

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1018

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Photograph 1: Overview of the site. Looking towards the north.



Photograph 2: Excavation of landfill Made Ground in south of the site.

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Photograph 3: Backfilling of central part of the site using excavated material from south of the site.



Photograph 4: Backfilling of western part of the site using excavated material from south of the site.

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Photograph 5: Proof rolling of fill material in southern part of the site.



Photograph 6: Proof rolling of fill material in western part of the site.

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Photograph 7: Proof rolling of fill material in northern part of the culvert.



Photograph 8: Deleterious material in excavation in southern part of the site.

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Photograph 9: Proof rolling and backfilling in western part of the site



Photograph 10: Deleterious materials in central part of the site.

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Photograph 91: Crushing concrete and asphalt in eastern part of the site.



Photograph 110: Soft spot in excavation in southern part of the site.

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Photograph 113: Hand picking of asbestos in stockpile in western part of the site.



Photograph 14: High quantity of bricks in fill material in western part of the site. Material excavated from southern part of the site. Material with this quantity of brick not acceptable

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Photograph 125: Hand picking of deleterious material in southwest of the site.



Photograph 136: Southern boundary of the site. Looking towards the east.

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Photograph 147: Western boundary of the site. Looking towards the north.



Photograph 158: Asbestos contaminated stockpile after asbestos picking operation in southwest of the site.



Photograph 169: Wood and plastic in crushed concrete and asphalt stockpile in northwest of the site. VHE to provide constituent parts testing



Photograph 20: Stockpiling crushed concrete and asphalt in northwest of the site.



Photograph 179: Excavation of topsoil in northeast of the site.



Photograph 20: Stockpiling excavated topsoil from northeastern part of the site in northwest of the site.



Photograph 189: High quantity of bricks and deleterious material in excavation in southern part of the site. Avoid transporting to fill areas



Photograph 20: Stockpiling excavated landfill Made Ground from southern part of the site in stockpile in northeast of the site.

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Photograph 199: Reducing dust on site using dust suppression unit.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1019		SHEET NO.: 1 of 11	
Project: Stopes Road, Bolton		Date: 06/09/22	
Client: Harworth		Weather: Rain on and off	
Contract No.: C-15220-C		Engineer: D Mahdavian	
Doc Ref: 15220-HYD-XX-XX-SVR-GE-1019		Status & Revision: S2 – P1	

Personnel Present:			
Organisation	Role		Name
VHE	Deputy Project Manager		Gary Davis
VHE	Site Foreman		Eddie Gillespie
A: Review of Earthworks Testing Records to Appendix 1/24 Clause 6.5			
Item	Evidence of Record		Comment
	Yes	No	
Records reviewed on site		✓	Testing schedule not reviewed at time of visit
Sequential Test Number		na	
Date of Test		na	
Coordinated Position		na	
Test Grid Reference		na	
Layer No		na	
Source material Type		na	
Results checked for compliance		na	
C: Additional activities to be observed by Hydrock during Audit Visit			
Item	Observed on Site		Comment
	Yes	No	
Temporary Slopes	✓		Excavation sides generally battered to safe angle where open for any significant period
Excavation and site surveying		✓	No excavation due to whether
De-watering of excavations		✓	No dewatering
Control & management of water	✓		Some standing water due to rain, surfaces sealed
Compaction Trials completed	✓		Completed waiting for assessment
Layer thickness - check		✓	No filling
Compaction method – check		✓	Proof rolling to seal surfaces
Benching in of fill - check		✓	n/a
Stockpiling of material	✓		Stockpiling crushed concrete and asphalt.
Inspection of subgrade	✓		Generally proof rolled and sealed
Quality management of fill		✓	Some deleterious in concrete stockpile, fill material in the south and southern excavation being removed. VHE was informed to screen the material and a screen will be on site this week.
Works Undertaken by the Contractor:			

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VHE

- Existence of deleterious material including concrete, metal, wood and plastic in material in southwestern, central, part of the site and stockpiled material in eastern part of the site.
- Excavation in southeastern part of the site to check existence of electricity cable.
- Crushing concrete and asphalt using crusher in eastern part of the site.
- Stockpiling crushed concrete and asphalt in eastern part of the site.
- Murray Rix carried out SRD tests on the fill material in northwest of the site.

Discussions/Recommendations & Instructions:

To/From VHE

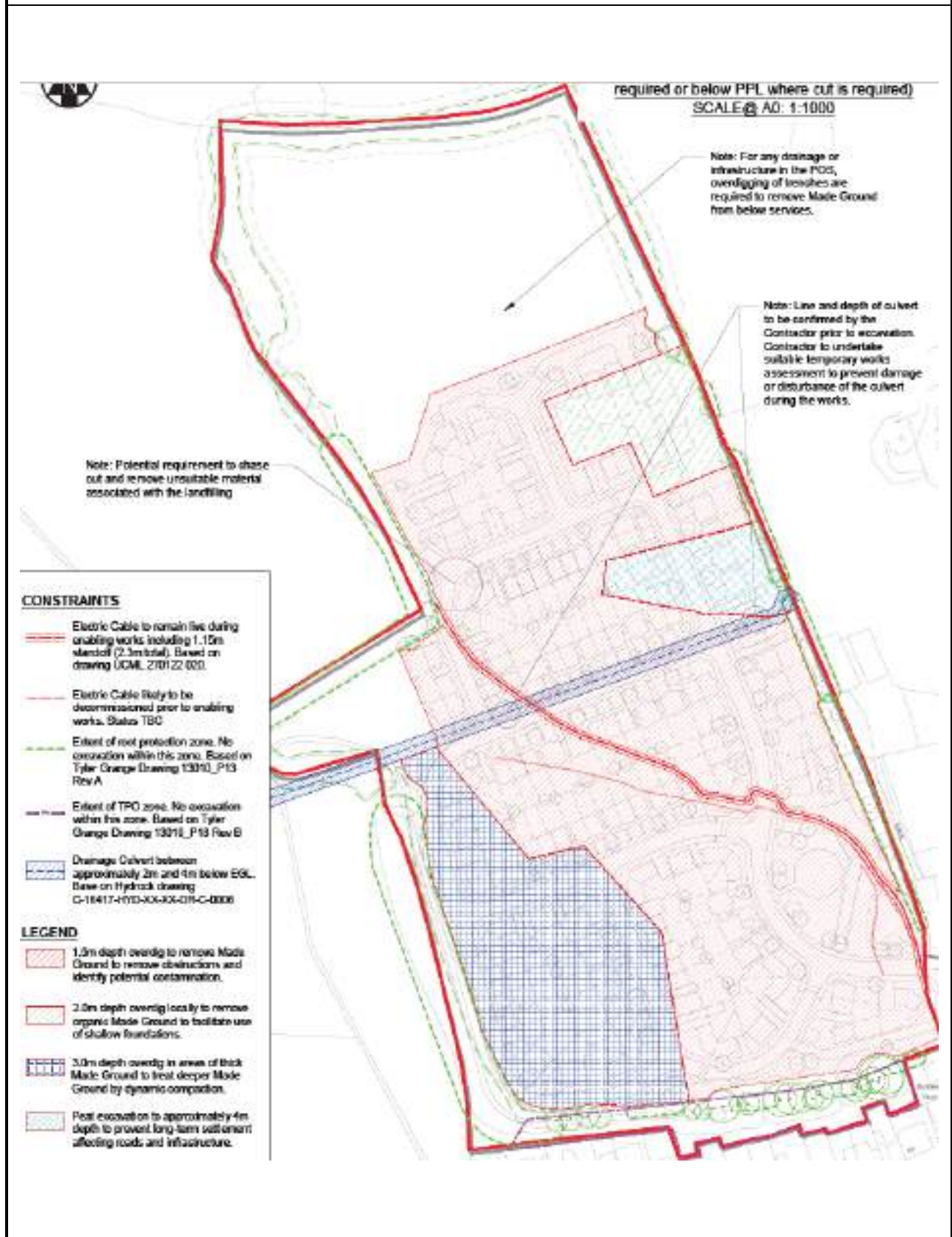
VHE had stopped excavation and backfilling due to weather condition and rainfall.

Quality management of the fill was discussed. VHE stated that a screener will be on site this week.

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Site Plan



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Hydrock Comment	Contractor Proposal/Solution	Action Status
Designs		
RDC/HEIC design required	Design developed by Contractor and AWP	Final design completed following site trials. Works progressing. Awaiting formal comment from NHBC
Mine Treatment Design	Design to be developed as far as possible based on current information.	Final comments from NHBC to be addressed by VHE
Test Reports and Records		
Time lag of geotechnical and geochemical testing.	Contractor confirmed 15 days turnaround time.	Client team to be notified if any test data will be delayed. No lab test delay reported.
Source approval note	Contractor (AWP) agreed to provide a note on the different sources, volumes and testing ahead of the compaction trials	Report provided by VHE (TN005) 02/09. Hydrock to review.
Fortnightly Testing Report (latest report to be sent monthly to NHBC)	Contractor / AWP agreed to provide a report every fortnight demonstrating compliance with the material testing specification and suitability of formations	Frequency increased to weekly. First report received 18/08 but comments from Hydrock and NHBC need addressing.
Evidence of material tracking and stockpile surveys required.	VHE agreed provision of weekly records	Latest stockpile survey 30/08 and fill survey 10/08. Weekly surveys not being met. Additional survey required
Base of excavation records	Tracker to be provided demonstrating inspection and testing prior to backfilling.	No tracker or drawing provided. DF requested DWG to check excavation extents.
Compaction Trial Assessment	Analysis of compaction trial required to demonstrate method is suitable to meet end product criteria	Report provided by VHE (TN005) 02/09. Hydrock to review.
Soft Spot records	Soft spot record sheets provided by RH on 12/08 are a good record of the works undertaken and will be issued to Hydrock periodically	Latest soft spot records issued for 1,2,3. Further reports required for remaining soft spots
Other		
Coal Authority Permit	VHE to obtain permit for mine entry treatment	VHE to implement asap to prevent delay to mine treatment. Update required with regards to correspondence with CA.

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Photograph 1: Overview of the site. Looking towards the north.



Photograph 2: Excavation for electricity cable in southeastern part of the site.

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Photograph 3: Battered excavation in southern part of the site.



Photograph 4: Boundary between 1.5m cut and 3m cut areas in southern part of the site.



Photograph 5: SRD testing in central part of the site.



Photograph 6: Crushing concrete and asphalt in eastern part of the site.



Photograph 7: Standing water in southern part of the site.



Photograph 8: Southern boundary of the site. Looking towards the east.

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Photograph 9: Stockpiles of crushed concrete and asphalt in eastern part of the site.



Photograph 10: Asbestos contaminated material stockpile in western part of the site.



Photograph 11: Crushed concrete and asphalt stockpile in northwest of the site. Looking towards the south.



Photograph 12: Standing water in northern part of the site.



Photograph 53: Stockpiles of granular and landfill Made Ground in northeastern part of the site. Looking towards the east.



Photograph 14: Stockpile of general, granular and landfill Made Ground in northeastern part of the site. Looking towards the north.

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Project: Stopes Road, Bolton		Date: 08/09/22	
Client: Harworth		Weather: Overcast	
Contract No.: C-15220-C		Engineer: D Mahdavian	
Doc Ref: 15220-HYD-XX-XX-SVR-GE-1020		Status & Revision: S2 – P1	

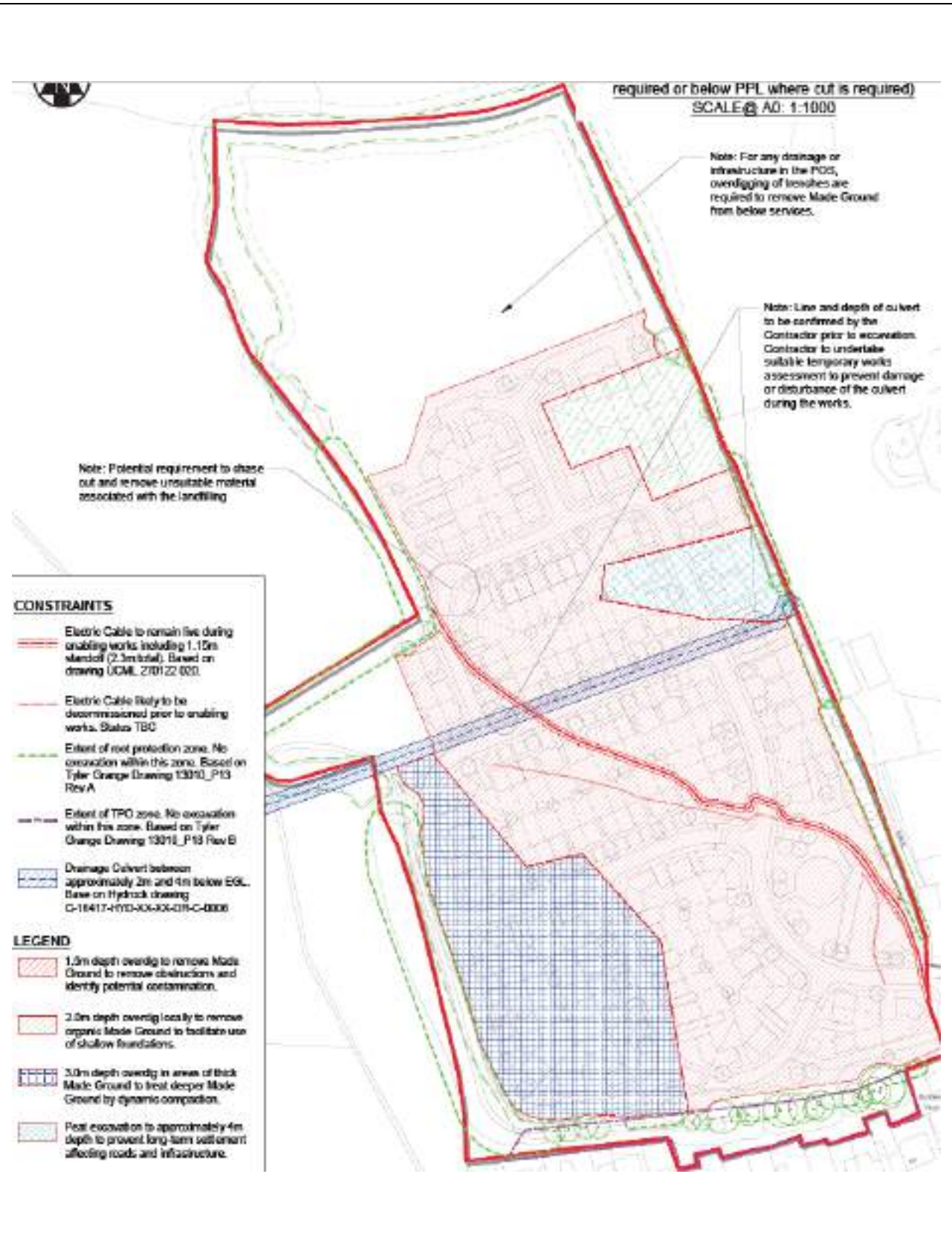
Personnel Present:			
Organisation	Role		Name
VHE	Deputy Project Manager		Gary Davis
VHE	Site Foreman		Eddie Gillespie
Harworth Group	Project Manager		Fiona Lewis
AWP	Geo-Environmental Engineer		Ben Kennerley
CMG	Project Surveyor		Gregg Mason
A: Review of Earthworks Testing Records to Appendix 1/24 Clause 6.5			
Item	Evidence of Record		Comment
	Yes	No	
Records reviewed on site		✓	Testing schedule not reviewed at time of visit
Sequential Test Number		na	
Date of Test		na	
Coordinated Position		na	
Test Grid Reference		na	
Layer No		na	
Source material Type		na	
Results checked for compliance		na	
C: Additional activities to be observed by Hydrock during Audit Visit			
Item	Observed on Site		Comment
	Yes	No	
Temporary Slopes	✓		Excavation sides generally battered to safe angle where open for any significant period
Excavation and site surveying	✓		Excavation in southern part and surveying is being done.
De-watering of excavations		✓	
Control & management of water		✓	No significant surface water observed, minor standing water due to recent rain
Compaction Trials completed	✓		Completed waiting for results.
Layer thickness - check	✓		
Compaction method – check	✓		Proof rolling
Benching in of fill - check		✓	n/a
Stockpiling of material	✓		Stockpiling material from hotspot separately. Stockpiling excavated concrete from the southeast. Stockpiling excavated landfill Made Ground from the southeast.

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			Stockpiling crushed oversize material from northeast stockpiles.
Inspection of subgrade	✓		Overdig commenced in the southeast. Dark brown silty sand with occasional bricks.
Quality management of fill	✓		VHE is using a screener on site to increase quality of fill material. Hand picking of unsuitable material is still being done by VHE.
Works Undertaken by the Contractor:			
VHE - Existence of deleterious material including concrete, metal, wood and plastic in material in southeastern part of the site and stockpiled material in northeastern part of the site. - A screener is being used by VHE to increase quality of fill material. - Excavation of landfill Made Ground in southeastern part of the site. - Stockpiling excavated landfill Made Ground from southeastern part of the site in stockpile in northeast of the site. - Proof rolling of fill material by BOMAG's 219 roller in northwestern part of the site. - Screening stockpiled material in northeastern part of the site to use as general fill. - Crushing oversize of the screener using crusher in northeastern part of the site. - Stockpiling crushed material from oversize of the screener in eastern part of the site. - Stockpiling undersize material of the screener in northeast of the site. - Backfilling northwest of the site using undersize material of the screener (dark ashy) from stockpile in northeast of the site. - Construction of a new parking for VHE's trucks and equipment in southern part of the site.			
Discussions/Recommendations & Instructions:			
To/From VHE Hydrock and VHE (GD) discussed finished ground level in northwest of the site. VHE stated that GPS has been installed on a dozer to control ground level in northwest of the site. Quality management of the fill was discussed. VHE stated that screener arrived on site on Tuesday night. The screener is being used to remove unsuitable material from fill. Hand picking of asbestos from asbestos contaminated stockpiles has been halted due to unavailability of the asbestos picking company (MCP Environmental). Hydrock, VHE, Harworth, Cumming Group undertook a walkover of the site and discussed details of earthworks, ground improvement and mine shaft treatment. Potential concerns raised regarding source approval testing results, in situ testing results, treatment of abstraction wells and mine shaft treatment.			

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Site Plan



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Action Plan		
Hydrock Comment	Contractor Proposal/Solution	Action Status
Designs		
RDC/HEIC design required	Design developed by Contractor and AWP	Final design completed following site trials. Works progressing.
Mine Treatment Design	Design to be developed as far as possible based on current information.	VHE/Van Elle to provide updated report based on NHBC and Hydrock comments
Test Reports and Records		
Time lag of geotechnical and geochemical testing.	Contractor confirmed 15 days turnaround time.	Client team to be notified if any test data will be delayed. No lab test delay reported.
Source approval note	Contractor (AWP) agreed to provide a note on the different sources, volumes and testing ahead of the compaction trials	Report provided by VHE (TN005) 02/09. Hydrock to review.
Fortnightly Testing Report (latest report to be sent monthly to NHBC)	Contractor / AWP agreed to provide a report every fortnight demonstrating compliance with the material testing specification and suitability of formations	Frequency increased to weekly. First report received 18/08 but comments from Hydrock and NHBC need addressing. Updated report outstanding.
Evidence of material tracking and stockpile surveys required.	VHE agreed provision of weekly records	Latest stockpile survey 30/08 and fill survey 10/08. Weekly surveys not being met. Additional survey required
Base of excavation records	Tracker to be provided demonstrating inspection and testing prior to backfilling.	No tracker or drawing provided. DF requested DWG to check excavation extents. Last survey received 25/08
Compaction Trial Assessment	Analysis of compaction trial required to demonstrate method is suitable to meet end product criteria	Report provided by VHE (TN005) 02/09. Hydrock to review.
Soft Spot records	Soft spot record sheets provided by RH on 12/08 are a good record of the works undertaken and will be issued to Hydrock periodically	Latest soft spot records issued for 1,2,3. Further reports required for remaining soft spots
Other		
Coal Authority Permit	VHE to obtain permit for mine entry treatment	Understood that BHE awaiting confirmation of costs from Client

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Photograph 1: Overview of the site. Looking towards the south.



Photograph 2: Excavation of concrete and landfill Made Ground in southeast of the site.

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Photograph 3: Unloading excavated material from southeastern part of the site in stockpile in the northeast.



Photograph 4: Excavation of concrete in eastern part of the site.

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Photograph 5: Unloading excavated concrete from eastern part of the site in northeastern stockpile.



Photograph 6: Oversize and deleterious materials in northeastern stockpile.

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Photograph 7: Removing landfill Made Ground in southeastern part of the site.



Photograph 8: Deleterious materials in excavation in southeastern part of the site.

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Photograph 9: Screener in northeastern part of the site processing material.



Photograph 10: Stockpile of screened material from the screener in northeastern part of the site.



Photograph 91: Screener, crusher and stockpiles in northeastern part of the site.



Photograph 110: Stockpile of crushed material from oversize material of the screener in eastern part of the site.



Photograph 113: Existence of deleterious material in stockpile of crushed material from oversize of the screener in eastern part of the site. VHE to confirm classification of coarse graded material



Photograph 14: Backfilling northwest of the site using undersize material from the screener.

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Photograph 125: Fill material in northwest of the site with improved quality.



Photograph 136: Installed GPS on dozer to control ground level in northwest of the site.

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Photograph 147: Excavation for electricity cable in southeastern part of the site.



Photograph 158: Proof rolling of northwestern boundary of the site.



Photograph 169: Backfilling and proof rolling of northwestern part of the site.



Photograph 20: Loading of fine material (dark ashy) from screener to backfill northwestern part of the site.



Photograph 179: Rod Settlement Gauge and Vibrating Wire piezometer in eastern part of the site.



Photograph 20: Rod Settlement Gauge and Vibrating Wire piezometer in western part of the site.



Photograph 189: Stockpile of crushed concrete and asphalt in northwest of the site.



Photograph 20: New parking for VHE's trucks and equipment in southern part of the site.

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Photograph 199: Standing water in southwest of the site.

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Project: Stopes Road, Bolton		Date: 13/09/22	
Client: Harworth		Weather: Overcast	
Contract No.: C-15220-C		Engineer: D Mahdavian	
Doc Ref: 15220-HYD-XX-XX-SVR-GE-1021		Status & Revision: S2 – P1	

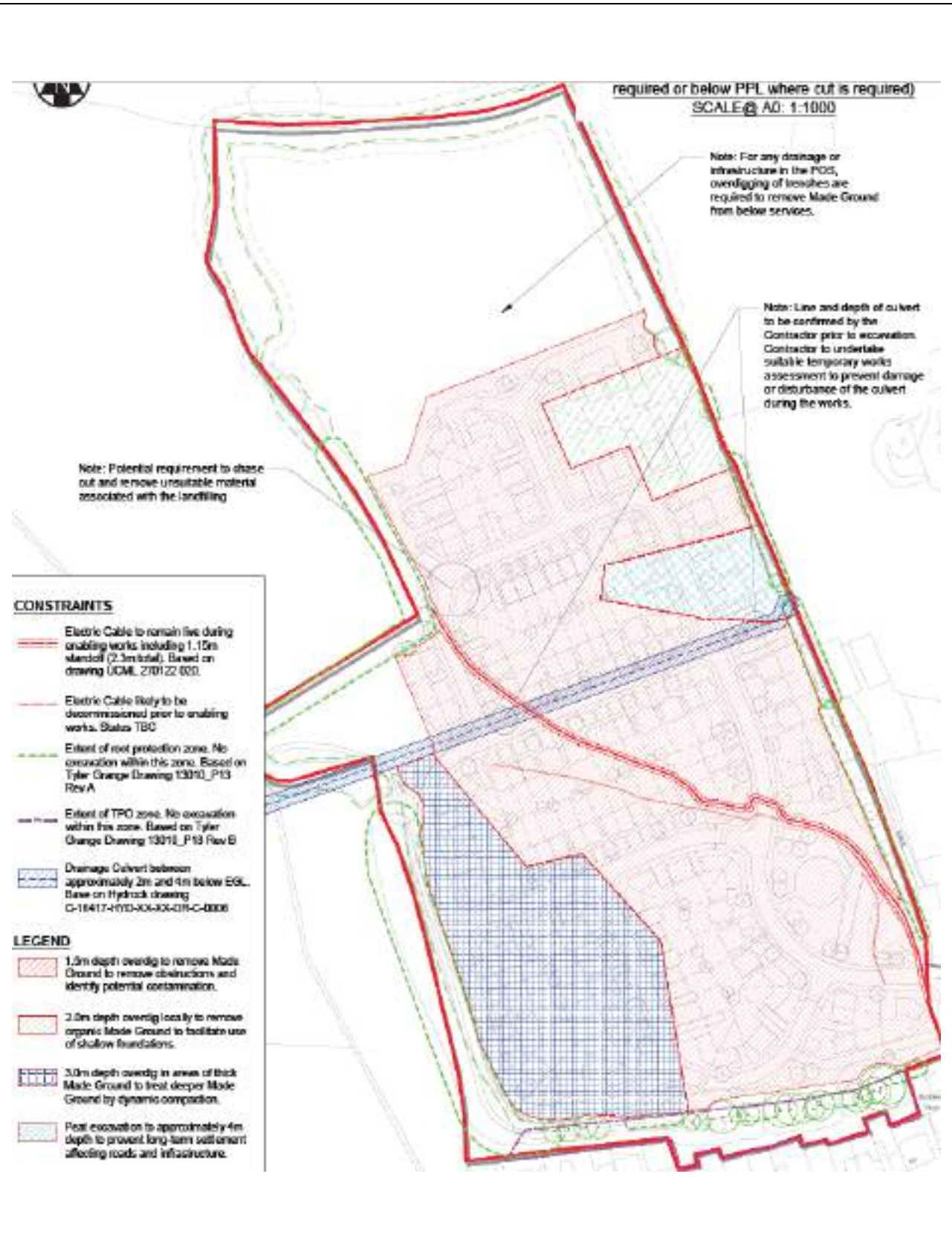
Personnel Present:			
Organisation	Role		Name
VHE	Deputy Project Manager		Gary Davis
VHE	Site Foreman		Eddie Gillespie
A: Review of Earthworks Testing Records to Appendix 1/24 Clause 6.5			
Item	Evidence of Record		Comment
	Yes	No	
Records reviewed on site		✓	Testing schedule not reviewed at time of visit
Sequential Test Number		na	
Date of Test		na	
Coordinated Position		na	
Test Grid Reference		na	
Layer No		na	
Source material Type		na	
Results checked for compliance		na	
C: Additional activities to be observed by Hydrock during Audit Visit			
Item	Observed on Site		Comment
	Yes	No	
Temporary Slopes	✓		Excavation sides generally battered to safe angle where open for any significant period
Excavation and site surveying	✓		Excavation in southern part and surveying is being done.
De-watering of excavations	✓		Standing water at ~2m in the south of site.
Control & management of water		✓	No surface water observed
Compaction Trials completed	✓		Completed waiting for results.
Layer thickness - check	✓		
Compaction method – check	✓		Proof rolling
Benching in of fill - check		✓	n/a
Stockpiling of material	✓		Stockpiling material from hotspot separately. Stockpiling excavated concrete from the southeast. Stockpiling crushed oversize material from northeast stockpiles.
Inspection of subgrade	✓		Overdig commenced in the southeast. Dark brown silty sand with occasional bricks.
Quality management of fill	✓		VHE is using a screener on site to increase quality of fill material. Hand

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			picking of unsuitable material is being done by VHE.
Works Undertaken by the Contractor:			
VHE • Existence of deleterious material including concrete, metal, wood and plastic in material excavated from southeastern part of the site and stockpiled material in northeastern part of the site. • A screener is being used by VHE to increase quality of fill material. • Excavation of landfill Made Ground in southern part of the site. • Screening stockpiled material in northeastern part of the site to use as general fill. • Crushing oversize off the screener using crusher in northeastern part of the site. • Stockpiling crushed material from oversize of the screener in eastern part of the site. • Stockpiling undersize material off the screener in northeast of the site. • Backfilling southwest of the site using undersize material of the screener (dark ashy) from stockpile in northeast of the site and excavated material from southern part of the site. • Hand picking of asbestos from asbestos contaminated stockpiles is being done by the asbestos picking company (MCP Environmental) in southwestern and western part of the site. • Potentially asbestos contaminated material had been stockpiled in northwest of the site. Material had been excavated in southeastern part of the site. • Potentially TPH contaminated material had been stockpiled in northeast of the site. Material had been excavated in southeastern part of the site. • Surveying of stockpiles in northeastern part of the site. • Surveying of excavations in southeastern part of the site.			
Discussions/Recommendations & Instructions:			
To/From VHE Hydrock and VHE (GD) discussed finished ground level in northwest of the site. VHE stated that finished ground level has been set up in northwest of the site. Quality management of the fill was discussed. The screener is being used to remove unsuitable material from fill. Hydrock and VHE discussed details of earthworks, ground improvement and mine shaft treatment. Potential concerns raised regarding progress of source approval testing results, in situ testing results and mine shaft treatment.			

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Site Plan



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Hydrock Comment	Contractor Proposal/Solution	Action Status
Designs		
RDC/HEIC design required	Design developed by Contractor and AWP	Final design completed following site trials. Works progressing.
Mine Treatment Design	Design to be developed as far as possible based on current information.	Final comments from NHBC to be addressed by VHE
Test Reports and Records		
Time lag of geotechnical and geochemical testing.	Contractor confirmed 15 days turnaround time.	Client team to be notified if any test data will be delayed. No lab test delay reported.
Source approval note	Contractor (AWP) agreed to provide a note on the different sources, volumes and testing ahead of the compaction trials	Report provided by VHE (TN005) 02/09. Hydrock to review.
Fortnightly Testing Report (latest report to be sent monthly to NHBC)	Contractor / AWP agreed to provide a report every fortnight demonstrating compliance with the material testing specification and suitability of formations	Frequency increased to weekly. First report received 18/08 but comments from Hydrock and NHBC need addressing. Updated report outstanding.
Evidence of material tracking and stockpile surveys required.	VHE agreed provision of weekly records	Latest stockpile survey 30/08 and fill survey 10/08. Weekly surveys not being met. Additional survey required
Base of excavation records	Tracker to be provided demonstrating inspection and testing prior to backfilling.	No tracker or drawing provided. DF requested DWG to check excavation extents. Last survey received 25/08
Compaction Trial Assessment	Analysis of compaction trial required to demonstrate method is suitable to meet end product criteria	Report provided by VHE (TN005) 02/09. Hydrock to review.
Soft Spot records	Soft spot record sheets provided by RH on 12/08 are a good record of the works undertaken and will be issued to Hydrock periodically	Latest soft spot records issued for 1,2,3. Further updates required as works progress
Other		
Coal Authority Permit	VHE to obtain permit for mine entry treatment	Understood that BHE awaiting confirmation of costs from Client

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Photograph 1: Overview of the site. Looking towards the north.



Photograph 2: Excavation of landfill Made Ground in southern part of the site.

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Photograph 3: Deleterious material in excavation in southern part of the site.



Photograph 4: Standing water in excavation in southern part of the site.

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Photograph 5: Final ground level (general fill) in northwest of the site.



Photograph 6: Loading undersize material from screener to backfill southwest of the site.

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Photograph 7: Crushing oversize material from screener in northeast of the site.



Photograph 8: Oversize material off screener after crushing by crusher in northeast of the site.

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Photograph 9: Stockpile of crushed material from oversize of screener.



Photograph 10: Overview of stockpile of crushed material from oversize off screener.

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Photograph 91: Stockpile of potentially asbestos contaminated material in northwest of the site.
Material from excavation in southeastern part of the site.



Photograph 110: Stockpile of potentially TPH contaminated material in northeast of the site.
Material from excavation in southeastern part of the site.



Photograph 113: Surveying of stockpiles in northeastern part of the site.



Photograph 14: Surveying of excavations in southeastern part of the site.



Photograph 125: Backfilling of southern part of the site using undersize material of screener.



Photograph 136: Excavated material from southeast to backfill southern part of the site.



Photograph 147: Deleterious material in southeastern part of the site.



Photograph 158: Stockpile of excavated concrete in southeast of the site.



Photograph 169: Potentially TPH contaminated area in excavation in southeastern part of the site.



Photograph 20: Handpicking of asbestos from asbestos contaminated stockpile in southwestern part of the site.

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Photograph 21: Western boundary of the site. Looking towards the south.



Photograph 22: Southern boundary of the site. Looking towards the west.



Photograph 23: Hand picking of asbestos from asbestos contaminated stockpile in western part of the site.



Photograph 24: Overview of stockpiles of excavated material in northeast of the site.

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Photograph 25: Stockpile of undersize material from screener in northeast of the site.



Photograph 26: Stockpile of excavated concrete in northeastern part of the site. Concrete excavated from southeast of the site.

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Photograph 27: Stockpile of crushed concrete in northwest of the site.

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Project: Stopes Road, Bolton		Date: 15/09/22	
Client: Harworth		Weather: Overcast	
Contract No.: C-15220-C		Engineer: D Mahdavian	
Doc Ref: 15220-HYD-XX-XX-SVR-GE-1022		Status & Revision: S2 – P1	

Personnel Present:			
Organisation	Role		Name
VHE	Deputy Project Manager		Gary Davis
VHE	Site Foreman		Eddie Gillespie
A: Review of Earthworks Testing Records to Appendix 1/24 Clause 6.5			
Item	Evidence of Record		Comment
	Yes	No	
Records reviewed on site		✓	Testing schedule not reviewed at time of visit
Sequential Test Number		na	
Date of Test		na	
Coordinated Position		na	
Test Grid Reference		na	
Layer No		na	
Source material Type		na	
Results checked for compliance		na	
C: Additional activities to be observed by Hydrock during Audit Visit			
Item	Observed on Site		Comment
	Yes	No	
Temporary Slopes	✓		Excavation sides generally battered to safe angle where open for any significant period
Excavation and site surveying	✓		Excavation in southern part and surveying is being done.
De-watering of excavations	✓		Standing water in the north of site.
Control & management of water		✓	No surface water observed
Compaction Trials completed	✓		Completed waiting for results.
Layer thickness - check	✓		
Compaction method – check	✓		Proof rolling
Benching in of fill - check		✓	n/a
Stockpiling of material	✓		Stockpiling material from hotspot separately. Stockpiling excavated concrete from the southeast. Stockpiling excavated material from southeast of the site.
Inspection of subgrade	✓		Overdig commenced in the southeast. Dark brown silty sand and clay with occasional bricks.
Quality management of fill	✓		VHE is using a screener on site to increase quality of fill material. Hand picking of unsuitable material is being done by VHE.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1022

SHEET NO.: 2 of 21

Works Undertaken by the Contractor:

VHE

- Existence of deleterious material including concrete, metal, wood, and plastic in material excavated in southeastern part of the site and stockpiled material in northeastern part of the site.
- A screener is being used by VHE to increase quality of fill material.
- Excavation of landfill Made Ground in southeastern part of the site.
- Excavation of potentially TPH contaminated area in southeastern part of the site.
- Backfilling of western part of the site using material from excavation in southeastern part of the site.
- Backfilling of western part of the site using material from undersize of the screener in eastern part of the site.
- Backfilling of southern part of the site using material from stockpile in northeastern part of the site.
- Screening stockpiled asbestos contaminated material in southwestern part of the site.
- Stockpiling bricks from oversize of the screener in northwestern part of the site.
- Stockpiling undersize of the screener in southwestern part of the site.
- Stockpiling concert and oversize material excavated from southeastern part of the site in northeast of the site.
- Stockpiling potentially contaminated material from southeastern part of the site in northeast of the site.
- Hand picking of deleterious material in southern part of the site.
- Collection of samples from TPH hotspot in southeast of the site.
- Collection of geotechnical samples in western part of the site
- Hand picking of asbestos from asbestos contaminated stockpiles is being done by the asbestos picking company (MCP Environmental) in southwestern and western part of the site.
- Plate load testing by Murry Rix in southwestern part of the site.
- Proof rolling of southern part of the site.

Discussions/Recommendations & Instructions:

To/From VHE

Quality management of the fill was discussed.

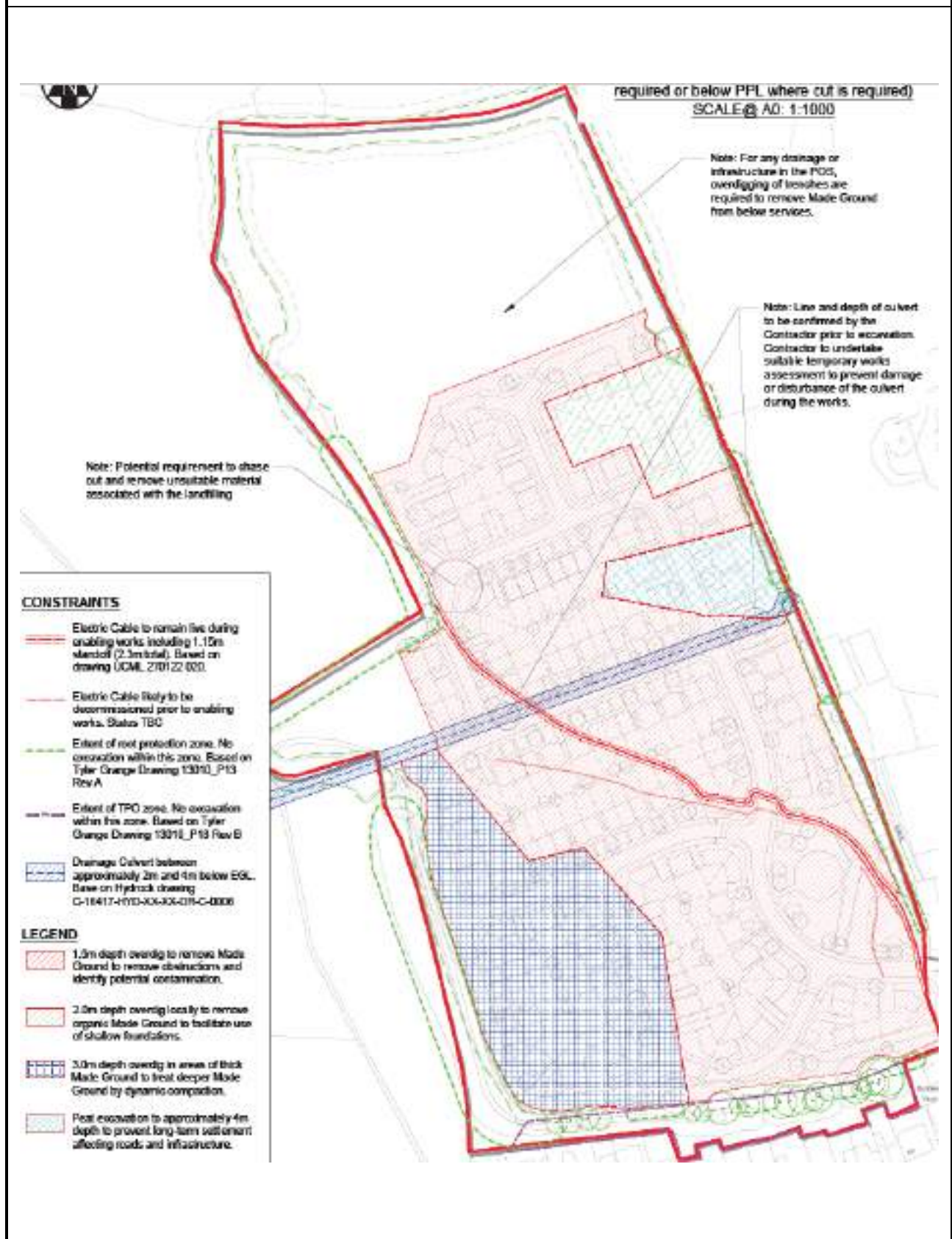
Oversize material detected in fill material in southern and southwestern part of the site. VHE removed the material to the northeastern stockpile to be processed by the screener.

Hand picking strategy is being used to remove deleterious material by VHE.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1022

SHEET NO.: 3 of 21

Site Plan



SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1022

SHEET NO.: 4 of 21

Action Plan

Hydrock Comment	Contractor Proposal/Solution	Action Status
Designs		
RDC/HEIC design required	Design developed by Contractor and AWP	Final design completed following site trials. Works progressing.
Mine Treatment Design	Design to be developed as far as possible based on current information.	Final comments from NHBC to be addressed by VHE
Test Reports and Records		
Time lag of geotechnical and geochemical testing.	Contractor confirmed 15 days turnaround time.	Client team to be notified if any test data will be delayed. No lab test delay reported.
Source approval note	Contractor (AWP) agreed to provide a note on the different sources, volumes and testing ahead of the compaction trials	Report provided by VHE (TN005) 02/09. Hydrock to review. Source testing for 6F2
Fortnightly Testing Report (latest report to be sent monthly to NHBC)	Contractor / AWP agreed to provide a report every fortnight demonstrating compliance with the material testing specification and suitability of formations	Frequency increased to weekly. First report received 18/08 but comments from Hydrock and NHBC need addressing. Updated report to include air void assessment
Evidence of material tracking and stockpile surveys required.	VHE agreed provision of weekly records	Latest stockpile survey 30/08 and fill survey 10/08. Weekly surveys not being met. Additional survey required
Base of excavation records	Tracker to be provided demonstrating inspection and testing prior to backfilling.	No tracker or drawing provided. DF requested DWG to check excavation extents. Last survey received 25/08
Compaction Trial Assessment	Analysis of compaction trial required to demonstrate method is suitable to meet end product criteria	Report provided by VHE (TN005) 02/09. Hydrock to review.
Soft Spot records	Soft spot record sheets provided by RH on 12/08 are a good record of the works undertaken and will be issued to Hydrock periodically	Latest soft spot records issued for 1,2,3. Further updates required as works progress
Hotspot Reports	Validation reports to be provided for each hotspot	Records provided for 1-4 but need updating. Other reports outstanding
Geotechnical Monitoring	Monitoring results to be included in regular update reports	No records provided to date

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1022

SHEET NO.: 5 of 21

Other

Coal Authority Permit	VHE to obtain permit for mine entry treatment	CA permit T and Cs signed. Permit application to be completed by VHE
Boundary Survey	VHE to provide boundary survey to demonstrate compliance with contract	Discrepancy noted in southwestern boundary with regards to standoff (09/09/22)

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1022

SHEET NO.: 6 of 21



Photograph 1: Overview of the site. Looking towards the south.



Photograph 2: Excavation of landfill Made Ground in southeastern part of the site.



Photograph 3: Backfilling western part of the site with excavated material from southeast of the site.



Photograph 4: Backfilling southern part of the site with material from northeastern stockpile.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1022

SHEET NO.: 8 of 21



Photograph 5: Transferring material from northeastern stockpile to backfill southern and western part of the site.



Photograph 6: Screening of asbestos stockpile and hand picking of asbestos in southwestern part of the site.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1022

SHEET NO.: 9 of 21



Photograph 7: Hand picking of asbestos in western part of the site



Photograph 8: Hand picking of deleterious material in southern part of the site.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1022

SHEET NO.: 10 of 21



Photograph 9: Standing water in northern part of the site.



Photograph 10: Loading concert and oversize material in southeastern part of the site.



Photograph 91: Screening of the asbestos contaminated stockpile using riddle bucket excavator.



Photograph 110: Bricks and crushed concrete stockpiles in northwestern part of the site.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1022

SHEET NO.: 12 of 21



Photograph 113: TPH and asbestos contaminated stockpiles in northwestern part of the site.



Photograph 14: Deleterious material and bricks stockpile in northwestern part of the site.



Photograph 125: Stockpiling concrete and oversize material in northeastern part of the site.



Photograph 136: Stockpile of undersize off the screener in eastern part of the site.



Photograph 147: Plate load testing in western part of the site.



Photograph 158: Separation of oversize material (bricks) from asbestos contaminated stockpile in southwestern part of the site.



Photograph 169: Unloading bricks in northwest of the site.



Photograph 20: Existence of oversize in fill material in southern part of the site. Material from northeastern stockpile.



Photograph 21: Potentially TPH contaminated area in southeastern part of the site



Photograph 22: Excavation of potentially TPH contaminated area in southeastern part of the site.



Photograph 23: Sample collection from potentially TPH contaminated area.



Photograph 24: Stockpiling potentially TPH contaminated material in northeastern part of the site.



Photograph 25: Breaking concrete in southeastern part of the site.



Photograph 26: Collection of geotechnical samples from fill material in western part of the site.
Processed material from eastern stockpile.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1022

SHEET NO.: 19 of 21



Photograph 27: Loading unsuitable fill from western part of the site to stockpile in northeastern stockpile.



Photograph 28: Dozer pushing processed fill material in southwestern part of the site.



Photograph 29: Stockpiles of crushed materials from crusher and undersize materials from screener in eastern part of the site.



Photograph 30: Battered and stepped excavation in southeast of the site.



Photograph 31: Proof rolling in southern part of the site.



Photograph 32: Plate load testing in southern part of the site.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1023		SHEET NO.: 1 of 18	
Project: Stopes Road, Bolton		Date: 20/09/22	
Client: Harworth		Weather: Overcast	
Contract No.: C-15220-C		Engineer: D Mahdavian	
Doc Ref: 15220-HYD-XX-XX-SVR-GE-1023		Status & Revision: S2 – P1	

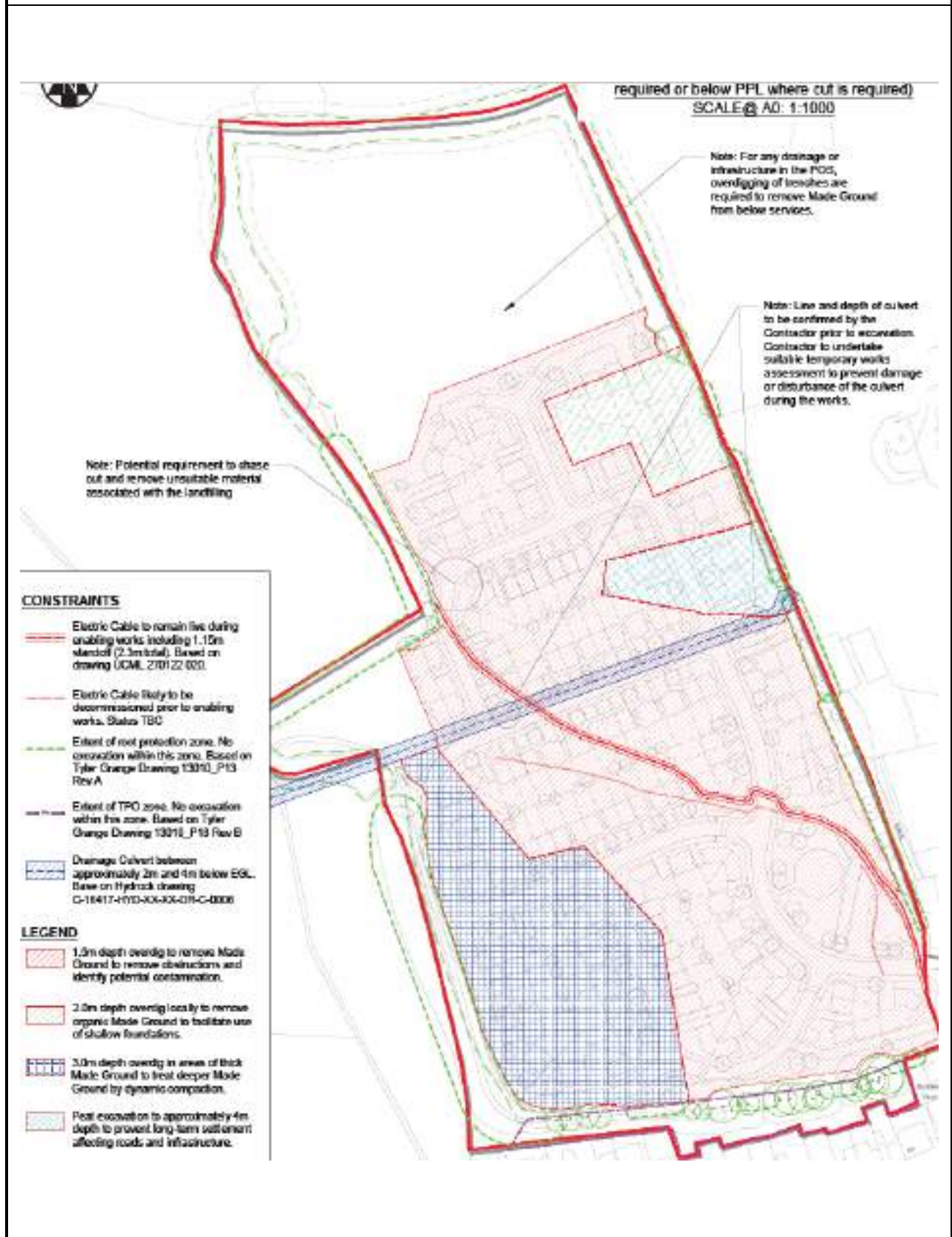
Personnel Present:			
Organisation	Role		Name
VHE	Project Manager		Richard Hargreaves
A: Review of Earthworks Testing Records to Appendix 1/24 Clause 6.5			
Item	Evidence of Record		Comment
	Yes	No	
Records reviewed on site		✓	Testing schedule not reviewed at time of visit
Sequential Test Number		na	
Date of Test		na	
Coordinated Position		na	
Test Grid Reference		na	
Layer No		na	
Source material Type		na	
Results checked for compliance		na	
C: Additional activities to be observed by Hydrock during Audit Visit			
Item	Observed on Site		Comment
	Yes	No	
Temporary Slopes	✓		Excavation sides generally battered to safe angle where open for any significant period
Excavation and site surveying	✓		Excavation in southern part and surveying is being done.
De-watering of excavations	✓		Standing water in the north of site.
Control & management of water		✓	No surface water observed
Compaction Trials completed	✓		Completed waiting for results.
Layer thickness - check	✓		
Compaction method – check	✓		Proof rolling and Rolling Dynamic Compaction (RDC).
Benching in of fill - check		✓	n/a
Stockpiling of material	✓		Stockpiling material from hotspot separately. Stockpiling excavated concrete from the southeast. Stockpiling excavated material from southeast of the site.
Inspection of subgrade	✓		Overdig commenced in the southeast. Dark brown silty sand with occasional bricks.
Quality management of fill	✓		VHE is using a screener on site to increase quality of fill material. Hand picking of unsuitable material is being done by VHE.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1023	SHEET NO.: 2 of 18
Works Undertaken by the Contractor: VHE • Existence of deleterious material including concrete, metal, wood, and plastic in material excavated in southeastern part of the site and stockpiled material in northeastern and northwestern part of the site. • Excavation of landfill Made Ground in southeastern part of the site. • Backfilling of western part of the site using material from excavation in southeastern part of the site. • Backfilling of western part of the site using material from underside of the screener in eastern part of the site. • Screening stockpiled asbestos contaminated material in western part of the site using riddle bucket excavator. • Hand picking of asbestos from asbestos contaminated stockpiles is being done by the asbestos picking company (MCP Environmental) in western part of the site. • Plate load testing by Murry Rix in southwestern part of the site. • Proof rolling of northwestern part of the site. • Dynamic compaction of southern part of the site using polygonal roller.	
Discussions/Recommendations & Instructions: To/From VHE Quality management of the fill was discussed. Oversize material detected in fill material in western, southern and northern part of the site. VHE stated that the Screener is off hired and cannot process the material. Processing and handpicking of asbestos contaminated stockpiles were discussed. VHE stated that processing and handpicking of southwestern stockpile has been completed. Work is still ongoing on the western stockpile. Hydrock and VHE discussed details of earthworks, ground improvement and mine shaft treatment. Potential concerns raised regarding progress of source approval testing results, in situ testing results and mine shaft treatment. VHE stated that the Coal Authority permission for mine shaft treatment has been achieved and grouting will be started next week.	

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1023

SHEET NO.: 3 of 18

Site Plan



SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1023**SHEET NO.: 4 of 18****Action Plan**

Hydrock Comment	Contractor Proposal/Solution	Action Status
Designs		
RDC/HEIC design required	Design developed by Contractor and AWP	Final design completed following site trials. Works progressing.
Mine Treatment Design	Design to be developed as far as possible based on current information.	Final comments from NHBC to be addressed by VHE
Test Reports and Records		
Time lag of geotechnical and geochemical testing.	Contractor confirmed 15 days turnaround time.	Client team to be notified if any test data will be delayed. No lab test delay reported.
Source approval note	Contractor (AWP) agreed to provide a note on the different sources, volumes and testing ahead of the compaction trials	Report provided by VHE (TN005) 02/09. Hydrock to review. Source testing for 6F2 required
Fortnightly Testing Report (latest report to be sent monthly to NHBC)	Contractor / AWP agreed to provide a report every fortnight demonstrating compliance with the material testing specification and suitability of formations	Frequency increased to weekly. First report received 18/08 but comments from Hydrock and NHBC need addressing. Updated report to include air void assessment
Evidence of material tracking and stockpile surveys required.	VHE agreed provision of weekly records	Latest stockpile survey 30/08 and fill survey 10/08. Weekly surveys not being met. Additional survey required
Base of excavation records	Tracker to be provided demonstrating inspection and testing prior to backfilling.	No tracker or drawing provided. DF requested DWG to check excavation extents. Last survey received 25/08
Compaction Trial Assessment	Analysis of compaction trial required to demonstrate method is suitable to meet end product criteria	Report provided by VHE (TN005). Hydrock to review.
Soft Spot records	Soft spot record sheets provided by RH on 12/08 are a good record of the works undertaken and will be issued to Hydrock periodically	Latest soft spot records issued for 1,2,3. Further updates required as works progress
Hotspot Reports	Validation reports to be provided for each hotspot	Records provided for 1-4 but need updating. Other reports outstanding
Geotechnical Monitoring	Monitoring results to be included in regular update reports	No records provided to date

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1023		SHEET NO.: 5 of 18
Hydrock Comment	Contractor Proposal/Solution	Action Status
Other		
Coal Authority Permit	VHE to obtain permit for mine entry treatment	Coal Authority permission for mine shaft treatment has been achieved and grouting will be started next week.
Boundary Survey	VHE to provide boundary survey to demonstrate compliance with contract	Discrepancy noted in southwestern boundary with regards to standoff (09/09/22)

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1023

SHEET NO.: 6 of 18



Photograph 1: Overview of the site. Looking towards the north.



Photograph 2: Excavation of landfill Made Ground in southeastern part of the site.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1023

SHEET NO.: 7 of 18



Photograph 3: Backfilling western part of the site with excavated material from southeast of the site.



Photograph 4: Oversize in fill material in western part of the site.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1023

SHEET NO.: 8 of 18



Photograph 5: Transferring crushed material from eastern stockpile to stockpile in northwestern part of the site.



Photograph 6: Unloading crushed material from eastern stockpile in northwestern stockpile.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1023

SHEET NO.: 9 of 18



Photograph 7: Backfilling northwestern part of the site.



Photograph 8: Oversize in fill material in northwestern part of the site.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1023

SHEET NO.: 10 of 18



Photograph 9: Crushing oversize material from northeastern stockpile.



Photograph 10: Loading crushed material in northeastern part of the site.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1023

SHEET NO.: 11 of 18



Photograph 91: Stockpiling crushed material in northwestern part of the site.



Photograph 110: Hand picking of asbestos in western part of the site.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1023

SHEET NO.: 12 of 18



Photograph 113: Potentially TPH and asbestos contaminated stockpiles in northwestern part of the site.



Photograph 14: Deleterious material in bricks stockpile in northwestern part of the site.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1023

SHEET NO.: 13 of 18



Photograph 125: Standing water in northern part of the site.



Photograph 136: Stockpile of crushed material in northwestern part of the site.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1023

SHEET NO.: 14 of 18



Photograph 147: Stockpile of crushed material in eastern part of the site.



Photograph 158: New car parking for VHE's trucks and equipment in northwestern part of the site.



Photograph 169: Stockpile of processed material in eastern part of the site.



Photograph 20: Deleterious material in excavation in southeastern part of the site.



Photograph 21: Compacting formation using polygonal roller in southern part of the site.



Photograph 22: Excavation of landfill Made Ground in southern part of the site.



Photograph 23: Surveying of excavation in southern part of the site.



Photograph 24: Proof rolling over fill material in northwestern part of the site.



Photograph 25: Oversize in fill material in southern part of the site.



Photograph 26: Stockpile of asbestos contaminated material in southwestern part of the site after completion of processing and hand picking of asbestos.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1024		SHEET NO.: 1 of 16	
Project: Stopes Road, Bolton		Date: 22/09/22	
Client: Harworth		Weather: Rain on and off	
Contract No.: C-15220-C		Engineer: D Mahdavian	
Doc Ref: 15220-HYD-XX-XX-SVR-GE-1024		Status & Revision: S2 – P1	

Personnel Present:		
Organisation	Role	Name
VHE	Project Manager	Richard Hargreaves
VHE	Contracts Manager	Ian Power
JPW Consulting	CDM Advisor	John Wynn
Cummings Group	Project Surveyor	Gregg Mason
Harworth	Project Manager	Fiona Lewis
Hydrock	Civil Engineer	Luke Pilsbury
Hydrock	Geotechnical Engineer	Daniel Fry
AWP	Geo-Environmental Engineer	Sarah Roberts
AWP	Geo-Environmental Engineer	Ben Kennerley

A: Review of Earthworks Testing Records to Appendix 1/24 Clause 6.5

Item	Evidence of Record		Comment
	Yes	No	
Records reviewed on site		✓	Testing schedule not reviewed at time of visit
Sequential Test Number		na	
Date of Test		na	
Coordinated Position		na	
Test Grid Reference		na	
Layer No		na	
Source material Type		na	
Results checked for compliance		na	

C: Additional activities to be observed by Hydrock during Audit Visit

Item	Observed on Site		Comment
	Yes	No	
Temporary Slopes	✓		Excavation sides appear too steep in south of the site by compound
Excavation and site surveying	✓		Excavation in southern part and surveying is being done.
De-watering of excavations	✓		Standing water in the north of site.
Control & management of water		✓	No surface water observed
Compaction Trials completed	✓		TN005 reviewed by Hydrock
Layer thickness - check	✓		
Compaction method – check	✓		Proof rolling and Rolling Dynamic Compaction (RDC).
Benching in of fill - check		✓	n/a

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1024			SHEET NO.: 2 of 16
Stockpiling of material	✓		Stockpiling material from hotspot separately. Stockpiling excavated material from soft spots in southern part of the site in the north of the site.
Inspection of subgrade	✓		Overdig commenced in the southeast. Dark brown silty sand with occasional bricks and Glacial till.
Quality management of fill	✓		VHE screener is off hired. Hand picking of unsuitable material is being done by VHE.
Works Undertaken by the Contractor:			
VHE - Existence of deleterious material including concrete, metal, wood, and plastic in material in southeastern part of the site and stockpiled material in northeastern and northwestern part of the site. - Excavation of landfill Made Ground in southeastern part of the site. - Backfilling of western part of the site using material from excavation in southeastern part of the site. - Backfilling of western part of the site using material from underside of the screener in eastern part of the site. - Compaction of formation by polygonal roller in southern part of the site. - Hand picking of asbestos in western part of the site by asbestos picking company (MCP). - Excavation of softs spots in southern part of the site. - Backfilling of soft spot excavation using crushed brick as a starter layer. - Hand Sear Vane testing of soft spots. Soft spot in southeastern part of the site showed 40KPa shear strength. - SRD testing by Murry Rix in western part of the site. - Proof rolling of southwestern part of the site.			

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1024

SHEET NO.: 3 of 16

Discussions/Recommendations & Instructions:

To/From VHE

Quality management of the fill was discussed. Oversize material detected in fill material in western, southern and northern part of the site. VHE stated that the Screener is off hired and cannot process the material.

Hydrock and VHE discussed details of earthworks, ground improvement and mine shaft treatment. Potential concerns raised regarding source approval testing results, in situ testing results and mine shaft treatment.

VHE stated that the Coal Authority permission for mine shaft treatment has been obtained and grouting will be started next week.

Progress Meeting 3

Hydrock, VHE, Harworth, Cumming Group and AWP discussed details of earthworks, ground improvement and mine shaft treatment. Formal minutes to be provided by Cumming Group.

Hydrock, VHE, AWP and Harworth undertook a walkover of the site after the meeting.

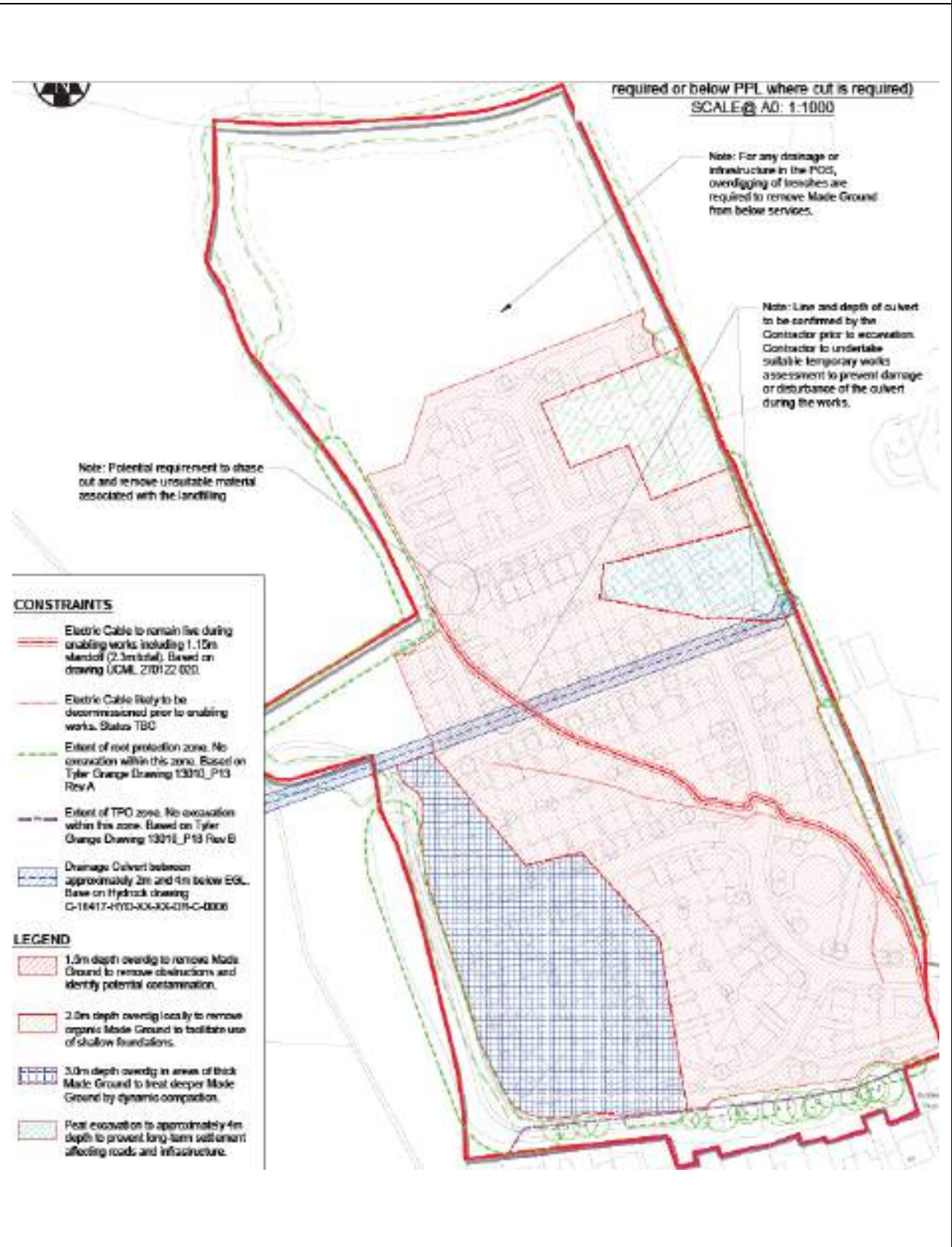
Items discussed during the meeting and walkover include:

- RDC results were discussed. Soft spots were treated by re-excavation, backfilling with granular material and re-compaction. Verification testing to be carried out and verification report to be provided by VHE.
- Drainage design was discussed with VHE. Design to be reviewed further by Hydrock and Harworth and approved by UU.
- Mine treatment will be starting next week by Van Elle which as the specialist contractor.
- Quality management of the fill was discussed during meeting and during site walk over. VHE stated that screener is off hired and material cannot be processed. Hand picking strategy is being implemented by VHE at the moment. Agreed that material that previously would have been screened would be set aside for future processing.
- Processing and handpicking of asbestos contaminated stockpiles were discussed. VHE stated that processing and handpicking of southwestern stockpile has been completed. Work is still ongoing on the western stockpile.
- Shortfall in earthworks material quantities was discussed. Volume comparison between the topographical survey and the VHE survey to be done by Hydrock.
- VHE to request monitoring data from Geotron.
- Discussed soft spot and hot spot report updates. Reports requested
- Discussed stockpile, base of excavation and boundary surveys.
- Discussed earthworks verification report.
- Abstraction well cost estimate was discussed and to be provided by VHE.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1024

SHEET NO.: 4 of 16

Site Plan



SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1024

SHEET NO.: 5 of 16

Action Plan

Hydrock Comment	Contractor Proposal/Solution	Action Status
Designs		
RDC/HEIC design required	Design developed by Contractor and AWP	Final design completed following site trials. Works progressing.
Mine Treatment Design	Design to be developed as far as possible based on current information.	Final comments from NHBC to be addressed by VHE
Test Reports and Records		
Time lag of geotechnical and geochemical testing.	Contractor confirmed 15 days turnaround time.	Client team to be notified if any test data will be delayed. No lab test delay reported.
Source approval note	Contractor (AWP) agreed to provide a note on the different sources, volumes and testing ahead of the compaction trials	Report provided by VHE (TN005) 02/09. Hydrock reviewed the reports and submitted comments to VHE. Source testing for 6F2 required.
Fortnightly Testing Report (latest report to be sent monthly to NHBC)	Contractor / AWP agreed to provide a report every fortnight demonstrating compliance with the material testing specification and suitability of formations	Frequency increased to weekly. First report received 18/08 but comments from Hydrock and NHBC need addressing. TN007 and TN008 received 22/09 for Hydrock reviewing. Updated report to include air void assessment required.
Evidence of material tracking and stockpile surveys required.	VHE agreed provision of weekly records	Latest stockpile survey 21/09 and fill survey 10/08. Weekly submission not being met
Base of excavation records	Tracker to be provided demonstrating inspection and testing prior to backfilling.	No tracker or drawing provided. DF requested DWG to check excavation extents. Last survey received 25/08
Compaction Trial Assessment	Analysis of compaction trial required to demonstrate method is suitable to meet end product criteria	Report provided by VHE (TN005) 02/09. Hydrock reviewed and commented.
Soft Spot records	Soft spot record sheets provided by RH on 12/08 are a good record of the works undertaken and will be issued to Hydrock periodically	Latest soft spot records issued for 1,2,3. Further updates required as works progress
Hotspot Reports	Validation reports to be provided for each hotspot	Records provided for 1-4 but need updating. Other hotspot reports outstanding
Geotechnical Monitoring	Monitoring results to be included in regular update reports	No records provided to date

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1024

SHEET NO.: 6 of 16

Hydrock Comment	Contractor Proposal/Solution	Action Status
Other		
Coal Authority Permit	VHE to obtain permit for mine entry treatment	Coal Authority permission for mine shaft treatment has been achieved and grouting will be started next week.
Boundary Survey	VHE to provide boundary survey to demonstrate compliance with contract	Discrepancy noted in southwestern boundary with regards to standoff (09/09/22) RH advised further excavation will be undertaken

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1024

SHEET NO.: 7 of 16



Photograph 1: Overview of the site. Looking towards the north.



Photograph 2: Unbattered excavation in southeast of the site.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1024

SHEET NO.: 8 of 16



Photograph 3: Excavation of soft spot in southern part of the site.



Photograph 4: Deleterious material in southeastern excavation.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1024

SHEET NO.: 9 of 16



Photograph 5: Compaction of formation by polygonal roller in southern part of the site.



Photograph 6: Proof rolling of fill in central part of the site.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1024

SHEET NO.: 10 of 16



Photograph 7: SRD testing equipment offloaded in southwestern part of the site.



Photograph 8: Soft spot in southeastern part of the site.



Photograph 9: Soft spot excavation in southern part of the site.



Photograph 10: Proof rolling of fill in southwestern part of the site.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1024

SHEET NO.: 12 of 16



Photograph 11: Backfilling of western part of the site using material from excavation in southwestern part of the site.



Photograph 12: Backfilling of soft spot excavation using crushed bricks as starter layer



Photograph 93: Potentially TPH and asbestos contaminated stockpiles in northwestern part of the site.



Photograph 14: Standing water in northern part of the site.



Photograph 15: Stockpile of excavated material from soft spot excavation in northeastern part of the site.



Photograph 16: Topsoil stockpile in northern part of the site.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1024

SHEET NO.: 15 of 16



Photograph 17: Backfilling of soft spot excavation using general fill as base material.



Photograph 18: Stockpile of crushed material in northwestern part of the site.



Photograph 19: Stockpile of processed material in eastern part of the site.



Photograph 20: Soft spot Excavation in southwestern part of the site.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1025		SHEET NO.: 1 of 16	
Project: Stopes Road, Bolton		Date: 27/09/22	
Client: Harworth		Weather: Partly cloudy	
Contract No.: C-15220-C		Engineer: D Mahdavian	
Doc Ref: 15220-HYD-XX-XX-SVR-GE-1025		Status & Revision: S2 – P1	

Personnel Present:			
Organisation	Role		Name
VHE	Project Manager		Richard Hargreaves
A: Review of Earthworks Testing Records to Appendix 1/24 Clause 6.5			
Item	Evidence of Record		Comment
	Yes	No	
Records reviewed on site		✓	Testing schedule not reviewed at time of visit
Sequential Test Number		na	
Date of Test		na	
Coordinated Position		na	
Test Grid Reference		na	
Layer No		na	
Source material Type		na	
Results checked for compliance		na	
C: Additional activities to be observed by Hydrock during Audit Visit			
Item	Observed on Site		Comment
	Yes	No	
Temporary Slopes	✓		Excavation sides generally battered to safe angle where open for any significant period
Excavation and site surveying	✓		Excavation in southern part and surveying is being done.
De-watering of excavations	✓		Standing water at various locations across site
Control & management of water		✓	No surface water observed
Compaction Trials completed	✓		TN005
Layer thickness - check	✓		
Compaction method – check	✓		Proof rolling.
Benching in of fill - check		✓	n/a
Stockpiling of material	✓		Stockpiling material from hotspot separately. Stockpiling excavated material from soft spots in southern part of the site in the north of the site.
Inspection of subgrade	✓		Overdig commenced in the southeast. Dark brown silty sand with occasional bricks and Glacial till.
Quality management of fill	✓		VHE screener is off hired. Hand picking of unsuitable material is being done by VHE.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1025**SHEET NO.: 2 of 16****Works Undertaken by the Contractor:****VHE**

- Existence of deleterious material including concrete, metal, wood, and plastic in material in southeastern part of the site and stockpiled material in northeastern and northwestern part of the site. Requires removal and processing
- Excavation of landfill Made Ground in southwestern part of the site.
- Backfilling of southern part of the site using material from excavation in southwestern part of the site.
- Construction of platform for grouting shaft no.6 using material from northeastern stockpile.
- Plate load testing by Murry Rix in western and southwestern part of the site.

Discussions/Recommendations & Instructions:**To/From VHE**

Hydrock and VHE discussed details of earthworks, ground improvement and mine shaft treatment. VHE stated that RDC operation and excavation of soft spots are ongoing in southwestern part of the site. Due to rain fall earthworks operation is slower.

Mine shaft treatment will be started on Monday next week by Van Elle.

Quality management of the fill was discussed. Oversize material detected in excavation southeastern part of the site. Screener and crusher are off hired. VHE stated that oversize material will be stockpiled and screener will be on site to process them at a future date.

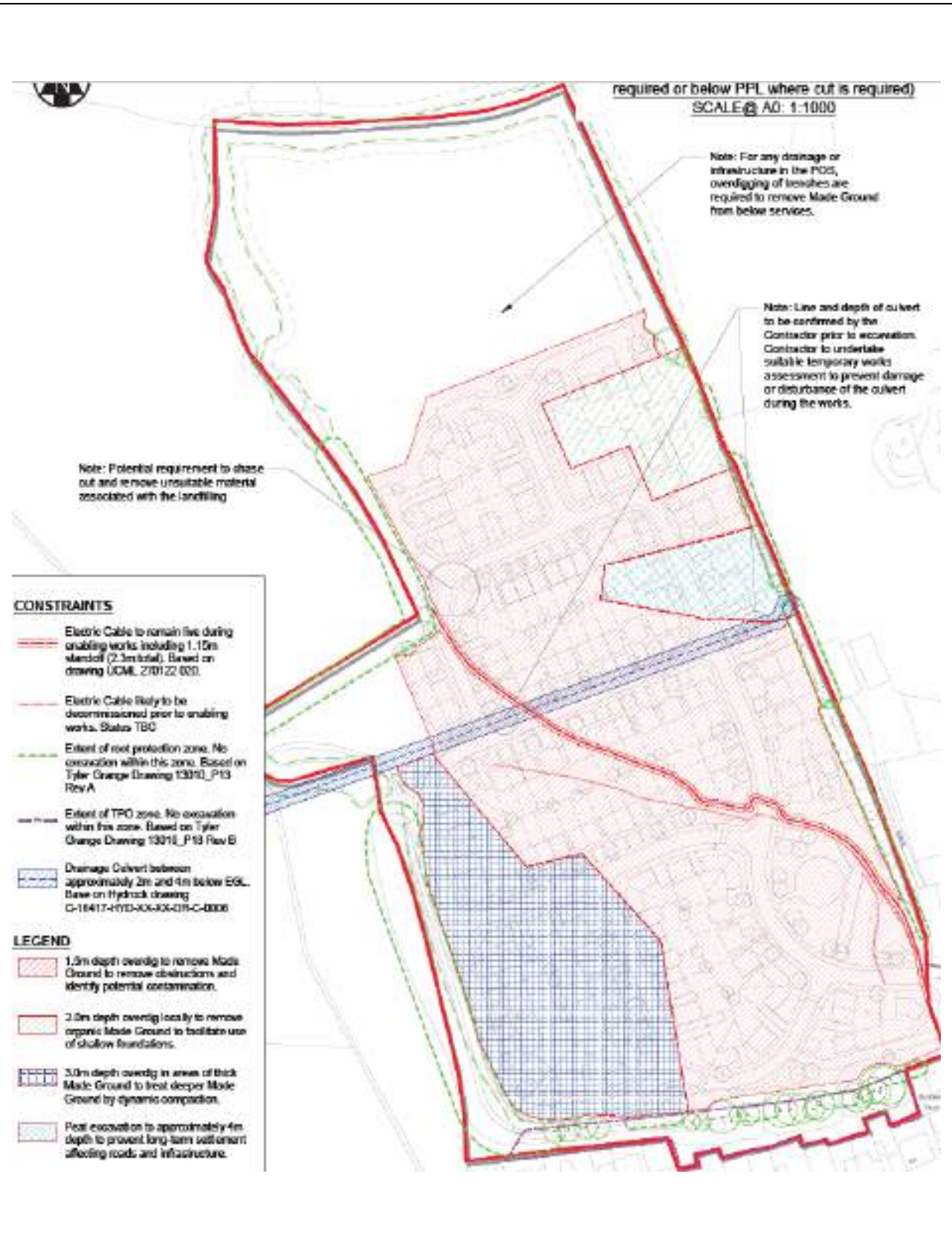
Processing and handpicking of asbestos contaminated stockpiles were discussed. VHE stated that processing and handpicking of western stockpile was completed on Thursday afternoon (22/09/2022).

VWP monitoring data was discussed. VHE requested monitoring data from Geotron.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1025

SHEET NO.: 3 of 16

Site Plan



SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1025**SHEET NO.: 4 of 16****Action Plan**

Hydrock Comment	Contractor Proposal/Solution	Action Status
Designs		
RDC/HEIC design required	Design developed by Contractor and AWP	Final design completed following site trials. Works progressing.
Mine Treatment Design	Design to be developed as far as possible based on current information.	Final comments from NHBC to be addressed by VHE
Test Reports and Records		
Time lag of geotechnical and geochemical testing.	Contractor confirmed 15 days turnaround time.	Client team to be notified if any test data will be delayed. No lab test delay reported.
Source approval note	Contractor (AWP) agreed to provide a note on the different sources, volumes and testing ahead of the compaction trials	Report provided by VHE (TN005) 02/09. Hydrock reviewed the reports and submitted comments to VHE. Source testing for 6F2 required.
Fortnightly Testing Report (latest report to be sent monthly to NHBC)	Contractor / AWP agreed to provide a report every fortnight demonstrating compliance with the material testing specification and suitability of formations	Frequency increased to weekly. First report received 18/08 but comments from Hydrock and NHBC need addressing. TN007 and TN008 received 22/09 for Hydrock reviewing. Updated report to include air void assessment.
Evidence of material tracking and stockpile surveys required.	VHE agreed provision of weekly records	Latest stockpile survey 21/09 and fill survey 10/08. Weekly submission not being met
Base of excavation records	Tracker to be provided demonstrating inspection and testing prior to backfilling.	No tracker provided. Excavation DWG provided 23/09.
Compaction Trial Assessment	Analysis of compaction trial required to demonstrate method is suitable to meet end product criteria	Report provided by VHE (TN005) 02/09. Hydrock reviewed and commented.
Soft Spot records	Soft spot record sheets provided by RH on 12/08 are a good record of the works undertaken and will be issued to Hydrock periodically	Latest soft spot records issued for 1,2,3. Further updates required as works progress
Hotspot Reports	Validation reports to be provided for each hotspot	Records provided for 1-4 but need updating. Other reports outstanding
Geotechnical Monitoring	Monitoring results to be included in regular update reports	No records provided to date

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1025

SHEET NO.: 5 of 16

Hydrock Comment	Contractor Proposal/Solution	Action Status
Other		
Coal Authority Permit	VHE to obtain permit for mine entry treatment	Coal Authority permission for mine shaft treatment has been achieved and grouting will be started next week.
Boundary Survey	VHE to provide boundary survey to demonstrate compliance with contract	Discrepancy noted in southwestern boundary with regards to standoff (09/09/22) Further survey required.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1025

SHEET NO.: 6 of 16



Photograph 1: Overview of the site. Looking towards the south.



Photograph 2: Broken out concrete slab in southeastern part of the site.



Photograph 3: Stockpiles of processed and excavated materials in eastern and northeastern part of the site.



Photograph 4: Stockpile of crushed material in northwestern part of the site.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1025

SHEET NO.: 8 of 16



Photograph 5: Deleterious material in eastern part of the site.



Photograph 6: Standing water in excavation in central part of the site.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1025

SHEET NO.: 9 of 16



Photograph 7: Standing water in excavation in southern part of the site.



Photograph 8: Plate load testing on fill material in western part of the site.



Photograph 9: Transferring material from northeastern stockpile for construction of shaft grouting platform.



Photograph 10: Unloading material in southeastern part of the site to construct shaft grouting platform.



Photograph 11: Construction of shaft grouting platform in southeastern part of the site.



Photograph 12: Plate load testing in southwestern part of the site.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1025

SHEET NO.: 12 of 16



Photograph 93: Excavation of landfill Made Ground in southwestern part of the site.



Photograph 14: Backfilling southern part of the site using material from excavation in southwestern part of the site.



Photograph 15: Potentially TPH contaminated material stockpiles in northwestern part of the site.



Photograph 16: Brick and crushed materials stockpiles in northwestern part of the site.



Photograph 17: Topsoil and soft spot materials stockpiles in northern part of the site.



Photograph 18: Standing water in northern part of the site.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1025

SHEET NO.: 15 of 16



Photograph 19: Oversize materials in granular stockpile in northeast of the site.



Photograph 20: Stockpile of oversize and deleterious materials in northeastern part of the site.



Photograph 21: Dozer pushing fill material to backfill southern part of the site.



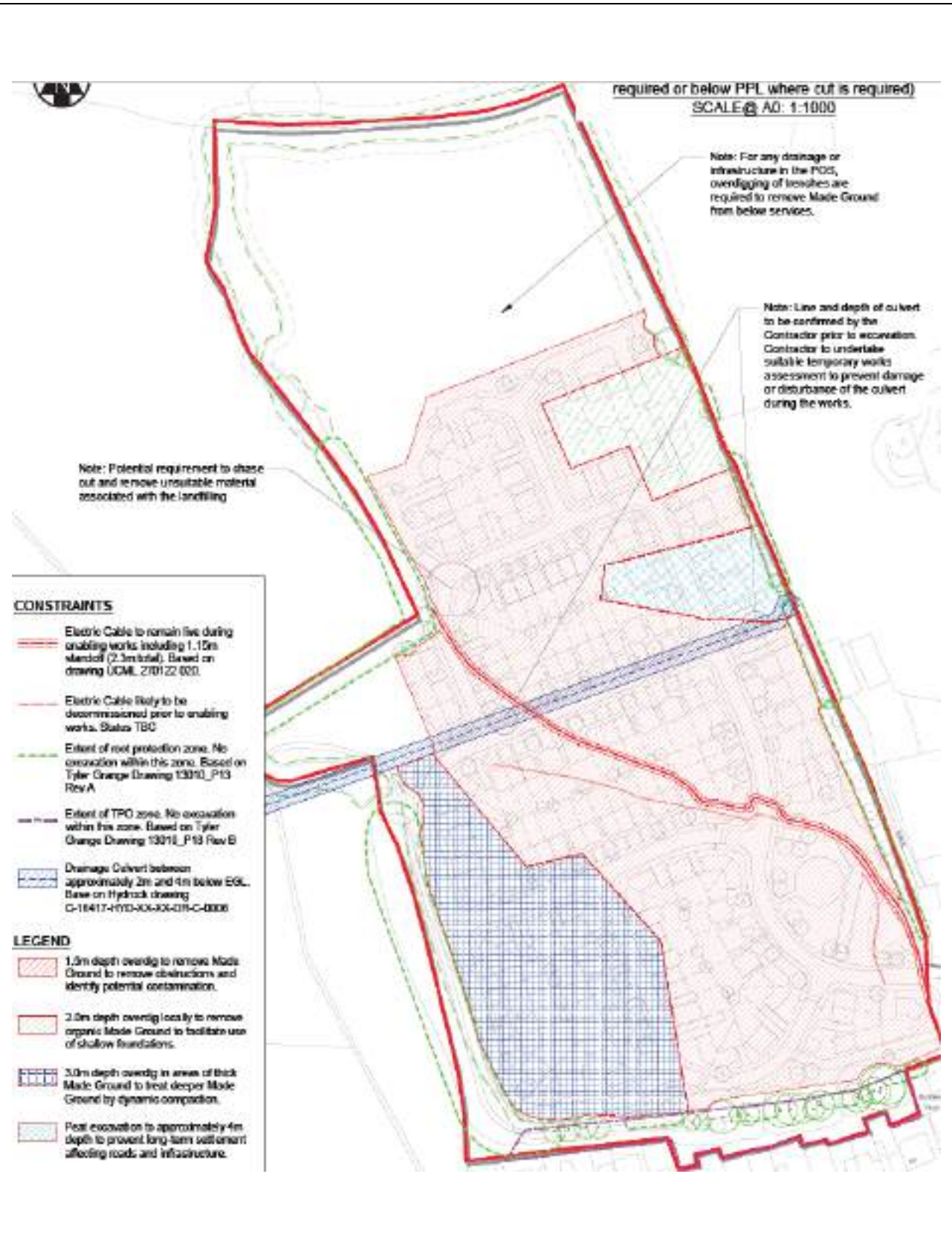
Photograph 22: Construction of shaft grouting platform in southeastern part of the site.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1026		SHEET NO.: 1 of 18	
Project: Stopes Road, Bolton		Date: 29/09/22	
Client: Harworth		Weather: Overcast	
Contract No.: C-15220-C		Engineer: D Mahdavian	
Doc Ref: 15220-HYD-XX-XX-SVR-GE-1025		Status & Revision: S2 – P1	

Personnel Present:			
Organisation	Role		Name
VHE	Project Manager		Richard Hargreaves
Harworth	Project Manager		Fiona Lewis
NHBC	Geotechnical Engineer		Carla Stephen
NHBC	Geo-Environmental Engineer		David Jacob
A: Review of Earthworks Testing Records to Appendix 1/24 Clause 6.5			
Item	Evidence of Record		Comment
	Yes	No	
Records reviewed on site		✓	Testing schedule not reviewed at time of visit
Sequential Test Number		na	
Date of Test		na	
Coordinated Position		na	
Test Grid Reference		na	
Layer No		na	
Source material Type		na	
Results checked for compliance		na	
C: Additional activities to be observed by Hydrock during Audit Visit			
Item	Observed on Site		Comment
	Yes	No	
Temporary Slopes	✓		Excavation sides generally battered to safe angle where open for any significant period
Excavation and site surveying	✓		Excavation in southern part and surveying is being done.
De-watering of excavations	✓		Standing water in the north of site.
Control & management of water		✓	No surface water observed
Compaction Trials completed	✓		TN005
Layer thickness - check	✓		
Compaction method – check	✓		Proof rolling.
Benching in of fill - check		✓	VHE reminded fill to be benched into existing ground
Stockpiling of material	✓		Stockpiling material from hotspot separately. Stockpiling excavated concrete from southeastern part of the site in northwest of the site. Stockpiling excavated material from soft spots in southern part of the site in the north of the site.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1026			SHEET NO.: 2 of 18
			Stockpiling excavated material from southeast of the site in northwest of the site.
Inspection of subgrade	✓		Overdig commenced in the southeast. Dark brown silty sand with occasional bricks and Glacial till.
Quality management of fill	✓		VHE screener is off hired. Hand picking of unsuitable material is being done by VHE. Oversize material is being stockpiled in northwest of the site to be processed later.
Works Undertaken by the Contractor:			
VHE - Existence of deleterious material including concrete, metal, wood, and plastic in material in southeastern part of the site and stockpiled material in northeastern and northwestern part of the site. - Excavation of landfill Made Ground in southern part of the site. - Backfilling of southwestern part of the site using excavated material from southern part of the site. - Excavation of Glacial Till and landfill materials in southeastern part of the site. - Stockpiling excavated material from southeast of the site in northwest of the site. - Stockpiling Glacial Till material in central and northwestern part of the site - Backfilling of southern part of the site using processed material from eastern stockpile. - Proof rolling of fill material in southern part of the site. - Plate load, NDM and SRD testing by Murry Rix in western and southwestern part of the site. - Removing oversize from excavated material using riddle bucket excavator in northwest of the site.			
Discussions/Recommendations & Instructions:			
To/From VHE Hydrock, Harworth, NHBC and VHE undertook a site walk over and discussed details of earthworks, ground improvement and mine shaft treatment. VHE stated that RDC operation and excavation of soft spots are ongoing in southwestern part of the site. Soft spots treatment in southwestern part of the site were discussed. HSV test completed and results are above 30KPa. Mine shaft treatment will be started on Monday next week by Van Elle. Quality management of the fill was discussed. Oversize material detected in excavation southeastern part of the site. Screener and crusher are off hired. VHE stated that oversize material will be stockpiled and screener will be on site to process them.			

Site Plan



SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1026**SHEET NO.: 4 of 18****Action Plan**

Hydrock Comment	Contractor Proposal/Solution	Action Status
Designs		
RDC/HEIC design required	Design developed by Contractor and AWP	Final design completed following site trials. Works progressing.
Mine Treatment Design	Design to be developed as far as possible based on current information.	Final comments from NHBC to be addressed by VHE
Test Reports and Records		
Time lag of geotechnical and geochemical testing.	Contractor confirmed 15 days turnaround time.	Client team to be notified if any test data will be delayed. No lab test delay reported.
Source approval note	Contractor (AWP) agreed to provide a note on the different sources, volumes and testing ahead of the compaction trials	Report provided by VHE (TN005) 02/09. Hydrock reviewed the reports and submitted comments to VHE. Source testing for 6F2 required.
Fortnightly Testing Report (latest report to be sent monthly to NHBC)	Contractor / AWP agreed to provide a report every fortnight demonstrating compliance with the material testing specification and suitability of formations	Frequency increased to weekly. TN007 and TN008 received 22/09. Testing assessment outstanding
Evidence of material tracking and stockpile surveys required.	VHE agreed provision of weekly records	Latest stockpile survey 23/09 and fill survey 10/08. Weekly surveys not being met.
Base of excavation records	Tracker to be provided demonstrating inspection and testing prior to backfilling.	No tracker provided. Excavation DWG provided 28/09.
Compaction Trial Assessment	Analysis of compaction trial required to demonstrate method is suitable to meet end product criteria	Report provided by VHE (TN005) 02/09. Hydrock reviewed and commented.
Soft Spot records	Soft spot record sheets provided by RH on 12/08 are a good record of the works undertaken and will be issued to Hydrock periodically	Latest soft spot records issued for 1,2,3. Further updates required as works progress
Hotspot Reports	Validation reports to be provided for each hotspot	Records provided for 1-4 but need updating. Other reports outstanding
Geotechnical Monitoring	Monitoring results to be included in regular update reports	RSG monitoring provided 28/09. No VWP data

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1026

SHEET NO.: 5 of 18

Hydrock Comment	Contractor Proposal/Solution	Action Status
Other		
Coal Authority Permit	VHE to obtain permit for mine entry treatment	Coal Authority permission for mine shaft treatment has been achieved and grouting will be started next week.
Boundary Survey	VHE to provide boundary survey to demonstrate compliance with contract	Discrepancy noted in southwestern boundary with regards to standoff (09/09/22) Additional survey provided 28/09 but no change to boundary

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1026

SHEET NO.: 6 of 18



Photograph 1: Overview of the site. Looking towards the south.



Photograph 2: Excavation of landfill Made Ground and Glacial Till in southeastern part of the site.



Photograph 3: Excavation of landfill Made Ground in southern part of the site.



Photograph 4: Backfilling of southwestern part of the site using excavated material from southern part of the site.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1026

SHEET NO.: 8 of 18



Photograph 5: Stockpiling excavated material from southeastern excavation in northwestern part of the site.



Photograph 6: Stockpile of Glacial Till material in southeastern part of the site.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1026

SHEET NO.: 9 of 18



Photograph 7: Removing oversize from excavated material from southeastern part of the site using riddle bucket excavator in northwestern stockpile.



Photograph 8: Stockpile of excavated concrete in northwest of the site. Material from excavation in southeastern part of the site

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1026

SHEET NO.: 10 of 18



Photograph 9: Stockpile of bricks and crushed materials in northwestern part of the site.



Photograph 10: Potentially TPH contaminated material stockpile in northwestern part of the site.



Photograph 11: Western boundary of the site. Looking towards the south.



Photograph 12: Overview of stockpiles in northern part of the site. Looking towards the North.



Photograph 93: Constructed platform for mine shaft no.6 grouting operation.



Photograph 14: Standing water in northern part of the site.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1026

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Photograph 15: Stockpile of Topsoil and materials from soft spots excavations in northern part of the site.



Photograph 16: Plate load testing in southern part of the site.



Photograph 17: Southern boundary of the site. Looking towards the west.



Photograph 18: Deleterious material in excavation in southeastern part of the site.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1026

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Photograph 19: Proof rolling of fill material in southern part of the site.



Photograph 20: Surveying of excavations in southeastern part of the site.



Photograph 21: transferring processed material from eastern stockpile to backfill southwestern part of the site.



Photograph 22: Backfilling southwestern part of the site using processed material from eastern stockpile.



Photograph 23: Standing water in southeastern excavation.



Photograph 24: Stockpiling excavated material from southeastern part of the site in northwest of the site.



Photograph 25: Locations of NDM tests on fill material in southwest of the site.



Photograph 26: Locations of SRD tests on fill material in southwestern part of the site.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1027		SHEET NO.: 1 of 18	
Project: Stopes Road, Bolton		Date: 04/10/22	
Client: Harworth		Weather: Rain on and off	
Contract No.: C-15220-C		Engineer: D Mahdavian	
Doc Ref: 15220-HYD-XX-XX-SVR-GE-1027		Status & Revision: S2 – P1	

Personnel Present:			
Organisation	Role		Name
VHE	Project Manager		Richard Hargreaves
AWP	Geo-Environmental Engineer		Ben Kennerley
A: Review of Earthworks Testing Records to Appendix 1/24 Clause 6.5			
Item	Evidence of Record		Comment
	Yes	No	
Records reviewed on site		✓	Testing schedule not reviewed at time of visit
Sequential Test Number		na	
Date of Test		na	
Coordinated Position		na	
Test Grid Reference		na	
Layer No		na	
Source material Type		na	
Results checked for compliance		na	
C: Additional activities to be observed by Hydrock during Audit Visit			
Item	Observed on Site		Comment
	Yes	No	
Temporary Slopes	✓		Excavation sides generally battered to safe angle where open for any significant period
Excavation and site surveying	✓		Excavation in western part and surveying is being done.
De-watering of excavations	✓		Standing water in the east and north of site.
Control & management of water		✓	No surface water observed
Compaction Trials completed	✓		TN005
Layer thickness - check	✓		
Compaction method – check	✓		Proof rolling.
Benching in of fill - check		✓	VHE reminded fill to be benched into existing ground
Stockpiling of material	✓		Stockpiling material from hotspot separately. Stockpiling excavated concrete from southeastern part of the site in northwest of the site. Stockpiling excavated material from soft spots in southern part of the site in the north of the site.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1027			SHEET NO.: 2 of 18
			Transferring stockpiled granular material in northeast of the site to northwest of the site. Transferring stockpiled material (from soft spots) in northeast of the site to northwest of the site.
Inspection of subgrade	✓		Overdig commenced in the southeast. Dark brown silty sand with occasional bricks and Glacial till.
Quality management of fill	✓		VHE screener is off hired. Hand picking of unsuitable material is being done by VHE. Oversize material is being stockpiled in northwest of the site to be processed later.
Works Undertaken by the Contractor:			
VHE - Existence of deleterious material including concrete, metal, wood, and plastic in material in western part of the site and stockpiled material in northeastern and northwestern part of the site. - Construction of platform for grouting rig and setting up grouting rig in southeastern part of the site. - Excavation of landfill Made Ground in western part of the site to find abstraction well. - Backfilling of western part of the site using excavated material from western part of the site. - Proof rolling of fill material in western part of the site. - Transferring stockpiled granular material in northeast of the site to northwest of the site. - Transferring stockpiled material (from soft spots) in northeast of the site to northwest of the site. - Backfilling of southwestern part of the site using granular material from northeastern stockpile. - Proof rolling of granular fill material in southwestern part of the site.			
Discussions/Recommendations & Instructions:			
To/From VHE Hydrock and VHE undertook a site walk over and discussed details of earthworks, ground improvement and mine shaft treatment. VHE stated that RDC operation and excavation of soft spots are ongoing in southeastern part of the site. Mine shaft treatment will be started on Wednesday this week by Van Elle. Due to rain fall earthworks operation is slower than usual. VHE is going to excavate trial pits in northeast of the site to collect samples for geotechnical testing. Additional density assessment of the fill materials with 4.5kg rammer were discussed. VHE completed the template form which was requested by Daniel Fry and sent some of the test results. VHE is going to chase Murry Rix for further test results.			

SHEET NO.: 3 of 18

required or below PPL where cut is required)
SCALE: A0: 1:1000

Note: For any drainage or infrastructure in the POD, overdigging of levels are required to remove Made Ground from below services.

Note: Line and depth of culvert to be confirmed by the Contractor prior to excavation. Contractor to undertake suitable temporary works assessment to prevent damage or disturbance of the culvert during the works.

Note: Potential requirement to chase out and remove unsuitable material associated with the landfilling

CONSTRAINTS

- Electric Cable to remain live during enabling works including 1.15m standoff (2.3m total). Based on drawing UGML 270122 000.
- Electric Cable likely to be decommissioned prior to enabling works. Status TBC
- Extent of root protection zone. No excavation within this zone. Based on Tyler Grange Drawing 13010_P13 Rev A
- Extent of TPO zone. No excavation within this zone. Based on Tyler Grange Drawing 13010_P13 Rev B
- Drainage Culvert between approximately 2m and 4m below EGL. Based on Hydrack drawing C-18417-4-0103-X06-X04-019-C-0000

LEGEND

- 1.0m depth overdig to remove Made Ground to remove obstructions and identify potential contamination.
- 2.0m depth overdig locally to remove organic Made Ground to facilitate use of shallow foundations.
- 3.0m depth overdig in areas of thick Made Ground to treat deeper Made Ground by dynamic compaction.
- Post excavation to approximately 4m depth to prevent long-term settlement affecting roads and infrastructure.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1027**SHEET NO.: 4 of 18****Action Plan**

Hydrock Comment	Contractor Proposal/Solution	Action Status
Designs		
RDC/HEIC design required	Design developed by Contractor and AWP	Final design completed following site trials. Works progressing.
Mine Treatment Design	Design to be developed as far as possible based on current information.	Updated specification provided by Van Elle 03/10
Test Reports and Records		
Time lag of geotechnical and geochemical testing.	Contractor confirmed 15 days turnaround time.	Client team to be notified if any test data will be delayed. No lab test delay reported.
Source approval note	Contractor (AWP) agreed to provide a note on the different sources, volumes and testing ahead of the compaction trials	Report provided by VHE (TN005) 02/09. Hydrock reviewed the reports and submitted comments to VHE. Source testing for 6F2 required.
Fortnightly Testing Report (latest report to be sent monthly to NHBC)	Contractor / AWP agreed to provide a report every fortnight demonstrating compliance with the material testing specification and suitability of formations	Frequency increased to weekly. TN007 and TN008 received 22/09. Testing assessment outstanding
Evidence of material tracking and stockpile surveys required.	VHE agreed provision of weekly records	Latest stockpile survey 29/09 and fill survey 10/08. Weekly surveys not being met.
Base of excavation records	Tracker to be provided demonstrating inspection and testing prior to backfilling.	No tracker provided. Excavation DWG provided 28/09.
Compaction Trial Assessment	Analysis of compaction trial required to demonstrate method is suitable to meet end product criteria	Report provided by VHE (TN005) 02/09. Hydrock reviewed and commented.
Soft Spot records	Soft spot record sheets provided by RH on 12/08 are a good record of the works undertaken and will be issued to Hydrock periodically	Latest soft spot records issued for 1,2,3. Further updates required as works progress.
Hotspot Reports	Validation reports to be provided for each hotspot	Records provided for 1-4 but need updating. Other reports outstanding
Geotechnical Monitoring	Monitoring results to be included in regular update reports	Settlement monitoring data was sent 28/09/2022. VWP to be sent later.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1027

SHEET NO.: 5 of 18

Hydrock Comment	Contractor Proposal/Solution	Action Status
Other		
Coal Authority Permit	VHE to obtain permit for mine entry treatment	Coal Authority permission for mine shaft treatment has been achieved and grouting will be started this week.
Boundary Survey	VHE to provide boundary survey to demonstrate compliance with contract	Discrepancy noted in southwestern boundary with regards to standoff (09/09/22) Additional survey provided 28/09 but no change to boundary

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1027

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Photograph 1: Overview of the site. Looking towards the north.



Photograph 2: Overview of northern part of the site. Looking towards the north.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1027

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Photograph 3: Shaft grouting platform preparation and grouting rig in eastern part of the site.



Photograph 4: Standing water and deleterious material in eastern boundary of the site.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1027

SHEET NO.: 8 of 18



Photograph 5: Standing water in northeastern part of the site.



Photograph 6: Transferring granular material from northeastern stockpile to stockpile in northwestern part of the site and backfill southwest of the site.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1027

SHEET NO.: 9 of 18



Photograph 7: Stockpiling granular material in northwestern part of the site over crushed material stockpile in northwestern part of the site.



Photograph 8: Backfilling southwest of the site using granular material from northeastern stockpile.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1027

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Photograph 9: Standing water in northern part of the site.



Photograph 10: Excavation of landfill Made Ground to find abstraction well in western part of the site.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1027

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Photograph 11: Deleterious material in excavation in western part of the site.



Photograph 12: Backfilling western part of the site using material from excavation in the west.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1027

SHEET NO.: 12 of 18



Photograph 93: Proof rolling of fill material in western part of the site.



Photograph 14: Proof rolling of granular fill material in southwestern part of the site.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1027

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Photograph 15: Stockpile of TPH contaminated material in western part of the site.



Photograph 16: Stockpiles of processed and excavated material in eastern part of the site.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1027

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Photograph 17: Transferring stockpile of soft spot material from the north to the northwest.



Photograph 18: Stockpiling soft spot material from northern stockpile in northwestern part of the site.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1027

SHEET NO.: 15 of 18



Photograph 19: Standing water in southeastern part of the site.



Photograph 20: Soft spot area backfilled with engineered fill in southern part of the site.



Photograph 21: Southern boundary of the site. Looking towards the west.



Photograph 22: Stockpile of bricks and crushed material in northwestern part of the site.



Photograph 23: Stockpile of excavated concrete in central part of the site.



Photograph 24: Northwestern boundary of the site. Looking towards the south.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1027

SHEET NO.: 18 of 18



Photograph 25: Northwestern boundary of the site. Looking towards the north.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1028		SHEET NO.: 1 of 19	
Project: Stopes Road, Bolton		Date: 06/10/22	
Client: Harworth		Weather: Overcast	
Contract No.: C-15220-C		Engineer: D Mahdavian	
Doc Ref: 15220-HYD-XX-XX-SVR-GE-1028		Status & Revision: S2 – P1	

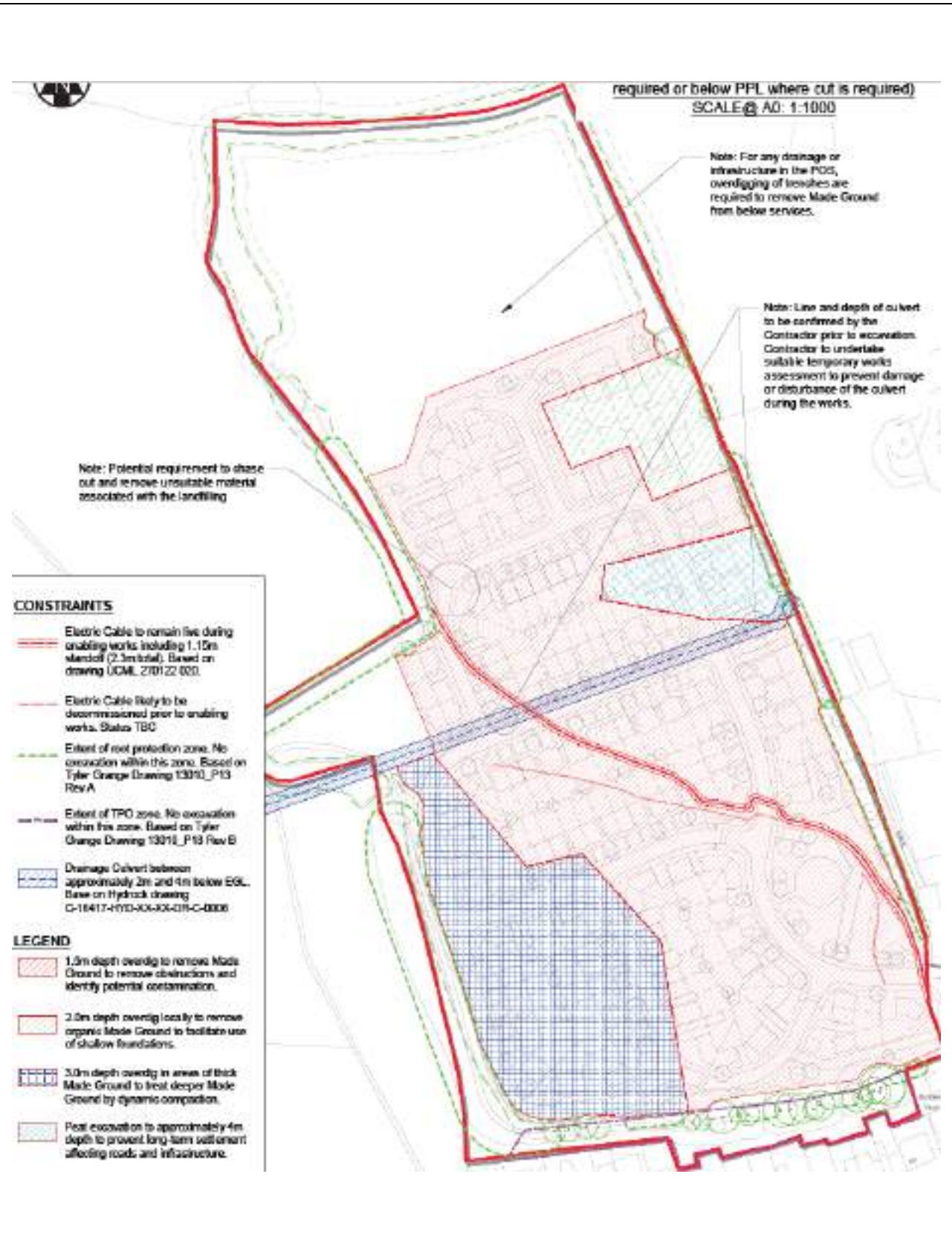
Personnel Present:			
Organisation	Role		Name
VHE	Project Manager		Richard Hargreaves
A: Review of Earthworks Testing Records to Appendix 1/24 Clause 6.5			
Item	Evidence of Record		Comment
	Yes	No	
Records reviewed on site		✓	Testing schedule not reviewed at time of visit
Sequential Test Number		na	
Date of Test		na	
Coordinated Position		na	
Test Grid Reference		na	
Layer No		na	
Source material Type		na	
Results checked for compliance		na	
C: Additional activities to be observed by Hydrock during Audit Visit			
Item	Observed on Site		Comment
	Yes	No	
Temporary Slopes	✓		Excavation sides generally battered to safe angle where open for any significant period
Excavation and site surveying	✓		No excavation but surveying is being done.
De-watering of excavations	✓		Standing water in the north and south of site.
Control & management of water		✓	No surface water observed
Compaction Trials completed	✓		TN005
Layer thickness - check	✓		
Compaction method – check		✓	n/a
Benching in of fill - check		✓	VHE reminded fill to be benched into existing ground
Stockpiling of material	✓		Stockpiling material from hotspot separately. Stockpiling excavated material from soft spots in southern part of the site in the north of the site.
Inspection of subgrade	✓		Overdig commenced in the southeast. Dark brown silty sand with occasional bricks and Glacial till.
Quality management of fill	✓		VHE screener is off hired. Hand picking of unsuitable material is being done by VHE.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1028			SHEET NO.: 2 of 19
			Oversize material is being stockpiled in northwest of the site to be processed later.
Works Undertaken by the Contractor:			
VHE - Existence of deleterious material including concrete, metal, wood, and plastic in material in eastern part of the site and stockpiled material in northeastern and northwestern part of the site. - Grouting of shaft no.6 in southeastern part of the site. - Excavation of trial pits and sample collection in eastern and northeastern part of the site. - Plate load testing by Murry Rix in the new truck parking area.			
Discussions/Recommendations & Instructions:			
To/From VHE Hydrock and VHE undertook a site walk over and discussed details of earthworks, ground improvement and mine shaft treatment. VHE stated that RDC operation and excavation of soft spots are ongoing in southeastern part of the site. Mine shaft treatment of shaft no.6 started on Wednesday at noon by Van Elle. Borehole drilling was completed on Wednesday and grouting is ongoing. Due to rain fall earthworks operation is halted.			

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1028

SHEET NO.: 3 of 19

Site Plan



SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1028**SHEET NO.: 4 of 19****Action Plan**

Hydrock Comment	Contractor Proposal/Solution	Action Status
Designs		
RDC/HEIC design required	Design developed by Contractor and AWP	Final design completed following site trials. Works progressing.
Mine Treatment Design	Design to be developed as far as possible based on current information.	Updated specification provided by Van Elle 03/10
Test Reports and Records		
Time lag of geotechnical and geochemical testing.	Contractor confirmed 15 days turnaround time.	Client team to be notified if any test data will be delayed. No lab test delay reported.
Source approval note	Contractor (AWP) agreed to provide a note on the different sources, volumes and testing ahead of the compaction trials	Report provided by VHE (TN005) 02/09. Hydrock reviewed the reports and submitted comments to VHE. Source testing for 6F2 required.
Fortnightly Testing Report (latest report to be sent monthly to NHBC)	Contractor / AWP agreed to provide a report every fortnight demonstrating compliance with the material testing specification and suitability of formations	Frequency increased to weekly. TN007 and TN008 received 22/09. Testing assessment outstanding.
Evidence of material tracking and stockpile surveys required.	VHE agreed provision of weekly records	Latest stockpile survey 29/09 and fill survey 10/08.
Base of excavation records	Tracker to be provided demonstrating inspection and testing prior to backfilling.	No tracker provided. Excavation DWG provided 23/09.
Compaction Trial Assessment	Analysis of compaction trial required to demonstrate method is suitable to meet end product criteria	Report provided by VHE (TN005) 02/09. Hydrock reviewed and commented.
Soft Spot records	Soft spot record sheets provided by RH on 12/08 are a good record of the works undertaken and will be issued to Hydrock periodically	Latest soft spot records issued for 1,2,3. Further updates soft spots 12, 13, 14 and 15 provided.
Hotspot Reports	Validation reports to be provided for each hotspot	Records provided for 1-4 but need updating. Other reports outstanding
Geotechnical Monitoring	Monitoring results to be included in regular update reports	Settlement monitoring data was sent 28/09/2022. VWP to be sent later.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1028

SHEET NO.: 5 of 19

Hydrock Comment	Contractor Proposal/Solution	Action Status
Other		
Coal Authority Permit	VHE to obtain permit for mine entry treatment	Coal Authority permission for mine shaft treatment has been achieved and grouting will be started this week.
Boundary Survey	VHE to provide boundary survey to demonstrate compliance with contract	Discrepancy noted in southwestern boundary with regards to standoff (09/09/22) Additional survey provided 28/09 but no change to boundary

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1028

SHEET NO.: 6 of 19



Photograph 1: Overview of the site. Looking towards the south.



Photograph 2: Grouting shaft no.6 in eastern part of the site.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1028

SHEET NO.: 7 of 19



Photograph 3: Grout mixer and grout delivery in eastern part of the site.



Photograph 4: Standing water in northern part of the site.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1028

SHEET NO.: 8 of 19



Photograph 5: Standing water in northeastern part of the site.



Photograph 6: Stockpiles in northeastern boundary of the site. Looking towards the south.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1028

SHEET NO.: 9 of 19



Photograph 7: Stockpile of crushed and granular material in northwestern part of the site.



Photograph 8: Overview of northern stockpiles (Topsoil and material from soft spots)



Photograph 9: Stockpile of potentially TPH contaminated material in western boundary of the site.



Photograph 10: Stockpile of excavated concrete and oversized material in southern part of truck parking.



Photograph 11: Stockpiles in eastern boundary of the site. Looking towards the east.



Photograph 12: Standing water in southeast of the site.



Photograph 93: Standing water and stockpile of soft spot material in southern part of the site.



Photograph 14: Western boundary of the site. Looking towards the north.



Photograph 15: Southern boundary of the site. Looking towards the east.



Photograph 16: Standing water in southwestern part of the site.



Photograph 17: Standing water in excavation for abstraction well in western part of the site.



Photograph 18: Stockpile of excavated Glacial Till and standing water in southeast of the site.



Photograph 19: Excavation of trial pit in eastern part of the site.



Photograph 20: Trial pit in eastern part of the site.



Photograph 21: Sample collection from excavated material from trial pit in eastern part of the site.



Photograph 22: Samples and backfilled trial pit in eastern part of the site.



Photograph 23: Plate load testing in truck parking area in northwest of the site.



Photograph 24: Trial pit in location of organic Made Ground deposit in northeastern boundary of the site.



Photograph 23: Trial pit in location of organic Made Ground deposit in northeastern boundary of the site.



Photograph 24: Trial pit in eastern boundary of the site.

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Photograph 23: Trial pit in eastern boundary of the site.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1029		SHEET NO.: 1 of 18	
Project: Stopes Road, Bolton		Date: 11/10/22	
Client: Harworth		Weather: Overcast	
Contract No.: C-15220-C		Engineer: D Mahdavian	
Doc Ref: 15220-HYD-XX-XX-SVR-GE-1029		Status & Revision: S2 – P1	

Personnel Present:			
Organisation	Role		Name
VHE	Project Manager		Richard Hargreaves
AWP	Geo-Environmental Engineer		Ben Kennerley
A: Review of Earthworks Testing Records to Appendix 1/24 Clause 6.5			
Item	Evidence of Record		Comment
	Yes	No	
Records reviewed on site		✓	Testing schedule not reviewed at time of visit
Sequential Test Number		na	
Date of Test		na	
Coordinated Position		na	
Test Grid Reference		na	
Layer No		na	
Source material Type		na	
Results checked for compliance		na	
C: Additional activities to be observed by Hydrock during Audit Visit			
Item	Observed on Site		Comment
	Yes	No	
Temporary Slopes	✓		Excavation sides generally battered to safe angle where open for any significant period
Excavation and site surveying	✓		Excavation in eastern part of the site and surveying is being done.
De-watering of excavations	✓		Standing water in the north and south of site.
Control & management of water		✓	No surface water observed
Compaction Trials completed	✓		Completed waiting for results.
Layer thickness - check	✓		
Compaction method – check		✓	Proof rolling and RDC.
Benching in of fill - check		✓	n/a
Stockpiling of material	✓		Stockpiling material from hotspot separately. Stockpiling excavated material from soft spots in southern part of the site in the north of the site. Stockpiling excavated material from eastern part of the site in northeast of the site.
Inspection of subgrade	✓		Overdig commenced in the southeast. Dark brown silty sand

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1029			SHEET NO.: 2 of 18
			with occasional bricks and Glacial till.
Quality management of fill	✓		VHE screener is off hire. Hand picking of unsuitable material is being done by VHE. Oversize material is being stockpiled in northwest of the site to be processed later.
Works Undertaken by the Contractor:			
VHE • Existence of deleterious material including concrete, metal, wood, and plastic in material in eastern part of the site and stockpiled material in northeastern and northwestern part of the site. • Grouting of shaft no.6 in southeastern part of the site. • Excavation of landfill Made Ground in eastern part of the site. • Backfilling southwestern part of the site using excavated material from eastern excavation. • Proof rolling of fill in southwestern part of the site. • Stockpiling excavated material from eastern part of the site in northeastern part of the site. • Dynamic compaction using polygonal roller in southern and northeastern part of the site. • Potentially asbestos contaminated material had been stockpiled in car park area. • Sample collection from potentially asbestos contaminated material from stockpile in car park area. • Bricks from bricks stockpile in northwestern part of the site had been used to construct a road for trucks in southern part of the site due to wet ground condition. • Transferring granular crushed material from northwestern stockpile to backfill southern part of the site.			
Discussions/Recommendations & Instructions:			

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1029

SHEET NO.: 3 of 18

To/From VHE

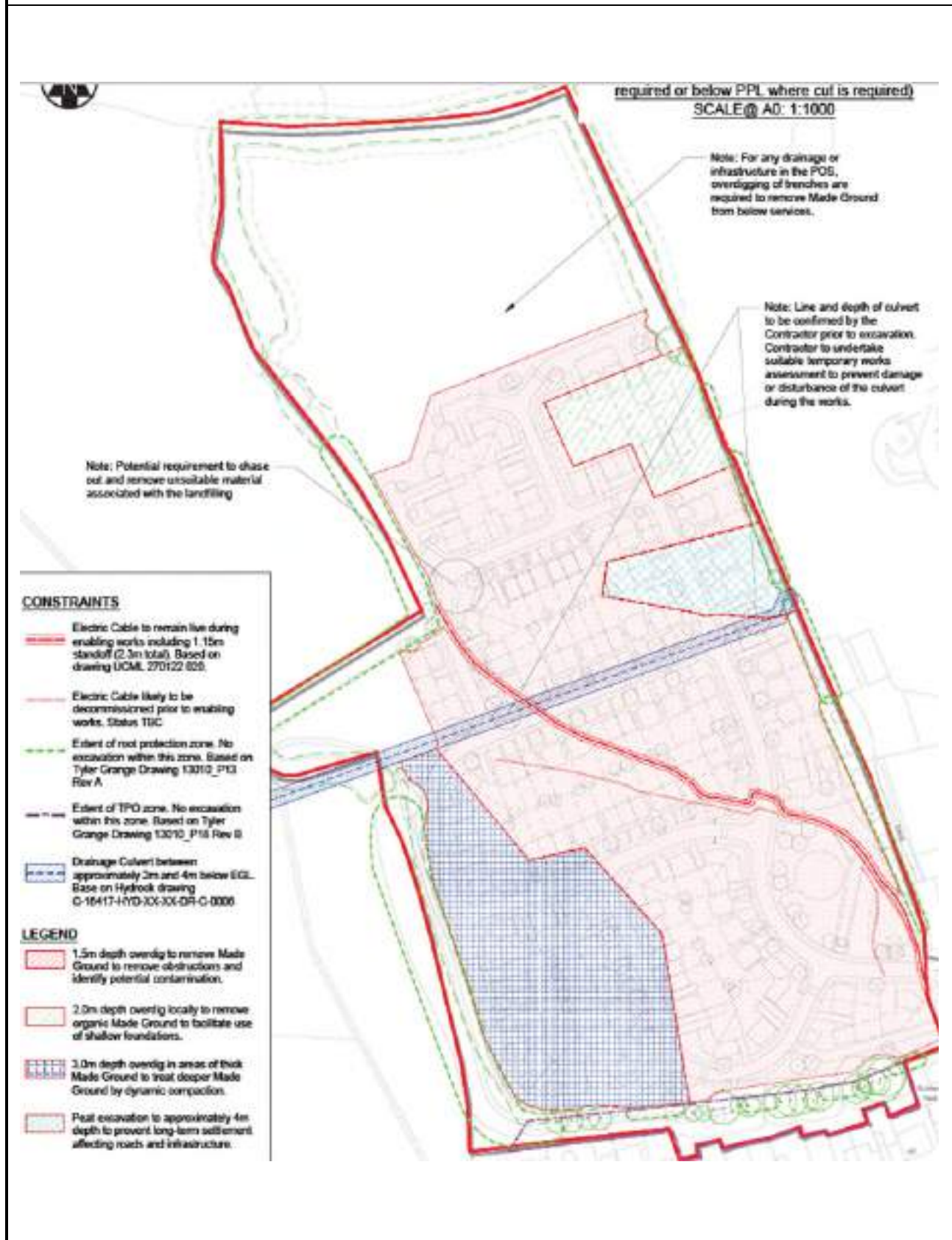
Hydrock and VHE discussed details of earthworks, ground improvement and mine shaft treatment. VHE stated that RDC operation is ongoing in southern and northeastern part of the site. VHE is going to use lime stabilisation technique to reduce moisture content on site.

VHE stated that extra peat material has been found in eastern part of the site. VHE to stockpile peat material in a different stockpile.

Hydrock and AWP discussed results of testing results AWP has not received new testing results since late August.

Mine shaft treatment of shaft no.6 is ongoing. VHE stated that Van Elle is experiencing grout loss. Van Elle has been injecting a PFA : Sand : OPC mix at 8 : 2 : 1 ratio since Monday.

Site Plan



SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1029

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Action Plan

Hydrock Comment	Contractor Proposal/Solution	Action Status
Designs		
RDC/HEIC design required	Design developed by Contractor and AWP	Final design completed following site trials. Works progressing.
Mine Treatment Design	Design to be developed as far as possible based on current information.	Final comments from NHBC to be addressed by VHE
Test Reports and Records		
Time lag of geotechnical and geochemical testing.	Contractor confirmed 15 days turnaround time.	Client team to be notified if any test data will be delayed. No lab test delay reported.
Source approval note	Contractor (AWP) agreed to provide a note on the different sources, volumes and testing ahead of the compaction trials	Report provided by VHE (TN005) 02/09. Hydrock reviewed the reports and submitted comments to VHE. Source testing for 6F2 required.
Fortnightly Testing Report (latest report to be sent monthly to NHBC)	Contractor / AWP agreed to provide a report every fortnight demonstrating compliance with the material testing specification and suitability of formations	Frequency increased to weekly. First report received 18/08 but comments from Hydrock and NHBC need addressing. TN007 and TN008 received 22/09 for Hydrock reviewing. Updated report to include air void assessment.
Evidence of material tracking and stockpile surveys required.	VHE agreed provision of weekly records	Latest stockpile survey 23/09 and fill survey 10/08. Weekly surveys not being met. Additional survey required
Base of excavation records	Tracker to be provided demonstrating inspection and testing prior to backfilling.	No tracker provided. Excavation DWG provided 23/09.
Compaction Trial Assessment	Analysis of compaction trial required to demonstrate method is suitable to meet end product criteria	Report provided by VHE (TN005) 02/09. Hydrock reviewed and commented.
Soft Spot records	Soft spot record sheets provided by RH on 12/08 are a good record of the works undertaken and will be issued to Hydrock periodically	Latest soft spot records issued for 1,2,3. Further updates soft spots 12, 13, 14 and 15 provided.
Hotspot Reports	Validation reports to be provided for each hotspot	Records provided for 1-4 but need updating. Other reports outstanding
Geotechnical Monitoring	Monitoring results to be included in regular update reports	Settlement monitoring data was sent 28/09/2022. VWP to be sent later.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1029

SHEET NO.: 6 of 18

Hydrock Comment	Contractor Proposal/Solution	Action Status
Other		
Coal Authority Permit	VHE to obtain permit for mine entry treatment	Coal Authority permission for mine shaft treatment has been achieved and grouting will be started last week.
Boundary Survey	VHE to provide boundary survey to demonstrate compliance with contract	Discrepancy noted in southwestern boundary with regards to standoff (09/09/22)

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1029

SHEET NO.: 7 of 18



Photograph 1: Overview of the site. Looking towards the south.



Photograph 2: Grouting shaft no.6 in eastern part of the site.



Photograph 3: Sample collection from potentially asbestos contaminated material in car park area.



Photograph 4: Excavation of landfill Made Ground in eastern part of the site.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1029

SHEET NO.: 9 of 18



Photograph 5: Eastern boundary of the site. Looking towards the north.



Photograph 6: Temporary Road construction in southern part of the site.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1029

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Photograph 7: Standing water in southeastern part of the site.



Photograph 8: Overview of northwestern stockpiles.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1029

SHEET NO.: 11 of 18



Photograph 9: Overview of northeastern stockpiles.



Photograph 10: Stockpiling excavated materials from eastern part of the site in northeastern stockpile.



Photograph 11: Oversize and deleterious materials in northwestern part of the site.



Photograph 12: Stockpile of bricks and crushed materials in northwestern part of the site.



Photograph 93: Western boundary of the site. Looking towards the south.



Photograph 14: Standing water in excavation in western part of the site.



Photograph 15: Temporary Road construction using bricks and general fill materials in southwestern part of the site.



Photograph 16: Proof rolling over fill material in southwestern part of the site.



Photograph 17: Backfilling southwestern part of the site using materials from eastern excavation.



Photograph 18: Oversize and deleterious material in excavation in eastern part of the site.

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SHEET NO.: 16 of 18



Photograph 19: Dynamic compaction in northeastern part of the site.



Photograph 20: Overview of northern stockpiles. Looking towards the north.



Photograph 21: Standing water in northern part of the site.



Photograph 22: Southern boundary of the site. Looking towards the west.



Photograph 23: Backfilling southwestern part of the site using excavated materials from eastern excavation.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1030		SHEET NO.: 1 of 18	
Project: Stopes Road, Bolton		Date: 13/10/22	
Client: Harworth		Weather: Overcast	
Contract No.: C-15220-C		Engineer: D Mahdavian	
Doc Ref: 15220-HYD-XX-XX-SVR-GE-1030		Status & Revision: S2 – P1	

Personnel Present:			
Organisation	Role		Name
VHE	Project Manager		Richard Hargreaves
A: Review of Earthworks Testing Records to Appendix 1/24 Clause 6.5			
Item	Evidence of Record		Comment
	Yes	No	
Records reviewed on site		✓	Testing schedule not reviewed at time of visit
Sequential Test Number		na	
Date of Test		na	
Coordinated Position		na	
Test Grid Reference		na	
Layer No		na	
Source material Type		na	
Results checked for compliance		na	
C: Additional activities to be observed by Hydrock during Audit Visit			
Item	Observed on Site		Comment
	Yes	No	
Temporary Slopes	✓		Excavation sides generally battered to safe angle where open for any significant period
Excavation and site surveying	✓		Excavation in eastern part of the site and surveying is being done.
De-watering of excavations	✓		Standing water in the north and south of site.
Control & management of water		✓	No surface water observed
Compaction Trials completed	✓		TN005
Layer thickness - check	✓		
Compaction method – check		✓	Proof rolling.
Benching in of fill - check		✓	VHE reminded fill to be benched into existing ground.
Stockpiling of material	✓		Stockpiling material from hotspot separately. Stockpiling excavated material from soft spots in southern part of the site in the north of the site. Stockpiling excavated material from eastern part of the site in northeast of the site.
Inspection of subgrade	✓		Overdig commenced in the southeast. Dark brown silty sand with occasional bricks and Glacial till.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1030			SHEET NO.: 2 of 18
Quality management of fill	✓		VHE screener is off hire. Hand picking of unsuitable material is being done by VHE. Oversize material is being stockpiled in northwest of the site to be processed later.
Works Undertaken by the Contractor:			
VHE • Existence of deleterious material including concrete, metal, wood, and plastic in material in eastern part of the site and stockpiled material in northeastern and northwestern part of the site. • Grouting of shaft no.6 in southeastern part of the site. • Excavation of landfill Made Ground in eastern part of the site. • Backfilling southwestern part of the site using excavated material from eastern excavation. • Proof rolling of fill in southwestern part of the site. • Stockpiling excavated material from eastern part of the site in northeastern part of the site. • Surveying excavations and stockpiles.			
Discussions/Recommendations & Instructions:			

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1030

SHEET NO.: 3 of 18

To/From VHE

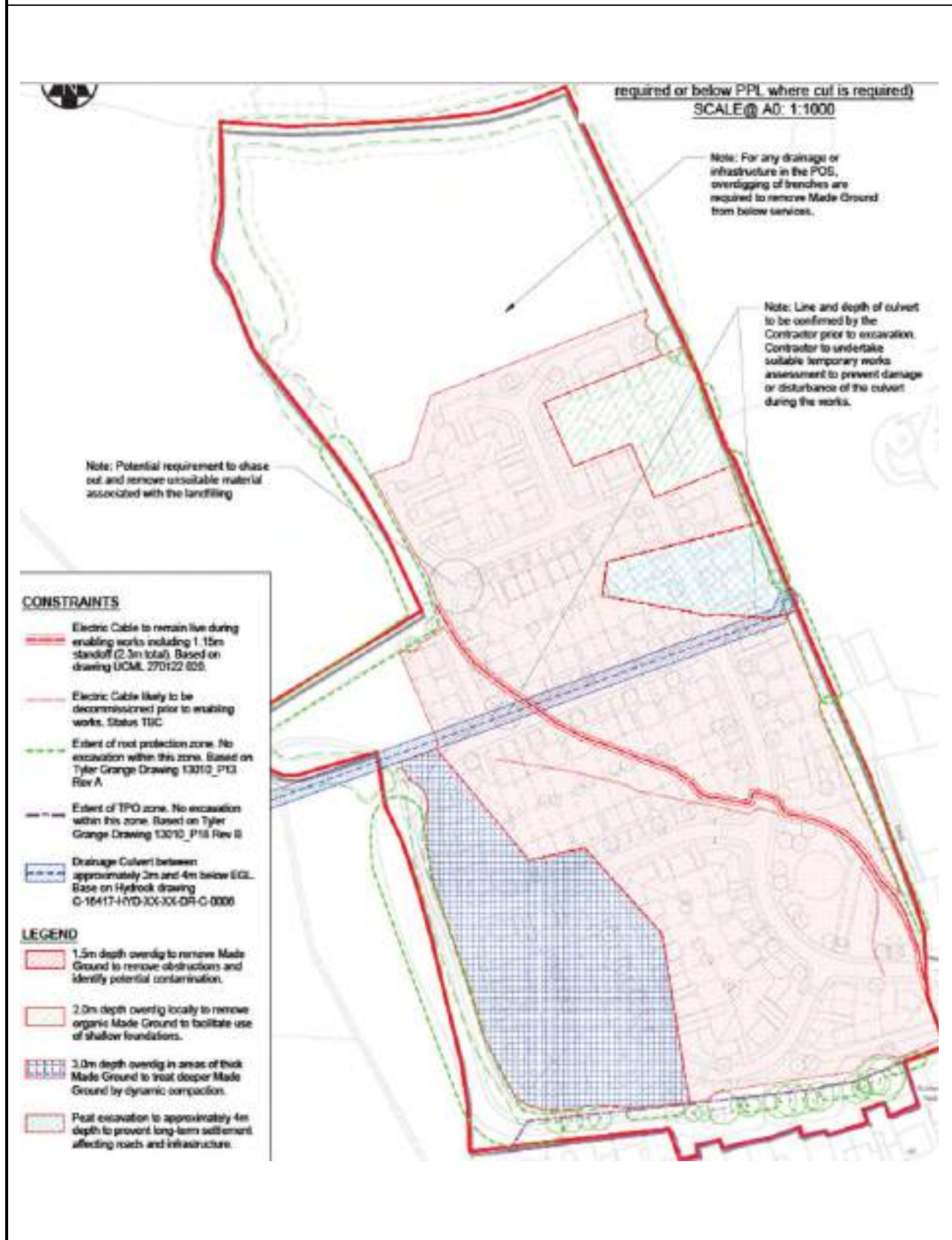
Hydrock and VHE discussed details of earthworks, ground improvement and mine shaft treatment. VHE stated that RDC operation is ongoing in southern part of the site. VHE is going to use lime stabilisation technique to reduce moisture content on site.

VHE stated that extra peat material has been found in eastern part of the site (southern part of the culvert). VHE to stockpile peat material in the northwest.

Hydrock and AWP discussed results of testing results AWP has not received new testing results since late August.

Mine shaft treatment of shaft no.6 is ongoing. VHE stated that Van Elle is experiencing grout loss. Van Elle has been injecting a PFA : Sand : OPC mix at 8 : 2 : 1 ratio.

Site Plan



SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1030

SHEET NO.: 5 of 18

Action Plan

Hydrock Comment	Contractor Proposal/Solution	Action Status
Designs		
RDC/HEIC design required	Design developed by Contractor and AWP	Final design completed following site trials. Works progressing.
Mine Treatment Design	Design to be developed as far as possible based on current information.	Updated specification provided by Van Elle 03/10.
Test Reports and Records		
Time lag of geotechnical and geochemical testing.	Contractor confirmed 15 days turnaround time.	Client team to be notified if any test data will be delayed. No lab test delay reported.
Source approval note	Contractor (AWP) agreed to provide a note on the different sources, volumes and testing ahead of the compaction trials	Report provided by VHE (TN005) 02/09. Hydrock reviewed the reports and submitted comments to VHE. Source testing for 6F2 required.
Fortnightly Testing Report (latest report to be sent monthly to NHBC)	Contractor / AWP agreed to provide a report every fortnight demonstrating compliance with the material testing specification and suitability of formations	Frequency increased to weekly. TN007 and TN008 received 22/09. Testing assessment outstanding.
Evidence of material tracking and stockpile surveys required.	VHE agreed provision of weekly records	Latest stockpile survey 29/09 and fill survey 10/08.
Base of excavation records	Tracker to be provided demonstrating inspection and testing prior to backfilling.	No tracker provided. Excavation DWG provided 23/09.
Compaction Trial Assessment	Analysis of compaction trial required to demonstrate method is suitable to meet end product criteria	Report provided by VHE (TN005) 02/09. Hydrock reviewed and commented.
Soft Spot records	Soft spot record sheets provided by RH on 12/08 are a good record of the works undertaken and will be issued to Hydrock periodically	Latest soft spot records issued for 1,2,3. Further updates soft spots 12, 13, 14 and 15 provided.
Hotspot Reports	Validation reports to be provided for each hotspot	Records provided for 1-4 but need updating. Other reports outstanding
Geotechnical Monitoring	Monitoring results to be included in regular update reports	Settlement monitoring data was sent 28/09/2022. VWP to be sent later.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1030

SHEET NO.: 6 of 18

Hydrock Comment	Contractor Proposal/Solution	Action Status
Other		
Coal Authority Permit	VHE to obtain permit for mine entry treatment	Coal Authority permission for mine shaft treatment has been achieved and grouting was started last week.
Boundary Survey	VHE to provide boundary survey to demonstrate compliance with contract	Discrepancy noted in southwestern boundary with regards to standoff (09/09/22) Additional survey provided 28/09 but no charge to boundary.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1030

SHEET NO.: 7 of 18



Photograph 1: Overview of the site. Looking towards the south.



Photograph 2: Grouting shaft no.6 in eastern part of the site.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1030

SHEET NO.: 8 of 18



Photograph 3: Excavation of Made Ground in eastern part of the site.



Photograph 4: Eastern boundary of the site. Looking towards the north.

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SHEET NO.: 9 of 18



Photograph 5: Glacial Till formation in excavation in eastern part of the site.



Photograph 6: Backfilling southwestern part of the site using material from eastern excavation

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1030

SHEET NO.: 10 of 18



Photograph 7: Standing water in western part of the site.



Photograph 8: Constructed temporary road using bricks and general fill to get access to southwestern part of the site.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1030

SHEET NO.: 11 of 18



Photograph 9: Standing water in southeastern part of the site.



Photograph 10: Stockpiles in northwestern part of the site.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1030

SHEET NO.: 12 of 18



Photograph 11: Oversize and concrete stockpile in northwestern part of the site.



Photograph 12: Stockpiles of bricks, granular and soft spot materials in northwestern part of the site.



Photograph 93: overview of soft spot and Topsoil stockpiles in northern part of the site.



Photograph 14: Standing water in northern part of the site.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1030

SHEET NO.: 14 of 18



Photograph 15: Deleterious and oversized materials in stockpiled material in northeast of the site. Materials excavated from eastern excavation.



Photograph 16: Unloading excavated material from eastern excavation in northeastern part of the site.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1030

SHEET NO.: 15 of 18



Photograph 17: Stockpile of crushed materials in northwestern part of the site.



Photograph 18: northeastern boundary of the site. Looking towards the south.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1030

SHEET NO.: 16 of 18



Photograph 19: Existence of oversized materials in fill in southwestern part of the site.



Photograph 20: Deleterious and oversized materials in excavation in eastern part of the site.



Photograph 21: Proof rolling of fill materials using smooth roller in southwestern part of the site.



Photograph 22: Surveying of southwestern boundary of the site.



Photograph 23: Proof rolling over fill materials using sheepfoot roller in southern part of the site.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1031		SHEET NO.: 1 of 15	
Project: Stopes Road, Bolton		Date: 14/10/22	
Client: Harworth		Weather: Overcast	
Contract No.: C-15220-C		Engineer: D Mahdavian	
Doc Ref: 15220-HYD-XX-XX-SVR-GE-1031		Status & Revision: S2 – P1	

Personnel Present:			
Organisation	Role		Name
VHE	Project Manager		Richard Hargreaves
A: Review of Earthworks Testing Records to Appendix 1/24 Clause 6.5			
Item	Evidence of Record		Comment
	Yes	No	
Records reviewed on site		✓	Testing schedule not reviewed at time of visit
Sequential Test Number		na	
Date of Test		na	
Coordinated Position		na	
Test Grid Reference		na	
Layer No		na	
Source material Type		na	
Results checked for compliance		na	
C: Additional activities to be observed by Hydrock during Audit Visit			
Item	Observed on Site		Comment
	Yes	No	
Temporary Slopes	✓		Excavation sides generally battered to safe angle where open for any significant period
Excavation and site surveying	✓		Excavation in eastern part of the site and surveying is being done.
De-watering of excavations	✓		Standing water in the north and south of site.
Control & management of water		✓	No surface water observed
Compaction Trials completed	✓		TN005
Layer thickness - check	✓		
Compaction method – check		✓	Proof rolling.
Benching in of fill - check		✓	VHE reminded fill to be benched into existing ground.
Stockpiling of material	✓		Stockpiling material from hotspot separately. Stockpiling excavated peat from eastern part of the site (southern part of the culvert) in the northwest of the site. Stockpiling excavated material from eastern part of the site in northeast of the site.
Inspection of subgrade	✓		Overdig commenced in the southeast and east. Dark brown silty

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1031			SHEET NO.: 2 of 15
			sand with occasional bricks, peat and Glacial till.
Quality management of fill	✓		VHE screener is off hire. Hand picking of unsuitable material is being done by VHE. Oversize material is being stockpiled in northwest of the site to be processed later.
Works Undertaken by the Contractor:			
VHE • Existence of deleterious material including concrete, metal, wood, and plastic in material in eastern part of the site and stockpiled material in northeastern and northwestern part of the site. • Grouting of shaft no.6 in southeastern part of the site. • Excavation of peat in eastern part of the site (southern part of the culvert). • Backfilling southeastern part of the site using crushed material from northwestern stockpile to cope with wet clay material. • Stockpiling excavated peat from eastern part of the site in northwest of the site. • Surveying excavations and stockpiles.			
Discussions/Recommendations & Instructions:			

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1031

SHEET NO.: 3 of 15

To/From VHE

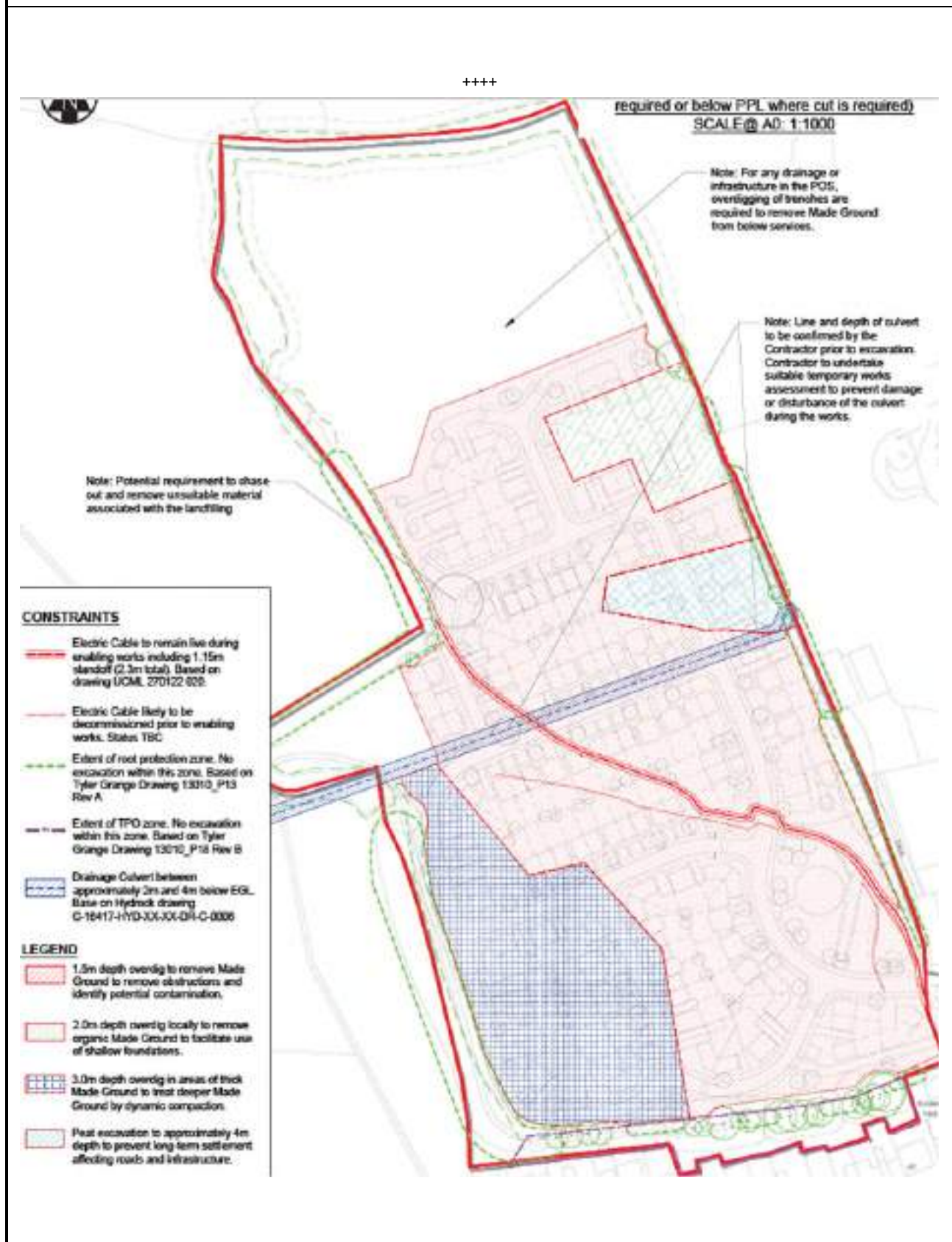
Hydrock and VHE discussed details of earthworks, ground improvement and mine shaft treatment. VHE stated that RDC operation is ongoing in southern part of the site. VHE is going to use lime stabilisation technique to reduce moisture content on site.

VHE stated that extra peat material has been found in eastern part of the site (southern part of the culvert). VHE is stockpiling peat material in the northwest.

Excavation of peat in northern part of the culver will be started after screening and removal of stockpiled materials.

Mine shaft treatment of shaft no.6 is ongoing. VHE stated that Van Elle is experiencing grout loss. Van Elle has been injecting a PFA : Sand : OPC mix at 8 : 2 : 1 ratio. No improvement has been reported so far.

Site Plan



SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1031

SHEET NO.: 5 of 15

Action Plan

Hydrock Comment	Contractor Proposal/Solution	Action Status
Designs		
RDC/HEIC design required	Design developed by Contractor and AWP	Final design completed following site trials. Works progressing.
Mine Treatment Design	Design to be developed as far as possible based on current information.	Updated specification provided by Van Elle 03/10.
Test Reports and Records		
Time lag of geotechnical and geochemical testing.	Contractor confirmed 15 days turnaround time.	Client team to be notified if any test data will be delayed. No lab test delay reported.
Source approval note	Contractor (AWP) agreed to provide a note on the different sources, volumes and testing ahead of the compaction trials	Report provided by VHE (TN005) 02/09. Hydrock reviewed the reports and submitted comments to VHE. Source testing for 6F2 required.
Fortnightly Testing Report (latest report to be sent monthly to NHBC)	Contractor / AWP agreed to provide a report every fortnight demonstrating compliance with the material testing specification and suitability of formations	Frequency increased to weekly. TN007 and TN008 received 22/09. Testing assessment outstanding.
Evidence of material tracking and stockpile surveys required.	VHE agreed provision of weekly records	Latest stockpile survey 29/09 and fill survey 10/08.
Base of excavation records	Tracker to be provided demonstrating inspection and testing prior to backfilling.	No tracker provided. Excavation DWG provided 23/09.
Compaction Trial Assessment	Analysis of compaction trial required to demonstrate method is suitable to meet end product criteria	Report provided by VHE (TN005) 02/09. Hydrock reviewed and commented.
Soft Spot records	Soft spot record sheets provided by RH on 12/08 are a good record of the works undertaken and will be issued to Hydrock periodically	Latest soft spot records issued for 1,2,3. Further updates soft spots 12, 13, 14 and 15 provided.
Hotspot Reports	Validation reports to be provided for each hotspot	Records provided for 1-4 but need updating. Other reports outstanding
Geotechnical Monitoring	Monitoring results to be included in regular update reports	Settlement monitoring data was sent 28/09/2022. VWP to be sent later.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1031

SHEET NO.: 6 of 15

Hydrock Comment	Contractor Proposal/Solution	Action Status
Other		
Coal Authority Permit	VHE to obtain permit for mine entry treatment	Coal Authority permission for mine shaft treatment has been achieved and grouting was started last week.
Boundary Survey	VHE to provide boundary survey to demonstrate compliance with contract	Discrepancy noted in southwestern boundary with regards to standoff (09/09/22) Additional survey provided 28/09 but no charge to boundary.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1031

SHEET NO.: 7 of 15



Photograph 1: Overview of the site. Looking towards the south.



Photograph 2: Grouting shaft no.6 in eastern part of the site.



Photograph 3: Excavation of discovered peat in eastern part of the site (southern part of the culvert).



Photograph 4: Discovered peat in eastern part of the site (southern part of the culvert).

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1031

SHEET NO.: 9 of 15



Photograph 5: Peat excavation in eastern boundary of the site (southern part of the culvert)



Photograph 6: Excavated peat stockpile in northwestern part of the site.



Photograph 7: Placing crushed fill material from northwestern stockpile in the southeast.



Photograph 8: Transferring crushed material from northwestern stockpile to backfill southeastern part of the site.



Photograph 9: Standing water in northern part of the site.



Photograph 10: Surveying of excavations and stockpiles.



Photograph 11: Eastern boundary of the site. Looking towards the north.



Photograph 12: Overview of stockpiles in northern part of the site.



Photograph 93: Western boundary of the site. Looking towards the south.



Photograph 14: Stockpiles of excavated materials in the northeastern boundary of the site.



Photograph 15: Bricks and granular materials stockpiles in the northwestern boundary of the site



Photograph 16: Northeastern boundary of the site. Looking towards the north.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1031

SHEET NO.: 15 of 15



Photograph 17: Standing water in excavation in western boundary of the site.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1032		SHEET NO.: 1 of 15	
Project: Stopes Road, Bolton		Date: 20/10/22	
Client: Harworth		Weather: Rain on and off	
Contract No.: C-15220-C		Engineer: D Mahdavian	
Doc Ref: 15220-HYD-XX-XX-SVR-GE-1032		Status & Revision: S2 – P1	

Personnel Present:			
Organisation	Role	Name	
VHE	Project Manager	Richard Hargreaves	
VHE	Quantity Surveyor	Martin Burgin	
VHE	Quantity Surveyor	James Varley	
JPW Consulting	CDM Advisor	John Wynn	
Cummings Group	Project Surveyor	Gregg Mason	
Harworth	Project Manager	Fiona Lewis	
Harworth	Apprentice	Sammy Mahr	
Hydrock	Geotechnical Engineer	Daniel Fry	
AWP	Geo-Environmental Engineer	Sarah Roberts	
AWP	Geo-Environmental Engineer	Ben Kennerley	
A: Review of Earthworks Testing Records to Appendix 1/24 Clause 6.5			
Item	Evidence of Record		Comment
	Yes	No	
Records reviewed on site		✓	Testing schedule not reviewed at time of visit
Sequential Test Number		na	
Date of Test		na	
Coordinated Position		na	
Test Grid Reference		na	
Layer No		na	
Source material Type		na	
Results checked for compliance		na	
C: Additional activities to be observed by Hydrock during Audit Visit			
Item	Observed on Site		Comment
	Yes	No	
Temporary Slopes	✓		Excavation sides generally battered to safe angle where open for any significant period
Excavation and site surveying	✓		Excavation in eastern part of the site and surveying is being done.
De-watering of excavations	✓		Standing water in the north and south of site.
Control & management of water		✓	No surface water observed
Compaction Trials completed	✓		TN005
Layer thickness - check	✓		
Compaction method – check		✓	Proof rolling.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1032			SHEET NO.: 2 of 15
Benching in of fill - check		✓	VHE reminded fill to be benched into existing ground.
Stockpiling of material	✓		Stockpiling material from hotspot separately. Stockpiling excavated peat from eastern part of the site in the northwest of the site. Stockpiling excavated material from eastern part of the site in northeast of the site.
Inspection of subgrade	✓		Overdig commenced in the northeast and east. Dark brown silty sand with occasional bricks, peat, organic Made Ground, and landfill Made Ground.
Quality management of fill	✓		VHE screener is on site and screening excavated material in northeastern part of the site. Hand picking of unsuitable material is being done by VHE. Oversize material is being stockpiled in northwest of the site to be processed later.
Works Undertaken by the Contractor:			
VHE - Existence of deleterious material including concrete, metal, wood, and plastic in material in northeastern part of the site and stockpiled material in northeastern and northwestern part of the site. - Grouting of shaft no.6 in southeastern part of the site. - Screening of stockpiled landfill Made Ground in northeastern part of the site. - Backfilling eastern part of the site using processed material from northeastern stockpile. - Proof rolling of fill material using sheepsfoot roller in eastern part of the site. - Excavated peat from eastern part of the site had been stockpiled in northwest of the site. - Organic Made Ground had been excavated in northeast of the site up to formation level (Glacial Till). - Plate load testing in northeastern part of the site. - Surveying of excavations, backfills and stockpiles.			
Discussions/Recommendations & Instructions:			

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1032

SHEET NO.: 3 of 15

To/From VHE

Progress Meeting 5

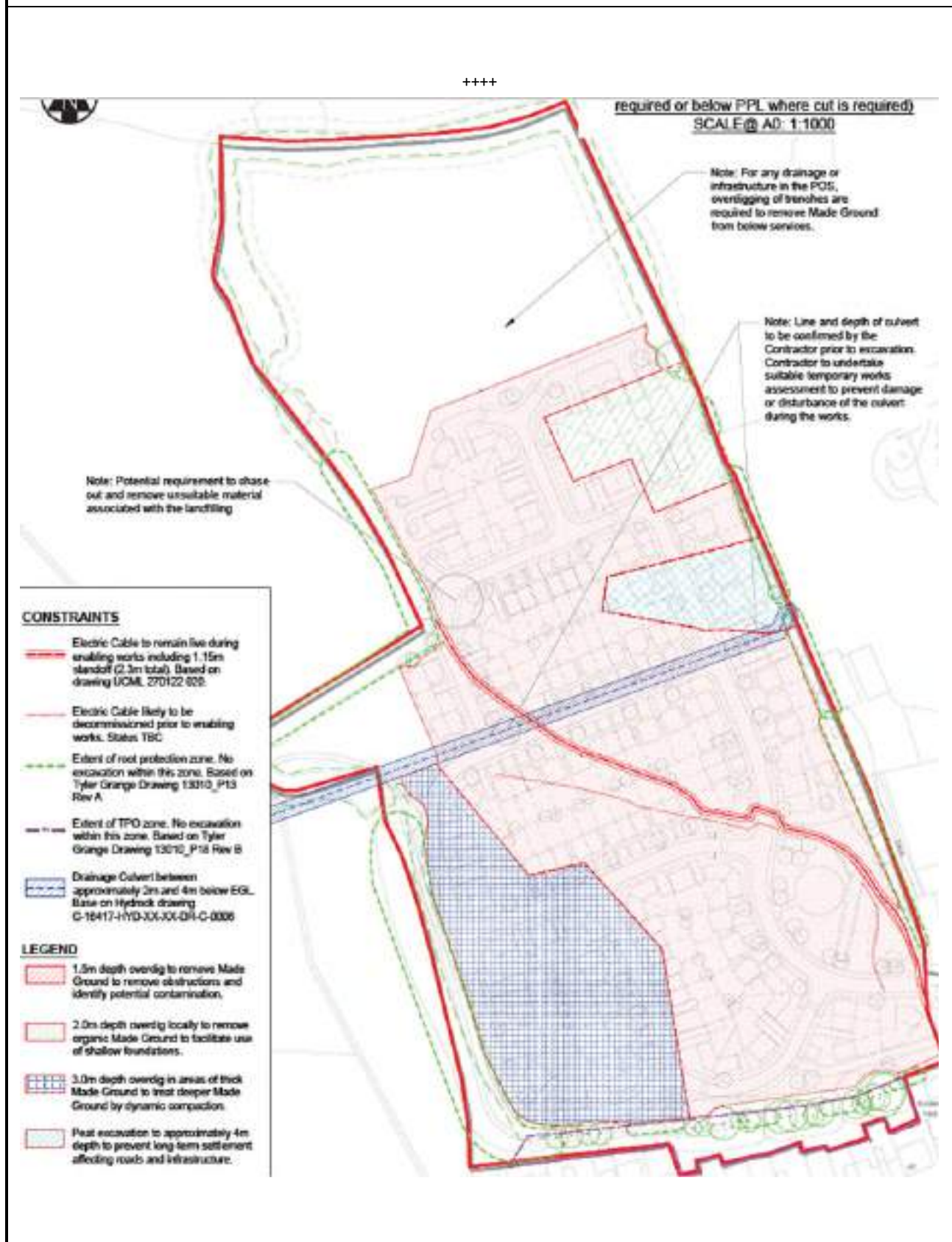
Hydrock, VHE, Harworth, Cumming Group and AWP discussed details of earthworks, ground improvement and mine shaft treatment. Formal minutes to be provided by Cumming Group.

Hydrock, VHE, AWP and Harworth undertook a walkover of the site after the meeting.

Items discussed during the meeting and walkover include:

- VHE is going to use lime stabilisation technique to use unsuitable material and reduce water content of wet soil. Sulphate testing should be done to prevent potential soil expansion. Dust management to be considered during lime modification windy weather.
- Excavation of peat in northern part of the culvert has been started and will be completed after screening and removal of stockpiled materials.
- Mine shaft treatment of shaft no.6 is ongoing. VHE stated that Van Elle is experiencing grout loss. Van Elle has been injecting a PFA : Sand : OPC mix at 8 : 2 : 1 ratio. The Coal Authority agreed to use sand buffer to increase thickness of grout. No improvement has been reported so far.
- Discussed RDC, soft spot and hot spot report updates. Reports to be submitted by VHE next week.
- Discussed stockpiles and excavations surveys and imported material details to update MMP.
- Geotron to be chased by VHE to get VWP monitoring data.
- Second abstraction well to be investigated and grouted.
- Material to be imported to compensate material shortfall to be placed in area 4.

Site Plan



SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1032

SHEET NO.: 5 of 15

Action Plan

Hydrock Comment	Contractor Proposal/Solution	Action Status
Designs		
RDC/HEIC design required	Design developed by Contractor and AWP	Final design completed following site trials. Works progressing.
Mine Treatment Design	Design to be developed as far as possible based on current information.	Updated specification provided by Van Elle 03/10.
Test Reports and Records		
Time lag of geotechnical and geochemical testing.	Contractor confirmed 15 days turnaround time.	Client team to be notified if any test data will be delayed. No lab test delay reported.
Source approval note	Contractor (AWP) agreed to provide a note on the different sources, volumes and testing ahead of the compaction trials	Report provided by VHE (TN005) 02/09. Hydrock reviewed the reports and submitted comments to VHE. Source testing for 6F2 required.
Fortnightly Testing Report (latest report to be sent monthly to NHBC)	Contractor / AWP agreed to provide a report every fortnight demonstrating compliance with the material testing specification and suitability of formations	Frequency increased to weekly. TN007 and TN008 received 22/09. Testing assessment outstanding.
Evidence of material tracking and stockpile surveys required.	VHE agreed provision of weekly records	Latest stockpile survey 29/09 and fill survey 10/08.
Base of excavation records	Tracker to be provided demonstrating inspection and testing prior to backfilling.	No tracker provided. Excavation DWG provided 23/09.
Compaction Trial Assessment	Analysis of compaction trial required to demonstrate method is suitable to meet end product criteria	Report provided by VHE (TN005) 02/09. Hydrock reviewed and commented.
Soft Spot records	Soft spot record sheets provided by RH on 12/08 are a good record of the works undertaken and will be issued to Hydrock periodically	Latest soft spot records issued for 1,2,3. Further updates soft spots 12, 13, 14 and 15 provided.
Hotspot Reports	Validation reports to be provided for each hotspot	Records provided for 1-4 but need updating. Other reports outstanding
Geotechnical Monitoring	Monitoring results to be included in regular update reports	Settlement monitoring data was sent 28/09/2022. VWP to be sent later.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1032

SHEET NO.: 6 of 15

Hydrock Comment	Contractor Proposal/Solution	Action Status
Other		
Coal Authority Permit	VHE to obtain permit for mine entry treatment	Coal Authority permission for mine shaft treatment has been achieved and grouting was started 05/10/2022.
Boundary Survey	VHE to provide boundary survey to demonstrate compliance with contract	Discrepancy noted in southwestern boundary with regards to standoff (09/09/22) Additional survey provided 28/09 but no charge to boundary.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1032

SHEET NO.: 7 of 15



Photograph 1: Overview of the site. Looking towards the south.



Photograph 2: Grouting shaft no.6 in eastern part of the site.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1032

SHEET NO.: 8 of 15



Photograph 3: Screening of stockpiled Made Ground material in northeastern part of the site.



Photograph 4: Northeastern boundary of the site. Looking towards the north.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1032

SHEET NO.: 9 of 15



Photograph 5: Excavated peat area in northeastern part of the site and surveying of excavations.



Photograph 6: Excavated peat stockpile in northwestern part of the site.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1032

SHEET NO.: 10 of 15



Photograph 7: Excavation of organic Made Ground area up to formation level in northeast of the site.



Photograph 8: Plate load testing on formation level (Glacial Till) in northeast of the site.



Photograph 9: Standing water in northern part of the site.



Photograph 10: Surveying of the site.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1032

SHEET NO.: 12 of 15



Photograph 11: Western boundary of the site. Looking towards the north.



Photograph 12: Overview of stockpiles in northern part of the site.



Photograph 93: Backfilling northeastern part of the site using processed material.



Photograph 14: Proof rolling of fill using sheepsfoot roller in northeast of the site.



Photograph 15: Unbattered excavation in northeastern part of the site.



Photograph 16: Standing water in northeastern excavation.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1032

SHEET NO.: 15 of 15



Photograph 17: Stockpile of concrete and oversize materials in northwest of the site.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1033		SHEET NO.: 1 of 18	
Project: Stopes Road, Bolton		Date: 25/10/22	
Client: Harworth		Weather: Sunny	
Contract No.: C-15220-C		Engineer: D Mahdavian	
Doc Ref: 15220-HYD-XX-XX-SVR-GE-1033		Status & Revision: S2 – P1	

Personnel Present:			
Organisation	Role		Name
VHE	Project Manager		Richard Hargreaves
VHE	Site Agent		Seb Gledhill
AWP	Geo-Environmental Engineer		Ben Kennerley
A: Review of Earthworks Testing Records to Appendix 1/24 Clause 6.5			
Item	Evidence of Record		Comment
	Yes	No	
Records reviewed on site		✓	Testing schedule not reviewed at time of visit
Sequential Test Number		na	
Date of Test		na	
Coordinated Position		na	
Test Grid Reference		na	
Layer No		na	
Source material Type		na	
Results checked for compliance		na	
C: Additional activities to be observed by Hydrock during Audit Visit			
Item	Observed on Site		Comment
	Yes	No	
Temporary Slopes	✓		Excavation sides generally battered to safe angle where open for any significant period
Excavation and site surveying	✓		Excavation in eastern part of the site and surveying is being done.
De-watering of excavations	✓		Standing water in the north and south of site. Dewatering of excavations using pump.
Control & management of water		✓	No surface water observed
Compaction Trials completed	✓		TN005
Layer thickness - check	✓		
Compaction method – check		✓	Proof rolling.
Benching in of fill - check		✓	VHE reminded fill to be benched into existing ground.
Stockpiling of material	✓		Stockpiling material from hotspot separately. Stockpiling oversize materials of screener from northeastern part of the site in the northwest of the site. Stockpiling processed material of screener from northeastern part of the site in northeast of the site.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1033			SHEET NO.: 2 of 18
Inspection of subgrade	✓		Overdig commenced in the northeast and east. Dark brown silty sand with occasional bricks, peat, organic Made Ground, and landfill Made Ground.
Quality management of fill	✓		VHE screener is on site and screening excavated material in northeastern part of the site. Hand picking of unsuitable material is being done by VHE. Oversize material is being stockpiled in northwest of the site to be processed later.
Works Undertaken by the Contractor:			
VHE • Existence of deleterious material including concrete, metal, wood, and plastic in material in northeastern part of the site and stockpiled material in northeastern and northwestern part of the site. • Grouting of shaft no.6 in southeastern part of the site. • Screening of stockpiled landfill Made Ground in northeastern part of the site. • Stockpiling oversize materials of screener in northwestern part of the site. • Stockpiling processed materials of screener in northeastern part of the site. • Dewatering of excavations using tractor mounted water pump. • Sand replacement testing in northeastern part of the site.			
Discussions/Recommendations & Instructions:			

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1033

SHEET NO.: 3 of 18

To/From VHE

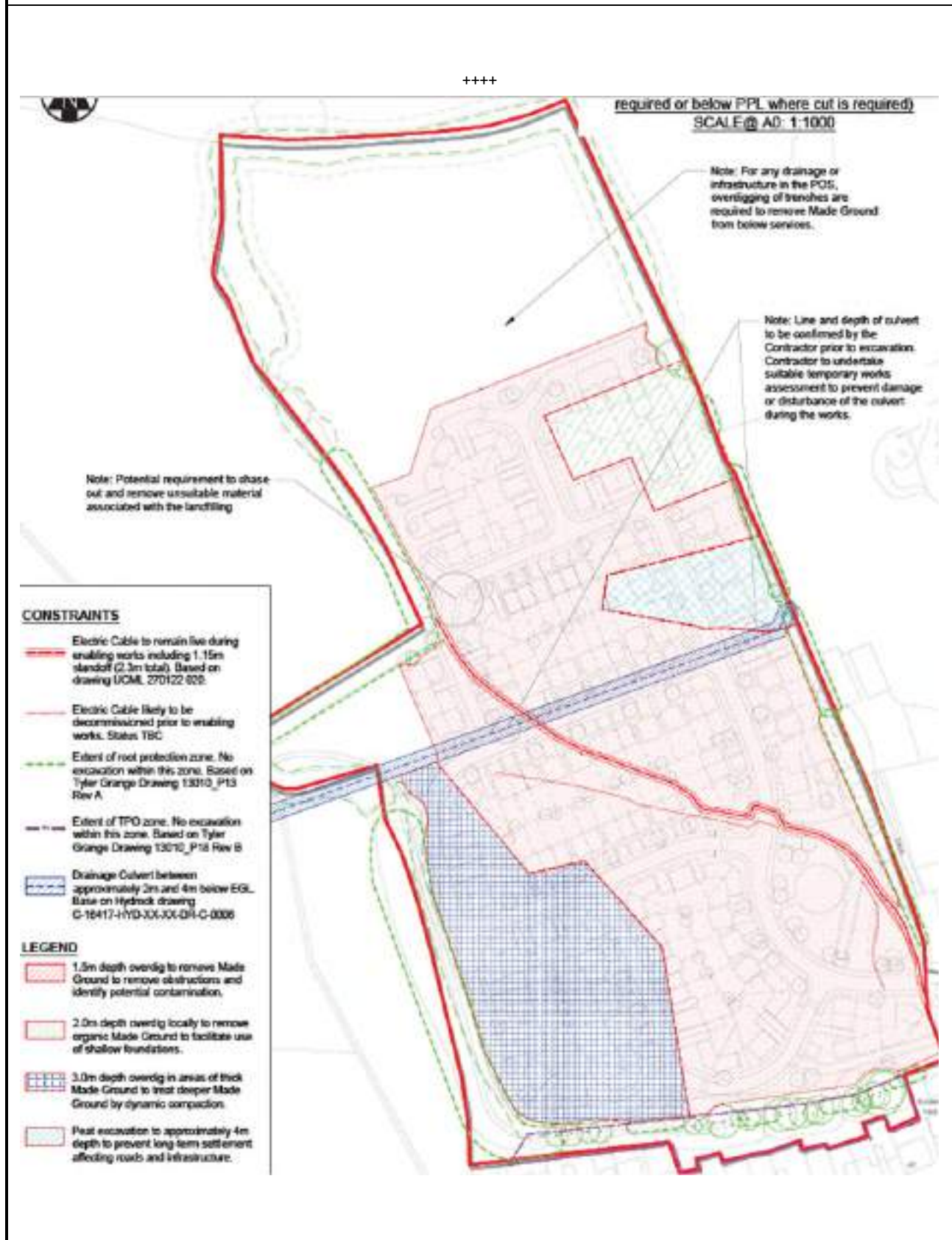
Hydrock and VHE (RH and SG) discussed details of earthworks, ground improvement and mine shaft treatment.

VHE is going to use lime stabilisation technique to use unsuitable material and reduce water content of wet soil.
VHE submitted RAMS for lime modification on 24/10/2022.

Excavation of peat in northern part of the culver has been started and will be completed after screening and removal of stockpiled materials.

Mine shaft treatment of shaft no.6 is ongoing. VHE stated that Van Elle is experiencing grout loss. Van Elle has been injecting a PFA : Sand : OPC mix at 8 : 2 : 1 ratio. The Coal Authority agreed to use sand buffer to increase thickness of grout. No improvement has been reported so far.

Site Plan



SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1033

SHEET NO.: 5 of 18

Action Plan

Hydrock Comment	Contractor Proposal/Solution	Action Status
Designs		
RDC/HEIC design required	Design developed by Contractor and AWP	Final design completed following site trials. Works progressing.
Mine Treatment Design	Design to be developed as far as possible based on current information.	Updated specification provided by Van Elle 03/10.
Test Reports and Records		
Time lag of geotechnical and geochemical testing.	Contractor confirmed 15 days turnaround time.	Client team to be notified if any test data will be delayed. No lab test delay reported.
Source approval note	Contractor (AWP) agreed to provide a note on the different sources, volumes and testing ahead of the compaction trials	Report provided by VHE (TN005) 02/09. Hydrock reviewed the reports and submitted comments to VHE. Source testing for 6F2 required.
Fortnightly Testing Report (latest report to be sent monthly to NHBC)	Contractor / AWP agreed to provide a report every fortnight demonstrating compliance with the material testing specification and suitability of formations	Frequency increased to weekly. Testing assessment outstanding. TN009 received 21/10 and reviewed by Hydrock. Comments to be addressed by AWP.
Evidence of material tracking and stockpile surveys required.	VHE agreed provision of weekly records	Latest stockpile survey 29/09 and fill survey 10/08.
Base of excavation records	Tracker to be provided demonstrating inspection and testing prior to backfilling.	No tracker provided. Excavation DWG provided 23/09.
Compaction Trial Assessment	Analysis of compaction trial required to demonstrate method is suitable to meet end product criteria	Report provided by VHE (TN005) 02/09. Hydrock reviewed and commented.
Soft Spot records	Soft spot record sheets provided by RH on 12/08 are a good record of the works undertaken and will be issued to Hydrock periodically	Latest soft spot records issued for 1,2,3. Further updates soft spots 12, 13, 14 and 15 provided.
Hotspot Reports	Validation reports to be provided for each hotspot	Records provided for 1-4 but need updating. Other reports outstanding
Geotechnical Monitoring	Monitoring results to be included in regular update reports	Settlement monitoring data was sent 28/09/2022. VWP to be sent later.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1033

SHEET NO.: 6 of 18

Hydrock Comment	Contractor Proposal/Solution	Action Status
Other		
Coal Authority Permit	VHE to obtain permit for mine entry treatment	Coal Authority permission for mine shaft treatment has been achieved and grouting was started 05/10/2022.
Boundary Survey	VHE to provide boundary survey to demonstrate compliance with contract	Discrepancy noted in southwestern boundary with regards to standoff (09/09/22) Additional survey provided 28/09 but no charge to boundary.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1033

SHEET NO.: 7 of 18



Photograph 1: Overview of the site. Looking towards the north.



Photograph 2: Grouting shaft no.6 in eastern part of the site.



Photograph 3: Dewatering of excavation using tractor mounted pump in northeastern part of the site.



Photograph 4: Processing northeastern stockpile using screener.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1033

SHEET NO.: 9 of 18



Photograph 5: Stockpiling processed material in northeastern part of the site.



Photograph 6: Stockpiling oversized materials of screener in northwestern stockpile.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1033

SHEET NO.: 10 of 18



Photograph 7: Standing water in southeastern part of the site.



Photograph 8: Backfilled area and standing water in southeastern part of the site.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1033

SHEET NO.: 11 of 18



Photograph 9: Southern boundary of the site. Looking towards the west.



Photograph 10: Overview of backfilled area in southern part of the site. Looking towards the northwest.



Photograph 11: Standing water in western part of the site.



Photograph 12: Stockpile of TPH contaminated materials in northwestern boundary of the site.



Photograph 93: Deleterious materials in stockpile of concrete and oversize materials in northwestern part of the site.



Photograph 14: Standing water in northern part of the site.



Photograph 15: Overview of stockpiles of unsuitable materials in northern part of the site.



Photograph 16: Loading oversized materials to stockpile in northwestern stockpile.



Photograph 17: Placed fill and stockpile of processed materials in eastern part of the site.



Photograph 18: Standing water in excavation in northeast of the site. Looking towards the north.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1033

SHEET NO.: 16 of 18



Photograph 19: Northeastern boundary of the site. Looking towards the south.



Photograph 20: Northeastern boundary of the site. Looking towards the north.



Photograph 21: Lime stabilization tractor in southeastern part of the site.



Photograph 22: Lime modification storage tanker in southeastern part of the site.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1033

SHEET NO.: 18 of 18



Photograph 23: Sand Replacement Testing in eastern part of the site.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1034		SHEET NO.: 1 of 15	
Project: Stopes Road, Bolton		Date: 01/11/22	
Client: Harworth		Weather: Overcast	
Contract No.: C-15220-C		Engineer: D Mahdavian	
Doc Ref: 15220-HYD-XX-XX-SVR-GE-1034		Status & Revision: S2 – P1	

Personnel Present:			
Organisation	Role		Name
VHE	Project Manager		Richard Hargreaves
A: Review of Earthworks Testing Records to Appendix 1/24 Clause 6.5			
Item	Evidence of Record		Comment
	Yes	No	
Records reviewed on site		✓	Testing schedule not reviewed at time of visit
Sequential Test Number		na	
Date of Test		na	
Coordinated Position		na	
Test Grid Reference		na	
Layer No		na	
Source material Type		na	
Results checked for compliance		na	
C: Additional activities to be observed by Hydrock during Audit Visit			
Item	Observed on Site		Comment
	Yes	No	
Temporary Slopes	✓		Excavation sides generally battered to safe angle where open for any significant period
Excavation and site surveying	✓		Excavation in eastern part of the site and surveying is being done.
De-watering of excavations	✓		Standing water in the north and south of site. Dewatering of excavations using pump.
Control & management of water		✓	No surface water observed
Compaction Trials completed	✓		TN005
Layer thickness - check	✓		
Compaction method – check		✓	Proof rolling.
Benching in of fill - check		✓	VHE reminded fill to be benched into existing ground.
Stockpiling of material	✓		Stockpiling material from hotspot separately. Stockpiling oversize materials from northeastern part of the site in the northwest of the site. Stockpiling processed materials from northeastern part of the site in northeast of the site.
Inspection of subgrade	✓		Overdig commenced in the northeast and east. Dark brown silty sand with occasional bricks, peat.

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1034			SHEET NO.: 2 of 15
			organic Made Ground, and landfill Made Ground.
Quality management of fill	✓		VHE screener is off hire. Hand picking of unsuitable material is being done by VHE. Oversize material is being stockpiled in northwest of the site to be processed later.
Works Undertaken by the Contractor:			
VHE • Existence of deleterious material including concrete, metal, wood, and plastic in material in northeastern part of the site and stockpiled material in northeastern and northwestern part of the site. • Grouting of shaft no.6 in southeastern part of the site. • Dewatering of excavations using tractor mounted water pump.			
Discussions/Recommendations & Instructions:			

SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1034

SHEET NO.: 3 of 15

To/From VHE

Hydrock and VHE (RH) discussed details of earthworks, ground improvement and mine shaft treatment.

VHE stated that geotechnical testing results has been received from Murray Rix. AWP is assessing the testing results.

Lime modification was discussed. VHE is not using lime stabilisation technique due to poor testing results.

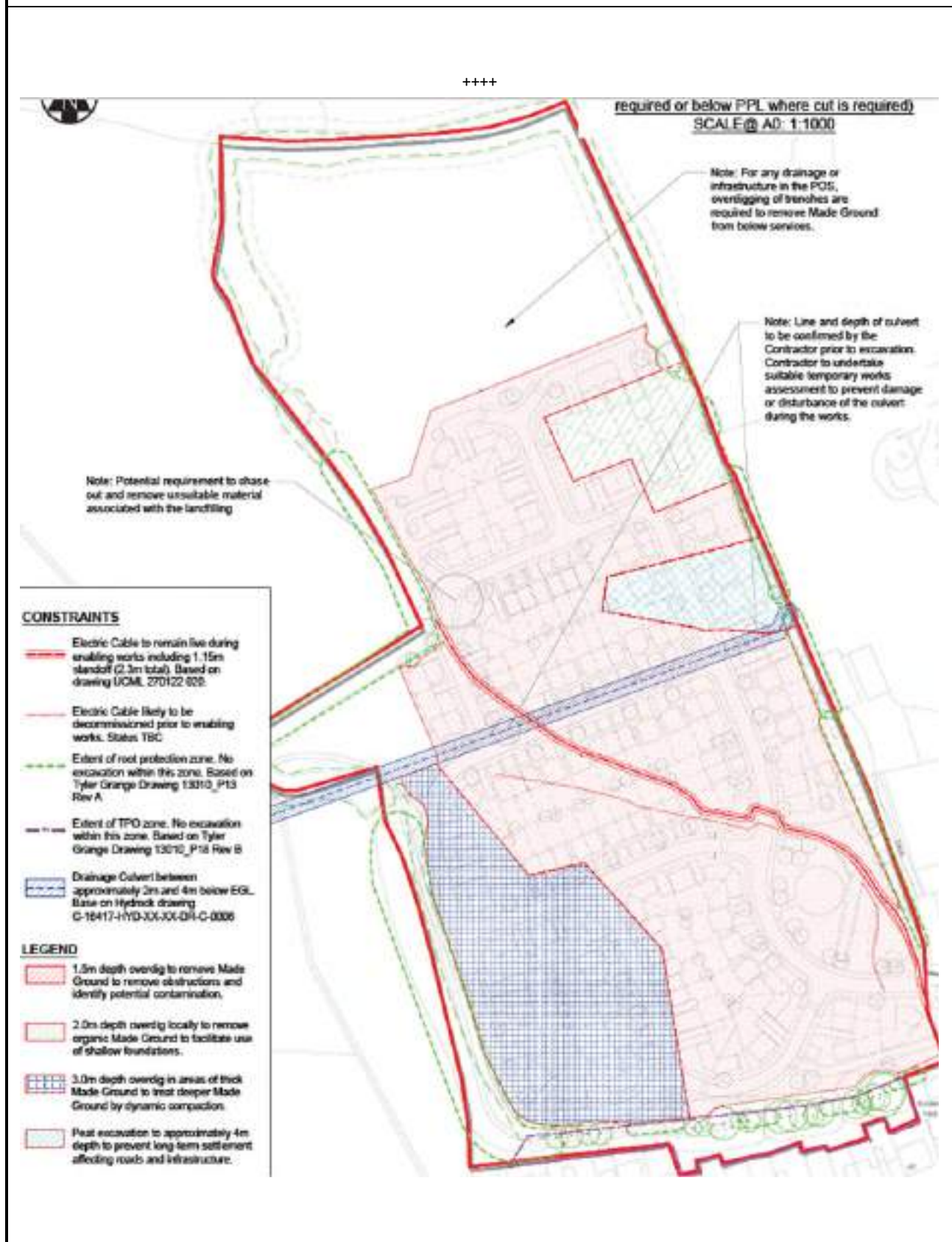
Geotechnical results of trial pit F4 (recorded yellow clay within POS area), do not meet the requirements of the Earthworks Specification both in terms of CBR value (2.5%) and triaxial shear strength (50KPa).

Excavation of peat in northern part of the culvert is ongoing and will be completed after removal of stockpiled materials.

Mine shaft treatment of shaft no.6 is ongoing. The shaft has been grouted up to 20 meters. VHE stated that Van Elle is still experiencing some grout loss.

Earthworks had been halted due to wet weather at the time of visit.

Site Plan



SITE VISIT REPORT 15220-HYD-XX-XX-SVR-GE-1034**SHEET NO.: 5 of 15****Action Plan**

Hydrock Comment	Contractor Proposal/Solution	Action Status
Designs		
RDC/HEIC design required	Design developed by Contractor and AWP	Final design completed following site trials. Works progressing.
Mine Treatment Design	Design to be developed as far as possible based on current information.	Updated specification provided by Van Elle 03/10.
Test Reports and Records		
Time lag of geotechnical and geochemical testing.	Contractor confirmed 15 days turnaround time.	Client team to be notified if any test data will be delayed. No lab test delay reported.
Source approval note	Contractor (AWP) agreed to provide a note on the different sources, volumes and testing ahead of the compaction trials	Report provided by VHE (TN005) 02/09. Hydrock reviewed the reports and submitted comments to VHE. Source testing for 6F2 required.
Fortnightly Testing Report (latest report to be sent monthly to NHBC)	Contractor / AWP agreed to provide a report every fortnight demonstrating compliance with the material testing specification and suitability of formations	Frequency increased to weekly. Testing assessment outstanding. TN009 received 21/10 and reviewed by Hydrock. Comments to be addressed by AWP.
Evidence of material tracking and stockpile surveys required.	VHE agreed provision of weekly records	Latest stockpile survey 29/09 and fill survey 10/08.
Base of excavation records	Tracker to be provided demonstrating inspection and testing prior to backfilling.	No tracker provided. Excavation DWG provided 23/09.
Compaction Trial Assessment	Analysis of compaction trial required to demonstrate method is suitable to meet end product criteria	Report provided by VHE (TN005) 02/09. Hydrock reviewed and commented.
Soft Spot records	Soft spot record sheets provided by RH on 12/08 are a good record of the works undertaken and will be issued to Hydrock periodically	Latest soft spot records issued for 1,2,3. Further updates soft spots 12, 13, 14 and 15 provided.
Hotspot Reports	Validation reports to be provided for each hotspot	Records provided for 1-4 but need updating. Other reports outstanding
Geotechnical Monitoring	Monitoring results to be included in regular update reports	Settlement monitoring data was sent 28/09/2022. VWP to be sent later.

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Hydrock Comment	Contractor Proposal/Solution	Action Status
Other		
Coal Authority Permit	VHE to obtain permit for mine entry treatment	Coal Authority permission for mine shaft treatment has been achieved and grouting was started 05/10/2022.
Boundary Survey	VHE to provide boundary survey to demonstrate compliance with contract	Discrepancy noted in southwestern boundary with regards to standoff (09/09/22) Additional survey provided 28/09 but no charge to boundary.

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Photograph 1: Overview of eastern part of the site. Looking towards the north.



Photograph 2: Grouting shaft no.6 in eastern part of the site.

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Photograph 3: Eastern boundary of the site. Looking towards the north



Photograph 4: Standing water in northeastern part of the site.

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Photograph 5: Stockpile of processed material in eastern part of the site.



Photograph 6: Standing water in northern part of the site.

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Photograph 7: Northeastern boundary of the site. Looking towards the south.



Photograph 8: Overview of northern stockpiles.

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Photograph 9: Stockpile of concrete and oversized materials in northwestern part of the site.



Photograph 10: Stockpile of TPH contaminated materials in western boundary of the site.

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Photograph 11: Overview of the site. Looking towards the south.



Photograph 12: Standing water and stockpile of unsuitable materials in southeastern part of the site.