/PM20
Hexavalent Chromium [#]	<0.3	<0.3	<0.3	<0.3							<0.3	mg/kg	TM38/PM20
Sulphate as SO4 (2:1 Ext) [#]	0.3634	0.2151	0.2003	0.3106							<0.0015	g/l	TM38/PM20
Chromium III	42.3	46.3	68.7	50.4							<0.5	mg/kg	NONE/NONE
Total Cyanide [#]	<0.5	<0.5	<0.5	<0.5							<0.5	mg/kg	TM89/PM45
Organic Matter	0.2	0.2	<0.2	0.3							<0.2	%	TM21/PM24
pH [#]	10.51	10.38	10.91	10.48							<0.01	pH units	TM73/PM11
Sample Type	Clay	Clay	Clay	Clay								None	PM13/PM0
Sample Colour	Light Brown	Light Brown	Light Brown	Light Brown								None	PM13/PM0
Other Items	stones and sand	stones and sand	stones and sand	stones and sand								None	PM13/PM0

Client Name: EPS Ltd
Reference: UK21.5634
Location: 34, New Lane, Havant (Pfizer), PO9 2NG
Contact: Paul O'Connor
EMT Job No: 21/19771

Please see attached notes for all abbreviations and acronyms

QF-PM 3.1.3 v11

Element Materials Technology

Client Name: EPS Ltd
Reference: UK21.5634
Location: 34, New Lane, Havant (Pfizer), PO9 2NG
Contact: Paul O'Connor
EMT Job No: 21/19771

VOC Report : Solid

EMT Sample No.	1-3	4-6	7-9	10-12							Please see attached notes for all abbreviations and acronyms		
Sample ID	TP BH3 SW	TP BH3 S.2	TP BH3 SE	TP109D10									
Depth	1.0	1.0	1.0	1.5									
COC No / misc													
Containers	V J T	V J T	V J T	V J T									
Sample Date	09/12/2021	09/12/2021	09/12/2021	09/12/2021									
Sample Type	Clay	Clay	Clay	Clay							LOD/LOR	Units	Method No.
Batch Number	1	1	1	1									
Date of Receipt	11/12/2021	11/12/2021	11/12/2021	11/12/2021									
VOC MS													
Dichlorodifluoromethane	<2	<2	<2	<2							<2	ug/kg	TM15/PM10
Methyl Tertiary Butyl Ether #	<2	<2	<2	<2							<2	ug/kg	TM15/PM10
Chloromethane #	<3	<3	<3	<3							<3	ug/kg	TM15/PM10
Vinyl Chloride	<2	<2	<2	<2							<2	ug/kg	TM15_A/PM10
Bromomethane	<1	<1	<1	<1							<1	ug/kg	TM15/PM10
Chloroethane #	<2	<2	<2	<2							<2	ug/kg	TM15/PM10
Trichlorofluoromethane #	<2	<2	<2	<2							<2	ug/kg	TM15/PM10
1,1-Dichloroethene (1,1 DCE) #	<6	<6	<6	<6							<6	ug/kg	TM15/PM10
Dichloromethane (DCM) #	<7	<7	<7	<7							<7	ug/kg	TM15/PM10
trans-1,2-Dichloroethene #	<3	<3	<3	<3							<3	ug/kg	TM15/PM10
1,1-Dichloroethane #	<3	<3	<3	<3							<3	ug/kg	TM15/PM10
cis-1,2-Dichloroethene #	<3	<3	<3	<3							<3	ug/kg	TM15/PM10
2,2-Dichloropropane	<4	<4	<4	<4							<4	ug/kg	TM15/PM10
Bromochloromethane #	<3	<3	<3	<3							<3	ug/kg	TM15/PM10
Chloroform #	<3	<3	<3	<3							<3	ug/kg	TM15/PM10
1,1,1-Trichloroethane #	<3	<3	<3	<3							<3	ug/kg	TM15/PM10
1,1-Dichloropropene #	<3	<3	<3	<3							<3	ug/kg	TM15/PM10
Carbon tetrachloride #	<4	<4	<4	<4							<4	ug/kg	TM15/PM10
1,2-Dichloroethane #	<4	<4	<4	<4							<4	ug/kg	TM15/PM10
Benzene #	<3	<3	<3	<3							<3	ug/kg	TM15/PM10
Trichloroethene (TCE) #	<3	<3	<3	<3							<3	ug/kg	TM15/PM10
1,2-Dichloropropane #	<6	<6	<6	<6							<6	ug/kg	TM15/PM10
Dibromomethane #	<3	<3	<3	<3							<3	ug/kg	TM15/PM10
Bromodichloromethane #	<3	<3	<3	<3							<3	ug/kg	TM15/PM10
cis-1,3-Dichloropropene	<4	<4	<4	<4							<4	ug/kg	TM15/PM10
Toluene #	<3	<3	<3	<3							<3	ug/kg	TM15/PM10
trans-1,3-Dichloropropene	<3	<3	<3	<3							<3	ug/kg	TM15/PM10
1,1,2-Trichloroethane #	<3	<3	<3	<3							<3	ug/kg	TM15/PM10
Tetrachloroethene (PCE) #	<3	<3	<3	<3							<3	ug/kg	TM15/PM10
1,3-Dichloropropane #	<3	<3	<3	<3							<3	ug/kg	TM15/PM10
Dibromochloromethane #	<3	<3	<3	<3							<3	ug/kg	TM15/PM10
1,2-Dibromoethane #	<3	<3	<3	<3							<3	ug/kg	TM15/PM10
Chlorobenzene #	<3	<3	<3	<3							<3	ug/kg	TM15/PM10
1,1,1,2-Tetrachloroethane #	<3	<3	<3	<3							<3	ug/kg	TM15/PM10
Ethylbenzene #	<3	<3	<3	<3							<3	ug/kg	TM15/PM10
m/p-Xylene #	<5	<5	<5	<5							<5	ug/kg	TM15/PM10
o-Xylene #	<3	<3	<3	<3							<3	ug/kg	TM15/PM10
Styrene	<3	<3	<3	<3							<3	ug/kg	TM15_A/PM10
Bromoform	<3	<3	<3	<3							<3	ug/kg	TM15/PM10
Isopropylbenzene #	<3	<3	<3	<3							<3	ug/kg	TM15/PM10
1,1,2,2-Tetrachloroethane #	<3	<3	<3	<3							<3	ug/kg	TM15/PM10
Bromobenzene	<2	<2	<2	<2							<2	ug/kg	TM15/PM10
1,2,3-Trichloropropane #	<4	<4	<4	<4							<4	ug/kg	TM15/PM10
Propylbenzene #	<4	<4	<4	<4							<4	ug/kg	TM15/PM10
2-Chlorotoluene	<3	<3	<3	<3							<3	ug/kg	TM15/PM10
1,3,5-Trimethylbenzene #	<3	<3	<3	<3							<3	ug/kg	TM15/PM10
4-Chlorotoluene	<3	<3	<3	<3							<3	ug/kg	TM15/PM10
tert-Butylbenzene #	<5	<5	<5	<5							<5	ug/kg	TM15/PM10
1,2,4-Trimethylbenzene #	<6	<6	<6	<6							<6	ug/kg	TM15/PM10
sec-Butylbenzene #	<4	<4	<4	<4							<4	ug/kg	TM15/PM10
4-Isopropyltoluene #	<4	<4	<4	<4							<4	ug/kg	TM15/PM10
1,3-Dichlorobenzene #	<4	<4	<4	<4							<4	ug/kg	TM15/PM10
1,4-Dichlorobenzene #	<4	<4	<4	<4							<4	ug/kg	TM15/PM10
n-Butylbenzene #	<4	<4	<4	<4							<4	ug/kg	TM15/PM10
1,2-Dichlorobenzene #	<4	<4	<4	<4							<4	ug/kg	TM15/PM10
1,2-Dibromo-3-chloropropane #	<4	<4	<4	<4							<4	ug/kg	TM15/PM10
1,2,4-Trichlorobenzene	<7	<7	<7	<7							<7	ug/kg	TM15/PM10
Hexachlorobutadiene	<4	<4	<4	<4							<4	ug/kg	TM15/PM10
Naphthalene	<27	<27	<27	<27							<27	ug/kg	TM15/PM10
1,2,3-Trichlorobenzene	<7	<7	<7	<7							<7	ug/kg	TM15/PM10
Surrogate Recovery Toluene D8	100	100	88	101							<0	%	TM15/PM10
Surrogate Recovery 4-Bromofluorobenzene	103	106	90	104							<0	%	TM15/PM10

Matrix : Solid

6 of 13

Client Name: EPS Ltd
Reference: UK21.5634
Location: 34, New Lane, Havant (Pfizer), PO9 2NG
Contact: Paul O'Connor

Note:

Asbestos Screen analysis is carried out in accordance with our documented in-house methods PM042 and TM065 and HSG 248 by Stereo and Polarised Light Microscopy using Dispersion Staining Techniques and is covered by our UKAS accreditation. Detailed Gravimetric Quantification and PCOM Fibre Analysis is carried out in accordance with our documented in-house methods PM042 and TM131 and HSG 248 using Stereo and Polarised Light Microscopy and Phase Contrast Optical Microscopy (PCOM). Samples are retained for not less than 6 months from the date of analysis unless specifically requested.

Opinions, including ACM type and Asbestos level less than 0.1%, lie outside the scope of our UKAS accreditation.

Where the sample is not taken by a Element Materials Technology consultant, Element Materials Technology cannot be responsible for inaccurate or unrepresentative sampling.

EMT Job No.	Batch	Sample ID	Depth	EMT Sample No.	Date Of Analysis	Analysis	Result
21/19771	1	TP BH3 SW	1.0	3	14/12/2021	General Description (Bulk Analysis)	Soil/Stones
					14/12/2021	Asbestos Fibres	NAD
					14/12/2021	Asbestos ACM	NAD
					14/12/2021	Asbestos Type	NAD
					14/12/2021	Asbestos Level Screen	NAD
21/19771	1	TP BH3 S.2	1.0	6	14/12/2021	General Description (Bulk Analysis)	Soil/Stones
					14/12/2021	Asbestos Fibres	NAD
					14/12/2021	Asbestos ACM	NAD
					14/12/2021	Asbestos Type	NAD
					14/12/2021	Asbestos Level Screen	NAD
21/19771	1	TP BH3 SE	1.0	9	14/12/2021	General Description (Bulk Analysis)	Soil/Stones
					14/12/2021	Asbestos Fibres	NAD
					14/12/2021	Asbestos ACM	NAD
					14/12/2021	Asbestos Type	NAD
					14/12/2021	Asbestos Level Screen	NAD
21/19771	1	TP109D10	1.5	12	14/12/2021	General Description (Bulk Analysis)	Soil/Stones
					14/12/2021	Asbestos Fibres	NAD
					14/12/2021	Asbestos ACM	NAD
					14/12/2021	Asbestos Type	NAD
					14/12/2021	Asbestos Level Screen	NAD

Client Name: EPS Ltd
Reference: UK21.5634
Location: 34, New Lane, Havant (Pfizer), PO9 2NG
Contact: Paul O'Connor

[illegible]

Please note that only samples that are deviating are mentioned in this report. If no samples are listed it is because none were deviating. Only analyses which are accredited are recorded as deviating if set criteria are not met.

NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

EMT Job No.: 21/19771

SOILS

Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Limits of detection for analyses carried out on as received samples are not moisture content corrected. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

Where a CEN 10:1 ZERO Headspace VOC test has been carried out, a 10:1 ratio of water to wet (as received) soil has been used.

% Asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264 The Survey Guide - Appendix 2 : ACMs in buildings listed in order of ease of fibre release.

Sufficient amount of sample must be received to carry out the testing specified. Where an insufficient amount of sample has been received the testing may not meet the requirements of our accredited methods, as such accreditation may be removed.

Negative Neutralization Potential (NP) values are obtained when the volume of NaOH (0.1N) titrated (pH 8.3) is greater than the volume of HCl (1N) to reduce the pH of the sample to 2.0 - 2.5. Any negative NP values are corrected to 0.

The calculation of Pyrite content assumes that all oxidisable sulphides present in the sample are pyrite. This may not be the case. The calculation may be an overestimate when other sulphides such as Barite (Barium Sulphate) are present.

WATERS

Please note we are not a UK Drinking Water Inspectorate (DWI) Approved Laboratory .

ISO17025 accreditation applies to surface water and groundwater and usually one other matrix which is analysis specific, any other liquids are outside our scope of accreditation.

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

DEVIATING SAMPLES

All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. The temperature of sample receipt is recorded on the confirmation schedules in order that the client can make an informed decision as to whether testing should still be undertaken.

SURROGATES

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

DILUTIONS

A dilution suffix indicates a dilution has been performed and the reported result takes this into account. No further calculation is required.

BLANKS

Where analytes have been found in the blank, the sample will be treated in accordance with our laboratory procedure for dealing with contaminated blanks.

NOTE

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a UKAS requirement for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.

Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.

Please include all sections of this report if it is reproduced

REPORTS FROM THE SOUTH AFRICA LABORATORY

Any method number not prefixed with SA has been undertaken in our UK laboratory unless reported as subcontracted.

Measurement Uncertainty

Measurement uncertainty defines the range of values that could reasonably be attributed to the measured quantity. This range of values has not been included within the reported results. Uncertainty expressed as a percentage can be provided upon request.

ABBREVIATIONS and ACRONYMS USED

#	ISO17025 (UKAS Ref No. 4225) accredited - UK.
SA	ISO17025 (SANAS Ref No.T0729) accredited - South Africa
B	Indicates analyte found in associated method blank.
DR	Dilution required.
M	MCERTS accredited.
NA	Not applicable
NAD	No Asbestos Detected.
ND	None Detected (usually refers to VOC and/SVOC TICs).
NDP	No Determination Possible
SS	Calibrated against a single substance
SV	Surrogate recovery outside performance criteria. This may be due to a matrix effect.
W	Results expressed on as received basis.
+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
>>	Results above calibration range, the result should be considered the minimum value. The actual result could be significantly higher.
*	Analysis subcontracted to an Element Materials Technology approved laboratory.
AD	Samples are dried at 35°C ±5°C
CO	Suspected carry over
LOD/LOR	Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS
ME	Matrix Effect
NFD	No Fibres Detected
BS	AQC Sample
LB	Blank Sample
N	Client Sample
TB	Trip Blank Sample
OC	Outside Calibration Range

EMT Job No: 21/19771

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
PM4	Gravimetric measurement of Natural Moisture Content and % Moisture Content at either 35°C or 105°C. Calculation based on ISO 11465:1993(E) and BS1377-2:1990.	PM0	No preparation is required.			AR	
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.			AR	Yes
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.	Yes		AR	Yes
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM16	Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE.			AR	
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM8/PM16	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required/Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE.	Yes		AR	Yes
TM5/TM36	please refer to TM5 and TM36 for method details	PM8/PM12/PM16	please refer to PM8/PM16 and PM12 for method details			AR	Yes
TM5/TM36	please refer to TM5 and TM36 for method details	PM8/PM12/PM16	please refer to PM8/PM16 and PM12 for method details	Yes		AR	Yes
PM13	A visual examination of the solid sample is carried out to ascertain sample make up, colour and any other inclusions. This is not a geotechnical description.	PM0	No preparation is required.			AR	No
TM15	Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.	PM10	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.			AR	Yes
TM15	Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.	PM10	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.	Yes		AR	Yes

EMT Job No: 21/19771

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM16	Modified USEPA 8270D v5:2014. Quantitative determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.			AR	Yes
TM16	Modified USEPA 8270D v5:2014. Quantitative determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.	Yes		AR	Yes
TM21	Modified BS 7755-3:1995, ISO10694:1995 Determination of Total Organic Carbon or Total Carbon by combustion in an Eltra TOC furnace/analyser in the presence of oxygen. The CO ₂ generated is quantified using infra-red detection. Organic Matter (SOM) calculated as per EA MCERTS Chemical Testing of Soil, March 2012 v4.	PM24	Dried and ground solid samples are washed with hydrochloric acid, then rinsed with deionised water to remove the mineral carbon before TOC analysis.			AD	Yes
TM26	Determination of phenols by Reversed Phased High Performance Liquid Chromatography and Electro-Chemical Detection.	PM21B	As Received samples are extracted in Methanol: Water (60:40) by reciprocal shaker.			AR	Yes
TM30	Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma –Optical Emission Spectrometry): WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996	PM15	Acid digestion of dried and ground solid samples using Aqua Regia refluxed at 112.5 °C. Samples containing asbestos are not dried and ground.	Yes		AD	Yes
TM36	Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GC/FID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested.	PM12	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.			AR	Yes
TM36	Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GC/FID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested.	PM12	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.	Yes		AR	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH ₄ + 350.1 (Rev.2 1993) –Al anions comparable to BS ISO 15923-1: 2013	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.	Yes		AD	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH ₄ + 350.1 (Rev.2 1993) –Al anions comparable to BS ISO 15923-1: 2013	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.			AR	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH ₄ + 350.1 (Rev.2 1993) –Al anions comparable to BS ISO 15923-1: 2013	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.	Yes		AR	Yes

EMT Job No: 21/19771

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/S ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM50	Acid soluble sulphate (Total Sulphate) analysed by ICP-OES	PM29	A hot hydrochloric acid digest is performed on a dried and ground sample, and the resulting liquor is analysed.	Yes		AD	Yes
TM65	Asbestos Bulk Identification method based on HSG 248 First edition (2006)	PM42	Modified SCA Blue Book V.12 draft 2017 and WM3 1st Edition v1.1:2018. Solid samples undergo a thorough visual inspection for asbestos fibres prior to asbestos identification using TM065.	Yes		AR	
TM73	Modified US EPA methods 150.1 (1982) and 9045D Rev. 4 - 2004) and BS1377-3:1990. Determination of pH by Metrohm automated probe analyser.	PM11	Extraction of as received solid samples using one part solid to 2.5 parts deionised water.	Yes		AR	No
TM89	Modified USEPA method OIA-1667 (1999). Determination of cyanide by Flow Injection Analyser. Where WAD cyanides are required a Ligand displacement step is carried out before analysis.	PM45	As received solid samples are extracted with 1M NaOH by orbital shaker for Cyanide, Sulphide and Thiocyanate analysis.	Yes		AR	Yes
NONE	No Method Code	NONE	No Method Code			AD	Yes
TM15_A	Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds, Vinyl Chloride & Styrene by Headspace GC-MS.	PM10	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.			AR	Yes

EPS Ltd
10-12 East Parade
Leeds
LS1 2BH



Attention :	Paul O'Connor
Date :	29th December, 2021
Your reference :	UK.21. 5634
Our reference :	Test Report 21/19772 Batch 1
Location :	32, New Lane, Havant (Pfizer), PO9 2NG
Date samples received :	11th December, 2021
Status :	Final Report
Issue :	1

Three samples were received for analysis on 11th December, 2021 of which three were scheduled for analysis. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.

All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

Authorised By:



Hayley Prowse
Project Manager

Please include all sections of this report if it is reproduced

Element Materials Technology

Client Name: EPS Ltd
Reference: UK.21. 5634
Location: 32, New Lane, Havant (Pfizer), PO9 2NG
Contact: Paul O'Connor
EMT Job No: 21/19772

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	1-3	4-6	7-9								Please see attached notes for all abbreviations and acronyms		
Sample ID	VS C8 01	VS B6 01	TP110 C13										
Depth	Surface	Surface	2.0										
COC No / misc													
Containers	V J T	V J T	V J T										
Sample Date	09/12/2021	09/12/2021	09/12/2021										
Sample Type	Clay	Clay	Clay										
Batch Number	1	1	1								LOD/LOR	Units	Method No.
Date of Receipt	11/12/2021	11/12/2021	11/12/2021										
Arsenic [#]	7.9	6.7	11.6								<0.5	mg/kg	TM30/PM15
Cadmium [#]	0.4	1.1	<0.1								<0.1	mg/kg	TM30/PM15
Chromium [#]	46.2	37.5	48.8								<0.5	mg/kg	TM30/PM15
Copper [#]	8	21	15								<1	mg/kg	TM30/PM15
Lead [#]	33	19	19								<5	mg/kg	TM30/PM15
Mercury [#]	<0.1	<0.1	<0.1								<0.1	mg/kg	TM30/PM15
Nickel [#]	5.5	17.8	31.2								<0.7	mg/kg	TM30/PM15
Selenium [#]	<1	<1	<1								<1	mg/kg	TM30/PM15
Total Sulphate as SO4 [#]	2912	591	155								<50	mg/kg	TM50/PM29
Zinc [#]	80	176	74								<5	mg/kg	TM30/PM15
PAH MS													
Naphthalene [#]	<0.04	0.05	<0.04								<0.04	mg/kg	TM4/PM8
Acenaphthylene	<0.03	0.20	<0.03								<0.03	mg/kg	TM4/PM8
Acenaphthene [#]	<0.05	<0.05	<0.05								<0.05	mg/kg	TM4/PM8
Fluorene [#]	<0.04	<0.04	<0.04								<0.04	mg/kg	TM4/PM8
Phenanthrene [#]	0.06	0.22	<0.03								<0.03	mg/kg	TM4/PM8
Anthracene [#]	<0.04	0.33	<0.04								<0.04	mg/kg	TM4/PM8
Fluoranthene [#]	0.17	0.66	<0.03								<0.03	mg/kg	TM4/PM8
Pyrene [#]	0.15	0.66	<0.03								<0.03	mg/kg	TM4/PM8
Benzo(a)anthracene [#]	0.09	0.36	<0.06								<0.06	mg/kg	TM4/PM8
Chrysene [#]	0.06	0.44	<0.02								<0.02	mg/kg	TM4/PM8
Benzo(bk)fluoranthene [#]	<0.07	0.82	<0.07								<0.07	mg/kg	TM4/PM8
Benzo(a)pyrene [#]	<0.04	0.31	<0.04								<0.04	mg/kg	TM4/PM8
Indeno(123cd)pyrene [#]	<0.04	0.30	<0.04								<0.04	mg/kg	TM4/PM8
Dibenzo(ah)anthracene [#]	<0.04	0.06	<0.04								<0.04	mg/kg	TM4/PM8
Benzo(ghi)perylene [#]	<0.04	0.26	<0.04								<0.04	mg/kg	TM4/PM8
PAH 16 Total	<0.6	4.7	<0.6								<0.6	mg/kg	TM4/PM8
Benzo(b)fluoranthene	<0.05	0.59	<0.05								<0.05	mg/kg	TM4/PM8
Benzo(k)fluoranthene	<0.02	0.23	<0.02								<0.02	mg/kg	TM4/PM8
PAH Surrogate % Recovery	92	92	79								<0	%	TM4/PM8
Methyl Tertiary Butyl Ether [#]	<2	<2	<2								<2	ug/kg	TM15/PM10
Benzene [#]	<3	<3	<3								<3	ug/kg	TM15/PM10
Toluene [#]	<3	6	<3								<3	ug/kg	TM15/PM10
Ethylbenzene [#]	<3	<3	<3								<3	ug/kg	TM15/PM10
m/p-Xylene [#]	<5	<5	<5								<5	ug/kg	TM15/PM10
o-Xylene [#]	<3	<3	<3								<3	ug/kg	TM15/PM10
Surrogate Recovery Toluene D8	85	89	99								<0	%	TM15/PM10
Surrogate Recovery 4-Bromofluorobenzene	92	81	103								<0	%	TM15/PM10

Please see attached notes for all abbreviations and acronyms

Element Materials Technology

Client Name: EPS Ltd
Reference: UK.21. 5634
Location: 32, New Lane, Havant (Pfizer), PO9 2NG
Contact: Paul O'Connor
EMT Job No: 21/19772

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	1-3	4-6	7-9									
Sample ID	VS C8 01	VS B6 01	TP110 C13									
Depth	Surface	Surface	2.0									
COC No / misc												
Containers	V J T	V J T	V J T									
Sample Date	09/12/2021	09/12/2021	09/12/2021									
Sample Type	Clay	Clay	Clay									
Batch Number	1	1	1									
Date of Receipt	11/12/2021	11/12/2021	11/12/2021									
										LOD/LOR	Units	Method No.
Please see attached notes for all abbreviations and acronyms												
TPH CWG												
Aliphatics												
>C5-C6 (HS_1D_AL) #	<0.1	<0.1	<0.1							<0.1	mg/kg	TM36/PM12
>C6-C8 (HS_1D_AL) #	<0.1	<0.1	<0.1							<0.1	mg/kg	TM36/PM12
>C8-C10 (HS_1D_AL)	<0.1	<0.1	<0.1							<0.1	mg/kg	TM36/PM12
>C10-C12 (EH_CU_1D_AL) #	<0.2	<0.2	<0.2							<0.2	mg/kg	TM5/PM8/PM16
>C12-C16 (EH_CU_1D_AL) #	<4	<4	<4							<4	mg/kg	TM5/PM8/PM16
>C16-C21 (EH_CU_1D_AL) #	<7	<7	<7							<7	mg/kg	TM5/PM8/PM16
>C21-C35 (EH_CU_1D_AL) #	<7	<7	<7							<7	mg/kg	TM5/PM8/PM16
Total aliphatics C5-35 (EH+HS_CU_1D_AL)	<19	<19	<19							<19	mg/kg	TM5/PM8/PM16/PM12/PM10
Aromatics												
>C5-EC7 (HS_1D_AR) #	<0.1	<0.1	<0.1							<0.1	mg/kg	TM36/PM12
>EC7-EC8 (HS_1D_AR) #	<0.1	<0.1	<0.1							<0.1	mg/kg	TM36/PM12
>EC8-EC10 (HS_1D_AR) #	<0.1	<0.1	<0.1							<0.1	mg/kg	TM36/PM12
>EC10-EC12 (EH_CU_1D_AR) #	<0.2	<0.2	<0.2							<0.2	mg/kg	TM5/PM8/PM16
>EC12-EC16 (EH_CU_1D_AR) #	<4	<4	<4							<4	mg/kg	TM5/PM8/PM16
>EC16-EC21 (EH_CU_1D_AR) #	<7	<7	<7							<7	mg/kg	TM5/PM8/PM16
>EC21-EC35 (EH_CU_1D_AR) #	<7	<7	<7							<7	mg/kg	TM5/PM8/PM16
Total aromatics C5-35 (EH+HS_CU_1D_AR) #	<19	<19	<19							<19	mg/kg	TM5/PM8/PM16/PM12/PM10
Total aliphatics and aromatics (C5-35) (EH+HS_CU_1D_Total)	<38	<38	<38							<38	mg/kg	TM5/PM8/PM16/PM12/PM10
Total Phenols HPLC	<0.15	<0.15	<0.15							<0.15	mg/kg	TM26/PM21B
Natural Moisture Content	6.3	4.1	17.3							<0.1	%	PM4/PM0
Ammoniacal Nitrogen as N	<0.6	<0.6	<0.6							<0.6	mg/kg	TM38/PM20
Hexavalent Chromium #	<0.3	<0.3	<0.3							<0.3	mg/kg	TM38/PM20
Sulphate as SO4 (2:1 Ext) #	0.1010	0.0391	0.0373							<0.0015	g/l	TM38/PM20
Chromium III	46.2	37.5	48.8							<0.5	mg/kg	NONE/NONE
Total Cyanide #	<0.5	<0.5	<0.5							<0.5	mg/kg	TM89/PM45
Organic Matter	<0.2	0.4	0.2							<0.2	%	TM21/PM24
pH #	11.66	9.16	8.35							<0.01	pH units	TM73/PM11
Sample Type	Clay	Clay	Clay								None	PM13/PM0
Sample Colour	Medium Brown	Dark Brown	Light Brown								None	PM13/PM0
Other Items	stones and sand	stones and sand	stones								None	PM13/PM0

Client Name: EPS Ltd
Reference: UK.21. 5634
Location: 32, New Lane, Havant (Pfizer), PO9 2NG
Contact: Paul O'Connor
EMT Job No: 21/19772

VOC Report : Solid

EMT Sample No.	1-3	4-6	7-9								Please see attached notes for all abbreviations and acronyms		
Sample ID	VS C8 01	VS B6 01	TP110 C13										
Depth	Surface	Surface	2.0										
COC No / misc													
Containers	V J T	V J T	V J T										
Sample Date	09/12/2021	09/12/2021	09/12/2021										
Sample Type	Clay	Clay	Clay										
Batch Number	1	1	1								LOD/LOR	Units	Method No.
Date of Receipt	11/12/2021	11/12/2021	11/12/2021										
VOC MS													
Dichlorodifluoromethane	<2	<2	<2								<2	ug/kg	TM15/PM10
Methyl Tertiary Butyl Ether #	<2	<2	<2								<2	ug/kg	TM15/PM10
Chloromethane #	<3	<3	<3								<3	ug/kg	TM15/PM10
Vinyl Chloride	<2	<2	<2								<2	ug/kg	TM15_A/PM10
Bromomethane	<1	<1	<1								<1	ug/kg	TM15/PM10
Chloroethane #	<2	<2	<2								<2	ug/kg	TM15/PM10
Trichlorofluoromethane #	<2	<2	<2								<2	ug/kg	TM15/PM10
1,1-Dichloroethene (1,1 DCE) #	<6	<6	<6								<6	ug/kg	TM15/PM10
Dichloromethane (DCM) #	<7	16	<7								<7	ug/kg	TM15/PM10
trans-1,2-Dichloroethene #	<3	<3	<3								<3	ug/kg	TM15/PM10
1,1-Dichloroethane #	<3	<3	<3								<3	ug/kg	TM15/PM10
cis-1,2-Dichloroethene #	<3	<3	<3								<3	ug/kg	TM15/PM10
2,2-Dichloropropane	<4	<4	<4								<4	ug/kg	TM15/PM10
Bromochloromethane #	<3	<3	<3								<3	ug/kg	TM15/PM10
Chloroform #	<3	<3	<3								<3	ug/kg	TM15/PM10
1,1,1-Trichloroethane #	<3	<3	<3								<3	ug/kg	TM15/PM10
1,1-Dichloropropene #	<3	<3	<3								<3	ug/kg	TM15/PM10
Carbon tetrachloride #	<4	<4	<4								<4	ug/kg	TM15/PM10
1,2-Dichloroethane #	<4	<4	<4								<4	ug/kg	TM15/PM10
Benzene #	<3	<3	<3								<3	ug/kg	TM15/PM10
Trichloroethene (TCE) #	<3	<3	<3								<3	ug/kg	TM15/PM10
1,2-Dichloropropane #	<6	<6	<6								<6	ug/kg	TM15/PM10
Dibromomethane #	<3	<3	<3								<3	ug/kg	TM15/PM10
Bromodichloromethane #	<3	<3	<3								<3	ug/kg	TM15/PM10
cis-1,3-Dichloropropene	<4	<4	<4								<4	ug/kg	TM15/PM10
Toluene #	<3	6	<3								<3	ug/kg	TM15/PM10
trans-1,3-Dichloropropene	<3	<3	<3								<3	ug/kg	TM15/PM10
1,1,2-Trichloroethane #	<3	<3	<3								<3	ug/kg	TM15/PM10
Tetrachloroethene (PCE) #	<3	<3	<3								<3	ug/kg	TM15/PM10
1,3-Dichloropropane #	<3	<3	<3								<3	ug/kg	TM15/PM10
Dibromochloromethane #	<3	<3	<3								<3	ug/kg	TM15/PM10
1,2-Dibromoethane #	<3	<3	<3								<3	ug/kg	TM15/PM10
Chlorobenzene #	<3	<3	<3								<3	ug/kg	TM15/PM10
1,1,1,2-Tetrachloroethane #	<3	<3	<3								<3	ug/kg	TM15/PM10
Ethylbenzene #	<3	<3	<3								<3	ug/kg	TM15/PM10
m/p-Xylene #	<5	<5	<5								<5	ug/kg	TM15/PM10
o-Xylene #	<3	<3	<3								<3	ug/kg	TM15/PM10
Styrene	<3	<3	<3								<3	ug/kg	TM15_A/PM10
Bromoform	<3	<3	<3								<3	ug/kg	TM15/PM10
Isopropylbenzene #	<3	<3	<3								<3	ug/kg	TM15/PM10
1,1,2,2-Tetrachloroethane #	<3	<3	<3								<3	ug/kg	TM15/PM10
Bromobenzene	<2	<2	<2								<2	ug/kg	TM15/PM10
1,2,3-Trichloropropane #	<4	<4	<4								<4	ug/kg	TM15/PM10
Propylbenzene #	<4	<4	<4								<4	ug/kg	TM15/PM10
2-Chlorotoluene	<3	<3	<3								<3	ug/kg	TM15/PM10
1,3,5-Trimethylbenzene #	<3	<3	<3								<3	ug/kg	TM15/PM10
4-Chlorotoluene	<3	<3	<3								<3	ug/kg	TM15/PM10
tert-Butylbenzene #	<5	<5	<5								<5	ug/kg	TM15/PM10
1,2,4-Trimethylbenzene #	<6	<6	<6								<6	ug/kg	TM15/PM10
sec-Butylbenzene #	<4	<4	<4								<4	ug/kg	TM15/PM10
4-Isopropyltoluene #	<4	<4	<4								<4	ug/kg	TM15/PM10
1,3-Dichlorobenzene #	<4	<4	<4								<4	ug/kg	TM15/PM10
1,4-Dichlorobenzene #	<4	<4	<4								<4	ug/kg	TM15/PM10
n-Butylbenzene #	<4	<4	<4								<4	ug/kg	TM15/PM10
1,2-Dichlorobenzene #	<4	<4	<4								<4	ug/kg	TM15/PM10
1,2-Dibromo-3-chloropropane #	<4	<4	<4								<4	ug/kg	TM15/PM10
1,2,4-Trichlorobenzene	<7	<7	<7								<7	ug/kg	TM15/PM10
Hexachlorobutadiene	<4	<4	<4								<4	ug/kg	TM15/PM10
Naphthalene	<27	<27	<27								<27	ug/kg	TM15/PM10
1,2,3-Trichlorobenzene	<7	<7	<7								<7	ug/kg	TM15/PM10
Surrogate Recovery Toluene D8	85	89	99								<0	%	TM15/PM10
Surrogate Recovery 4-Bromofluorobenzene	92	81	103								<0	%	TM15/PM10

Matrix : Solid

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Client Name: EPS Ltd
Reference: UK.21. 5634
Location: 32, New Lane, Havant (Pfizer), PO9 2NG
Contact: Paul O'Connor

Note:

Asbestos Screen analysis is carried out in accordance with our documented in-house methods PM042 and TM065 and HSG 248 by Stereo and Polarised Light Microscopy using Dispersion Staining Techniques and is covered by our UKAS accreditation. Detailed Gravimetric Quantification and PCOM Fibre Analysis is carried out in accordance with our documented in-house methods PM042 and TM131 and HSG 248 using Stereo and Polarised Light Microscopy and Phase Contrast Optical Microscopy (PCOM). Samples are retained for not less than 6 months from the date of analysis unless specifically requested.

Opinions, including ACM type and Asbestos level less than 0.1%, lie outside the scope of our UKAS accreditation.

Where the sample is not taken by a Element Materials Technology consultant, Element Materials Technology cannot be responsible for inaccurate or unrepresentative sampling.

EMT Job No.	Batch	Sample ID	Depth	EMT Sample No.	Date Of Analysis	Analysis	Result
21/19772	1	VS C8 01	Surface	3	18/12/2021	General Description (Bulk Analysis)	soil
					18/12/2021	Asbestos Fibres	NAD
					18/12/2021	Asbestos ACM	NAD
					18/12/2021	Asbestos Type	NAD
					18/12/2021	Asbestos Level Screen	NAD
21/19772	1	VS B6 01	Surface	6	18/12/2021	General Description (Bulk Analysis)	soil
					18/12/2021	Asbestos Fibres	NAD
					18/12/2021	Asbestos ACM	NAD
					18/12/2021	Asbestos Type	NAD
					18/12/2021	Asbestos Level Screen	NAD
21/19772	1	TP110 C13	2.0	9	18/12/2021	General Description (Bulk Analysis)	soil
					18/12/2021	Asbestos Fibres	NAD
					18/12/2021	Asbestos ACM	NAD
					18/12/2021	Asbestos Type	NAD
					18/12/2021	Asbestos Level Screen	NAD

Client Name: EPS Ltd
Reference: UK.21. 5634
Location: 32, New Lane, Havant (Pfizer), PO9 2NG
Contact: Paul O'Connor

Reference: UK.21. 5634
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Contact: Paul O'Connor

[illegible]

Please note that only samples that are deviating are mentioned in this report. If no samples are listed it is because none were deviating. Only analyses which are accredited are recorded as deviating if set criteria are not met.

NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

EMT Job No.: 21/19772

SOILS

Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Limits of detection for analyses carried out on as received samples are not moisture content corrected. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

Where a CEN 10:1 ZERO Headspace VOC test has been carried out, a 10:1 ratio of water to wet (as received) soil has been used.

% Asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264 The Survey Guide - Appendix 2 : ACMs in buildings listed in order of ease of fibre release.

Sufficient amount of sample must be received to carry out the testing specified. Where an insufficient amount of sample has been received the testing may not meet the requirements of our accredited methods, as such accreditation may be removed.

Negative Neutralization Potential (NP) values are obtained when the volume of NaOH (0.1N) titrated (pH 8.3) is greater than the volume of HCl (1N) to reduce the pH of the sample to 2.0 - 2.5. Any negative NP values are corrected to 0.

The calculation of Pyrite content assumes that all oxidisable sulphides present in the sample are pyrite. This may not be the case. The calculation may be an overestimate when other sulphides such as Barite (Barium Sulphate) are present.

WATERS

Please note we are not a UK Drinking Water Inspectorate (DWI) Approved Laboratory .

ISO17025 accreditation applies to surface water and groundwater and usually one other matrix which is analysis specific, any other liquids are outside our scope of accreditation.

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

DEVIATING SAMPLES

All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. The temperature of sample receipt is recorded on the confirmation schedules in order that the client can make an informed decision as to whether testing should still be undertaken.

SURROGATES

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

DILUTIONS

A dilution suffix indicates a dilution has been performed and the reported result takes this into account. No further calculation is required.

BLANKS

Where analytes have been found in the blank, the sample will be treated in accordance with our laboratory procedure for dealing with contaminated blanks.

NOTE

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a UKAS requirement for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.

Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.

REPORTS FROM THE SOUTH AFRICA LABORATORY

Any method number not prefixed with SA has been undertaken in our UK laboratory unless reported as subcontracted.

Measurement Uncertainty

Measurement uncertainty defines the range of values that could reasonably be attributed to the measured quantity. This range of values has not been included within the reported results. Uncertainty expressed as a percentage can be provided upon request.

ABBREVIATIONS and ACRONYMS USED

#	ISO17025 (UKAS Ref No. 4225) accredited - UK.
SA	ISO17025 (SANAS Ref No.T0729) accredited - South Africa
B	Indicates analyte found in associated method blank.
DR	Dilution required.
M	MCERTS accredited.
NA	Not applicable
NAD	No Asbestos Detected.
ND	None Detected (usually refers to VOC and/SVOC TICs).
NDP	No Determination Possible
SS	Calibrated against a single substance
SV	Surrogate recovery outside performance criteria. This may be due to a matrix effect.
W	Results expressed on as received basis.
+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
>>	Results above calibration range, the result should be considered the minimum value. The actual result could be significantly higher.
*	Analysis subcontracted to an Element Materials Technology approved laboratory.
AD	Samples are dried at 35°C ±5°C
CO	Suspected carry over
LOD/LOR	Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS
ME	Matrix Effect
NFD	No Fibres Detected
BS	AQC Sample
LB	Blank Sample
N	Client Sample
TB	Trip Blank Sample
OC	Outside Calibration Range

HWOL ACRONYMS AND OPERATORS USED

HS	Headspace Analysis.
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent.
CU	Clean-up - e.g. by florisil, silica gel.
1D	GC - Single coil gas chromatography.
Total	Aliphatics & Aromatics.
AL	Aliphatics only.
AR	Aromatics only.
2D	GC-GC - Double coil gas chromatography.
#1	EH_Total but with humics mathematically subtracted
#2	EU_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +).
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total
MS	Mass Spectrometry.

EMT Job No: 21/19772

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
PM4	Gravimetric measurement of Natural Moisture Content and % Moisture Content at either 35°C or 105°C. Calculation based on ISO 11465:1993(E) and BS1377-2:1990.	PM0	No preparation is required.			AR	
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.			AR	Yes
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.	Yes		AR	Yes
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM16	Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE.			AR	
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM8/PM16	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required/Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE.	Yes		AR	Yes
TM5/TM36	please refer to TM5 and TM36 for method details	PM8/PM12/PM16	please refer to PM8/PM16 and PM12 for method details			AR	Yes
TM5/TM36	please refer to TM5 and TM36 for method details	PM8/PM12/PM16	please refer to PM8/PM16 and PM12 for method details	Yes		AR	Yes
PM13	A visual examination of the solid sample is carried out to ascertain sample make up, colour and any other inclusions. This is not a geotechnical description.	PM0	No preparation is required.			AR	No
TM15	Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.	PM10	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.			AR	Yes
TM15	Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.	PM10	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.	Yes		AR	Yes

EMT Job No: 21/19772

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM16	Modified USEPA 8270D v5:2014. Quantitative determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.			AR	Yes
TM16	Modified USEPA 8270D v5:2014. Quantitative determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.	Yes		AR	Yes
TM21	Modified BS 7755-3:1995, ISO10694:1995 Determination of Total Organic Carbon or Total Carbon by combustion in an Eltra TOC furnace/analyser in the presence of oxygen. The CO2 generated is quantified using infra-red detection. Organic Matter (SOM) calculated as per EA MCERTS Chemical Testing of Soil, March 2012 v4.	PM24	Dried and ground solid samples are washed with hydrochloric acid, then rinsed with deionised water to remove the mineral carbon before TOC analysis.			AD	Yes
TM26	Determination of phenols by Reversed Phased High Performance Liquid Chromatography and Electro-Chemical Detection.	PM21B	As Received samples are extracted in Methanol: Water (60:40) by reciprocal shaker.			AR	Yes
TM30	Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma –Optical Emission Spectrometry): WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996	PM15	Acid digestion of dried and ground solid samples using Aqua Regia refluxed at 112.5 °C. Samples containing asbestos are not dried and ground.	Yes		AD	Yes
TM36	Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GCFID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested.	PM12	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.			AR	Yes
TM36	Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GCFID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested.	PM12	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.	Yes		AR	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) –Al anions comparable to BS ISO 15923-1: 2013I	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.	Yes		AD	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) –Al anions comparable to BS ISO 15923-1: 2013I	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.			AR	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) –Al anions comparable to BS ISO 15923-1: 2013I	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.	Yes		AR	Yes

EMT Job No: 21/19772

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/S ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM50	Acid soluble sulphate (Total Sulphate) analysed by ICP-OES	PM29	A hot hydrochloric acid digest is performed on a dried and ground sample, and the resulting liquor is analysed.	Yes		AD	Yes
TM65	Asbestos Bulk Identification method based on HSG 248 First edition (2006)	PM42	Modified SCA Blue Book V.12 draft 2017 and WM3 1st Edition v1.1:2018. Solid samples undergo a thorough visual inspection for asbestos fibres prior to asbestos identification using TM065.	Yes		AR	
TM73	Modified US EPA methods 150.1 (1982) and 9045D Rev. 4 - 2004) and BS1377-3:1990. Determination of pH by Metrohm automated probe analyser.	PM11	Extraction of as received solid samples using one part solid to 2.5 parts deionised water.	Yes		AR	No
TM89	Modified USEPA method OIA-1667 (1999). Determination of cyanide by Flow Injection Analyser. Where WAD cyanides are required a Ligand displacement step is carried out before analysis.	PM45	As received solid samples are extracted with 1M NaOH by orbital shaker for Cyanide, Sulphide and Thiocyanate analysis.	Yes		AR	Yes
NONE	No Method Code	NONE	No Method Code			AD	Yes
TM15_A	Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds, Vinyl Chloride & Styrene by Headspace GC-MS.	PM10	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.			AR	Yes

EPS Ltd
10-12 East Parade
Leeds
LS1 2BH



Attention : Paul O'Connor
Date : 10th January, 2022
Your reference : UK21.5634
Our reference : Test Report 21/20255 Batch 1
Location : 32 New Lane, Havant
Date samples received : 17th December, 2021
Status : Final Report
Issue : 2

Eleven samples were received for analysis on 17th December, 2021 of which eleven were scheduled for analysis. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.

All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

Authorised By:



Bruce Leslie
Project Manager

Please include all sections of this report if it is reproduced

Client Name: EPS Ltd
Reference: UK21.5634
Location: 32 New Lane, Havant
Contact: Paul O'Connor
EMT Job No: 21/20255

Solids: V=60g VOC jar. J=250g glass jar. T=plastic tub

Please see attached notes for all abbreviations and acronyms

Element Materials Technology

Client Name: EPS Ltd
Reference: UK21.5634
Location: 32 New Lane, Havant
Contact: Paul O'Connor
EMT Job No: 21/20255

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	1-3	4-6	7-9	10-12	13-15	16-18	19-21	22-24	25-27	28-30	Please see attached notes for all abbreviations and acronyms		
Sample ID	OR E10 01	OR D12 01	OR SPB10-C13 01	OR SPB10-C13 02	OR E7 01	OR E6 01	DT D5 01	DT B9 01	DT B4 01	DT C5 01			
Depth	1.00	1.00	SURFACE	SURFACE	1.00	1.00	SURFACE	SURFACE	SURFACE	SURFACE			
COC No / misc													
Containers	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T			
Sample Date	15/12/2021	15/12/2021	15/12/2021	15/12/2021	15/12/2021	15/12/2021	15/12/2021	15/12/2021	15/12/2021	15/12/2021			
Sample Type	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay			
Batch Number	1	1	1	1	1	1	1	1	1	1	LOD/LOR	Units	Method No.
Date of Receipt	17/12/2021	17/12/2021	17/12/2021	17/12/2021	17/12/2021	17/12/2021	17/12/2021	17/12/2021	17/12/2021	17/12/2021			
TPH CWG													
Aliphatics													
>C5-C6 (HS_1D_AL) #	0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1 ^{SV}	<0.1	<0.1	0.1	<0.1	mg/kg	TM36/PM12
>C6-C8 (HS_1D_AL) #	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 ^{SV}	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>C8-C10 (HS_1D_AL)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 ^{SV}	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>C10-C12 (EH_CU_1D_AL) #	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	mg/kg	TM5/PM8/PM16
>C12-C16 (EH_CU_1D_AL) #	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	mg/kg	TM5/PM8/PM16
>C16-C21 (EH_CU_1D_AL) #	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	mg/kg	TM5/PM8/PM16
>C21-C35 (EH_CU_1D_AL) #	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	mg/kg	TM5/PM8/PM16
Total aliphatics C5-35 (EH+HS_CU_1D_AL)	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	mg/kg	TM5/PM8/PM16/PM12/PM10
Aromatics													
>C5-EC7 (HS_1D_AR) #	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 ^{SV}	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>EC7-EC8 (HS_1D_AR) #	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 ^{SV}	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>EC8-EC10 (HS_1D_AR) #	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 ^{SV}	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>EC10-EC12 (EH_CU_1D_AR) #	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	mg/kg	TM5/PM8/PM16
>EC12-EC16 (EH_CU_1D_AR) #	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	mg/kg	TM5/PM8/PM16
>EC16-EC21 (EH_CU_1D_AR) #	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	mg/kg	TM5/PM8/PM16
>EC21-EC35 (EH_CU_1D_AR) #	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	mg/kg	TM5/PM8/PM16
Total aromatics C5-35 (EH+HS_CU_1D_AR) #	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	mg/kg	TM5/PM8/PM16/PM12/PM10
Total aliphatics and aromatics (C5-35) (EH+HS_CU_1D_Total)	<38	<38	<38	<38	<38	<38	<38	<38	<38	<38	<38	mg/kg	TM5/PM8/PM16/PM12/PM10
MTBE #	-	<5	-	-	-	-	-	-	-	-	<5	ug/kg	TM36/PM12
Benzene #	-	<5	-	-	-	-	-	-	-	-	<5	ug/kg	TM36/PM12
Toluene #	-	<5	-	-	-	-	-	-	-	-	<5	ug/kg	TM36/PM12
Ethylbenzene #	-	<5	-	-	-	-	-	-	-	-	<5	ug/kg	TM36/PM12
m/p-Xylene #	-	<5	-	-	-	-	-	-	-	-	<5	ug/kg	TM36/PM12
o-Xylene #	-	<5	-	-	-	-	-	-	-	-	<5	ug/kg	TM36/PM12
Total Phenols HPLC	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	mg/kg	TM26/PM21B
Natural Moisture Content	13.6	18.2	12.4	10.9	13.0	15.3	19.2	9.6	13.9	14.9	<0.1	%	PM4/PM0
Ammoniacal Nitrogen as N	<0.6	-	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	mg/kg	TM38/PM20
Hexavalent Chromium #	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	mg/kg	TM38/PM20
Sulphate as SO4 (2:1 Ext) #	0.4103	0.4475	0.3284	0.4680	0.1891	0.1009	0.2136	0.0206	0.0944	0.2942	<0.0015	g/l	TM38/PM20
Chromium III	37.1	41.8	38.1	23.8	37.1	52.5	47.2	41.8	59.2	58.2	<0.5	mg/kg	NONE/NONE
Total Cyanide #	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	mg/kg	TM89/PM45
Organic Matter	0.4	0.4	0.2	0.4	0.3	0.4	0.5	0.2	0.4	0.8	<0.2	%	TM21/PM24
pH #	9.06	9.50	10.50	10.51	9.13	8.78	10.22	9.23	8.76	10.44	<0.01	pH units	TM73/PM11
Sample Type	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay		None	PM13/PM0
Sample Colour	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown		None	PM13/PM0

Client Name: EPS Ltd
Reference: UK21.5634
Location: 32 New Lane, Havant
Contact: Paul O'Connor
EMT Job No: 21/20255

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

Please see attached notes for all abbreviations and acronyms

Element Materials Technology

Client Name: EPS Ltd
Reference: UK21.5634
Location: 32 New Lane, Havant
Contact: Paul O'Connor
EMT Job No: 21/20255

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	31-33												
Sample ID	DT D7 01												
Depth	SURFACE												
COC No / misc													
Containers	V J T												
Sample Date	15/12/2021												
Sample Type	Clay												
Batch Number	1												
Date of Receipt	17/12/2021												
											Please see attached notes for all abbreviations and acronyms		
											LOD/LOR	Units	Method No.
Arsenic #	10.7										<0.5	mg/kg	TM30/PM15
Cadmium #	0.2										<0.1	mg/kg	TM30/PM15
Chromium #	43.2										<0.5	mg/kg	TM30/PM15
Copper #	17										<1	mg/kg	TM30/PM15
Lead #	27										<5	mg/kg	TM30/PM15
Mercury #	<0.1										<0.1	mg/kg	TM30/PM15
Nickel #	23.8										<0.7	mg/kg	TM30/PM15
Selenium #	<1										<1	mg/kg	TM30/PM15
Total Sulphate as SO4 #	550										<50	mg/kg	TM50/PM29
Zinc #	66										<5	mg/kg	TM30/PM15
PAH MS													
Naphthalene #	<0.04										<0.04	mg/kg	TM4/PM8
Acenaphthylene	<0.03										<0.03	mg/kg	TM4/PM8
Acenaphthene #	<0.05										<0.05	mg/kg	TM4/PM8
Fluorene #	<0.04										<0.04	mg/kg	TM4/PM8
Phenanthrene #	<0.03										<0.03	mg/kg	TM4/PM8
Anthracene #	<0.04										<0.04	mg/kg	TM4/PM8
Fluoranthene #	<0.03										<0.03	mg/kg	TM4/PM8
Pyrene #	<0.03										<0.03	mg/kg	TM4/PM8
Benzo(a)anthracene #	<0.06										<0.06	mg/kg	TM4/PM8
Chrysene #	<0.02										<0.02	mg/kg	TM4/PM8
Benzo(bk)fluoranthene #	<0.07										<0.07	mg/kg	TM4/PM8
Benzo(a)pyrene #	<0.04										<0.04	mg/kg	TM4/PM8
Indeno(123cd)pyrene #	<0.04										<0.04	mg/kg	TM4/PM8
Dibenzo(ah)anthracene #	<0.04										<0.04	mg/kg	TM4/PM8
Benzo(ghi)perylene #	<0.04										<0.04	mg/kg	TM4/PM8
PAH 16 Total	<0.6										<0.6	mg/kg	TM4/PM8
Benzo(b)fluoranthene	<0.05										<0.05	mg/kg	TM4/PM8
Benzo(k)fluoranthene	<0.02										<0.02	mg/kg	TM4/PM8
PAH Surrogate % Recovery	77										<0	%	TM4/PM8
Methyl Tertiary Butyl Ether #	<2										<2	ug/kg	TM15/PM10
Benzene #	<3										<3	ug/kg	TM15/PM10
Toluene #	<3										<3	ug/kg	TM15/PM10
Ethylbenzene #	<3										<3	ug/kg	TM15/PM10
m/p-Xylene #	<5										<5	ug/kg	TM15/PM10
o-Xylene #	<3										<3	ug/kg	TM15/PM10
Surrogate Recovery Toluene D8	105										<0	%	TM15/PM10
Surrogate Recovery 4-Bromofluorobenzene	98										<0	%	TM15/PM10

Element Materials Technology

Client Name: EPS Ltd
Reference: UK21.5634
Location: 32 New Lane, Havant
Contact: Paul O'Connor
EMT Job No: 21/20255

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	31-33												
Sample ID	DT D7 01												
Depth	SURFACE												
COC No / misc													
Containers	V J T												
Sample Date	15/12/2021												
Sample Type	Clay												
Batch Number	1												
Date of Receipt	17/12/2021												
Please see attached notes for all abbreviations and acronyms											LOD/LOR	Units	Method No.
TPH CWG													
Aliphatics													
>C5-C6 (HS_1D_AL) #	<0.1										<0.1	mg/kg	TM36/PM12
>C6-C8 (HS_1D_AL) #	<0.1										<0.1	mg/kg	TM36/PM12
>C8-C10 (HS_1D_AL)	<0.1										<0.1	mg/kg	TM36/PM12
>C10-C12 (EH_CU_1D_AL) #	<0.2										<0.2	mg/kg	TM5/PM8/PM16
>C12-C16 (EH_CU_1D_AL) #	<4										<4	mg/kg	TM5/PM8/PM16
>C16-C21 (EH_CU_1D_AL) #	<7										<7	mg/kg	TM5/PM8/PM16
>C21-C35 (EH_CU_1D_AL) #	<7										<7	mg/kg	TM5/PM8/PM16
Total aliphatics C5-35 (EH+HS_CU_1D_AL)	<19										<19	mg/kg	TM5/PM8/PM16/PM12/PM10
Aromatics													
>C5-EC7 (HS_1D_AR) #	<0.1										<0.1	mg/kg	TM36/PM12
>EC7-EC8 (HS_1D_AR) #	<0.1										<0.1	mg/kg	TM36/PM12
>EC8-EC10 (HS_1D_AR) #	<0.1										<0.1	mg/kg	TM36/PM12
>EC10-EC12 (EH_CU_1D_AR) #	<0.2										<0.2	mg/kg	TM5/PM8/PM16
>EC12-EC16 (EH_CU_1D_AR) #	<4										<4	mg/kg	TM5/PM8/PM16
>EC16-EC21 (EH_CU_1D_AR) #	<7										<7	mg/kg	TM5/PM8/PM16
>EC21-EC35 (EH_CU_1D_AR) #	<7										<7	mg/kg	TM5/PM8/PM16
Total aromatics C5-35 (EH+HS_CU_1D_AR) #	<19										<19	mg/kg	TM5/PM8/PM16/PM12/PM10
Total aliphatics and aromatics (C5-35) (EH+HS_CU_1D_Total)	<38										<38	mg/kg	TM5/PM8/PM16/PM12/PM10
MTBE #													
MTBE #	-										<5	ug/kg	TM36/PM12
Benzene #	-										<5	ug/kg	TM36/PM12
Toluene #	-										<5	ug/kg	TM36/PM12
Ethylbenzene #	-										<5	ug/kg	TM36/PM12
m/p-Xylene #	-										<5	ug/kg	TM36/PM12
o-Xylene #	-										<5	ug/kg	TM36/PM12
Total Phenols HPLC	<0.15										<0.15	mg/kg	TM26/PM21B
Natural Moisture Content	18.9										<0.1	%	PM4/PM0
Ammoniacal Nitrogen as N	<0.6										<0.6	mg/kg	TM38/PM20
Hexavalent Chromium #	<0.3										<0.3	mg/kg	TM38/PM20
Sulphate as SO4 (2:1 Ext) #	0.1286										<0.0015	g/l	TM38/PM20
Chromium III	43.2										<0.5	mg/kg	NONE/NONE
Total Cyanide #	<0.5										<0.5	mg/kg	TM89/PM45
Organic Matter	0.7										<0.2	%	TM21/PM24
pH #	9.46										<0.01	pH units	TM73/PM11
Sample Type	Clay											None	PM13/PM0
Sample Colour	Medium Brown											None	PM13/PM0

Element Materials Technology

Client Name: EPS Ltd
Reference: UK21.5634
Location: 32 New Lane, Havant
Contact: Paul O'Connor
EMT Job No: 21/20255

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

[illegible]

EMT Sample No.	1-3	7-9	10-12	13-15	16-18	19-21	22-24	25-27	28-30	31-33	Please see attached notes for all abbreviations and acronyms		
Sample ID	OR E10 01	OR SPB10-C13 01	OR SPB10-C13 02	OR E7 01	OR E6 01	DT D5 01	DT B9 01	DT B4 01	DT C5 01	DT D7 01			
Depth	1.00	SURFACE	SURFACE	1.00	1.00	SURFACE	SURFACE	SURFACE	SURFACE	SURFACE			
COC No / misc Containers	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T			
Sample Date	15/12/2021	15/12/2021	15/12/2021	15/12/2021	15/12/2021	15/12/2021	15/12/2021	15/12/2021	15/12/2021	15/12/2021			
Sample Type	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	LOD/LOR	Units	Method No.
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	17/12/2021	17/12/2021	17/12/2021	17/12/2021	17/12/2021	17/12/2021	17/12/2021	17/12/2021	17/12/2021	17/12/2021			
SVOC MS													
Phenols													
2-Chlorophenol #	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
2-Methylphenol	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
2-Nitrophenol	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
2,4-Dichlorophenol #	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
2,4-Dimethylphenol	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
2,4,5-Trichlorophenol	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
2,4,6-Trichlorophenol	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
4-Chloro-3-methylphenol	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
4-Methylphenol	<10	<10	95	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
4-Nitrophenol	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
Pentachlorophenol	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
Phenol #	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
PAHs													
2-Chloronaphthalene #	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
2-Methylnaphthalene #	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
Phthalates													
Bis(2-ethylhexyl) phthalate	339	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	ug/kg	TM16/PM8
Butylbenzyl phthalate	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	ug/kg	TM16/PM8
Di-n-butyl phthalate	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	ug/kg	TM16/PM8
Di-n-Octyl phthalate	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	ug/kg	TM16/PM8
Diethyl phthalate	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	ug/kg	TM16/PM8
Dimethyl phthalate #	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	ug/kg	TM16/PM8
Other SVOCs													
1,2-Dichlorobenzene	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
1,2,4-Trichlorobenzene #	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
1,3-Dichlorobenzene	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
1,4-Dichlorobenzene	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
2-Nitroaniline	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
2,4-Dinitrotoluene	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
2,6-Dinitrotoluene	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
3-Nitroaniline	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
4-Bromophenylphenylether #	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
4-Chloroaniline	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
4-Chlorophenylphenylether	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
4-Nitroaniline	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
Azobenzene	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
Bis(2-chloroethoxy)methane	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
Bis(2-chloroethyl)ether	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
Carbazole	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
Dibenzofuran #	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
Hexachlorobenzene	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
Hexachlorobutadiene #	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
Hexachlorocyclopentadiene	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
Hexachloroethane	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
Isophorone #	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
N-nitrosodi-n-propylamine #	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
Nitrobenzene #	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
Surrogate Recovery 2-Fluorobiphenyl	110	114	120	113	116	115	117	116	101	112	<0	%	TM16/PM8
Surrogate Recovery p-Terphenyl-d14	120	122	132 ^{SV}	111	125	117	111	126	103	118	<0	%	TM16/PM8

Element Materials Technology

Client Name: EPS Ltd
Reference: UK21.5634
Location: 32 New Lane, Havant
Contact: Paul O'Connor
EMT Job No: 21/20255

VOC Report : Solid

EMT Sample No.	1-3	7-9	10-12	13-15	16-18	19-21	22-24	25-27	28-30	31-33	Please see attached notes for all abbreviations and acronyms		
Sample ID	OR E10 01	OR SPB10-C13 01	OR SPB10-C13 02	OR E7 01	OR E6 01	DT D5 01	DT B9 01	DT B4 01	DT C5 01	DT D7 01			
Depth	1.00	SURFACE	SURFACE	1.00	1.00	SURFACE	SURFACE	SURFACE	SURFACE	SURFACE			
COC No / misc Containers	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T			
Sample Date	15/12/2021	15/12/2021	15/12/2021	15/12/2021	15/12/2021	15/12/2021	15/12/2021	15/12/2021	15/12/2021	15/12/2021			
Sample Type	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	17/12/2021	17/12/2021	17/12/2021	17/12/2021	17/12/2021	17/12/2021	17/12/2021	17/12/2021	17/12/2021	17/12/2021	LOD/LOR	Units	Method No.
VOC MS													
Dichlorodifluoromethane	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	ug/kg	TM15/PM10
Methyl Tertiary Butyl Ether #	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	ug/kg	TM15/PM10
Chloromethane #	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
Vinyl Chloride	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	ug/kg	TM15_A/PM10
Bromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ug/kg	TM15/PM10
Chloroethane #	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	ug/kg	TM15/PM10
Trichlorofluoromethane #	<2	<2	<2	3	2	23	<2	<2	53	5	<2	ug/kg	TM15/PM10
1,1-Dichloroethene (1,1 DCE) #	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	ug/kg	TM15/PM10
Dichloromethane (DCM) #	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	ug/kg	TM15/PM10
trans-1,2-Dichloroethene #	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
1,1-Dichloroethane #	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
cis-1,2-Dichloroethene #	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
2,2-Dichloropropane	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	ug/kg	TM15/PM10
Bromochloromethane #	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
Chloroform #	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
1,1,1-Trichloroethane #	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
1,1-Dichloropropene #	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
Carbon tetrachloride #	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	ug/kg	TM15/PM10
1,2-Dichloroethane #	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	ug/kg	TM15/PM10
Benzene #	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
Trichloroethene (TCE) #	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
1,2-Dichloropropane #	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	ug/kg	TM15/PM10
Dibromomethane #	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
Bromodichloromethane #	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
cis-1,3-Dichloropropene	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	ug/kg	TM15/PM10
Toluene #	<3	3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
trans-1,3-Dichloropropene	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
1,1,2-Trichloroethane #	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
Tetrachloroethene (PCE) #	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
1,3-Dichloropropane #	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
Dibromochloromethane #	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
1,2-Dibromoethane #	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
Chlorobenzene #	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
1,1,1,2-Tetrachloroethane #	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
Ethylbenzene #	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
m/p-Xylene #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM15/PM10
o-Xylene #	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
Styrene	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15_A/PM10
Bromoform	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
Isopropylbenzene #	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
1,1,2,2-Tetrachloroethane #	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
Bromobenzene	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	ug/kg	TM15/PM10
1,2,3-Trichloropropane #	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	ug/kg	TM15/PM10
Propylbenzene #	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	ug/kg	TM15/PM10
2-Chlorotoluene	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
1,3,5-Trimethylbenzene #	<3	4	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
4-Chlorotoluene	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
tert-Butylbenzene #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM15/PM10
1,2,4-Trimethylbenzene #	<6	10	<6	<6	<6	<6	<6	<6	<6	<6	<6	ug/kg	TM15/PM10
sec-Butylbenzene #	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	ug/kg	TM15/PM10
4-Isopropyltoluene #	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	ug/kg	TM15/PM10
1,3-Dichlorobenzene #	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	ug/kg	TM15/PM10
1,4-Dichlorobenzene #	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	ug/kg	TM15/PM10
n-Butylbenzene #	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	ug/kg	TM15/PM10
1,2-Dichlorobenzene #	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	ug/kg	TM15/PM10
1,2-Dibromo-3-chloropropane #	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	ug/kg	TM15/PM10
1,2,4-Trichlorobenzene	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	ug/kg	TM15/PM10
Hexachlorobutadiene	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	ug/kg	TM15/PM10
Naphthalene	<27	<27	<27	<27	<27	<27	<27	<27	<27	<27	<27	ug/kg	TM15/PM10
1,2,3-Trichlorobenzene	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	ug/kg	TM15/PM10
Surrogate Recovery Toluene D8	96	96	97	100	95	107	100	109	107	105	<0	%	TM15/PM10
Surrogate Recovery 4-Bromofluorobenzene	92	88	93	91	95	100	98	98	99	98	<0	%	TM15/PM10

Matrix : Solid

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Client Name: EPS Ltd
Reference: UK21.5634
Location: 32 New Lane, Havant
Contact: Paul O'Connor

Note:

Asbestos Screen analysis is carried out in accordance with our documented in-house methods PM042 and TM065 and HSG 248 by Stereo and Polarised Light Microscopy using Dispersion Staining Techniques and is covered by our UKAS accreditation. Detailed Gravimetric Quantification and PCOM Fibre Analysis is carried out in accordance with our documented in-house methods PM042 and TM131 and HSG 248 using Stereo and Polarised Light Microscopy and Phase Contrast Optical Microscopy (PCOM). Samples are retained for not less than 6 months from the date of analysis unless specifically requested.

Opinions, including ACM type and Asbestos level less than 0.1%, lie outside the scope of our UKAS accreditation.

Where the sample is not taken by a Element Materials Technology consultant, Element Materials Technology cannot be responsible for inaccurate or unrepresentative sampling.

EMT Job No.	Batch	Sample ID	Depth	EMT Sample No.	Date Of Analysis	Analysis	Result
21/20255	1	OR E10 01	1.00	3	29/12/2021	General Description (Bulk Analysis)	soil
					29/12/2021	Asbestos Fibres	NAD
					29/12/2021	Asbestos ACM	NAD
					29/12/2021	Asbestos Type	NAD
					29/12/2021	Asbestos Level Screen	NAD
21/20255	1	OR D12 01	1.00	6	29/12/2021	General Description (Bulk Analysis)	soil
					29/12/2021	Asbestos Fibres	NAD
					29/12/2021	Asbestos ACM	NAD
					29/12/2021	Asbestos Type	NAD
					29/12/2021	Asbestos Level Screen	NAD
21/20255	1	OR SPB10-C13 01	SURFACE	9	29/12/2021	General Description (Bulk Analysis)	soil
					29/12/2021	Asbestos Fibres	NAD
					29/12/2021	Asbestos ACM	NAD
					29/12/2021	Asbestos Type	NAD
					29/12/2021	Asbestos Level Screen	NAD
21/20255	1	OR SPB10-C13 02	SURFACE	12	29/12/2021	General Description (Bulk Analysis)	soil
					29/12/2021	Asbestos Fibres	NAD
					29/12/2021	Asbestos ACM	NAD
					29/12/2021	Asbestos Type	NAD
					29/12/2021	Asbestos Level Screen	NAD
21/20255	1	OR E7 01	1.00	15	24/12/2021	General Description (Bulk Analysis)	Soil/Stone
					24/12/2021	Asbestos Fibres	NAD
					24/12/2021	Asbestos ACM	NAD
					24/12/2021	Asbestos Type	NAD
					24/12/2021	Asbestos Level Screen	NAD
21/20255	1	OR E6 01	1.00	18	24/12/2021	General Description (Bulk Analysis)	Soil/Stone
					24/12/2021	Asbestos Fibres	NAD
					24/12/2021	Asbestos ACM	NAD
					24/12/2021	Asbestos Type	NAD
					24/12/2021	Asbestos Level Screen	NAD
21/20255	1	DT D5 01	SURFACE	21	24/12/2021	General Description (Bulk Analysis)	Soil/Stone
					24/12/2021	Asbestos Fibres	NAD
					24/12/2021	Asbestos ACM	NAD

Client Name: EPS Ltd
Reference: UK21.5634
Location: 32 New Lane, Havant
Contact: Paul O'Connor

EMT Job No.	Batch	Sample ID	Depth	EMT Sample No.	Date Of Analysis	Analysis	Result
21/20255	1	DT D5 01	SURFACE	21	24/12/2021	Asbestos Type	NAD
					24/12/2021	Asbestos Level Screen	NAD
21/20255	1	DT B9 01	SURFACE	24	29/12/2021	General Description (Bulk Analysis)	Soil/Stone
					29/12/2021	Asbestos Fibres	NAD
					29/12/2021	Asbestos ACM	NAD
					29/12/2021	Asbestos Type	NAD
					29/12/2021	Asbestos Level Screen	NAD
21/20255	1	DT B4 01	SURFACE	27	24/12/2021	General Description (Bulk Analysis)	Soil/Stone
					24/12/2021	Asbestos Fibres	Fibre Bundles
					24/12/2021	Asbestos ACM	NAD
					24/12/2021	Asbestos Type	Amosite
					24/12/2021	Asbestos Level Screen	less than 0.1%
					05/01/2022	Total ACM Gravimetric Quantification (% Asb)	<0.001 (mass %)
					05/01/2022	Total Detailed Gravimetric Quantification (% Asb)	<0.001 (mass %)
					05/01/2022	Total Gravimetric Quantification (ACM + Detailed) (% Asb)	<0.001 (mass %)
					07/01/2022	Asbestos PCOM Quantification (Fibres)	<0.001 (mass %)
					07/01/2022	Asbestos Gravimetric & PCOM Total	<0.001 (mass %)
21/20255	1	DT C5 01	SURFACE	30	24/12/2021	General Description (Bulk Analysis)	Soil/Stone
					24/12/2021	Asbestos Fibres	Fibre Bundles
					24/12/2021	Asbestos ACM	NAD
					24/12/2021	Asbestos Type	Chrysotile
					24/12/2021	Asbestos Level Screen	less than 0.1%
					05/01/2022	Total ACM Gravimetric Quantification (% Asb)	<0.001 (mass %)
					05/01/2022	Total Detailed Gravimetric Quantification (% Asb)	<0.001 (mass %)
					05/01/2022	Total Gravimetric Quantification (ACM + Detailed) (% Asb)	<0.001 (mass %)
					07/01/2022	Asbestos PCOM Quantification (Fibres)	<0.001 (mass %)
					07/01/2022	Asbestos Gravimetric & PCOM Total	<0.001 (mass %)
21/20255	1	DT D7 01	SURFACE	33	24/12/2021	General Description (Bulk Analysis)	Soil/Stone
					24/12/2021	Asbestos Fibres	NAD
					24/12/2021	Asbestos ACM	NAD
					24/12/2021	Asbestos Type	NAD
					24/12/2021	Asbestos Level Screen	NAD

Client Name: EPS Ltd
Reference: UK21.5634
Location: 32 New Lane, Havant
Contact: Paul O'Connor

Matrix : Solid

[illegible]

Please note that only samples that are deviating are mentioned in this report. If no samples are listed it is because none were deviating. Only analyses which are accredited are recorded as deviating if set criteria are not met.

NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

EMT Job No.: 21/20255

SOILS

Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Limits of detection for analyses carried out on as received samples are not moisture content corrected. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

Where a CEN 10:1 ZERO Headspace VOC test has been carried out, a 10:1 ratio of water to wet (as received) soil has been used.

% Asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264 The Survey Guide - Appendix 2 : ACMs in buildings listed in order of ease of fibre release.

Sufficient amount of sample must be received to carry out the testing specified. Where an insufficient amount of sample has been received the testing may not meet the requirements of our accredited methods, as such accreditation may be removed.

Negative Neutralization Potential (NP) values are obtained when the volume of NaOH (0.1N) titrated (pH 8.3) is greater than the volume of HCl (1N) to reduce the pH of the sample to 2.0 - 2.5. Any negative NP values are corrected to 0.

The calculation of Pyrite content assumes that all oxidisable sulphides present in the sample are pyrite. This may not be the case. The calculation may be an overestimate when other sulphides such as Barite (Barium Sulphate) are present.

WATERS

Please note we are not a UK Drinking Water Inspectorate (DWI) Approved Laboratory .

ISO17025 accreditation applies to surface water and groundwater and usually one other matrix which is analysis specific, any other liquids are outside our scope of accreditation.

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

DEVIATING SAMPLES

All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. The temperature of sample receipt is recorded on the confirmation schedules in order that the client can make an informed decision as to whether testing should still be undertaken.

SURROGATES

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

DILUTIONS

A dilution suffix indicates a dilution has been performed and the reported result takes this into account. No further calculation is required.

BLANKS

Where analytes have been found in the blank, the sample will be treated in accordance with our laboratory procedure for dealing with contaminated blanks.

NOTE

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a UKAS requirement for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.

Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.

Please include all sections of this report if it is reproduced

REPORTS FROM THE SOUTH AFRICA LABORATORY

Any method number not prefixed with SA has been undertaken in our UK laboratory unless reported as subcontracted.

Measurement Uncertainty

Measurement uncertainty defines the range of values that could reasonably be attributed to the measured quantity. This range of values has not been included within the reported results. Uncertainty expressed as a percentage can be provided upon request.

ABBREVIATIONS and ACRONYMS USED

#	ISO17025 (UKAS Ref No. 4225) accredited - UK.
SA	ISO17025 (SANAS Ref No.T0729) accredited - South Africa
B	Indicates analyte found in associated method blank.
DR	Dilution required.
M	MCERTS accredited.
NA	Not applicable
NAD	No Asbestos Detected.
ND	None Detected (usually refers to VOC and/SVOC TICs).
NDP	No Determination Possible
SS	Calibrated against a single substance
SV	Surrogate recovery outside performance criteria. This may be due to a matrix effect.
W	Results expressed on as received basis.
+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
>>	Results above calibration range, the result should be considered the minimum value. The actual result could be significantly higher.
*	Analysis subcontracted to an Element Materials Technology approved laboratory.
AD	Samples are dried at 35°C ±5°C
CO	Suspected carry over
LOD/LOR	Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS
ME	Matrix Effect
NFD	No Fibres Detected
BS	AQC Sample
LB	Blank Sample
N	Client Sample
TB	Trip Blank Sample
OC	Outside Calibration Range

HWOL ACRONYMS AND OPERATORS USED

HS	Headspace Analysis.
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent.
CU	Clean-up - e.g. by florisil, silica gel.
1D	GC - Single coil gas chromatography.
Total	Aliphatics & Aromatics.
AL	Aliphatics only.
AR	Aromatics only.
2D	GC-GC - Double coil gas chromatography.
#1	EH_Total but with humics mathematically subtracted
#2	EU_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +).
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total
MS	Mass Spectrometry.

EMT Job No: 21/20255

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
PM4	Gravimetric measurement of Natural Moisture Content and % Moisture Content at either 35°C or 105°C. Calculation based on ISO 11465:1993(E) and BS1377-2:1990.	PM0	No preparation is required.			AR	
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.			AR	Yes
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.	Yes		AR	Yes
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM16	Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE.			AR	
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM8/PM16	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required/Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE.	Yes		AR	Yes
TM5/TM36	please refer to TM5 and TM36 for method details	PM8/PM12/PM16	please refer to PM8/PM16 and PM12 for method details			AR	Yes
TM5/TM36	please refer to TM5 and TM36 for method details	PM8/PM12/PM16	please refer to PM8/PM16 and PM12 for method details	Yes		AR	Yes
PM13	A visual examination of the solid sample is carried out to ascertain sample make up, colour and any other inclusions. This is not a geotechnical description.	PM0	No preparation is required.			AR	No
TM15	Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.	PM10	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.			AR	Yes
TM15	Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.	PM10	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.	Yes		AR	Yes

EMT Job No: 21/20255

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM16	Modified USEPA 8270D v5:2014. Quantitative determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.			AR	Yes
TM16	Modified USEPA 8270D v5:2014. Quantitative determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.	Yes		AR	Yes
TM21	Modified BS 7755-3:1995, ISO10694:1995 Determination of Total Organic Carbon or Total Carbon by combustion in an Eltra TOC furnace/analyser in the presence of oxygen. The CO2 generated is quantified using infra-red detection. Organic Matter (SOM) calculated as per EA MCERTS Chemical Testing of Soil, March 2012 v4.	PM24	Dried and ground solid samples are washed with hydrochloric acid, then rinsed with deionised water to remove the mineral carbon before TOC analysis.			AD	Yes
TM26	Determination of phenols by Reversed Phased High Performance Liquid Chromatography and Electro-Chemical Detection.	PM21B	As Received samples are extracted in Methanol: Water (60:40) by reciprocal shaker.			AR	Yes
TM30	Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma – Optical Emission Spectrometry): WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996	PM15	Acid digestion of dried and ground solid samples using Aqua Regia refluxed at 112.5 °C. Samples containing asbestos are not dried and ground.	Yes		AD	Yes
TM36	Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GC/FID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested.	PM12	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.			AR	Yes
TM36	Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GC/FID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested.	PM12	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.	Yes		AR	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.	Yes		AD	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.			AR	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.	Yes		AR	Yes

EMT Job No: 21/20255

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/S ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM50	Acid soluble sulphate (Total Sulphate) analysed by ICP-OES	PM29	A hot hydrochloric acid digest is performed on a dried and ground sample, and the resulting liquor is analysed.	Yes		AD	Yes
TM65	Asbestos Bulk Identification method based on HSG 248 First edition (2006)	PM42	Modified SCA Blue Book V.12 draft 2017 and WM3 1st Edition v1.1:2018. Solid samples undergo a thorough visual inspection for asbestos fibres prior to asbestos identification using TM065.	Yes		AR	
TM73	Modified US EPA methods 150.1 (1982) and 9045D Rev. 4 - 2004) and BS1377-3:1990. Determination of pH by Metrohm automated probe analyser.	PM11	Extraction of as received solid samples using one part solid to 2.5 parts deionised water.	Yes		AR	No
TM89	Modified USEPA method OIA-1667 (1999). Determination of cyanide by Flow Injection Analyser. Where WAD cyanides are required a Ligand displacement step is carried out before analysis.	PM45	As received solid samples are extracted with 1M NaOH by orbital shaker for Cyanide, Sulphide and Thiocyanate analysis.	Yes		AR	Yes
TM131	Quantification of Asbestos Fibres and ACM based on HSG248 First edition:2006, HSG 264 Second edition:2012, HSE Contract Research Report No.83/1996, MDHS 87:1998, WM3 1st Edition v1.1:2018	PM42	Modified SCA Blue Book V.12 draft 2017 and WM3 1st Edition v1.1:2018. Solid samples undergo a thorough visual inspection for asbestos fibres prior to asbestos identification using TM065.	Yes		AR	Yes
NONE	No Method Code	NONE	No Method Code			AD	Yes
TM15_A	Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds, Vinyl Chloride & Styrene by Headspace GC-MS.	PM10	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.			AR	Yes

EPS Ltd
10-12 East Parade
Leeds
LS1 2BH



Attention : Paul O'Connor
Date : 12th January, 2022
Your reference : UK21.5634
Our reference : Test Report 21/20574 Batch 1
Location : 32, New Lane, Havant (Pfizer), PO9 2NG
Date samples received : 23rd December, 2021
Status : Final Report
Issue : 1

Seventeen samples were received for analysis on 23rd December, 2021 of which sixteen were scheduled for analysis. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.

All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

Authorised By:



Hayley Prowse
Project Manager

Please include all sections of this report if it is reproduced

Client Name: EPS Ltd
Reference: UK21.5634
Location: 32, New Lane, Havant (Pfizer), PO9 2NG
Contact: Paul O'Connor
EMT Job No: 21/20574

EMT Sample No.	33-35	36-38	39-41	42-44	45-47	48-50					Please see attached notes for all abbreviations and acronyms		
Sample ID	DT C10 01	DT C12 01	DT E9 01	DT F8 01	DT G7 01	DT G9 01							
Depth	0.50												
COC No / misc													
Containers	V J T	V J T	V J T	V J T	V J T	V J T							
Sample Date	21/12/2021	21/12/2021	21/12/2021	21/12/2021	21/12/2021	21/12/2021							
Sample Type	Clay	Clay	Clay	Clay	Clay	Clay							
Batch Number	1	1	1	1	1	1					LOD/LOR	Units	Method No.
Date of Receipt	23/12/2021	23/12/2021	23/12/2021	23/12/2021	23/12/2021	23/12/2021							
Arsenic [#]	10.4	10.4	9.5	10.3	7.4	11.9					<0.5	mg/kg	TM30/PM15
Cadmium [#]	0.6	0.4	0.5	0.4	0.6	0.5					<0.1	mg/kg	TM30/PM15
Chromium [#]	52.9	54.7	59.3	52.4	43.6	53.0					<0.5	mg/kg	TM30/PM15
Copper [#]	16	14	14	15	11	17					<1	mg/kg	TM30/PM15
Lead [#]	33	16	24	23	17	22					<5	mg/kg	TM30/PM15
Mercury [#]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1					<0.1	mg/kg	TM30/PM15
Nickel [#]	20.1	30.4	22.6	24.7	18.3	29.8					<0.7	mg/kg	TM30/PM15
Selenium [#]	<1	<1	<1	<1	<1	<1					<1	mg/kg	TM30/PM15
Total Sulphate as SO4 [#]	2074	851	1211	595	693	546					<50	mg/kg	TM50/PM29
Zinc [#]	92	70	60	62	51	65					<5	mg/kg	TM30/PM15
PAH MS													
Naphthalene [#]	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04					<0.04	mg/kg	TM4/PM8
Acenaphthylene	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03					<0.03	mg/kg	TM4/PM8
Acenaphthene [#]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05					<0.05	mg/kg	TM4/PM8
Fluorene [#]	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04					<0.04	mg/kg	TM4/PM8
Phenanthrene [#]	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03					<0.03	mg/kg	TM4/PM8
Anthracene [#]	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04					<0.04	mg/kg	TM4/PM8
Fluoranthene [#]	0.04	<0.03	0.04	<0.03	0.03	<0.03					<0.03	mg/kg	TM4/PM8
Pyrene [#]	0.04	<0.03	0.03	<0.03	<0.03	<0.03					<0.03	mg/kg	TM4/PM8
Benzo(a)anthracene [#]	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06					<0.06	mg/kg	TM4/PM8
Chrysene [#]	0.04	<0.02	<0.02	<0.02	0.03	<0.02					<0.02	mg/kg	TM4/PM8
Benzo(bk)fluoranthene [#]	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07					<0.07	mg/kg	TM4/PM8
Benzo(a)pyrene [#]	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04					<0.04	mg/kg	TM4/PM8
Indeno(123cd)pyrene [#]	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04					<0.04	mg/kg	TM4/PM8
Dibenzo(ah)anthracene [#]	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04					<0.04	mg/kg	TM4/PM8
Benzo(ghi)perylene [#]	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04					<0.04	mg/kg	TM4/PM8
PAH 16 Total	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6					<0.6	mg/kg	TM4/PM8
Benzo(b)fluoranthene	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05					<0.05	mg/kg	TM4/PM8
Benzo(k)fluoranthene	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02					<0.02	mg/kg	TM4/PM8
PAH Surrogate % Recovery	92	87	88	94	91	89					<0	%	TM4/PM8
Methyl Tertiary Butyl Ether [#]	<6	<6	<6	<6	<6	<6					<6	ug/kg	TM15/PM10
Benzene [#]	<5	<5	<5	<5	<5	<5					<5	ug/kg	TM15/PM10
Toluene [#]	<3	<3	<3	<3	<3	<3					<3	ug/kg	TM15/PM10
Ethylbenzene [#]	<3	<3	<3	<3	<3	<3					<3	ug/kg	TM15/PM10
m/p-Xylene [#]	<4	<4	<4	<4	<4	<4					<4	ug/kg	TM15/PM10
o-Xylene [#]	<4	<4	<4	<4	<4	<4					<4	ug/kg	TM15/PM10
Surrogate Recovery Toluene D8	104	103	104	117	103	99					<0	%	TM15/PM10
Surrogate Recovery 4-Bromofluorobenzene	95	89	86	106	97	94					<0	%	TM15/PM10
									</				

Client Name: EPS Ltd
Reference: UK21.5634
Location: 32, New Lane, Havant (Pfizer), PO9 2NG
Contact: Paul O'Connor
EMT Job No: 21/20574

VOC Report : Solid

EMT Sample No.	1-3	4-6	7-9	10-13	14-17	18-20	21-23	24-26	27-29		Please see attached notes for all abbreviations and acronyms		
Sample ID	SP02 J3 01	SP02 J4 02	SP02 K3 03	SP03 C5 01	SP03 C5 02	SP E6-G9 01	OR F11	OR F13	OR G6				
Depth							0.50	0.30	0.50				
COC No / misc													
Containers	V J T	V J T	V J T	V J T B	V J T B	V J T	V J T	V J T	V J T				
Sample Date	21/12/2021	21/12/2021	21/12/2021	21/12/2021	21/12/2021	21/12/2021	21/12/2021	21/12/2021	21/12/2021				
Sample Type	Silt	Silt	Clayey Sand	Clayey Sand	Silt	Clay	Clayey Silt	Clay	Clay				
Batch Number	1	1	1	1	1	1	1	1	1				
Date of Receipt	23/12/2021	23/12/2021	23/12/2021	23/12/2021	23/12/2021	23/12/2021	23/12/2021	23/12/2021	23/12/2021		LOD/LOR	Units	Method No.
VOC MS													
Dichlorodifluoromethane	<2	<2	<2	<2	<2	<2	<2	<2	<2		<2	ug/kg	TM15/PM10
Methyl Tertiary Butyl Ether [#]	<6	<6	<6	<6	<6	<6	<6	<6	<6		<6	ug/kg	TM15/PM10
Chloromethane [#]	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
Vinyl Chloride	<2	<2	<2	<2	<2	<2	<2	<2	<2		<2	ug/kg	TM15_A/PM10
Bromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1		<1	ug/kg	TM15/PM10
Chloroethane [#]	<6	<6	<6	<6	<6	<6	<6	<6	<6		<6	ug/kg	TM15/PM10
Trichlorofluoromethane [#]	456	723	203	200	13	3	<3	<3	<3		<3	ug/kg	TM15/PM10
1,1-Dichloroethene (1,1 DCE) [#]	<6	<6	<6	<6	<6	<6	<6	<6	<6		<6	ug/kg	TM15/PM10
Dichloromethane (DCM) [#]	<7	<7	<7	<7	<7	<7	<7	<7	<7		<7	ug/kg	TM15/PM10
trans-1,2-Dichloroethene [#]	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
1,1-Dichloroethane [#]	<6	<6	<6	<6	<6	<6	<6	<6	<6		<6	ug/kg	TM15/PM10
cis-1,2-Dichloroethene [#]	<7	<7	<7	<7	<7	<7	<7	<7	<7		<7	ug/kg	TM15/PM10
2,2-Dichloropropane	<4	<4	<4	<4	<4	<4	<4	<4	<4		<4	ug/kg	TM15/PM10
Bromochloromethane [#]	<4	<4	<4	<4	<4	<4	<4	<4	<4		<4	ug/kg	TM15/PM10
Chloroform [#]	<5	<5	<5	<5	<5	<5	<5	<5	<5		<5	ug/kg	TM15/PM10
1,1,1-Trichloroethane [#]	<5	<5	<5	<5	<5	<5	<5	<5	<5		<5	ug/kg	TM15/PM10
1,1-Dichloropropene [#]	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
Carbon tetrachloride [#]	<4	<4	<4	<4	<4	<4	<4	<4	<4		<4	ug/kg	TM15/PM10
1,2-Dichloroethane [#]	<5	<5	<5	<5	<5	<5	<5	<5	<5		<5	ug/kg	TM15/PM10
Benzene [#]	<5	<5	<5	<5	<5	<5	<5	<5	<5		<5	ug/kg	TM15/PM10
Trichloroethene (TCE) [#]	<5	<5	<5	<5	<5	<5	<5	<5	<5		<5	ug/kg	TM15/PM10
1,2-Dichloropropane [#]	<4	<4	<4	<4	<4	<4	<4	<4	<4		<4	ug/kg	TM15/PM10
Dibromomethane [#]	<4	<4	<4	<4	<4	<4	<4	<4	<4		<4	ug/kg	TM15/PM10
Bromodichloromethane [#]	<4	<4	<4	<4	<4	<4	<4	<4	<4		<4	ug/kg	TM15/PM10
cis-1,3-Dichloropropene	<4	<4	<4	<4	<4	<4	<4	<4	<4		<4	ug/kg	TM15/PM10
Toluene [#]	<3	<3	3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
trans-1,3-Dichloropropene	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
1,1,2-Trichloroethane [#]	<4	<4	<4	<4	<4	<4	<4	<4	<4		<4	ug/kg	TM15/PM10
Tetrachloroethene (PCE) [#]	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
1,3-Dichloropropane [#]	<4	<4	<4	<4	<4	<4	<4	<4	<4		<4	ug/kg	TM15/PM10
Dibromochloromethane [#]	<5	<5	<5	<5	<5	<5	<5	<5	<5		<5	ug/kg	TM15/PM10
1,2-Dibromoethane [#]	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
Chlorobenzene [#]	<4	<4	<4	<4	<4	<4	<4	<4	<4		<4	ug/kg	TM15/PM10
1,1,1,2-Tetrachloroethane [#]	<5	<5	<5	<5	<5	<5	<5	<5	<5		<5	ug/kg	TM15/PM10
Ethylbenzene [#]	6	3	6	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
m/p-Xylene [#]	17	13	30	5	<4	<4	<4	<4	<4		<4	ug/kg	TM15/PM10
o-Xylene [#]	<4	6	21	<4	<4	<4	<4	<4	<4		<4	ug/kg	TM15/PM10
Styrene	<3	<3	<3	<3	10	<3	<3	<3	<3		<3	ug/kg	TM15_A/PM10
Bromoform	<4	<4	<4	<4	<4	<4	<4	<4	<4		<4	ug/kg	TM15/PM10
Isopropylbenzene [#]	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
1,1,2,2-Tetrachloroethane [#]	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
Bromobenzene	<2	<2	<2	<2	<2	<2	<2	<2	<2		<2	ug/kg	TM15/PM10
1,2,3-Trichloropropane [#]	<4	<4	<4	<4	<4	<4	<4	<4	<4		<4	ug/kg	TM15/PM10
Propylbenzene [#]	<4	<4	<4	<4	<4	<4	<4	<4	<4		<4	ug/kg	TM15/PM10
2-Chlorotoluene	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
1,3,5-Trimethylbenzene [#]	10	8	34	4	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
4-Chlorotoluene	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
tert-Butylbenzene [#]	<5	<5	<5	<5	<5	<5	<5	<5	<5		<5	ug/kg	TM15/PM10
1,2,4-Trimethylbenzene [#]	43	33	84	6	<6	<6	<6	<6	<6		<6	ug/kg	TM15/PM10
sec-Butylbenzene [#]	<4	<4	<4	<4	<4	<4	<4	<4	<4		<4	ug/kg	TM15/PM10
4-Isopropyltoluene [#]	<4	<4	<4	<4	<4	<4	<4	<4	<4		<4	ug/kg	TM15/PM10
1,3-Dichlorobenzene [#]	<4	<4	<4	<4	<4	<4	<4	<4	<4		<4	ug/kg	TM15/PM10
1,4-Dichlorobenzene [#]	<4	<4	<4	<4	<4	<4	<4	<4	<4		<4	ug/kg	TM15/PM10
n-Butylbenzene [#]	<4	<4	<4	<4	<4	<4	<4	<4	<4		<4	ug/kg	TM15/PM10
1,2-Dichlorobenzene [#]	<4	<4	<4	<4	<4	<4	<4	<4	<4		<4	ug/kg	TM15/PM10
1,2-Dibromo-3-chloropropane [#]	<4	<4	<4	<4	<4	<4	<4	<4	<4		<4	ug/kg	TM15/PM10
1,2,4-Trichlorobenzene	<7	<7	<7	<7	<7	<7	<7	<7	<7		<7	ug/kg	TM15/PM10
Hexachlorobutadiene	<4	<4	<4	<4	<4	<4	<4	<4	<4		<4	ug/kg	TM15/PM10
Naphthalene	<27	<27	<27	<27	<27	<27	<27	<27	<27		<27	ug/kg	TM15/PM10
1,2,3-Trichlorobenzene	<7	<7	<7	<7	<7	<7	<7	<7	<7		<7	ug/kg	TM15/PM10
Surrogate Recovery Toluene D8	94	92	95	93	95	104	104	103	95		<0	%	TM15/PM10
Surrogate Recovery 4-Bromofluorobenzene	79	78	81	79	85	98	93	98	82		<0	%	TM15/PM10

Matrix : Solid

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Client Name: EPS Ltd
Reference: UK21.5634
Location: 32, New Lane, Havant (Pfizer), PO9 2NG
Contact: Paul O'Connor

Note:

Asbestos Screen analysis is carried out in accordance with our documented in-house methods PM042 and TM065 and HSG 248 by Stereo and Polarised Light Microscopy using Dispersion Staining Techniques and is covered by our UKAS accreditation. Detailed Gravimetric Quantification and PCOM Fibre Analysis is carried out in accordance with our documented in-house methods PM042 and TM131 and HSG 248 using Stereo and Polarised Light Microscopy and Phase Contrast Optical Microscopy (PCOM). Asbestos sub-samples are retained for not less than 6 months from the date of analysis unless specifically requested.

Opinions, including ACM type and Asbestos level less than 0.1%, lie outside the scope of our UKAS accreditation. Asbestos quantification to 0.001% dry fibre of dry mass of sample is accredited to ISO17025.

Where the sample is not taken by a Element Materials Technology consultant, Element Materials Technology cannot be responsible for inaccurate or unrepresentative sampling.

EMT Job No.	Batch	Sample ID	Depth	EMT Sample No.	Date Of Analysis	Analysis	Result
21/20574	1	SP02 J3 01		3	04/01/2022	General Description (Bulk Analysis)	Soil/Stones
					04/01/2022	Asbestos Fibres	NAD
					04/01/2022	Asbestos ACM	NAD
					04/01/2022	Asbestos Type	NAD
					04/01/2022	Asbestos Level Screen	NAD
21/20574	1	SP02 J4 02		6	04/01/2022	General Description (Bulk Analysis)	Soil/Stones
					04/01/2022	Asbestos Fibres	NAD
					04/01/2022	Asbestos ACM	NAD
					04/01/2022	Asbestos Type	NAD
					04/01/2022	Asbestos Level Screen	NAD
21/20574	1	SP02 K3 03		9	04/01/2022	General Description (Bulk Analysis)	Soil/Stones
					04/01/2022	Asbestos Fibres	NAD
					04/01/2022	Asbestos ACM	NAD
					04/01/2022	Asbestos Type	NAD
					04/01/2022	Asbestos Level Screen	NAD
21/20574	1	SP03 C5 01		12	04/01/2022	General Description (Bulk Analysis)	Soil/Stones
					04/01/2022	Asbestos Fibres	NAD
					04/01/2022	Asbestos ACM	NAD
					04/01/2022	Asbestos Type	NAD
					04/01/2022	Asbestos Level Screen	NAD
21/20574	1	SP03 C5 02		16	04/01/2022	General Description (Bulk Analysis)	soil/stones
					04/01/2022	Asbestos Fibres	NAD
					04/01/2022	Asbestos ACM	NAD
					04/01/2022	Asbestos Type	NAD
					04/01/2022	Asbestos Level Screen	NAD
21/20574	1	SP E6-G9 01		20	04/01/2022	General Description (Bulk Analysis)	soil
					04/01/2022	Asbestos Fibres	NAD
					04/01/2022	Asbestos ACM	NAD
					04/01/2022	Asbestos Type	NAD
					04/01/2022	Asbestos Level Screen	NAD
21/20574	1	OR F11	0.50	23	04/01/2022	General Description (Bulk Analysis)	soil/stones
					04/01/2022	Asbestos Fibres	NAD
					04/01/2022	Asbestos ACM	NAD

Client Name: EPS Ltd
Reference: UK21.5634
Location: 32, New Lane, Havant (Pfizer), PO9 2NG
Contact: Paul O'Connor

EMT Job No.	Batch	Sample ID	Depth	EMT Sample No.	Date Of Analysis	Analysis	Result
21/20574	1	OR F11	0.50	23	04/01/2022	Asbestos Type	NAD
					04/01/2022	Asbestos Level Screen	NAD
21/20574	1	OR F13	0.30	26	04/01/2022	General Description (Bulk Analysis)	soil/stones
					04/01/2022	Asbestos Fibres	NAD
					04/01/2022	Asbestos ACM	NAD
					04/01/2022	Asbestos Type	NAD
					04/01/2022	Asbestos Level Screen	NAD
21/20574	1	OR G6	0.50	29	04/01/2022	General Description (Bulk Analysis)	Soil/Stones
					04/01/2022	Asbestos Fibres	NAD
					04/01/2022	Asbestos ACM	NAD
					04/01/2022	Asbestos Type	NAD
					04/01/2022	Asbestos Level Screen	NAD
21/20574	1	DT B11 01	0.50	32	04/01/2022	General Description (Bulk Analysis)	soil
					04/01/2022	Asbestos Fibres	NAD
					04/01/2022	Asbestos ACM	NAD
					04/01/2022	Asbestos Type	NAD
					04/01/2022	Asbestos Level Screen	NAD
21/20574	1	DT C10 01	0.50	35	04/01/2022	General Description (Bulk Analysis)	Soil/Stones
					04/01/2022	Asbestos Fibres	NAD
					04/01/2022	Asbestos ACM	NAD
					04/01/2022	Asbestos Type	NAD
					04/01/2022	Asbestos Level Screen	NAD
21/20574	1	DT C12 01		38	04/01/2022	General Description (Bulk Analysis)	soil/stones
					04/01/2022	Asbestos Fibres	NAD
					04/01/2022	Asbestos ACM	NAD
					04/01/2022	Asbestos Type	NAD
					04/01/2022	Asbestos Level Screen	NAD
21/20574	1	DT E9 01		41	04/01/2022	General Description (Bulk Analysis)	soil
					04/01/2022	Asbestos Fibres	NAD
					04/01/2022	Asbestos ACM	NAD
					04/01/2022	Asbestos Type	NAD
					04/01/2022	Asbestos Level Screen	NAD
21/20574	1	DT F8 01		44	04/01/2022	General Description (Bulk Analysis)	soil
					04/01/2022	Asbestos Fibres	NAD
					04/01/2022	Asbestos Fibres (2)	NAD
					04/01/2022	Asbestos ACM	NAD
					04/01/2022	Asbestos Type	NAD
					04/01/2022	Asbestos Level Screen	NAD
21/20574	1	DT G7 01		47	04/01/2022	General Description (Bulk Analysis)	soil
					04/01/2022	Asbestos Fibres	NAD
					04/01/2022	Asbestos ACM	NAD
					04/01/2022	Asbestos Type	NAD
					04/01/2022	Asbestos Level Screen	NAD

Client Name: EPS Ltd
Reference: UK21.5634
Location: 32, New Lane, Havant (Pfizer), PO9 2NG
Contact: Paul O'Connor

[illegible]

Client Name: EPS Ltd
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Contact: Paul O'Connor

Contact: Paul O'Connor

Matrix : Solid

[illegible]

Please note that only samples that are deviating are mentioned in this report. If no samples are listed it is because none were deviating. Only analyses which are accredited are recorded as deviating if set criteria are not met.

NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

EMT Job No.: 21/20574

SOILS and ASH

Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. Asbestos samples are retained for 6 months.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Limits of detection for analyses carried out on as received samples are not moisture content corrected. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C. Ash samples are dried at 37°C ±5°C.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

Where a CEN 10:1 ZERO Headspace VOC test has been carried out, a 10:1 ratio of water to wet (as received) soil has been used.

% Asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264 The Survey Guide - Appendix 2 : ACMs in buildings listed in order of ease of fibre release.

Sufficient amount of sample must be received to carry out the testing specified. Where an insufficient amount of sample has been received the testing may not meet the requirements of our accredited methods, as such accreditation may be removed.

Negative Neutralization Potential (NP) values are obtained when the volume of NaOH (0.1N) titrated (pH 8.3) is greater than the volume of HCl (1N) to reduce the pH of the sample to 2.0 - 2.5. Any negative NP values are corrected to 0.

The calculation of Pyrite content assumes that all oxidisable sulphides present in the sample are pyrite. This may not be the case. The calculation may be an overestimate when other sulphides such as Barite (Barium Sulphate) are present.

WATERS

Please note we are not a UK Drinking Water Inspectorate (DWI) Approved Laboratory .

ISO17025 accreditation applies to surface water and groundwater and usually one other matrix which is analysis specific, any other liquids are outside our scope of accreditation.

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

STACK EMISSIONS

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation for Dioxins and Furans and Dioxin like PCBs has been performed on XAD-2 Resin, only samples which use this resin will be within our MCERTS scope.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

DEVIATING SAMPLES

All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. The temperature of sample receipt is recorded on the confirmation schedules in order that the client can make an informed decision as to whether testing should still be undertaken.

SURROGATES

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

DILUTIONS

A dilution suffix indicates a dilution has been performed and the reported result takes this into account. No further calculation is required.

BLANKS

Where analytes have been found in the blank, the sample will be treated in accordance with our laboratory procedure for dealing with contaminated blanks.

NOTE

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a UKAS requirement for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.

Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.

REPORTS FROM THE SOUTH AFRICA LABORATORY

Any method number not prefixed with SA has been undertaken in our UK laboratory unless reported as subcontracted.

Measurement Uncertainty

Measurement uncertainty defines the range of values that could reasonably be attributed to the measured quantity. This range of values has not been included within the reported results. Uncertainty expressed as a percentage can be provided upon request.

ABBREVIATIONS and ACRONYMS USED

#	ISO17025 (UKAS Ref No. 4225) accredited - UK.
SA	ISO17025 (SANAS Ref No.T0729) accredited - South Africa
B	Indicates analyte found in associated method blank.
DR	Dilution required.
M	MCERTS accredited.
NA	Not applicable
NAD	No Asbestos Detected.
ND	None Detected (usually refers to VOC and/SVOC TICs).
NDP	No Determination Possible
SS	Calibrated against a single substance
SV	Surrogate recovery outside performance criteria. This may be due to a matrix effect.
W	Results expressed on as received basis.
+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
>>	Results above calibration range, the result should be considered the minimum value. The actual result could be significantly higher.
*	Analysis subcontracted to an Element Materials Technology approved laboratory.
AD	Samples are dried at 35°C ±5°C
CO	Suspected carry over
LOD/LOR	Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS
ME	Matrix Effect
NFD	No Fibres Detected
BS	AQC Sample
LB	Blank Sample
N	Client Sample
TB	Trip Blank Sample
OC	Outside Calibration Range
AA	x5 Dilution

AB	x10 Dilution
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HWOL ACRONYMS AND OPERATORS USED

HS	Headspace Analysis.
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent.
CU	Clean-up - e.g. by florisil, silica gel.
1D	GC - Single coil gas chromatography.
Total	Aliphatics & Aromatics.
AL	Aliphatics only.
AR	Aromatics only.
2D	GC-GC - Double coil gas chromatography.
#1	EH_Total but with humics mathematically subtracted
#2	EU_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +).
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total
MS	Mass Spectrometry.

EMT Job No: 21/20574

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
PM4	Gravimetric measurement of Natural Moisture Content and % Moisture Content at either 35°C or 105°C. Calculation based on ISO 11465:1993(E) and BS1377-2:1990.	PM0	No preparation is required.			AR	
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.			AR	Yes
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.	Yes		AR	Yes
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM16	Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE.			AR	
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM8/PM16	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required/Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE.	Yes		AR	Yes
TM5/TM36	please refer to TM5 and TM36 for method details	PM8/PM12/PM16	please refer to PM8/PM16 and PM12 for method details			AR	Yes
TM5/TM36	please refer to TM5 and TM36 for method details	PM8/PM12/PM16	please refer to PM8/PM16 and PM12 for method details	Yes		AR	Yes
PM13	A visual examination of the solid sample is carried out to ascertain sample make up, colour and any other inclusions. This is not a geotechnical description.	PM0	No preparation is required.			AR	No
TM15	Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.	PM10	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.			AR	Yes
TM15	Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.	PM10	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.	Yes		AR	Yes

EMT Job No: 21/20574

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM16	Modified USEPA 8270D v5:2014. Quantitative determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.			AR	Yes
TM16	Modified USEPA 8270D v5:2014. Quantitative determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.	Yes		AR	Yes
TM21	Modified BS 7755-3:1995, ISO10694:1995 Determination of Total Organic Carbon or Total Carbon by combustion in an Eltra TOC furnace/analyser in the presence of oxygen. The CO ₂ generated is quantified using infra-red detection. Organic Matter (SOM) calculated as per EA MCERTS Chemical Testing of Soil, March 2012 v4.	PM24	Dried and ground solid samples are washed with hydrochloric acid, then rinsed with deionised water to remove the mineral carbon before TOC analysis.			AD	Yes
TM26	Determination of phenols by Reversed Phased High Performance Liquid Chromatography and Electro-Chemical Detection.	PM21B	As Received samples are extracted in Methanol: Water (60:40) by reciprocal shaker.			AR	Yes
TM30	Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma –Optical Emission Spectrometry): WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996	PM15	Acid digestion of dried and ground solid samples using Aqua Regia refluxed at 112.5 °C. Samples containing asbestos are not dried and ground.	Yes		AD	Yes
TM36	Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GC/FID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested.	PM12	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.			AR	Yes
TM36	Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GC/FID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested.	PM12	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.	Yes		AR	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH ₄ + 350.1 (Rev.2 1993) –Al anions comparable to BS ISO 15923-1: 2013I	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.	Yes		AD	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH ₄ + 350.1 (Rev.2 1993) –Al anions comparable to BS ISO 15923-1: 2013I	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.			AR	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH ₄ + 350.1 (Rev.2 1993) –Al anions comparable to BS ISO 15923-1: 2013I	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.	Yes		AR	Yes

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Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/S ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM50	Acid soluble sulphate (Total Sulphate) analysed by ICP-OES	PM29	A hot hydrochloric acid digest is performed on a dried and ground sample, and the resulting liquor is analysed.	Yes		AD	Yes
TM65	Asbestos Bulk Identification method based on HSG 248 First edition (2006)	PM42	Modified SCA Blue Book V.12 draft 2017 and WM3 1st Edition v1.1:2018. Solid samples undergo a thorough visual inspection for asbestos fibres prior to asbestos identification using TM065.	Yes		AR	
TM73	Modified US EPA methods 150.1 (1982) and 9045D Rev. 4 - 2004) and BS1377-3:1990. Determination of pH by Metrohm automated probe analyser.	PM11	Extraction of as received solid samples using one part solid to 2.5 parts deionised water.	Yes		AR	No
TM89	Modified USEPA method OIA-1667 (1999). Determination of cyanide by Flow Injection Analyser. Where WAD cyanides are required a Ligand displacement step is carried out before analysis.	PM45	As received solid samples are extracted with 1M NaOH by orbital shaker for Cyanide, Sulphide and Thiocyanate analysis.	Yes		AR	Yes
NONE	No Method Code	NONE	No Method Code			AD	Yes
TM15_A	Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds, Vinyl Chloride & Styrene by Headspace GC-MS.	PM10	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.			AR	Yes