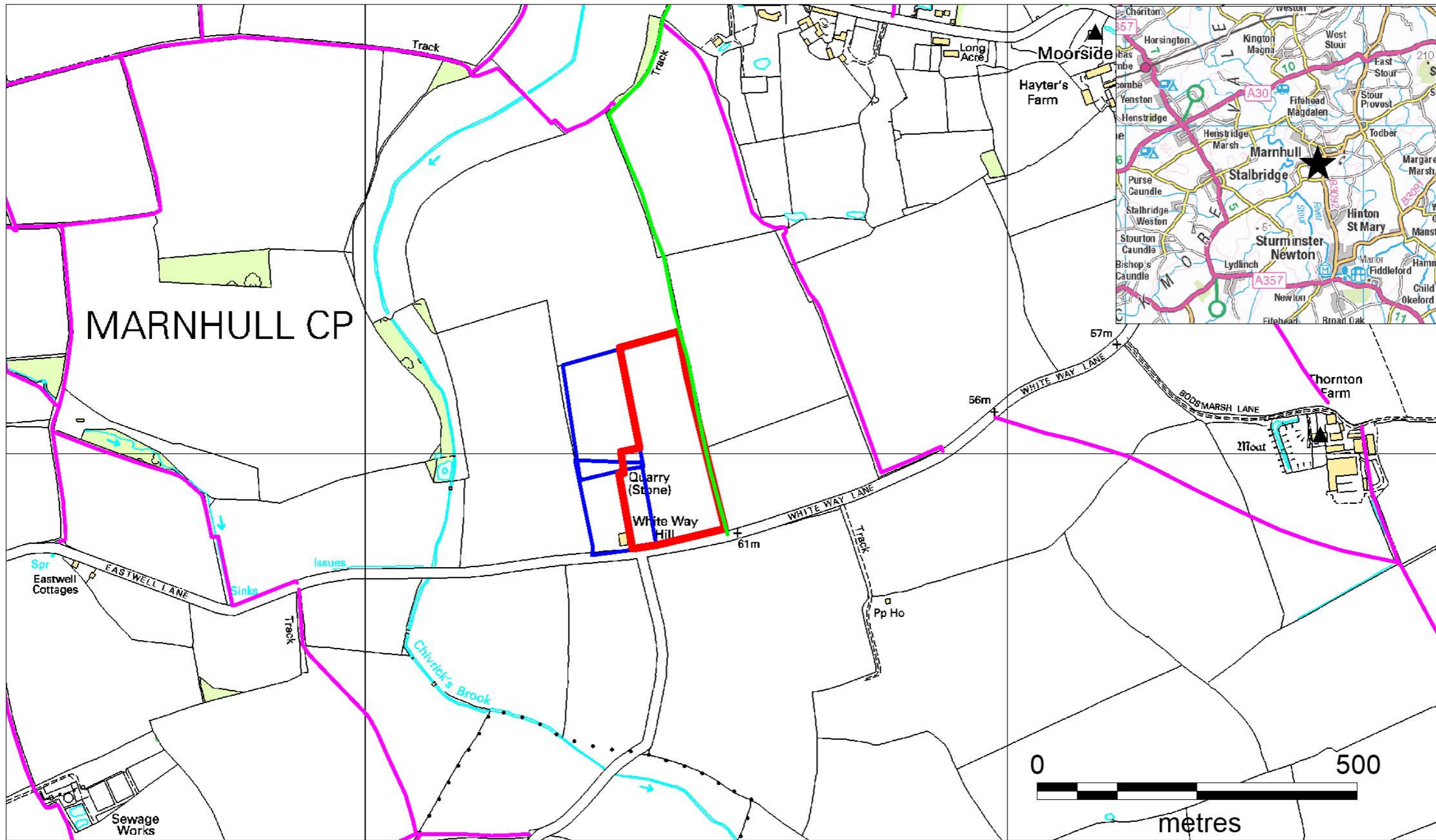


Bournemouth, Dorset and Poole Draft Mineral Sites Plan

Site Assessment of BS02 – Marnhull Quarry Extension



BS02 - Marnhull Quarry extension

- Nominated site
- Permitted mineral site
- Public Right of Way - Footpath
- Public Right of Way - Bridleway

- Authority boundary
- Scheduled monument
- Listed building

- SSSI
- SPA
- SSSI
- SAC
- Ramsar

★ Site location on Inset Map

GEOGRAPHICAL INFORMATION SYSTEMS



Dorset County Council

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Site Assessment of BS02 – Marnhull Quarry Extension

Site Information

Site Location	Marnhull Stone Quarry, White Way Lane, Marnhull, Sturminster Newton, Dorset DT10 1NQ Grid Reference: ST 792 180
District/Borough	North Dorset District Council
Parish/Town Council	Marnhull CP
Site Nominee/Owner Landownership issues? Any Mineral Operator interest	Marnhull Stone Limited No known issues – proposed site is extension of active quarry.
Agent	D K Symes
Mineral Planning History Is the site an extension to existing site? Has it been considered for minerals development in the past? Partly worked?	Extension to existing quarry Not known – not previously worked.
Legal or time-related constraints	None known.
Access to markets?	As for current quarry
Is there geological evidence of the presence and viability of the mineral?	Adjacent to existing quarry.
Development proposed	Eastward extension of existing limestone quarry, followed by restoration to agriculture when extraction is finished. Estimated reserve is approximately 25,000 tonnes and estimated annual output is 1,500 tpa, giving a site life of approximately 15 years.
Description of Site	Site area is approximately 2.02 ha Site is currently agricultural land.
Summary of Site Designations/Constraints	No constraints within vicinity of site. Bridleway (N47/50) 25m to east of edge of site.
Relevant Local Planning Policy	North Dorset Local Plan part 1 – January 2016 Policy 20 – The Countryside
Residential properties and other land uses in the vicinity of the site	Toogoods Farm at approximately 500m to north; other properties, including properties in Marnhull to north-west, within 1 km.
Traffic Generation & Access Considerations	Proposed extension will not be worked until current site is completed, therefore no intensification is expected. Traffic movements and site access will remain as they currently are, at approximately 300 movements per year

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Site Assessment of BS02 – Marnhull Quarry Extension

Appraisal of Site – Using Site Assessment Criteria as set out in The Bournemouth, Dorset and Poole Minerals Strategy 2014

In Appendix 1 (p. 242) of the Minerals Strategy a methodology for assessing sites nominated or identified for consideration as future quarry sites is set out. Each site is assessed against 25 criteria, C1 to C25, reflecting the potential environmental, economic and social impacts/benefits of its development. Assessment is qualitative, and each criterion is given a score as a colour, representing its expected impact, with or without mitigation. These criteria and their responses are set out below, along with further comments from relevant consultees.

Topic: Biodiversity.

SA Objective: To maintain, conserve and enhance biodiversity.

Criterion C1 - Impact on European/international designations.	D
No comment Dorset County Council 7Nov13	
Criterion C2 - Impact on areas used by Annex 1 bird species.	D
No comment Dorset County Council 7Nov13	
Criterion C3 - Impact on national designations.	D
No comment Dorset County Council 7Nov13	
Criterion C4 - Impact on protected species.	D
No comment Dorset County Council 7Nov13	
Criterion C5 - Impact on local recognitions/designations, including ancient woodland and veteran trees.	D
No comment Dorset County Council 7Nov13	
Possible Mitigation: Further assessment will be carried out as part of any planning application, including detailed assessment of potential biodiversity impacts and appropriate responses and mitigation. Appropriate mitigation of any impacts will be required as part of any planning permission granted. No further action considered necessary at this stage.	

Topic: Geodiversity

SA Objective: To maintain, conserve and enhance geodiversity.

Criterion C6 - Impact on geodiversity.	D
This extension would continue an existing exposure of the Clavellata Beds of the Corallian Group. This should be considered an enhancement to an existing LGS at this site. Dorset County Council 6.11.2013	
Possible Mitigation: None specifically required, but provision should be made so that it will be possible to arrange such visits on request.	

Topic: Landscape

SA Objective: To maintain, conserve and enhance the landscape, including townscape, seascape and the coast.

Criterion C7 – Impact on designated landscapes.	D
No significant impact/negligible Dorset County Council 23 October 2013	
Criterion C8 – What is landscape capacity to accommodate proposed development.	C

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Site Assessment of BS02 – Marnhull Quarry Extension

May be some adverse impacts but if mitigation designed to be sympathetic these can be minimised to cause no significant adverse effects.
Dorset County Council 23 October 2013

Criterion C9 – Impact on historic landscapes.

C

The site lies in the Blackmore Vale. Seemingly much of the Vale remained wooded until the Middle Ages, and so the field system on and around the site may well be Medieval in origin. I am not aware of anything particularly significant about these fields, hence category C seems appropriate.

Steve Wallis 30/10/2013

Possible Mitigation:

Further assessment will be carried out as part of any planning application, including detailed assessment on the landscape resulting from extracting mineral from this site. No further action considered necessary at this stage.

Topic: Cultural Heritage

SA Objective: To maintain, conserve and enhance the historic environment (including conservation areas, historic parks and gardens and other locally distinctive features and their settings).

Criterion C10 – Impact on historic buildings.

D

Listed buildings too far away to be affected. Assessment grade D: no significant impact.

Dorset County Council 13 November 2013

Criterion C11 – Impact on archaeology.

A

→

D

According to the Dorset Historic Environment Record, human remains were found nearby during quarrying about 200 years ago. From the description, they sound like part of a Christian cemetery of an indeterminate period. Archaeological evaluation would be appropriate before determination of a planning application to indicate the likely archaeological impact of quarrying and the appropriate mitigation. Potentially the impact could be anywhere between categories A and D.

Dorset County Council 30/10/2013

Possible Mitigation:

Full assessment will be carried out as part of any planning application. This will include assessment of heritage impacts and identification of appropriate mitigation.

It is considered that the Development Management policies of the Minerals Strategy, especially Policy DM 7, together with the policy stance of the National Planning Policy Framework, provide adequate protection to any archaeology that may be found during development.

No further action considered necessary at this stage.

Topic: Water

SA Objective: To maintain, conserve and enhance the quality of ground, surface and sea waters and manage the consumption of water in a sustainable way.

Criterion C12 - Impact on hydrogeology or groundwater.

C

No impact on SPZs and no licensed abstraction points within 500m. Site is within a Secondary Aquifer – rating of C. Hydrogeological Risk Assessment required.

Environment Agency 27 February 2013

Criterion C13 – Impact on surface waters.

B

Site boundary is within 250m of the Chivrick's Brook – rating of B.

Environment Agency 27 February 2013

Criterion C14 - Impact on flooding or coastal stability.

D

Site is entirely in FRZ 1.

Dorset County Council 24 October 2013

Possible Mitigation:

Hydrological assessment will be required as part of any planning application, with measures to protect groundwater and surface water flows to be identified and implemented. No further action considered necessary at this stage.

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Site Assessment of BS02 – Marnhull Quarry Extension

Topic: Soil

SA Objective: To maintain, conserve and enhance soil quality

Criterion C15 - Impact on existing soils or land type (including BMV land).	C
<p>Site is good to moderate quality agricultural land. Soils will be protected during working and the site restored after working. Dorset County Council 24 October 2013</p>	
<p>Possible Mitigation: Soils will be protected during working, according to guidance and best practice.</p>	

Topic: Air Quality

SA Objective: To protect and improve air quality and reduce the impacts of noise

Criterion C16 – Impact on AQMAs.	D
<p>No AQMAs directly affected. Dorset County Council 24 October 2013</p>	
<p>Possible Mitigation: Noise mitigation will be addressed at the planning application stage, with appropriate mitigation to be included in the development of the site.</p>	

Topic: Material Assets (Economic development)

SA Objectives: To conserve and safeguard mineral resources.

To promote the use of alternative materials

To encourage sustainable economic growth

To provide an adequate supply of minerals to meet society's needs.

Criterion C17 - Impact on economic development.	D
<p>The site is expected to have a positive impact on the provision of mineral and can therefore be expected to benefit the local economy, in addition to creating direct employment during the working of the site. Mineral working has the potential to negatively affect businesses in the locality, e.g. through contributing to traffic congestion, noise, visual and perception related issues. Impacts will be identified as part of any planning application and mitigation during working will be applied where necessary – e.g. holding back quarry traffic during peak travel times, further screening. Restoration to agriculture will maintain an on-going positive benefit. Dorset County Council 24 October 2013</p>	
<p>Possible Mitigation: Full assessment will be carried out as part of any planning application, identifying potential impacts and appropriate responses and mitigation. Appropriate mitigation will be required as part of any planning permission granted. No further action considered necessary at this stage.</p>	

Topic: Social Considerations - Human Health and Amenity, Airport Safety and Cumulative Impacts

SA Objectives: To sustain the health and quality of life of the population

Criterion C18 - Impact on Sensitive Human Receptors.	E
<p>Closest property is Toogoods farm, just over 500m to the north east. Dorset County Council 24 October 2013</p>	
Criterion C19 - Impact on existing settlements.	E
<p>Nearest settlement is Marnhull, at approximately 800m to north west. Dorset County Council 24 October 2013</p>	
<p>Possible Mitigation: Further assessment will be carried out as part of any planning application, identifying potential impacts and appropriate responses and mitigation. Appropriate mitigation (e.g. visual and noise attenuation bunds and reducing noise at source where possible and appropriate) will be identified and required as part of any development of the site. No further action considered necessary at this stage.</p>	

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Site Assessment of BS02 – Marnhull Quarry Extension

Criterion C20 - Impact on airport safety	E
<p>Site is approximately 37km distant from Bournemouth airport, no wet working/restoration proposed. Dorset County Council 24 October 2013</p>	

Criterion C21 - Effects on cumulative impacts.	C
<p>Site proposal is an extension to an existing site in an area where there is other mineral working –two building stone quarries approximately 1.5km to the north at Todber – but the amounts of traffic generated are relatively small. In terms of cumulative impacts for mineral working, rating of C is justified.</p> <p>The proposal is within 5Km of sites allocated in Sturminster Newton for residential development in the Pre -Submission draft North Dorset Local Plan Nov 2013. Traffic arising from the new development will add to general traffic levels on the B3092. Dorset County Council 24 October 2013 and December 2013.</p> <p>Possible Mitigation: The proposal will include assessment of and mitigation for visual and noise impacts, following guidance and best practice, to limit cumulative effects. This may include advance tree planting. To minimise traffic impacts, following a Transport Assessment at the planning application stage, measures such as holding back lorry traffic during peak traffic times could be used if necessary.</p>	

Topic: Social Considerations – Carbon Emissions

SA Objectives: To adapt to and mitigate the impacts of climate change

Criterion C22 - Impact on carbon emissions	B
<p>Site will rely on lorry transport. Dorset County Council 24 October 2013</p> <p>Possible Mitigation: Guidance and best practice will be followed, to minimise carbon emissions as far as is practicable.</p>	

Topic: Social Considerations

SA Objectives: To enable safe access to countryside and open spaces

Criterion C23 – Impact on recreational land	D
<p>Site is agricultural land, no formal or informal recreational use. Dorset County Council 24 October 2013</p>	
Criterion C24- Impact on public rights of way	D
<p>No rights of way on or immediately adjacent to site, but bridleway passes close to eastern edge. Dorset County Council 24 October 2013</p> <p>Possible Mitigation: Potential impacts on footpath/public access will be identified at planning application stage, and appropriate mitigation identified.</p>	

Criterion C25 - Are the access proposals acceptable	C
<p>Entrance to the site will be gained via an existing, suitable, access onto Whiteways Lane. From here vehicles will use the local rural road network to access the B3092. While this road does pass through some local settlements, the very low numbers of predicted movements, less than one a day, mean that the site has been given a C rating. Dorset County Council 29 October 2013</p> <p style="text-align: center;">-----</p> <p>With projected traffic movements remaining at the current level and the existing access being used, there are no highway objections. Dorset County Council December 2016</p>	

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Site Assessment of BS02 – Marnhull Quarry Extension

Initial Site Assessment including Input from Specialist Consultees

Traffic/Access	
Highways England	22 December 2016: "We note that the three proposed (building stone) sites are all extensions of small scale sites. The extensions are all proposed to be the extraction of additional material as follow-on working from the existing extraction with no consequent increase in output. As such we agree that they are unlikely to impact on the SRN."

Public Rights of Way	
DCC Rights of Way	<i>Comments requested/awaited.</i>

Nature Conservation – Biodiversity Impacts	
Natural England comments	None.
Dorset Wildlife Trust	None.

Protection of Water Resources (Hydrology/groundwater/ surface water management and flooding)	
Environment Agency	<p>2015: No objection to proposals and no further comments over and above those previously made in earlier consultations.</p> <p>Dec 2013 We agree with the criteria classification C12, C13 and C14 for this site, which is given in the supporting documents.</p> <p>Our previous comments provided on the 12 Dec 2008, 27 Feb 2013 and 4 Nov 2013 are still relevant. However, we wish to make the following additional comments:</p> <p>We are aware that an SEA is being prepared but urge the applicant to ensure that the following issues are included: -</p> <ul style="list-style-type: none"> Proposals which maximise the wetland restoration opportunities at each site. Water Framework Assessments (WFD) as necessary and will contribute to the relevant River Basin Plan objectives. Proposals should maximise the overall wetland gains. EIA/Restoration proposals should incorporate gain of wetland features which will contribute to the aspirations of the England Biodiversity 2020 Strategy. <p>National and European Conservation Designations Natural England must be consulted under Conservation of Habitats and Species Regulations (2010) and the CROW Act (2000) respectively for sites with a zone of influence that includes a European (SAC/SPA/Ramsar) or nationally (SSSI) designated conservation site. As many of these sites are designated for their wetland interest, we would stress the importance of assessing the hydrological impacts of the development on the integrity of the designated sites and/or their qualifying features.</p> <p>Ecological Assessment All applications should be accompanied by an assessment of the impacts on important ecological resources within the zone of influence of the proposals. We assume that this will be submitted for all applications as standard in the form of an EIA. For non-EIA applications we would expect to see a standalone full ecological assessment. This should include potential impacts on Local Nature Reserves and SNCIs which are located within the zone of influence of the sites.</p> <p>Hydrological assessment We would expect all mineral applications to be supported by a hydrological assessment in order to demonstrate no significant negative impact on hydrogeological connectivity and pathways and surface water flow regimes. This is to protect river and wetland habitats and ecology, and also river users.</p> <p>We require an assessment to demonstrate that the proposed restoration for each site (for example, agricultural inert waste) 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>

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Protection of Water Resources (Hydrology/groundwater/ surface water management and flooding)	
	<p>River Corridor Buffer Zone</p> <p>In order to minimise developed encroachment and impacts on river corridors and their associated wildlife, a no go buffer zone must be provided alongside any watercourses or wetland features of interest. The required width of the buffer zone will need to be determined subject to the provision of further site information. No activities associated with any stage of the mineral extraction must occur in this buffer zone, including light spill.</p> <p>The Natural Environment and Rural Communities Act which requires Local Authorities to have regard to nature conservation and article 10 of the Habitats Directive which stresses the importance of natural networks of linked corridors to allow movement of species between suitable habitats, and promote the expansion of biodiversity.</p> <p>WFD A WFD Assessment may be required.</p> <p>EA estimate of assessment criteria C1-C4 - See note 1 at bottom of this document.</p> <p>C12 – C. Site is within a Secondary Aquifer.</p> <p>C13 – B. Site boundary is within 250m of the Chivrick’s Brook.</p> <p>Oct 2013 C12: Criteria classification ‘C’ because site is in a Secondary Aquifer. A Hydrogeological risk assessment is required including assessment of the potential impact on watercourse west of the site. Historic landfill by Marnhull Stone Ltd should be assessed as part of the risk assessment.</p> <p>C13: Criteria classification ‘B’ because there is a watercourse approximately 180m from the site.</p> <p>C14: Criteria classification ‘D’.</p> <p>Studies required/ considerations: Protect and enhance water features adjacent site, Chivricks Brook.</p> <ul style="list-style-type: none"> • Ecological study required • Protect and enhance water features in site. • Opportunities for river restoration/project partnership projects • Flood Risk Assessment • Hydrogeological Risk Assessment • Water Framework Directive Assessment may be required <p>Feb 2013 EA 12/12/2008 response still relevant, together with the following additional comments:</p> <p>Studies required/ considerations</p> <ul style="list-style-type: none"> • Flood Risk Assessment • Hydrogeological Risk Assessment <p>Dec 2008 No objection general comments</p>
<p>Lead Local Flood Authority (LLFA) - DCC</p>	<p>BS02 Marnhull Quarry extension Site Assessment</p> <p>No grounds for objection, subject to detail: The site falls within Flood Zone 1 (low risk – fluvial flooding) according to the Environment Agency’s relevant flood modelling. Equally the site is not shown to be at theoretical risk of surface water flooding, by relevant mapping, although it is within 200m (west) of significant flood risk (both fluvial & surface water) associated with a tributary of the Main River Stour (Chilvrick’s Brook – Ordinary Watercourse).</p>

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Protection of Water Resources (Hydrology/groundwater/ surface water management and flooding)	
	<p>Whilst the site would appear to be elevated well above this flood risk, a site specific strategy for surface water management should be requested to ensure that proposed land use does not exacerbate such risk downstream. As such the proposed activity should comply with the recommendations of the NPPF. Prior Land Drainage Consent may be required from DCC as relevant LLFA, for any works offering an obstruction to flow within a channel or ditch with the status of Ordinary Watercourse.</p>

Historic Environment	
Historic England Comments	<p>2015: Site Assessment –</p> <p>“According to the Dorset Historic Environment Record, human remains were found nearby during quarrying about 200 years ago. From the description, they sound like part of a Christian cemetery of an indeterminate period. Archaeological evaluation would be appropriate before determination of a planning application to indicate the likely archaeological impact of quarrying and the appropriate mitigation. Potentially the impact could be anywhere between categories A and D”. (Criterion C11 – Impact on archaeology. Dorset County Council 30/10/2013).</p> <p>If the impact was “A” substantial harm, then this site, I assume, would be unacceptable in principle? As such, should this heritage consideration be addressed before the principle of a site is agreed and an allocation included in a development plan?</p> <p>I note that the SA appears to contradict this view of the DCC (further assessment is not required at this plan making stage). The LA may wish to clarify this matter.</p> <p>2014: MSP BS02 - Marnhull Quarry extension</p> <p>I note that an archaeological impact assessment is required before the effect of the proposal can be fully established and any principal determined.</p>

Agricultural Land Classification	
DCC Minerals Team	Grade 3