



APPENDIX 8-1

HES BOREHOLE LOG



HYDRO-ENVIRONMENTAL SERVICES

Monitoring Well Log

Well No.: MW21-01

Project No: P1574-0

Date started: 15/12/2023

Easting: 538162.5

Site: Laurclavagh WF, Co. Galway

Date finished: 15/12/2023

Northing: 743701.7

Client: MKO

Elevation: 42.86mOD

SUBSURFACE PROFILE

Depth	Symbol	Description	Depth/Elev.	Water Level	Comments	Well Completion Details
0		Ground Surface	42.9			
0.0		Firm brown TOPSOIL	0.0			
		Medium dense very silty SAND & GRAVEL w/ LS cobbles & boulders				
10		Medium strong weathered grey LIMESTONE w/ weathered clay joints	30.9		Drill cuttings damp at 9mbgl, keeping dust down	
12.0		Strong to very strong LIMESTONE	12.0			
20						
30						
40						
41					Minor water strike at 41mbgl	
50						
55.0			-12.1			
55.0			55.0			
60						

Remarks:

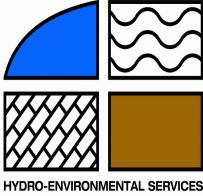
Drilling Contractor: Petersen Drilling Services Ltd.

Drilling type:

Scale as shown

Logged by: AK

Sheet: 1 of 1



Monitoring Well Log

Well No.: MW21-02

Project No: P1574-0

Date started: 13/12/2023

Easting: 535264.3

Site: Laurclavagh WF, Co. Galway

Date finished: 13/12/2023

Northing: 743746.5

Client: MKO

Elevation: 32.7mOD

SUBSURFACE PROFILE

Depth	Symbol	Description	Depth/Elev.	Water Level	Comments	Well Completion Details
0		Ground Surface	32.7			
		Firm brown TOPSOIL	0.0			
		Firm to stiff brown silty gravelly clay				
		Firm to stiff light brown gravelly clay. Very frequent limestone fragments	29.9 2.8		Drill cuttings damp at 7mbgl, keeping dust down	
			19.5			
		Firm to stiff greyish brown sandy gravelly clay, highly weathered limestone	13.2			
		Very weak highly weathered grey limestone	16.2 16.5			
		Medium strong dark grey limestone with some fractures	13.9 18.8	19.5	Major water strike fast flowing at 19.5m	
			8.7 24.0			

Remarks:

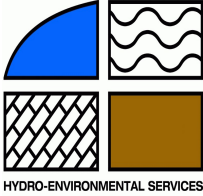
Drilling Contractor: Petersen Drilling Services Ltd.

Drilling type:

Scale as shown

Logged by: AK

Sheet: 1 of 1



HYDRO-ENVIRONMENTAL SERVICES

Monitoring Well Log

Well No.: MW21-03

Project No: P1574-0

Date started: 14/12/2023

Easting: 535587.4

Site: Laurclavagh WF, Co. Galway

Date finished: 14/12/2023

Northing: 743205.6

Client: MKO

Elevation: 35.558mOD

SUBSURFACE PROFILE

Depth	Symbol	Description	Depth/Elev.	Water Level	Comments	Well Completion Details
0		Ground Surface	35.6			
		Hardcore fill brownish grey	0.0			
		sandy gravelly made ground	33.1			
		Firm brown topsoil	2.5			
		Dense greyish brown very silty sand and gravel				
10		Very strong grey limestone, few fractures				
20						
30						
40					Minor water strike at 34mbgl	
50			-14.0 49.6			

Remarks:

Drilling Contractor: Petersen Drilling Services Ltd.

Drilling type:

Scale as shown

Logged by: AK

Sheet: 1 of 1