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Taylor Wimpey (Manchester)
1 Lumsdale Road
Stretford
Manchester
M32 0UT

First Floor
15 Oxford Court
Manchester
M2 3WQ

Tel: 0161 914 9170
Email: contact@igeconsulting.co.uk
Web: www.igeconsulting.co.uk

COAL MINING STATEMENT – LAND OFF STOPEs ROAD, LITTLE LEVER (PLOTS 01 – 72 ONLY)

IGE Consulting have been instructed to confirm the status of the coal mining remedial works at the above site relating to **plots 01 – 72 ONLY**. IGE Consulting have previously undertaken work at the above-named site as follows which provides the detailed specification and verification of the complete coal mining remedial works to date:

- *IGE Consulting Ltd (IGE) Treatment Validation Report (Ref.3524-05, dated May 2025)*
- *IGE Consulting Ltd (IGE) Coal Mining Remedial Treatment Design (Ref. 3524-01A, dated Jan 2025)*
- *Hydrock Consultants Ltd (Hydrock) Performance Specification for Stabilisation Verification Report for Earthworks and Ground Improvement (Ref. 15220-HYD-XXXX- RP-GE-0007_P02, dated June 2022).*



Drill and grout works to stabilise the site were undertaken from the 6th January to the 4th April 2025. In total, 1,122 No. grout holes were undertaken across the site. The drill and grout holes consisted of 993 No. primary holes undertaken on the proposed 6m grid and a further 129 No. secondary (or centre) holes which were undertaken due to grout takes in the corresponding primary holes being greater than or close to 5 tonnes (5T).



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Over the duration of the works, a total of 600 tonnes of Pulverised Fuel Ash (PFA) and 60 tonnes of Ordinary Portland Cement (OPC) was used.



Rotary drilling rigs undertaking drilling in the northern site section in February 2025.

The drill and grout works were undertaken by 2 No. Klemm 802-2 rotary drilling rigs utilising water flush as a drilling medium. Temporary 101mm diameter steel casing was installed into the bedrock to allow grout to be injected at target depths and prevent the overlying Made Ground and Glacial Till from collapsing into the holes.

All holes were injected with a 10:1 (PFA:OPC) grout mix which was connected via a screwed T connection and pressure meter attached to the temporary casing. Boreholes were pressure grouted to 0.2bar (3psi) per metre of hole. Daily drill and grout records were produced. Areas of broken ground and loss of flush were encountered during the drilling works which were attributed to historical workings. These areas would typically require secondary grout holes due to grout takes in excess of 5T. The central site section typically required a greater proportion of secondary holes which suggests that there may have been more shallow workings in this area. Low grout takes were recorded in the northern and southwestern site areas. An extract of the completed grouting grid drawing with areas requiring secondary drill and grout holes highlighted, is shown below.



Extract of the completed drill and grout grid with areas requiring secondary holes outlined and highlighted in orange.

Conclusions

The drill and grouting works are considered sufficient to stabilise the site from legacy coal mining activities. No further works remedial works in respect to underground coal mine workings on the site is required. Further works remedial measures of coal mining works are required in areas outside of the plot 01 – 72 area. These works will be undertaken under permit and subsequently submitted to Bolton Council for approval.

Yours sincerely

Andrew Edwards

Director