

<b>AS27</b> <b>Land at Horton Heath</b>	<b>Sources of Information include</b> <sup>1</sup> MSPSD 11 MSPSD 15: Draft MSP - Annotated with proposed modifications
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Site	Receptor <sup>2</sup>	Is there a risk of likely significant effects (LSE)?				If risk of LSE, what is the timescale?					Comments
		Direct	Secondary	Cumulative	Synergistic	Short-term (<5 yrs)	Medium-Term (5-10 yrs)	Long-term (10+ yrs)	Temporary	Permanent	
AS27 Land at Horton Heath	<b>Biodiversity (incl. flora and fauna)</b>	<p>Area AS27 lies to the west of Horton Common SSSI, a component part of the Dorset Heaths SAC and Dorset Heathlands SPA/RAMSAR - quarrying could lead to hydrological impacts on these designations.</p> <p>There is a layer of Broadstone Clay beneath the sand and gravel and disturbance of this risks affecting the hydrology of Horton Common SSSI.</p> <p>Loss of hedgerows could have impact on protected species e.g. dormice</p>	Possible effects on hydrology causing impacts on Horton Common SSSI, Dorset Heaths SAC and Dorset Heathlands SPA/RAMSAR	Possible cumulative impacts with recently permitted quarry to the east; and other operations, e.g. sewage sludge spreading, in the area.	None expected.	If impacts are identified, they will be mitigated prior to development, or development will not take place.	If impacts are identified, they will be mitigated prior to development, or development will not take place.	If impacts are identified, they will be mitigated prior to development, or development will not take place.	Restoration to acid grassland will provide benefits.		No further Development Guidelines (DGs) proposed.
	<b>Human health (incl. noise)</b>	<p>Potential for direct impacts on surrounding receptors, including from noise generated on the site.</p> <p><b>8. To protect and improve air quality and reduce the impacts of noise</b></p> <p>Impacts on air quality expected to be negligible. No AQMAs will be affected by the working of this site proposal. Any dust resulting from working will be controlled through normal dust-suppression measures.</p> <p>Any impacts due to noise resulting from mineral working would be expected to be satisfactorily minimised through normal noise mitigation measures, imposed at the planning application stage.</p>	Possible impacts on settlements along the C2 Horton Road, from lorries travelling to/from the A31	Possible cumulative impacts with traffic in nearby settlements.	None expected.	During working.	During working and restoration	During working and restoration.	Will end when site is worked and restored.		Transport Assessment to be undertaken to identify mitigation.  No further DGs proposed.

<sup>1</sup> See: [www.dorsetforyou.gov.uk/mineral-sites-plan](http://www.dorsetforyou.gov.uk/mineral-sites-plan)

<sup>2</sup> Receptors are environmental features (for the purposes of Strategic Environmental Assessment) identified through Plan & Sustainability Appraisal preparation that could potentially be affected by the proposal

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	<p><b>17. To sustain the health and quality of life of the population</b></p> <p>There are a small number of residences within 500m, the closest being approximately 50m.</p> <p>Verwood is approximately 1 km to the north-east, and Three Legged Cross over 1km to the south-east. These settlements are unlikely to experience any visual or noise impacts from working in the vicinity of the site.</p> <p>Lorries travelling from the site to the A31 will pass through Three Legged Cross and Ashley Heath and could have an impact.</p>										
	<p><b>9. To maintain, conserve and enhance soil quality.</b></p> <p>Soil is poor quality in agricultural terms but valuable in terms of potential for acid grassland restoration.</p> <p>Soils to be stored/protected during preparation and working and properly reinstated during restoration.</p>	None expected.	None expected.	None expected.		Impacts expected during site preparation and working.	Impacts expected during site preparation and working, restoration expected to be beginning.	Impacts expected during site preparation and working, but restoration will be improving soil condition.	Impacts will be temporary.	Impacts will be temporary - mitigation during stripping/storage will assist in protecting soil.	No further DGs proposed.
	<p><b>4. To maintain, conserve and enhance the quality of ground, surface and sea waters and manage the consumption of water in a sustainable way.</b></p> <p>Hydrological assessment required to demonstrate no significant negative impact on hydrogeological connectivity and pathways and surface water flow regimes.</p> <p>Assessment to demonstrate that the proposed restoration will have no significant impact on water quality and cause no deterioration in WFD status. This is particularly relevant for sites adjacent to, and which drain to, watercourses and wetland features of interest.</p>	<p>Potential impacts on groundwater flows, with further impacts on offsite ecological designations.</p> <p>No flooding impacts.</p>	Potential for cumulative impacts with adjacent quarry to be assessed.	None expected.		Impacts would be felt during site preparation and working - but assessment prior to working must establish no impact, or impacts capable of mitigation.	Impacts would be felt during site preparation and working - but assessment prior to working must establish no impact, or impacts capable of mitigation.	Impacts would be felt during site preparation and working - but assessment prior to working must establish no impact, or impacts capable of mitigation.	There will either be no impacts, or impacts will be capable of mitigation.	No further DGs proposed - necessary safeguards have already been included.	

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		<p>Appropriate arrangements should be installed for surface water and silt collection and fuel storage to prevent contamination of groundwater resources.</p> <p><b>5. To reduce flood risk and improve flood management.</b></p> <p>Working is not considered to constitute, or exacerbate an existing, a flood risk. Land Drainage Consent to be obtained from Dorset County Council if works may affect flow of an ordinary watercourse.</p>									
	<b>Air</b>	<p><b>8. To protect and improve air quality and reduce the impacts of noise.</b></p> <p>Impacts on air quality expected to be negligible.</p> <p>No AQMAs will be affected by the working of this site proposal. Any dust resulting from working will be controlled through normal dust-suppression measures.</p> <p>Any impacts due to noise resulting from mineral working would be expected to be satisfactorily minimised through normal noise mitigation measures, imposed at the planning application stage.</p>	Potential for secondary effects of dust or air pollution beyond site boundary.	None expected.	None expected.	If impacts were to occur they would be expected during preparation and working.	If impacts were to occur they would be expected during preparation and working.	Yes, however phased restoration will be reducing the impacts.	Timescale for potential for impacts would be expected to be temporary, during preparation and working.	Long-term or permanent impacts not expected.	No further DGs proposed.
	<b>Climatic factors</b>	<p><b>14. To adapt to and mitigate the impacts of climate change.</b></p> <p>Developing land as a quarry is expected to have some negative impacts regarding climate change, due primarily to machinery used and transportation of mineral away from site. However, these will in relative terms be negligible.</p> <p>Policy CCI of the Bournemouth, Dorset and Poole Minerals Strategy seeks to address and minimise such impacts through requiring operators to take into consideration climate change impacts</p>	Potential for secondary effects resulting from the production of greenhouse gases (GHGs) beyond site boundary.	Potential for cumulative impacts of GHG production, in combination with the adjacent quarry.	None expected - emissions expected to be relatively low	If impacts were to occur they would be expected during and after preparation and working. It is not known how long the effects of the GHGs are felt after they are produced.	If impacts were to occur they would be expected during and after preparation and working. It is not known how long the effects of the GHGs are felt after they are produced.	Yes, however restoration will provide benefits. It is not known how long the effects of the GHGs are felt after they are produced.	It is expected that effects would be temporary, and associated with the production of GHGs. However it is not known how long the effects of the GHGs may last following their production.		No further DGs proposed.

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	<p>and their possible mitigation for any proposed minerals development.</p> <p>The development management policies, e.g. DM 1, also address and seek to minimise the issue of sustainable development and climate change.</p> <p>Restoration to some form of vegetated environment will offer benefits in the form of climate change mitigation, but again these benefits will be relatively small.</p>										
	<p><b>Material Assets</b></p> <p><b>NB</b> - The term 'material assets' for the purposes of this assessment is taken to refer to Natural Assets including minerals and land. Built assets are considered to be covered through other aspects of this assessment.</p>	<p>The Sustainability Appraisal includes the following Sustainability Objectives:</p> <p><b>10. To conserve and safeguard mineral resources.</b></p> <p><b>11. To promote the use of alternative materials.</b></p> <p><b>12. To provide an adequate and affordable supply of minerals to meet society's needs.</b></p> <p>The SA notes that the site would make an important contribution to the supply of aggregate, particularly Poole Formation sand, for Bournemouth, Dorset and Poole and all other potential markets, but does not promote the use of alternative materials.</p>	None expected.	None expected.	None expected.	None expected.	None expected.	None expected.	None expected.	None expected.	No further DGs proposed

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	<b>Cultural heritage - archaeology and historic landscapes</b>	<p><b>6. To maintain, conserve and enhance the historic environment (including archaeological sites, historic buildings, conservation areas, historic parks and gardens and other locally distinctive features and their settings).</b></p> <p>An archaeological assessment and probably an evaluation of the site that considers all the Monuments and their settings, as well as other possible archaeological material on the site, is needed.</p> <p>Quarrying impacts on topography and historic landform could have very significant impacts on the settings of the SMs and their inter-relationship within the landscape.</p> <p>The Scheduled Monuments here – prehistoric barrows and land boundary dikes - are all specifically ‘landscape monuments’, which have an intimate and highly significant relationship with the local topography; their relationship with the landform and their inter-relationship with each other across the landscape are important factors in their heritage significance.</p> <p>Appropriate restoration could improve the settings of the monuments.</p>	<p>Potential for impacts on the setting of Scheduled Monuments and other heritage in the vicinity of the site.</p>	<p>None expected.</p>	<p>None expected.</p>	<p>Any potential impact would primarily occur during extraction, but if the site is restored at a lower level this could also have an ongoing impact on the heritage.</p>	<p>Any potential impact would primarily occur during extraction, but if the site is restored at a lower level this could also have an ongoing impact on the heritage.</p>	<p>Any potential impact would primarily occur during extraction, but if the site is restored at a lower level this could also have an ongoing impact on the heritage.</p>	<p>The more significant impacts would be temporary, but there could be an ongoing effect.</p> <p>Detailed assessment required to ensure that the restoration proposed will not have permanent and unacceptable impact on the heritage.</p>	<p>No further DGs considered necessary - detailed assessment already noted as necessary.</p>	
	<b>Cultural heritage - historic buildings</b>	<p><b>6. To maintain, conserve and enhance the historic environment (including archaeological sites, historic buildings, conservation areas, historic parks and gardens and other locally distinctive features and their settings).</b></p> <p>No impacts on Listed Buildings are expected.</p>	<p>None expected.</p>	<p>None expected.</p>	<p>None expected.</p>	<p>None expected.</p>	<p>None expected.</p>	<p>None expected.</p>	<p>None expected.</p>	<p>None expected.</p>	<p>No further DGs proposed</p>

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	<b>Landscape</b>	<p><b>7. To maintain, conserve and enhance the landscape, including townscape, seascape and the coast.</b></p> <p>The site is also part of a prominent ridge line with open views especially to the east. The site has some landscape value and any future extraction should be limited in extent and be based on a detailed and independent assessment of landscape character so any future operations conserve and enhance key features and views and mitigation and restoration reflects existing character.</p> <p>The adjacent bridleway is a key visual receptor. It is important that prior to any application a full LVIA is carried out to assess impacts from all key visual receptors.</p> <p>Landscape and visual impact assessment to identify impacts; adequate mitigation of such impacts before and during working. Protect and maintain the identified key features of the site.</p>	Development of the site could have landscape/visual impacts on land to the north.	Could be cumulative impacts on surrounding areas, especially on Rights of Way and users of Rights of Way, when site development is considered along with adjacent quarry; photo voltaics; and other uses.	Impacts could be synergistic, depending on location viewed from.	Yes - for duration of preparation and working.	Yes - for duration of preparation and working.	Yes, however ongoing restoration will be reducing the impacts.	Yes - for duration of preparation and working. The site will be restored - restoration will be at lower level, so some effects will be permanent, essential to assess these and ensure they are acceptable.	There will be some changes to the landscape but the open character of the landscape will be maintained. See Restoration Vision of the DGs	No further DGs considered necessary.
	<b>Amenity</b>	<p><b>17. To sustain the health and quality of life of the population</b></p> <p><u>Impact on Sensitive Human Receptors</u></p> <p>There are a small number of residences within 500m, the closest being approximately 50m.</p> <p>Mitigation (visual screening bunds, planting) will be required but it is likely that there will still be impacts, including from lorries on the access road. Impacts to be assessed and mitigated.</p> <p><u>Impact on Existing Settlements</u></p> <p>Verwood is approximately 1 km to the north-east, and Three Legged Cross over 1km to the south-east. These settlements are unlikely to experience any visual or noise impacts from working in the vicinity of the site.</p>	Potential for impacts on closest residences.	Potential for impacts in combination with other existing uses in the vicinity	None expected.	Yes - limited impacts during preparation and working.	Yes - limited impacts during preparation and working.	Yes - limited impacts during preparation and working.	Yes - limited impacts during preparation and working.	Although site to be restored to lower level, no permanent changes expected.	No further DGs considered necessary.

<b>Relationships between these factors</b>	<ul style="list-style-type: none"><li>• There is the potential for in-combination effects in relation to landscape, biodiversity, recreation and heritage, during extraction (short-medium term).</li><li>• Restoration would maintain open landscape, benefiting heritage and providing ecological enhancement. As restoration would be to a lower level there would be a permanent impact on the landscape.</li><li>• Safeguards already applied through DGs.</li><li>• Mineral Sites Plan contains requirement to take into consideration cumulative impacts.</li></ul>
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