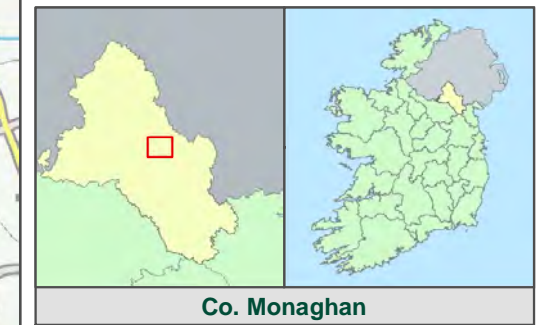


Appendix I

GSI Information Mapping

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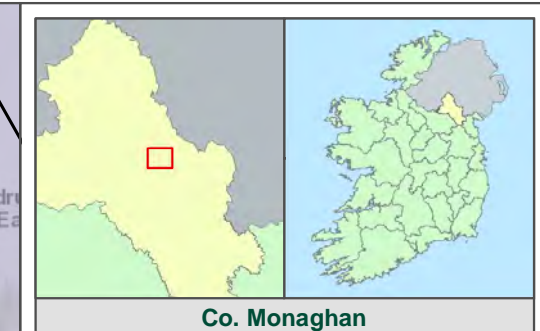
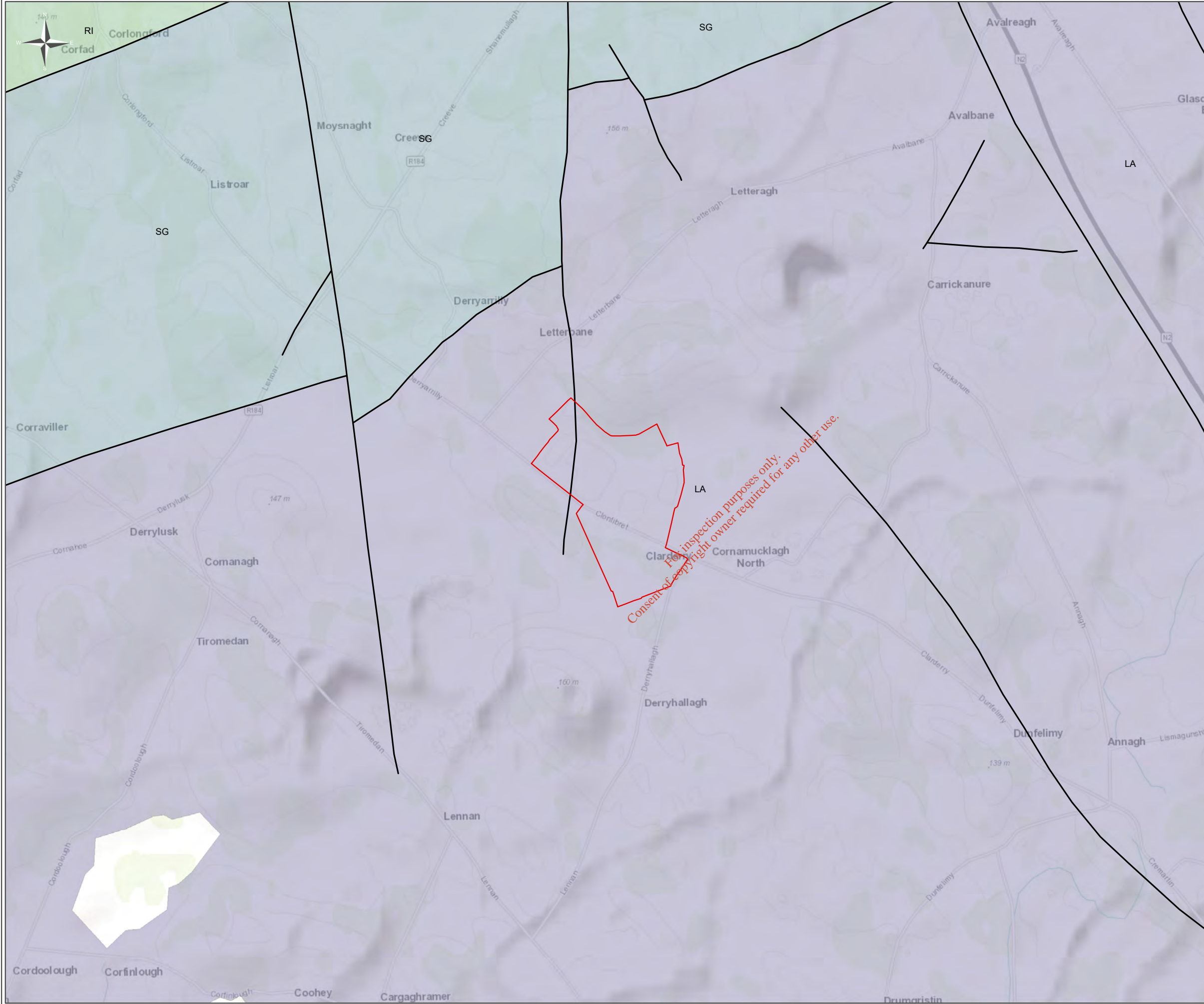


Legend
 Perimeter Boundary

Figure Title	Site Location
Figure No.	2.1
Project	Tier I Scotch Corner Historic Landfill
Client	Monaghan County Council
Scale	1:20,000
Page Size	A3
Revision	A
Date	28/04/2018

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Co. Monaghan

Legend

- Perimeter Boundary
- Dip of Bedding in Degrees
- Stratigraphical Linework
- Structural Linework

Bedrock Geology


- LA: Lough Avaghon Formation
- RI: Red Island Formation
- SG: Slieve Glah Formation

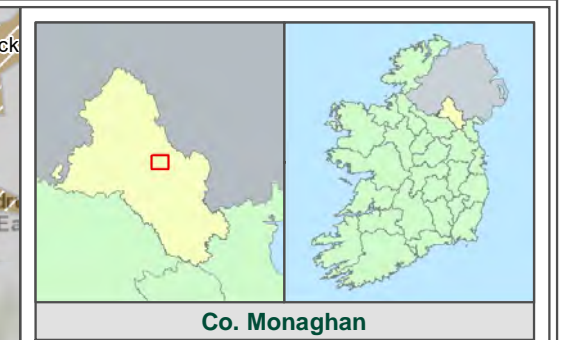
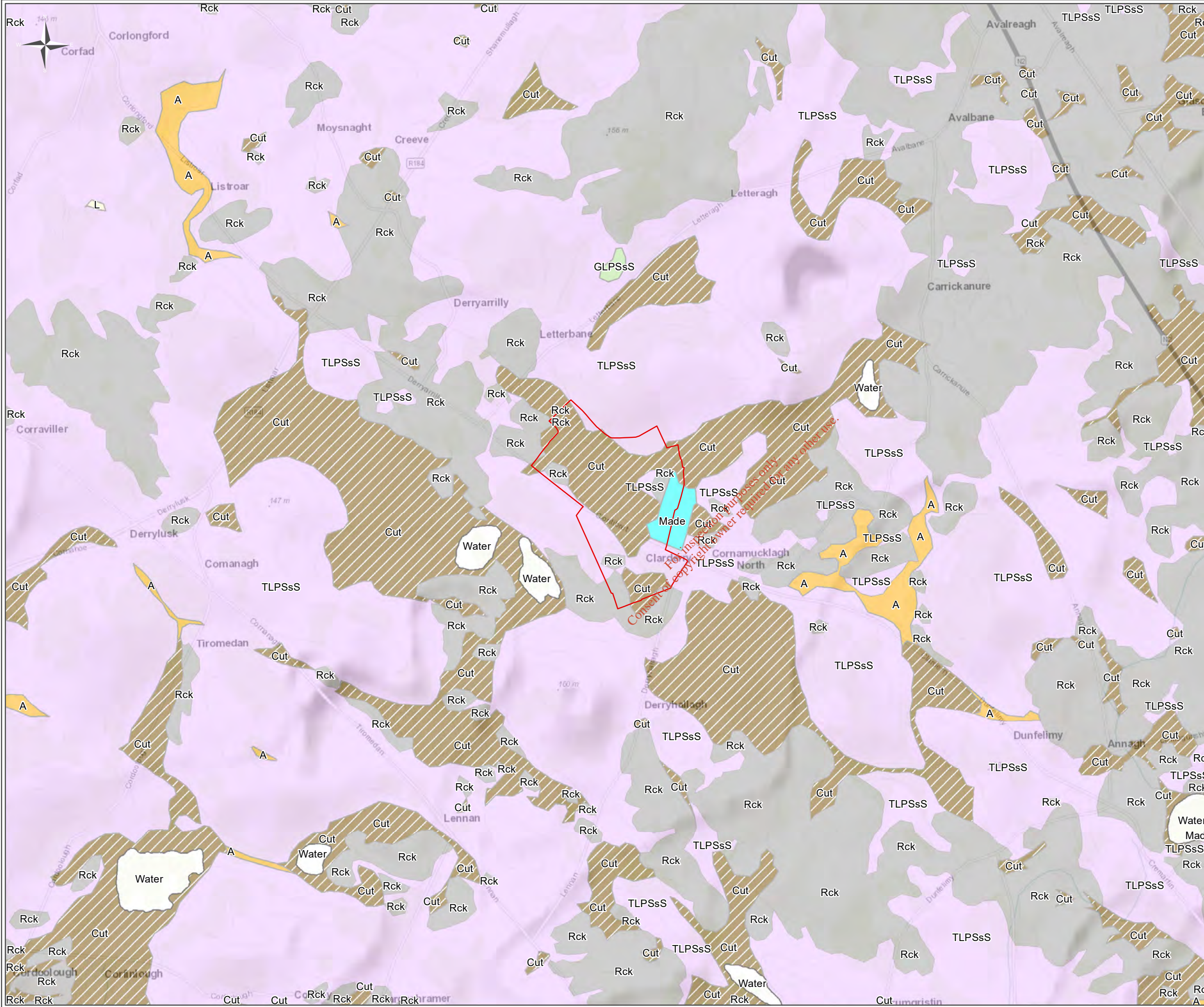
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Figure Title	Bedrock Geology		
Figure No.	2.2		
Project	Tier I Scotch Corner Historic Landfill		
Client	Monaghan County Council		
Scale	1:15,000	Page Size	A3
Revision	A	Date	28/04/2018

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Legend

- Perimeter Boundary
- Subsoils Data**
 - A, alluvium
 - Cut, cutover peat
 - GLPSSs, sandstone & shale sands and gravels
 - L, lake sediment
 - Made, made ground
 - Rck, bedrock at surface
 - TLPSSs, sanstone and shales till - Lower Paleozoic
 - Water, water

Figure Title
Quaternary Geology

Figure No. 2.3

Project
Tier I Scotch Corner Historic Landfill

Client
Monaghan County Council

Scale 1:15,000 **Page Size** A3

Revision A **Date** 28/04/2018

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Appendix I I

Site Walkover Checklist

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Walkover Survey Checklist – 25th April 2018

Information	Checked	Comment (include distances from site boundary)
1. What is the current land use?	√	The site is vegetated with trees and grassland and can be classified currently under agricultural use.
2. What are the neighbouring land uses?	√	Agricultural fields surround the site to the west, south and east with local road R184 bounding the site to the north.
3. What is the size of the site?	√	The site occupies approximately 4.5 hectares.
4. What is the topography?	√	The topography can be split into two profiles. The eastern half is flat and the western half is built up with mounds of stockpiled material and is considered undulating.
5. Are there potential receptors (if yes, give details)?	√	Surface water drainage channels and stream to the north within licenced landfill. The groundwater aquifer is an additional receptor.
Houses	√	There are no houses within 1km of the site boundary.
Surface water features (if yes, distance and direction of flow)	√	A tributary of the River Fane is located approximately 250m north and flows east along the northern boundary of the licenced facility.
Any wetland or protected areas	√	None.
Public water supplies	√	None.
Private wells	√	One private well (W7) located north-west of the licenced facility boundary.
Services	√	Overhead wires along the local road boundary to the north of the historic site.
Other buildings	√	MCC office buildings and material recovery facility (MRF) located within 100m of the historic site boundary.
Other	√	N/A

Information	Checked	Comment (include distances from site boundary)
6. Are there any potential sources of contamination (if yes, give details)?	√	Leachate being redirected from Old G1 sump and spread over surface of eastern portion of historic landfill via. manifold system.
Surface waste (if yes, what type?)	√	No
Surface ponding of leachate	√	No
Leachate seepage	√	No
Landfill gas odours	√	No
7. Are there any outfalls to surface water? (If yes, are there discharges and what is the nature of discharge?)	√	Yes. To the west of the historic site, MCC have designed a surface water recirculating system which directs surface water to centre the site
8. Are there any signs of impact on the environment? (If yes, take photographic evidence)	√	No
Vegetation die off, bare ground	√	No
Leachate seepages	√	No
Odours	√	No
Litter	√	No
Gas bubbling through water	√	No
Signs of settlement	√	No
Subsidence, water logged areas	√	No subsidence. Extensive area of rushes in flat lying eastern portion of the site indicating poor drainage.
Drainage or hydraulic issues	√	No

Downstream water quality appears poorer than upstream water quality	√	Anecdotal evidence of ongoing monitoring indicates landfill impacting on downstream water quality.
9. Are there any indications of remedial measures? (Provide details)	√	Yes. Recirculated surface water from G5 sump to percolation area within the centre of site. The objective of these measures is to reduce the contaminant concentration (particularly ammonia) via infiltration through subsoil before discharging to surface water.
Capping	√	No.
Landfill gas collection	√	No.
Leachate collection	√	Yes. Any leachate collected at the site is pumped from the Old G1 sump and directed to a manifold system consisting of 4 no. distribution valves and spread across the surface in the eastern portion of the historic site.
10. Describe fences and security features (if any)	√	Low security mesh fencing surrounds the perimeter of the historic landfill.
Any other relevant information?	√	Since September 2017, MCC have altered the leachate collection from the historic site which previously was directed to the leachate lagoon within the licenced facility.

Appendix III

Photos from Recent Site Walkovers

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