

23 December 2019

Permitting Receipt Centre
Natural Resources Wales
Ty Cambria
29 Newport Road
Cardiff
CF24 0EY

Dear Sir/Madam,

VIVOD ESTATE

**APPLICATION FOR A TECHNICAL VARIATION OF EXISTING SURFACE WATER ABSTRACTION LICENCE
(WA/067/0005/002)**

NRW Application No. PAN-007903 & 7904 (Vivod Estate HEP variation)

An application has been put forward for a technical variation application on behalf of Vivod Estate for their HEP abstraction licence (WA/067/005/002).

The application was considered invalid on the basis that there was no accompanying photo survey. A letter from NRW stating this was received on 26th November 2019 and requesting a photo survey within 28 days of the letter in order for the application to be accepted.

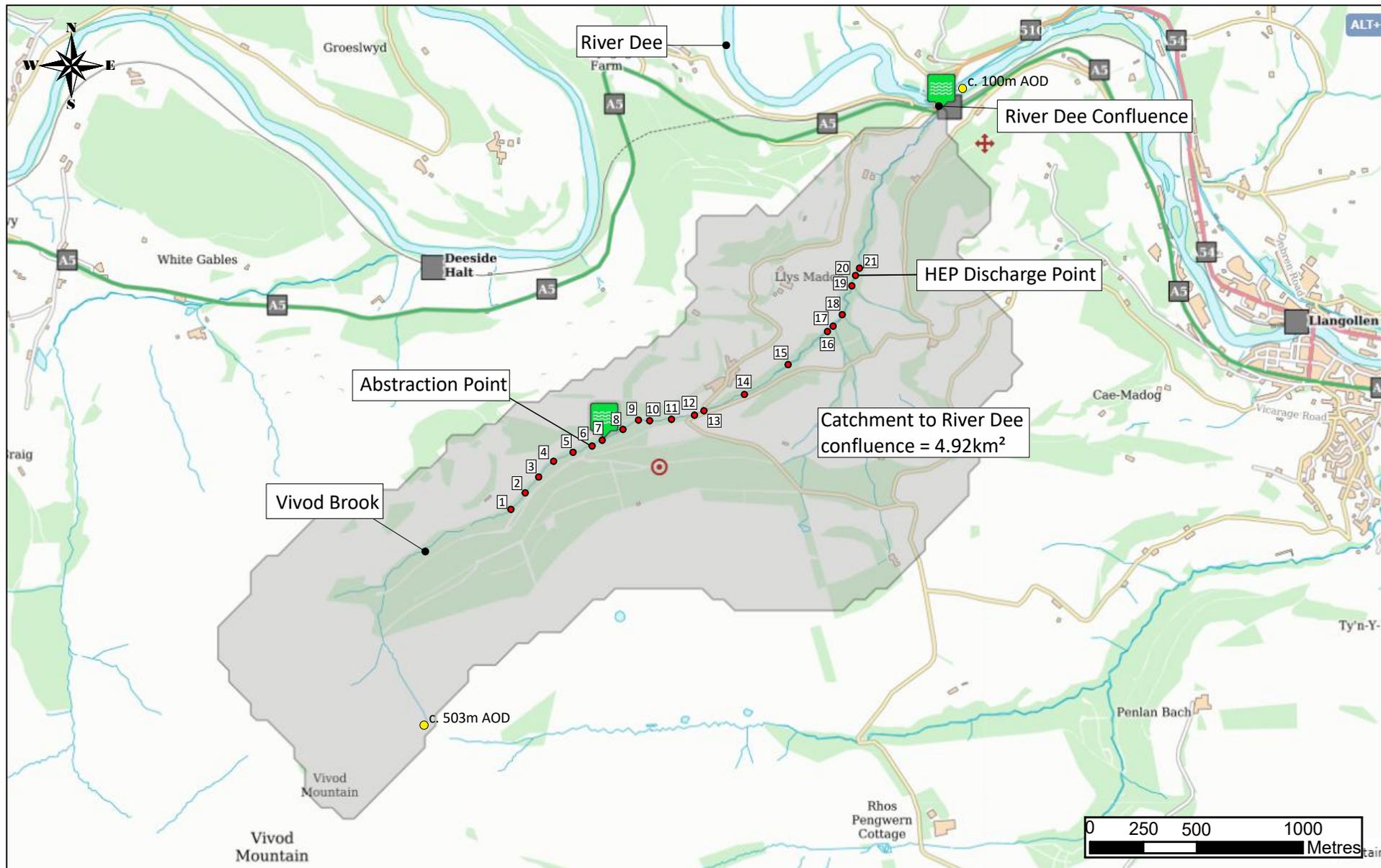
This document provides the requested photo survey as set out on the NRW guidance. Figure 1 provides an overview of the photo survey location points and Figures 2 to 6 provide photograph of the watercourse at these locations. All photographs have a metal 1m rule within the picture to provide scale.

An accompanying grid reference for each location and description of location and photograph is provided in tabulated form in Appendix A.

We look forward to receiving the validation of the application and varied licence in due course but in the meantime if you would like to discuss any aspect of the application then please do not hesitate to contact us.

Lee Clarke MSc CGeol FGS
Principal

Photo Survey Figures



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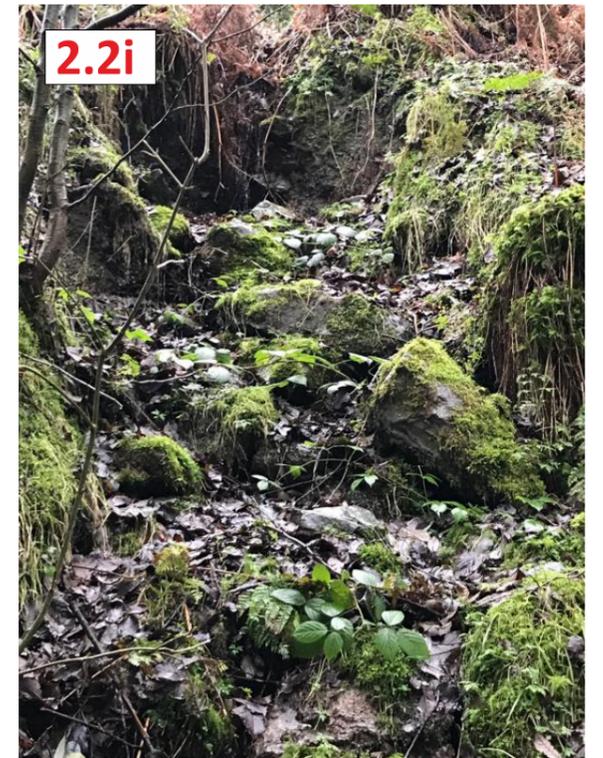


Ref: P19-144 - Vivod Licensing \ FIG HEP
 Photosurvey
 Date: 29/11/2019

Vivod Estates

Figure 1

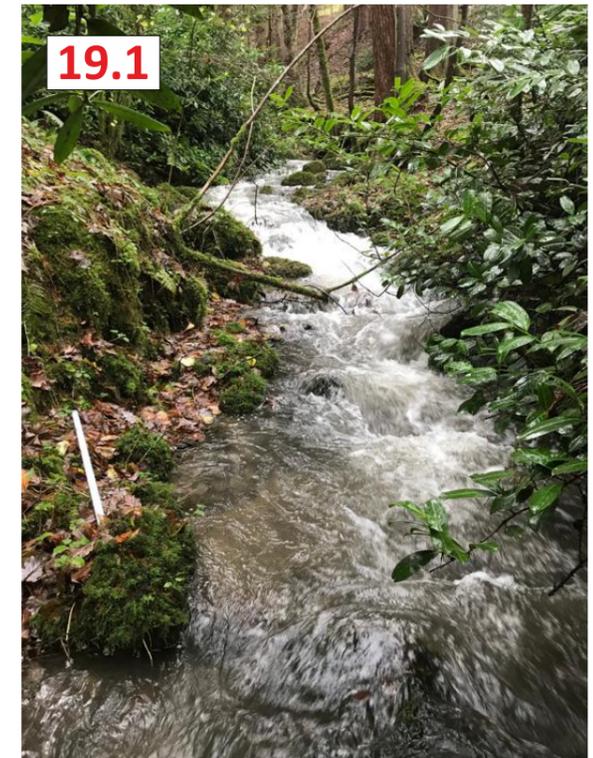
HEP Photosurvey Location Plan











Appendix A

Photo Survey Tabulated Description

Envireau Water

Figure No.	Location No.	Grid Reference	Distance from Abstraction	Description	Photo subject	Photograph ID on Figure	
2	1	317832	500m (Upstream)	Main watercourse channel shape and bed, looking upstream	Wide shot and bed	1.1	
		341345					
	2	2	317897	400m (Upstream)	Main watercourse channel shape and bed, looking upstream	Wide shot and bed	2.1
			341421		Dry Inflow Channel (unmarked on OS 1:25000 map)	Northern Bank Inflow	2.2i
	3	3	317958	300m (Upstream)	Main watercourse channel shape and bed, looking upstream	Narrow shot and bed	3.1
			341493				
	4	4	318027	200m (Upstream)	Main watercourse channel shape and bed, looking upstream	Narrow shot and bed	4.1
			341563		Flowing Inflow Channel (unmarked on OS 1:25000 map)	Northern Bank Inflow	4.2i
3	5	318116	100m (Upstream)	Main watercourse channel shape and bed, looking upstream	Narrow shot and bed	5.1	
		341604		Flowing Inflow Channel (unmarked on OS 1:25000 map)	Southern Bank Inflow	5.2i	
	6	6	318203	0m	Abstraction Point, looking upstream to impoundment structure	Narrow shot and bed, impoundment	6.1
			341632		Flowing Inflow Channel (unmarked on OS 1:25000 map)	Southern Bank Inflow	6.2i
	7	7	318237	40m (Downstream)	Main watercourse channel shape and bed, looking downstream	Wide shot and bed	7.1
			341650				
	8	8	318317	140m (Downstream)	Main watercourse channel shape and bed, looking downstream	Wide shot and bed	8.1
			341709		Natural wooden obstruction in watercourse	Log obstruction	8.2
					Flowing Inflow Channel (unmarked on OS 1:25000 map)	Northern Bank Inflow	8.3i
3	9	318395	230m (Downstream)	Main watercourse channel shape and bed, looking upstream with flowing inflow channel on southern bank	Wide shot, bed and southern bank inflow	9.1i	
		341748					
	10	10	318425	260m (Downstream)	Main watercourse channel shape and bed, looking upstream	Wide shot and bed	10.1
			341743				
	11	11	318565	360m (Downstream)	Main watercourse channel shape and bed, looking upstream	Narrow shot and bed	11.1
			341753				

Envireau Water

Figure No.	Location No.	Grid Reference	Distance from Abstraction	Description	Photo subject	Photograph Name	
3	12	318670	460m (Downstream)	Main watercourse channel shape and bed, looking downstream	Narrow shot and bed	12.1	
		341772		Flowing Inflow Channel (unmarked on OS 1:25000 map)	Northern Bank Inflow	12.2i	
4	13	318702	490m (Downstream)	Road Crossing Culvert looking down on main watercourse	Overhead	13.1b	
		341786		Channel and bed looking upstream towards culvert	Narrow shot and bed	13.2	
	14	318898	710m (Downstream)	Main watercourse channel shape and bed, looking upstream	Narrow shot and bed	14.1	
		341865		Flowing Inflow Channel (unmarked on OS 1:25000 map)	Southern Bank Inflow	14.2	
				Looking down on watercourse from northern bank	Overhead	14.3	
	15	319097	960m (Downstream)	Main watercourse channel shape and bed, looking upstream	Wide shot and bed	15.1	
		342001					
	16	319277	1210m (Downstream)	Footbridge			
		342150		Main watercourse channel shape and bed, looking upstream	Wide shot and bed	16.1	
	5	17	319303	1240m (Downstream)	Confluence Point.		
			342175		Main watercourse channel shape and bed, looking upstream	Narrow shot and bed	17.1c
					Flowing Inflow Channel (as marked on OS 1:25000 map)		
18		319344	13100m (Downstream)	Confluence Point entering entering main watercourse (as marked on OS 1:25000 map)	Narrow shot and Southern Bank Inflow	18.1c	
		342227					
19		319389	1450m (Downstream)	Confluence point			
		342366		Main watercourse channel shape and bed, looking upstream	Wide shot and bed	19.1	
				Flowing Inflow Channel (as marked on OS 1:25000 map)	Southern Bank Inflow	19.2c	
20			1500m (Downstream)	Looking down from south bank		19.3	
		319398		HEP Discharge point			
		342384		Main watercourse channel shape and bed, looking upstream	Narrow shot and bed	20.1	
21			1530m (Downstream)	Discharge from HEP to watercourse on Northern Bank	HEP Discharge	20.2d	
	319414	Downstream of HEP discharge point					
	342412	Main watercourse channel shape and bed, looking upstream		Wide shot and bed	21.1		