

FLOOD RISK ASSESSMENT

COCKENZIE BESS

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1. Introduction

<u>Background</u>

- 1.1. Pegasus Planning Group Ltd has been appointed by Cockenzie Storage Limited to undertake a Flood Risk Assessment (FRA) for a proposed Battery Energy Storage System (BESS) on land south-west of Cockenzie, East Lothian.
- 1.2. This assessment considers the risk of flooding from all sources including coastal, fluvial, surface water, groundwater, reservoirs, and drainage systems (sewers and culverts).
- 1.3. A proposed Surface Water Drainage Strategy to manage surface water runoff from the development and mitigate any potential negative water quality impacts has been prepared by David R Murray and Associates and is included as a separate submission to this report.

Relevant Policy and Guidance

- 1.4. This report considers the recommendations and requirements outlined in:
 - National Planning Framework 4 (February 2023)
 - Scottish Planning Policy (SPP) (June 2014)
 - SEPA's Technical Flood Risk Guidance for Stakeholders (June 2022)
 - SEPA's Development Guidance: Flood Risk (July 2018)
 - SEPA's Climate Change Allowances for Flood Risk Assessment in Land Use Planning (April 2023)
 - SEPA's Flood Risk and Land Use Vulnerability Guidance (July 2018)
 - East Lothian Council Sustainable Drainage Systems (SuDS) Supplementary Planning Guidance (June 2019)
 - East Lothian Council Local Development Plan Strategic Flood Risk Assessment (2018)
- 1.5. The Flood Risk Framework in Scottish Planning Policy and SEPA's Technical Flood Risk Guidance for Stakeholders details that an FRA is required for development in areas at risk of flooding or where the proposed development may increase flood risk elsewhere. SEPA's Surface Water Flood Map shows areas at risk at the site. The development proposals, if left unmitigated, also have the potential to increase flood risk elsewhere. An FRA is therefore required for the proposals.
- 1.6. Scottish Planning Policy (Paragraph 255) details that the planning system should promote "avoidance of increased surface water flooding through requirements for Sustainable Drainage Systems (SuDS)". In accordance with this, a Surface Water



Drainage Strategy to manage surface water runoff from the development has also been prepared and is included elsewhere in the planning submission.



2. Existing Site and Hydrology

Site Location & Existing Conditions

- 2.1. The site is located in Cockenzie, East Lothian and comprises approximately 17ha of greenfield land and associated access.
- 2.2. The site is bordered to the north by residential dwellings of Cockenzie, to the east by Avenue Road, to the south by open green space and to the west by Cockenzie Substation.
- 2.3. Approximate co-ordinates at the centre of the site are E: 340015, N: 675185. The nearest postcode is EH32 OJT.
- 2.4. The site location is shown in Figure 2.1.



Figure 2.1 – Site Location

2.5. A topographic survey of the site was complete in April 2023 by L&M Survey Services and is included in Appendix A. The topographic survey of the site shows that existing ground levels on site generally fall in a northerly direction from a high point of approximately 11.3mAOD in the south to the low point of approximately 8.0mAOD in the north.



Existing Drainage and Hydrology

- 2.6. The are no watercourses located on site. The nearest identified watercourse runs through the open green space to the south of the site.
- 2.7. Geological data from the British Geological Survey (BGS) shows the site is underlain by "Upper Limestone Formation – Sandstone with Subordinate Argillaceous Rocks and Limestone" bedrock in the west and "Passage Formation – Sandstone and Seatearth" bedrock in the east.
- 2.8. BGS also record superficial deposits at the site generally comprising "Till, Devensian Diamicton", with a small area of "Raised Marine Deposits Of Holocene Age – Sand And Gravel" at the far western site access.
- 2.9. The National soil map of Scotland shows "Brown earths" extending across the entire site, with a parent material of "drifts derived from Carboniferous sandstones, shales and limestones".



3. Proposed Development

- 3.1. The proposals are for "Construction and operation of Battery Energy Storage System (BESS), transformer/sub-station an associated infrastructure".
- 3.2. The proposed site layout in included in Appendix B.



4. Flood Risk and Land Use Vulnerability

Flood Risk Classification

- 4.1. Scottish Planning Policy (SPP) (2014) set out three categories of coastal and fluvial flood risk:
 - 1) Little or No Risk less than a 1 in 1000 year probability of coastal or fluvial flooding
 - 2) Low to Medium Risk between a 1 in 1000 year and 1 in 200 year probability of coastal or fluvial flooding
 - 3) Medium to High Risk greater than a 1 in 200 year probability of coastal and fluvial flooding

Land Use Vulnerability

- 4.2. SEPA's Flood Risk and Land Use Vulnerability Guidance classifies land uses according to how they are impacted by flooding.
- 4.3. The proposed BESS development is defined as 'Essential Infrastructure' under the description "essential utility infrastructure that has to be located in a flood risk area for operational reasons (this includes electricity generating power stations and grid and primary sub-stations, sewage treatment plants and water treatment works, wind turbines and other energy generating technologies)".

Suitability of Proposed Development

- 4.4. From a flood risk perspective (considering coastal and fluvial flooding only), SEPA's Flood Risk and Land Use Vulnerability Guidance details that Essential Infrastructure is generally:
 - Suitable in areas of 'Little or No Risk'.
 - Suitable in areas of 'Low to Medium Risk'.
 - Suitable in areas of 'Medium to High Risk' subject to being designed and constructed to remain operational during a flood event (1 in 200 year) and not impede water flow.
 - Suitable in areas of 'Medium to High Risk' within sparsely developed/undeveloped areas, where a flood risk location is required for operational reasons and an alternative lower-risk location is not available. Development should be designed and constructed to remain operational during a flood event (1 in 200 year) and not impede water flow.
- 4.5. The site is at Little to No Risk of coastal and fluvial flooding, as discussed in detail in Section 5. The proposed Essential Infrastructure development is therefore in accordance with SEPA's Flood Risk and Land Use Vulnerability Guidance (see above).



- 4.6. SPP (2014) also states that areas at Little or No Risk have "no constraints due to coastal or watercourse flooding". The development is therefore considered appropriate.
- 4.7. In addition to the above, this FRA assesses the risk of flooding to the site from all sources, including from surface water. SPP (2014) states that "Infrastructure and buildings should generally be designed to be free from surface water flooding in rainfall events where the annual probability of occurrence is greater than 0.5% (1:200 years)". Surface water flood risk, and the suitability of the development is considered below in Section 5.



5. Site Specific Flood Risk

- 5.1. In accordance with SPP (2014), this Flood Risk Assessment considers the risk of flooding from all sources including:
 - a) Coastal Flooding from the sea
 - b) Fluvial Flooding from rivers and streams
 - c) Surface Water Flooding overland surface water flow and exceedance
 - d) Groundwater Flooding from elevated groundwater levels or springs
 - e) Reservoir Flooding from failure of reservoir dams
 - f) Drainage System Flooding exceedance flows from an existing sewer system and culverts.

Flood Risk Classification

5.2. SEPA's flood maps define areas that are subject to a High, Medium or Low likelihood of flooding from coastal, fluvial and surface water sources. Table 5.1 below details the flood events associated with each of SEPA's likelihood categories.

Likelihood of Flooding Event	Flood Event Impacting the Area
High	1 in 10 year
Medium	1 in 200 year
Low	1 in 1000 year

Table 5.1 – SEPA Flood Map – Likelihood Classification

<u>Coastal Flooding</u>

- 5.3. SEPA's Coastal Flooding flood map defines the entire site to be at Little or No Risk of flooding, not predicted to be impacted by a 1 in 1000 year flood event (see Figure 5.1).
- 5.4. East Lothian Council's Strategic Flood Risk Assessment (2018) highlights that historically, coastal flooding has impacted the coastal areas of the region, referring to winter storms in 2010 and 2012. Although Cockenzie and the site are coastal, no historical flood events impacting the site or specific to Cockenzie are recorded in the SFRA.
- 5.5. Overall, the site is considered to be at Little or No Risk of coastal flooding.



Figure 5.1 – SEPA's Coastal Flooding Flood Map



Fluvial Flooding

- 5.6. SEPA's River Flooding flood map defines the entire site to be at Little or No Risk of flooding, not predicted to be impacted by a 1 in 1000 year flood event (see Figure 5.2).
- 5.7. Im resolution LiDAR data downloaded from the 'Scottish Remote Sensing Portal' does not highlight any watercourses on site that may pose a risk to the site. There is a small watercourse evident in the LiDAR data to the south of the site. This watercourse is unnamed and does not have a clear outfall. It is presumed to been used to help manage drainage of the open green space to the south of the site and is considered unlikely to present a fluvial flood risk to the site.
- 5.8. The SFRA (2018) does not highlight any fluvial flood risk in Cockenzie.
- 5.9. Overall, the site is considered to be at Little or No Risk of fluvial flooding.



Figure 5.2 – SEPA's River Flooding Flood Map



Surface Water Flooding

- 5.10. SEPA's Surface Water flood map defines the majority of the site to have a Low Likelihood of flooding, not predicted to be impacted by a 1 in 1000 year rainfall event (see Figure 5.3).
- 5.11. There are some areas of the site predicted to be at risk, ranging from a High Likelihood (1 in 10 year probability) to Low Likelihood (1 in 1000 year probability).
- 5.12. There are 2 isolated areas of surface water flood risk predicted at the northern end of the site. As the surface water predicted to accumulate here is associated with surface water arising within the site boundary itself, it will be managed with the proposed Surface Water Drainage Strategy (prepared by David R Murray Associates) which will help mitigate the risk. In addition, development proposed within these 2 areas is limited (see below).
- 5.13. The SPP (2014) advises that infrastructure and buildings are generally designed to be free from surface water flooding during a 1 in 200 year rainfall event (outside the Medium Likelihood defined in the SEPA flood map).
- 5.14. The proposed site layout and SEPA Surface Water flood map is shown in Figure 5.4. Generally, the only proposed development in areas at risk of surface water flooding include a proposed bund and proposed SuDS features (see drainage strategy details elsewhere in the planning submission). There is a small area of BESS infrastructure proposed within the northwestern isolated area of Medium Likelihood (1 in 200 year).



It is considered that this risk with be managed and mitigated with the proposed Surface Water Drainage Strategy (prepared by David R Murray and Associates) and that the infrastructure would therefore be suitably protected from surface water flooding here.

- 5.15. In addition to the surface water predicted to arise on site which will be suitably managed, there is a surface water flow path along the eastern site access and flowing into the far northern edge of the site predicted by the SEPA flood map (Figure 5.3).
- 5.16. LiDAR data shows ground levels along the proposed eastern access to fall consistently to the north. It is therefore not expected the surface water would accumulate to significant depths here. Furthermore, the proposals are for a BESS which will be operated remotely and only visited occasionally for maintenance. The site will therefore not need to be accessed during an extreme surface water flood event.
- 5.17. No proposed BESS infrastructure is located at the end of the eastern flow path where surface water is predicted to accumulate.
- 5.18. Given the above, the site is considered to have a **Low Likelihood** of surface water flooding and with the proposed Surface Water Drainage Strategy in place, the development is considered to be safe from surface water flooding during its lifetime.



Figure 5.3 – SEPA's Surface Water Flooding Flood Map





Figure 5.4 – SEPA's Surface Water Flooding Flood Map & Proposed Site

Groundwater Flooding

- 5.19. BGS data show that the site is underlain by permeable limestone/sandstone bedrock in the west and mixed permeability sandstone/seatearth bedrock in the east. It is considered that there is potential for groundwater emergence through these bedrocks, given their expected permeable nature.
- 5.20. Superficial deposits on site are also recorded by BGS generally comprising till, with a small area of marine deposits in the west. Till deposits are generally relatively impermeable are likely to restrict the potential emergence of groundwater on site.
- 5.21. Brown earths soils are recorded by the National soil map of Scotland to be present across the entire site. These soils are made up of equal parts silt, sand and clay and are freely draining. Groundwater emergence is possible though these presumed permeable soils.
- 5.22. The Hydrogeology Aquifer Classification defines bedrock at the site as a 'Moderately Productive Aquifer'.
- 5.23. The East Lothian SFRA (2018) does not report any issues with groundwater flooding in Cockenzie, highlighting risk in east Musselburgh, Port Seton and Dunbar only.
- 5.24. The site generally falls northerly without exhibiting any significant dips in local topography. As a result, site topography is not considered to be conducive to



groundwater flooding, with any groundwater to emerge expected to flow northerly, away from the site and in accordance with site topography.

5.25. Overall, the site is considered to be at Low risk of flooding from groundwater.

Drainage System Flooding

- 5.26. The East Lothian SFRA (2018) does not highlight any risk of flooding from sewers in Cockenzie, with Humbie being the only area mentioned.
- 5.27. The site generally falls northerly without exhibiting any significant dips in local topography. As a result, site topography is not considered to be conducive to sewer flooding, with any flood waters from the local sewer network expected to flow northerly, away from the site and in accordance with site topography.
- 5.28. The site is therefore considered to be at **Low** risk of sewer flooding.

Reservoir Flooding

- 5.29. There are no Reservoirs identified in the vicinity of the site that are expected to pose a risk to the proposed development should they fail.
- 5.30. SEPA's Reservoir Inundation maps do not highlight the site or any land in the immediate vicinity to be at risk of reservoir flooding.
- 5.31. Reservoirs in Scotland are regulated under the Reservoirs (Scotland) Act 2011. The Act implements a proportionate and risk-based set of regulations to manage the consequence of uncontrolled water release from reservoirs. The strict regulations involved with reservoir operations ensures that the likelihood of a significant breach event occurring is very low, and that the associated risk is also low.
- 5.32. Overall, the site is considered to be at **Very Low** risk of flooding from reservoirs.

Access & Egress

- 5.33. The site is proposed to be accessed via Edinburgh Road to the west and the B6371 to the east.
- 5.34. Edinburgh Road is not considered to be a significant flood risk from any source.
- 5.35. SEPA data shows surface water flood risk along the B6371. As discussed above however, given the northerly fall of the road, surface water is not predicted to accumulate to significant depths here. Furthermore, the proposed BESS will be controlled remotely and only visited occasionally for maintenance operations. Consequently, there will be no requirement for site access or egress during times of extreme flood.

Flood Risk Summary

5.36. The risk of flooding from all sources is summarised in Table 5.2:



Flood Source	Flood Risk	Mitigation/Comments
Coastal	Little or No Risk	• SEPA does not predict the site to be impacted by a 1 in 1000 year coastal flood event
Fluvial	Little or No Risk	• SEPA does not predict the site to be impacted by a 1 in 1000 year fluvial flood event
Surface Water	Low	• Across the majority of the site, SEPA does not predict the site to be impacted by a 1 in 1000 year surface water flood event.
		• Areas identified to be at risk that are associated with surface water arising on site will be manage with the Proposed Surface Water Drainage Strategy prepared by David R Murray and Associates
Groundwater	Low	 Ground conditions on site are potentially suitable for groundwater emergence
		 Site topography is not considered conducive to groundwater flooding
Drainage Systems	Low	• The East Lothian SFRA does not highlight any risk of flooding from sewers in Cockenzie
		• Site topography is not considered conducive to groundwater flooding
Reservoirs	Very Low	• SEPA's Reservoir Inundation maps do not highlight the site or any land in the immediate vicinity to be at risk of reservoir flooding.
		• The likelihood of a reservoir breach is considered to be very low



6. Summary

- 6.1. The site comprises approximately 17ha of greenfield land and associated access. The site is proposed for the "construction and operation of Battery Energy Storage System (BESS), transformer/sub-station an associated infrastructure".
- 6.2. The proposed development (Essential Infrastructure) is in accordance with SEPA's Flood Risk and Land Use Vulnerability Guidance.
- 6.3. The site is not considered to be a significant risk of flooding from any source. SEPA mapping predicts areas of the site to be at risk of surface water flooding. These at risk areas have generally been kept clear of vulnerable infrastructure.
- 6.4. A Surface Water Drainage Strategy has been prepared by David R Murray and Associates to manage surface water runoff from the proposed development and is included elsewhere in the planning documents.
- 6.5. Overall, the development is not considered to be at significant risk of flooding and a Surface Water Drainage Strategy will be implemented to ensure flood risk elsewhere is not impacted.



Appendix A – Topographic Survey



		LEGEND		AV	Air Valve
		51.0	- Contour	O Bed Level +	Air vaive
		50.0	Prominent Contou	вн - Bin	Borehole
			Low Kerb	Bol	Rubbish Bin Bollard
			Road Verge	BS	Bus Stop
			Crash Barrier	BT	British Telecom
			Wall		Cable T.V.
			Wall (To scale)	° CCTV O	Camera
			Concrete Base		Culvert
			Steps	Dp •	Down Pipe
			- Fence	Dr O EP	Drain
			Gate Building		Electricity Pole
			Building Minor		Fire Hydrant
900	675400N 🙀		BulldIng Overhang Sofft Line	FL + G	Floor Level
- Note			Top of bank	Gas	Gully
			Bottom of bank	GR O	Gas Riser
			- Change of Surface	GV	Gas Valve
			 – Tactile Paving – - Track (To scale) 		Inspection Cover Small
			Ditch		Inspection Cover Large
			Water Line	+ IRS O	Invert Level
			Rock Outcrop	KO O	Kerb Outlet
			- Foliage	UP O	Lamp Post
+	675 <u>350N</u>		Tree Area	L/B O Mat	Llfebelt
		$(\cdot) \in \{$	\mathbf{c}		Meter
		Tree E	ush	мн	Manhole
			Pipeline	мн	Triangular Manhole
			Channel (To scale) Overhead Line	Mon	Monltor
			Seat	Moor	Mooring Post
			Junction / Location	Box +	Marker Post Post
			road Sign	РВ	Post Box
1	.		Rallway	Plpe	Plpe
+	675 <u>300N</u>		Buffer		Trial Pit
			— Cable Housing	RE	Rodding Eye
			Check Rall	Ö .	Road Sign
			Coping Edge	+ sc	Stop Cock
			— Ground Signal	Stay +	Stay
			Hollow Sleeper	Phone O Sto	Telephone
			Magnet	О́ т.	Tree Stump
			Orange Plpe Cros	sing TP	Telegraph Pole
1	675250N	<u> </u>	- Red Bond	TS O	Traffic Signal
			— Signal	WLev + Axle Counter	Water Level
			Signal Wire	O Cant	Axle Counter Cant Marker
			— Switch	CN O	Crossing Nose
N.				Exp O FB	Expansion Joint
			Track Warning Sys	tem O 1J/4	Flash Butt Weld Insulated Joint
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Appendix B – Proposed Site Layout





Expertly Done.

DESIGN | ECONOMICS | ENVIRONMENT | HERITAGE | LAND & PROPERTY | PLANNING | TRANSPORT & INFRASTRUCTURE

All paper sources from sustainably managed forests

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