

GEOTECHNICAL FIELD MEMO

CLIENT: Adam Withers	DATE: July 5, 2022
ATTN: Adam Withers	FILE NO. 22-312
CC: Derek Harding (D&H Excavating)	MEMO NO. 2
PROJECT: Single Family Dwelling	
LOCATION: Lot 31 Goldstream Heights, Malahat	

PURPOSE: To review fully exposed subgrade and give recommendations for compaction.

OBSERVATIONS:

Coast Geotechnical visited the site June 2, 2022. The rockfill had been removed to expose the native bedrock. Large boulders, rockfill, were being stockpiled for upcoming engineered fill placement. Rockfill was noted to be well graded and generally free of fines and deleterious materials therefore it is suitable for use as engineered fill. and tire for cleaning are on site. Large plate tamper is on site.

Coast Geotechnical visited the site June 3, June 6 and June 9, 2022, to review compaction of engineered fill. Engineered fill was placed in lifts 0.3 m thickness and compaction using a large 1000-lb vibrating plate tamper. Additional progress photos of compaction were provided by Chris of D&H Excavating to confirm intermediate steps.

Coast Geotechnical visited the site June 15, 2022. The rockfill had been placed and well-compacted and the lot had been generally brought up to near the desired grade for building foundations. Based on preliminary review of the proposed foundation location, the engineered fill pad has been constructed with the appropriate 1H:1V splay.

We observed 0.3 m of loose materials (soil & rock) above the crest of rock cut. Owner was advised to clean and scale loose material 1 m back from the crest of rock cut to prepare the site for safe worker entry.

CONCLUSIONS:

Based on our review, the engineered fill pad has been constructed in general accordance with project recommendations.

We understand the owner intends to raise the grade with approximately 150 mm (6 in) road base and compact with a 1000 lb plate tamper. Footings must be setback a minimum of 1 m from the southwest corner and 0.6 m northwest corner of the engineered pad. Coast Geotechnical to be contacted to review completed fill pad once the footing locations are laid out onsite.

Prepared by:

Reviewed by:



Alyse Munro Hindley
Geotechnical EIT

Ben Schmidt, P. Eng.
Geotechnical Engineer

Photo 1:

June 3 –
Compaction of
lowest level of
excavation.



Photo 2:

June 3 –
Overview of site



Photo 3:

Final compaction
by contractor.



Photo 4:

Final cut of
rockface. Owner
advised to clean
and scale loose
material from
top.

