



**ADAS**  
FOOD, FARMING, LAND & LEISURE

**MEMORANDUM**

TO Mark Watson  
FROM Nigel Done  
DATE June 30, 1995  
SUBJECT ALC Bake Farm, Trerulefoot

The hand coloured map attached shows most of the land affected by the proposed fishing lakes to be Grade 4. These soils are gleyed within 40<sup>cm</sup> and have heavy clay loam topsoil, which with 236 FC Days impose a severe wetness limitation. The land marked as 3b is better drained (gleying found at the pit at 40 cm depth). The topsoils are borderline mcl/hcl which under Wetness Class II makes no difference to the final grade, however some of the borings indicated the higher land to be freedraining which if assessed as Wetness Class I could be Subgrade 3a with mcl topsoils or Subgrade 3b with hcl topsoils. PSD results from nearby sites at Broadmoor and Caradon Coastal Rural Areas Local Plan indicate the topsoil to be heavy clay loam and hence these areas are mapped as Subgrade 3b.

SITE NAME Bake Farm		PROFILE NO. Pit 1	SLOPE AND ASPECT 0° W	LAND USE Oats	Av Rainfall: 1215 mm ATO: 1532 day °C	PARENT MATERIAL Devonian slates and shale	
JOB NO. 45/95		DATE 29/6/95	GRID REFERENCE ASP 24	DESCRIBED BY N A Done	FC Days: 236 Climatic Grade: 2 Exposure Grade: 1	SOIL SAMPLE REFERENCES NAD 248	

Horizon No.	Lowest Av. Depth (cm)	Texture	Matrix (Ped Face) Colours	Stoniness: Size, Type, and Field Method	Mottling Abundance, Contrast, Size and Colour	Mangan Concs	Structure: Ped Development Size and Shape	Consistence	Structural Condition	Pores (Fissures)	Roots: Abundance and Size	Calcium Carbonate Content	Horizon Boundary: Distinctness and form
1	30	HCL	10YR44	2% > ZR 22% < ZR 24% ZR S+D	None	None	WDCSAB	Friable	Mod	Good	Many fine		Gradual/ Smooth
2	45	HCL	10YR54	30% ZR S+D	Few MDOM 10YR58	None	WDCSAB	Firm	Mod	Good	Common fine		Clear/ Smooth
3	45 +	HCL	10YR54	40% ZR v est	Common MDOM 10YR58	None	WDCSAB (v stoney)	Friable	Mod	Godd Fissures	Common fine & v fine		

Profile Gleyed From: 45

Depth to Slowly Permeable Horizon: -

Wetness Class: II

Wetness Grade: 3b

Available Water

Wheat:

Potatoes:

Moisture Deficit

Wheat: 77 mm

Potatoes: 63 mm

Moisture Balance

Wheat:

Potatoes:

Droughtiness Grade:

Final ALC Grade: 3b

Main Limiting Factor(s): Workability

Remarks:

Pit impenetrable at 50cm large slate across bottom of pit.  
Topsoil 26% Clay MCL/HCL.