

Llanddulas PPC								
Interval	Monitoring Type	Sample Points	Total no. of sampling points	Field Monitoring Determinands	Sampling Determinands	Sample Yes/No	Month	Comments
Weekly	Perimeter Boreholes	BH1,BH2,BH3,BH4,BH5,BH6,BH7,BH8,BH9,BH10,BH11,BH12,BH13,BH14,BH15,BH16,BH17,BH18,BH19,BH20,BH21,BH22,BH23,BH24,BH25, BH26, BH27, BH28, BH29, BH30, BH40, BH41, BH42, BH100, BH101, BH102, BH103, BH104, BH105, BH106, BH107, BH108, BH109, BH110, BH111, BH112, BH113, BH114, BH115, BH116, BH117, BH118, BH119, BH120	54	Gas Comp, Field Log	N/A	No	All	
	Surface Waters	LLASPRING	1	Field Log, Field Temperature, pH & EC, Sample, Flow over weir(l/s)	NH ₄ -N, Cl.	No	All	
	Leachate Chambers	LW1Ar, LW1C, LCP2Ar2, LCP2Br2, LCP2Cr, LCP3, LCP3A, LMP1, LMP2, LMP3, LMP4, LMP5, LMP3/1, LMP3/2	14	Field Log, DTL, DTB, Pulse Count	n/a	No	All	FCC
	Gas Utilisation (Infinis)	Input to LFG Utilisation	1	CH4, CO2, O2, Gas flow rate	N/A	No	All	Infinis

Weekly included in monthly, quarterly etc.
Monthly in quarterly etc.

Gas Comp = CH4, CO2, O2 %v/v
DTL = Dip to Liquid
DTB = Dip to Base

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Interval	Monitoring Type	Sample Points	Total no. of sampling points	Field Monitoring Determinands	Sampling Determinands	Sample Yes/No	Month	Comments
Fortnightly	In-Waste Monitoring Points	All points referenced on ESID8 and Table S4.5	tbc	Field Log, CH4, CO2, O2, CO, Atm. Press, Differential Pressure, Suction, Valve Position	n/a	No	All	Infinis
Monthly	Perimeter Boreholes	All weekly monitoring plus the following; BH31, BH32, BH33, BH34, BH35, BH36, BH37, BH38, BH39, BH47, BH48, BH49, BH50, BH51, BH52, BH53, BH54, BH55, BH56, BH57, BH2003/1, BH2003/2.	22	Gas Comp, Field Log	N/A	No	All	
	Treatment Plant	Raw Leachate & Effluent Discharge	2	Field Log, NH4-N, Nitrate, Nitrite, Temp, pH.	LBTKMO, EDISMO	Yes	All	FCC
	Groundwaters	GWBH04, GWBH07, GWBH034, GWBH035, GWBH036, GWBH23, GWBH26B, GWBH025, GWBH32, GWBH01, GWBH33, GWBH02, GWBH28, GWBH24, GWBH22, GWBH27B, GWBH06R	17	Field Log, DTL, DTB, Field Temp/pH/EC, Sample	LLAGWM	Yes	All	
	Emissions to Surface Water	W1 (discharge from Lagoon to Irish Sea)	1	Field Log, sample, visible oil and grease,	LLAESW	Yes	All	
	Surface Waters	LLASPRING, SW Upstream, SW Downstream.	3	Field Log - Temperature, pH, EC, Sample. LLASPRING - As per weekly monitoring.	LLASWM & LLASPRI	Yes	All	
	FID Survey	Site Boundary, Caps Surfaces, Gas and Leachate well Heads	8	Field Log, Flammable gas	N/A	No	All	
Quarterly	Groundwaters	GWBH04, GWBH07, GWBH034, GWBH035, GWBH036, GWBH23, GWBH26B, GWBH025, GWBH32, GWBH01, GWBH33, GWBH02, GWBH28, GWBH24, GWBH22, GWBH27B, GWBH06R	17	As per monthly monitoring	LLAGWQA	Yes	All	
	Surface Waters	LLASPRING, SW Upstream, SW Downstream.	3	As per monthly monitoring	LLASWQA & LLASPRI	Yes	All	
	Leachate Chambers	LCP1Ar, LCP1C, LCP2Ar, LCP2Br, LCP2C1, LCP3, LCP3A.	7	Field Log - Field Temp, pH & EC	LLALCQ	No	All	

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Annual	Groundwaters	GWBH04, GWBH07, GWBH034, GWBH035, GWBH036, GWBH23, GWBH26B, GWBH025, GWBH32, GWBH01, GWBH33, GWBH02, GWBH28, GWBH24, GWBH22, GWBH27B, GWBH06R	17	As per monthly & quarterly monitoring	LLAGWQA	Yes	All	
	Groundwaters	GWBH27B & GWBH36	2	N/A	LLAGWA	Yes	All	List I leachate screen
	Surface Waters	LLASPRING, SW Upstream, SW Downstream.	3	As per monthly & quarterly monitoring	LLASWQA & LLASPRI	Yes	All	
	Leachate Chambers	LCP1Ar, LCP1C, LCP2Ar, LCP2Br, LCP2C1, LCP3, LCP3A.	7	As per quarterly monitoring	LLALCA	No	All	
	LFG Emissions - Stacks/Flares	A1 (Flare >10% operational), A2, A3, A4 (Engine Stacks)	4	Field Log, Sample	NOX, CO, Total VOCS, NMVOCS	Yes	Apr	Infinis
	Flux Box (Aerial fugitive emissions)*	Permanent & temporarily capped areas	n/a	Average methane flux	-	No	April	Contractor to confirm with FCC about Flux Box requirements before scheduling work.
* If an intial survey has demonstrated compliance, any further annual surveys can be replaced by FID walk over if no major changes to infrastructure have occurred.								

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