

Environmental Health Referral Response - acid sulfate soils

Application Number:	DA2021/1805
Date:	18/10/2021
Responsible Officer	Adam Mitchell
Land to be developed (Address):	Lot A DP 379308 , 4 Alexander Street COLLAROY NSW 2097

Reasons for referral

This application seeks consent for one or more of the following:

- All development in class 1 land
- Any works below ground surface or will lower water table in area class 2 land
- Any works beyond 1 metre or lower water table by 1 metre in class 3 land
- Any works beyond 2 metres or lower water table by 2 metres in class 4 land
- Works on land below 10 metres AHD and within 500m of class 1, 2, 3 or 4 land which are likely to lower water table below 1 metre

And as such, Council's Environmental Investigations officers are required to consider the likely impacts.

Officer comments

General Comments

Detailed site investigation describes a low risk of acid sulfate soils (ASS) being present at the site. Given the "Class" (4) of the site, and the extent of the excavations, the results of the soil samples demonstrate:

- a (close to) neutral pH in field, unlikely presence of ASS;
- $\text{pH}_{\text{FOX}} > 4.4$, unlikely PASS (potential Acid Sulfate Soils); yet
- the difference between pH_{F} and pH_{FOX} , being > 1 , may indicate the presence of PASS (Potential Acid Sulfate Soils).

Given that sand is the predominant soil beyond 0.5 BGL, we have only minor concern of PASS presence and support the development proposal with a condition.

The proposal is therefore supported.

Note: Should you have any concerns with the referral comments above, please discuss these with the Responsible Officer.

Recommended Environmental Investigations Conditions:

CONDITIONS TO BE COMPLIED WITH DURING DEMOLITION AND BUILDING WORK

Requirement to notify about new Acid Sulfate Soils evidence

Any new information revealed during excavation works that has the potential to alter previous conclusions about Acid Sulfate Soils shall be immediately notified to the Council and the Principal Certifying Authority prior to further commencement.

Reason: protection of the environment.