



**SWF CONSULTING**  
CONSULTING CIVIL & STRUCTURAL ENGINEERS

---

**ALDI STORE  
POOL ROAD  
NEWTOWN**

---

**Summary of  
Geotechnical Report**

---

**Date August 2019**

---

**9045-SWF-XX-XX-RP-S-0101**

---

**S2: Suitable For Information**

---

**Version: P1**

---

**By: Phil Sarbutts**

---



## REVISION HISTORY

VERSION	DATE	SUITABILITY	REVISIONS
P1	23/08/19	S2: Suitable for Information	Issued For Information

This document has been prepared for the titled project (or named part thereof) and should not be relied upon or used for any other project without an independent check being carried out as to its suitability and prior written authorisation being obtained from SWF Consulting. SWF Consulting accepts no responsibility or liability for the consequences of the use of this document, wholly or in part, for any other purpose than that for which it was commissioned. Any persons so using or relying upon this document for such other purpose do so at their own risk.

This document has been prepared for the sole use of the Client and shall not be relied upon or transferred to any other party without express written authorisation of SWF consulting. It may contain material subject to copyright or subject to licence; unauthorised copying of this report will be in breach of copyright/licence.

**Report Provider**            Brownfield Solutions  
**Report Number**            DI/C4242/8664  
**Report Date**                August 2019

**1. Foundation Type Recommendation**

Conventional pad and strip foundations are expected in the sand measures approximately 0.5m below existing ground level.

**2. Slab Recommendation**

Ground bearing slab is expected to be used

**3. Ground Improvement Recommendation**

Works are required to remove decommissioned petrol tanks and the oil separator that will be redundant with the new scheme. 2 number 8000 gallon tanks encased in 230mm concrete according to historic information.

**4. Pavement Design Recommendation**

No special measures are expected

**5. Contamination and Recommended Remedial Work**

Underground tanks are likely to lead to some hydrocarbon contamination that will need localised removal. Also suggestion of other areas being subject to hydrocarbon contamination due to poor site practice for the dealership.

Anecdotal evidence of backfilled inspection pits within the building footprint which may mean some poor areas of backfill that may need removal

**6. Asbestos**

Not found in any soil samples taken.

**7. Waste Disposal: Waste Acceptance Criteria (WAC)**

Most material expected to be inert but anything with hydrocarbon contamination will be hazardous waste.

**8. Ground Gas**

Initial testing shows a need for a gas resistant membrane which must be independently verified. Allow for Visqueen 'Gas Barrier' membrane.

**9. Mining**

Site not affected by mining activities

#### **10. Soakaways**

Whilst the ground may support soakaway drainage there is a suggestion in the report that the hydrocarbon contamination may have a detrimental effect of the underlying aquifer.

It appears the site currently discharges to sewer and therefore we will look to replicate this scenario with a 50% reduction in off-site flows from the present condition. Also allow 30% climate change.

Therefore allow 300m<sup>3</sup> of attenuation based on limiting flows from the site to 30l/s.

#### **11. Further work required**

- Completion of gas monitoring
- Speak with local authority regarding soakaway use