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Spatial Context and Sites Report

Annex A

HEREFORDSHIRE MINERALS AND WASTE LOCAL PLAN
DRAFT PLAN

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Minerals Site Assessment Annex

This annex provides the details held for each of the minerals sites assessed in the preparation of the Herefordshire MWLP.

Each of the sites has been considered using a combination of GIS data, observance on site, and other information that has been available through the plan making process. An overview of viability, availability and deliverability matters are provided for each site. Wherever possible, a clear and demonstrable evidence base is used, however in considering some matters, such as human population constraints, the conclusion will be based on professional judgement.

The overarching criteria used are described in Table M00. In addition, each site has been considered through the use of GIS data, as explained within the main body of the Spatial Context and Sites Report.

Table M00 – Overview for each site, description of the matters considered

Name		Explanation	Notes
Viability		Is the land/site likely to contain a viable source of mineral, the extraction of which could contribute to future requirements for minerals?	This will rely principally upon the BGS data.
Availability		Is the land/site likely to be available for development within the plan period?	Ideally this is demonstrated through landowner support, but it might be a reflection of a lack of known physical constraints as landowner position can change over time
Deliverability	Infrastructure constraint	Are there any major infrastructure constraints such that development is unlikely to be deliverable?	These will vary between locations, but are likely to focus on access and highways constraints.
	Human constraint	Are there likely to be any significant human population constraints such that development is unlikely to be deliverable?	These will vary between locations and may not simply be proximity of residential property to a site.
	Environmental constraint	Are there any overriding environmental constraints such that development is unlikely to be deliverable?	This will focus on European and national designation such as SPA, SAC, Ramsar Sites, SPZ 1, and AONB.
Site visit notes			

M01: Stretton Sugwas Quarry (Hereford Quarry) Located north west of Hereford

Site is restored through naturally regenerated public open space and lake, with no reasonable potential for future mineral extraction.

Table M01: Stretton Sugwas Quarry (Hereford Quarry)

Criteria		Notes
Viability		Site is located on the edge of sand and gravel resource identified through BGS data. Existing site is not believed to contain any remaining resource.
Availability		Site is not promoted by landowner or operator. Site is restored and largely used for outdoor recreation with public access.
Deliverability	Infrastructure constraint	Ongoing gas monitoring of the landfill site. More than 500m from 'A' or 'B' class road.
	Human constraint	Housing adjacent to site entrance. An academy within 500m. Within 250m of a listed building.
	Environmental constraint	Within 5km of the River Wye SAC. The site contains ancient and semi-natural woodland. Two LWS pools at the workings. Grade 2 agricultural land. Within 250m of the Yazor Brook. Within flood zone 3.
Date visited		02.11.17
Site visit notes		Former landfill site closed and fenced off, not accessed. Rest of site appears to have been left to naturally regenerate.

Photograph M01_1: Edge of landfill



Photograph MO1_2: Naturally regenerated former area of mineral extraction



Herefordshire County Council Waste and Minerals Site Assessments

Site: M01 - Stretton Sugwas Quarry (Hereford Quarry)

Sand and gravel - Restored



Site Area: 75.09 ha
Postcode: HR4 7QD
Easting: 345285
Northing: 242277
Site Visit Date: 01.11.2017

Site is restored through naturally regenerated public open space and lake, with no reasonable potential for future mineral extraction.

Site Criteria

Site Size:
Natura2000:
UK Ecological Sites:
Local Ecological Sites:
Area of Outstanding Natural Beauty and National Parks:
Agricultural Land Classification:
Air Quality Management Areas:
Road Access:



Sensitive Buildings:
Cultural and Historical Sites:
Airports and Airfields:
MOD Low Fly Zones:
Major River:
Flood Zones:
Source Protection Zones:
Walking Trail:



M02: Lugg Bridge Quarry Located north east of Hereford

Mineral extraction has ceased. Site is used for waste purposes although it would also be used to process sand and gravel from Upper Lyde Quarry (M03).

Table M02: Lugg Bridge Quarry

Criteria		Notes
Viability		Mineral resource has been worked out and site is now used for recycling CDE waste and concrete batch plant.
Availability		Approval was given in 2005 for restoration of a redundant sand and gravel quarry. Permission in 2013 for change of use to ready mixed concrete plant. Site is not promoted by landowner and no knowledge of any further mineral resource.
Deliverability	Infrastructure constraint	None identified.
	Human constraint	None identified.
	Environmental constraint	Within 5km of River Wye SAC. Within 250m of the River Lugg SSSI. Within 250m of the Lugg and Little Lugg rivers. Within flood zone 3.
Date visited		03.11.17
Site visit notes		Visit for waste purposes confirmed that the site is finished for minerals.

Photograph M02_1: Construction, demolition and excavation waste recovery plant



Herefordshire County Council Waste and Minerals Site Assessments

Site: M02 - Lugg Bridge Quarry

Sand and gravel - Closed



Site Area: 3.13 ha
Postcode: HR1 3LZ
Easting: 353701
Northing: 242600
Site Visit Date: 02.11.2017

Mineral extraction has ceased. Site is used for waste purposes although it would also be used to process sand and gravel from Upper Lyde Quarry (M03).

Site Criteria

Site Size:
Natura2000:
UK Ecological Sites:
Local Ecological Sites:
Area of Outstanding Natural Beauty and National Parks:
Agricultural Land Classification:
Air Quality Management Areas:
Road Access:

	Sensitive Buildings:	
	Cultural and Historical Sites:	
	Airports and Airfields:	
	MOD Low Fly Zones:	
	Major River:	
	Flood Zones:	
	Source Protection Zones:	
	Walking Trail:	

M03a: Upper Lyde Quarry Located north of Hereford

A consented site for sand and gravel, the working plan for which sees the site complete within 5 years. The site is not currently operational, but is due to start extraction in 2018 following completion of highway improvements.

Table M03a: Upper Lyde Quarry

Criteria		Notes
Viability		Consented site for sand and gravel extraction.
Availability		Consent granted for a square area in the centre of the field given for 10 years although working plan sees the site complete in five.
Deliverability	Infrastructure constraint	Highway improvements are due to be implemented enabling site to re-open.
	Human constraint	Housing nearby.
	Environmental constraint	Within 5km of River Wye SAC. Grade 2 agricultural land.
Date visited		03.11.17
Site visit notes		Agricultural field, consented area is an extension of the existing delve. Single track lanes to access the site, linking to A49 and A4110. Housing around the site.

Photograph M03a_1: View looking across site M03b toward consented site



Herefordshire County Council Waste and Minerals Site Assessments

Site: M03a - Upper Lyde Quarry

Sand and gravel - Active



Site Area: 2.8 ha
Postcode: HR4 8AF
Easting: 349242
Northing: 244759
Site Visit Date: 03.11.2017

A consented site for sand and gravel, the working plan for which sees the site complete within 5 years. The site is not currently operational, but is due to start extraction in 2018 following completion of highway improvements.

Site Criteria

Site Size:
Natura2000:
UK Ecological Sites:
Local Ecological Sites:
Area of Outstanding Natural Beauty and National Parks:
Agricultural Land Classification:
Air Quality Management Areas:
Road Access:

	Sensitive Buildings:	
	Cultural and Historical Sites:	
	Airports and Airfields:	
	MOD Low Fly Zones:	
	Major River:	
	Flood Zones:	
	Source Protection Zones:	
	Walking Trail:	

M03b: Land adjacent Upper Lyde Quarry (east) Located north of Hereford

The site is an agricultural field and has been proposed for sand and gravel extraction in the Call for Sites.

Table M03b: Land adjacent Upper Lyde Quarry (east)

Criteria		Notes
Viability		Together with sites M03c and M03d, there are c 700,000 tonnes of reserve to be worked at 50,000 tpa over 14 years.
Availability		The site has been proposed in the Call for Sites.
Deliverability	Infrastructure constraint	Water mains cross the site which may be impacted by the proposal.
	Human constraint	Housing closer to this area of the field than to M03a.
	Environmental constraint	Within 5km of River Wye SAC. Grade 2 agricultural land.
Date visited		03.11.17
Site visit notes		Agricultural field, through which the access track for M03a would pass. Single track lanes to access the site, linking to A49 and A4110. Housing closer to this area of the field than the consented site.

Photograph M03b_1: View looking across site M03b toward consented site



Herefordshire County Council Waste and Minerals Site Assessments

Site: M03b - Land adjacent Upper Lyde Quarry (east)

Sand and gravel - Proposed



Site Area: 1.97 ha
Postcode: HR4 8AF
Easting: 349339
Northing: 244841
Site Visit Date: 02.11.2017

The site is an agricultural field and has been proposed for sand and gravel extraction in the Call for Sites.

Site Criteria

Site Size:
Natura2000:
UK Ecological Sites:
Local Ecological Sites:
Area of Outstanding Natural Beauty and National Parks:
Agricultural Land Classification:
Air Quality Management Areas:
Road Access:

	Sensitive Buildings:	
	Cultural and Historical Sites:	
	Airports and Airfields:	
	MOD Low Fly Zones:	
	Major River:	
	Flood Zones:	
	Source Protection Zones:	
	Walking Trail:	

M03c: Land adjacent Upper Lyde Quarry (west) Located north of Hereford

The site is an agricultural field and has been proposed for sand and gravel extraction in the Call for Sites.

Table M03c: Land adjacent Upper Lyde Quarry (west)

Criteria		Notes
Viability		Together with sites M03b and M03d, there are c 700,000 tonnes of reserve to be worked at 50,000 tpa over 14 years.
Availability		The site has been proposed in the Call for Sites. When access improvements for site M03a have been completed, the site can be worked.
Deliverability	Infrastructure constraint	Water mains cross the site which may be impacted by the proposal.
	Human constraint	Housing closer to this area of the field than to M03a.
	Environmental constraint	Within 5km of River Wye SAC. Grade 2 agricultural land.
Date visited		03.11.17
Site visit notes		Agricultural field the other side of the existing delve to M03a. Would want to see access to the site via the consented route.

No photograph

Herefordshire County Council Waste and Minerals Site Assessments

Site: M03c - Land adjacent Upper Lyde Quarry (west)

Sand and gravel - Proposed



Site Area: 1.38 ha
Postcode: HR4 8AF
Easting: 349152
Northing: 244689
Site Visit Date: 01.11.2017

The site is an agricultural field and has been proposed for sand and gravel extraction in the Call for Sites.

Site Criteria

Site Size:
Natura2000:
UK Ecological Sites:
Local Ecological Sites:
Area of Outstanding Natural Beauty and National Parks:
Agricultural Land Classification:
Air Quality Management Areas:
Road Access:

	Sensitive Buildings:	
	Cultural and Historical Sites:	
	Airports and Airfields:	
	MOD Low Fly Zones:	
	Major River:	
	Flood Zones:	
	Source Protection Zones:	
	Walking Trail:	

M03d: Land north east of Upper Lyde Quarry Located north of Hereford

The site is an agricultural field and has been proposed for sand and gravel extraction in the Call for Sites.

Table M03d: Land adjacent Upper Lyde Quarry (east)

Criteria		Notes
Viability		Together with sites M03c and M03d, there are c 700,000 tonnes of reserve to be worked at 50,000 tpa over 14 years.
Availability		The site has been proposed in the Call for Sites. When access improvements for site M03a have been completed, the site can be worked.
Deliverability	Infrastructure constraint	Water mains cross the site which may be impacted by the proposal. More than 500m from 'A' or 'B' class road
	Human constraint	None identified.
	Environmental constraint	Within 5km of River Wye SAC.
Date visited		03.11.17
Site visit notes		Agricultural field. Single track lanes to access the site, linking to A49 and A4110. Separated from M03a, b and c by a local road, but is further away from housing than other proposed extensions.

No photograph

Site: M03d - Land north east of Upper Lyde Quarry

Sand and gravel - Proposed



Site Area: 1.25 ha
Postcode: HR4 8AF
Easting: 349423
Northing: 244982
Site Visit Date: 02.11.2017

The site is an agricultural field and has been proposed for sand and gravel extraction in the Call for Sites.

Site Criteria

Site Size:
Natura2000:
UK Ecological Sites:
Local Ecological Sites:
Area of Outstanding Natural Beauty and National Parks:
Agricultural Land Classification:
Air Quality Management Areas:
Road Access:

	Sensitive Buildings:	
	Cultural and Historical Sites:	
	Airports and Airfields:	
	MOD Low Fly Zones:	
	Major River:	
	Flood Zones:	
	Source Protection Zones:	
	Walking Trail:	

M04: Shobdon Quarry Located north west of Leominster

A sand and gravel site which is currently mothballed but which contains unworked reserves and mineral processing plant on site. Tarmac intends to re-open the site early in the Plan period.

Table M04: Shobdon Quarry

Criteria		Notes
Viability		The site contains c. 900,000 tonnes of unworked sand and gravel.
Availability		The company has recently undertaken environmental surveys to support a potential reopening of the site in the next 12 to 18 months.
Deliverability	Infrastructure constraint	More than 500m from 'A' or 'B' class road. Within 5km of Shobdon Airfield.
	Human constraint	None identified.
	Environmental constraint	Grade 2 agricultural land. Within 250m of Pinsley Brook. Within flood zone 3.
Date visited		01.11.17
Site visit notes		Good road infrastructure, lies alongside industrial estate and airfield and agricultural land. S&G infrastructure on site, looks dilapidated but site rep advised that it has been surveyed and is in good order with some maintenance and repair. It was last used in 2006. Site is largely overgrown, with lots of poplar trees. Old conveyor still in situ. Piles of gravel throughout the site, silt lagoon visible. Large lake of groundwater at one end, which drains out naturally. S&G used for concrete making only, not building sand. c.50ft depth remaining = 1.2million tonnes.

Photograph M04_1: Mineral processing plant on site



Photograph M04_2: Phase 1 restoration



Site: M04 - Shobdon Quarry

Sand and gravel - Inactive



Site Area: 18.13 ha
Postcode: HR6 9LA
Easting: 339724
Northing: 260430
Site Visit Date: 02.11.2017

A sand and gravel site which is currently mothballed but which contains unworked reserves and mineral processing plant on site. Tarmac intends to re-open the site early in the Plan period.

Site Criteria

Site Size:
Natura2000:
UK Ecological Sites:
Local Ecological Sites:
Area of Outstanding Natural Beauty and National Parks:
Agricultural Land Classification:
Air Quality Management Areas:
Road Access:

	Sensitive Buildings:	
	Cultural and Historical Sites:	
	Airports and Airfields:	
	MOD Low Fly Zones:	
	Major River:	
	Flood Zones:	
	Source Protection Zones:	
	Walking Trail:	

M05a: Wellington Quarry Located north of Hereford, east and south of Wellington

An active sand and gravel quarry with phased restoration alongside mineral working, plus third party operated ready mixed concrete plant, concrete blockworks and a dedicated railhead. Proposal to extend working area to be submitted in 2018.

Table M05a: Wellington Quarry

Criteria		Notes
Viability		An active quarry with resource remaining.
Availability		Operational, due to cease winning and working of mineral by 31 December 2026.
Deliverability	Infrastructure constraint	A49 is a busy road and turning right onto it is tricky. Routes to the east are restricted.
	Human constraint	Some housing to the south. Within 500m of a primary school. Within 250m of eight listed buildings.
	Environmental constraint	Within 5km of River Wye SAC. Within 250m of River Lugg SSSI. Grade 2 agricultural land. Within 250m of the River Lugg. Within flood zone 3.
Date visited		02.11.17
Site visit notes		Good road access via A49, though it is a busy road and turning R onto it is tricky. Also routes to the east are restricted. Entrance road can flood in winter, in which event operator uses entrance through industrial estate and maintains a c.2 week stockpile. Wide range of sand and gravel extracted on site which are both delivered by Tarmac and collected by customers. Staff/equipment on site: 1 x excavator; 1 x dump truck; 1 x plant operator (wash plant); 2 x shovel operators; 1 x supervisor; 1 x site manager. Opens at 7am, lorries arrive from 6.30. Tidy site, fairly open and flat. Digging to about 3 m, c.1m each of top soil and sub soil. Surrounding land is agricultural, village, FP and industrial estate. Phase 1 = complete/restored. Phase 2 = working now. Phase 3 = c18/24months wkg. Railhead: crushed rock from Tarmac quarries in Wales (Dolyhir and Gore) to London; range in size from dust to 14mm, crushed and ready to go on train; up to 3 trains/day at c.1630, 2200 and 0200; 30,000 storage but looking to increase, about 20 wagons carrying 75t each. Concrete block plant: called egg layer; uses 6mm and sand from site plus dust from Wales; blocks left to cure under cover for min 7 days, then stored outside; rejects used for road laying etc on site.

Photograph M05a_1: Minerals processing plant on site



Photograph M05a_2: Moreton-on-Lugg rail head



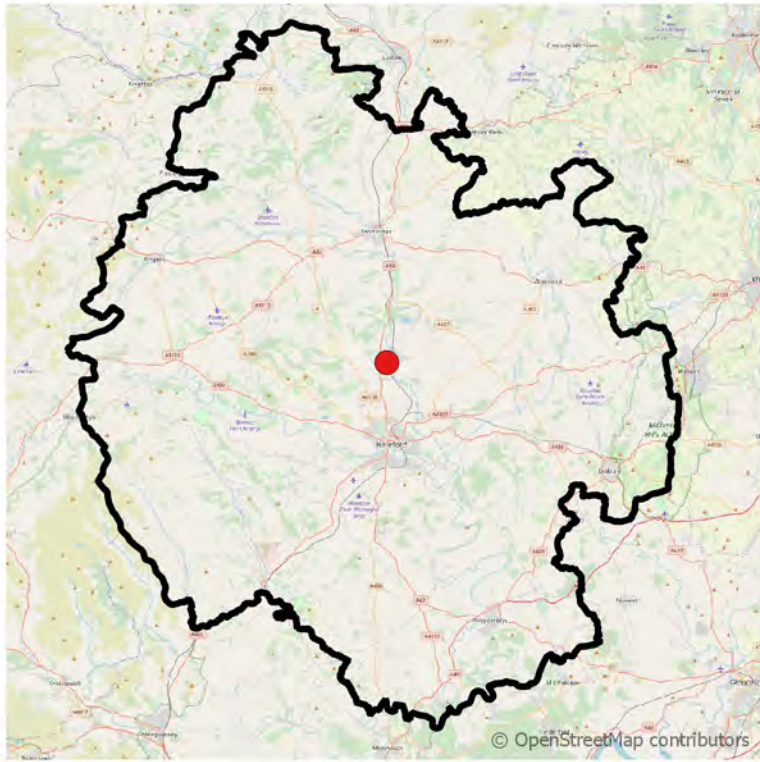
Photograph M05a_3: Working face



Herefordshire County Council Waste and Minerals Site Assessments

Site: M05a - Wellington Quarry

Sand and gravel - Active



Site Area: 152.54 ha
Postcode: HR4 8BY
Easting: 350656
Northing: 247245
Site Visit Date: 02.11.2017

An active sand and gravel quarry with phased restoration alongside mineral working, plus third party operated ready mixed concrete plant, concrete blockworks and a dedicated railhead. Proposal to extend working area to be submitted in 2018.

Site Criteria

Site Size:
Natura2000:
UK Ecological Sites:
Local Ecological Sites:
Area of Outstanding Natural Beauty and National Parks:
Agricultural Land Classification:
Air Quality Management Areas:
Road Access:

	Sensitive Buildings:	
	Cultural and Historical Sites:	
	Airports and Airfields:	
	MOD Low Fly Zones:	
	Major River:	
	Flood Zones:	
	Source Protection Zones:	
	Walking Trail:	

M05b: Land adjacent Wellington Quarry (west) Located north of Hereford, south east of Wellington

Agricultural land proposed for working of sand and gravel in the Call for Sites.

Table M05b: Land adjacent Wellington Quarry (west)

Criteria		Notes
Viability		Site contains sand and gravel resources.
Availability		Site has been proposed in the Call for Sites.
Deliverability	Infrastructure constraint	A foul sewer traverses the site, which may be impacted by the proposal. The A49 is a busy road and turning right onto it is tricky. Routes to the east are restricted.
	Human constraint	Within 500m of a primary school. Within 250m of five listed buildings.
	Environmental constraint	Within 5km of River Wye SAC. Grade 2 agricultural land. Within 250m of the Wellington Brook. Within flood zone 3.
Date visited		02.11.17
Site visit notes		Good road access via A49, though it is a busy road and turning R onto it is tricky. Also routes to the east are restricted. Agricultural land, fairly flat, tree line through the middle. Bounded to north by FP and ditch, to east and south by M05a, to west by A49 (with bus stop) and village, including listed buildings, which overlook the site.

Photograph M05b_1: View of site, A49 and front properties of Wellington



Photograph M05b_2: Footpath (and ditch) run along northern boundary of site



Herefordshire County Council Waste and Minerals Site Assessments

Site: M05b - Land adjacent Wellington Quarry (west)

Sand and gravel - Proposed



Site Area: 8.11 ha
Postcode:
Easting: 350168
Northing: 247927
Site Visit Date: 02.11.2017

Agricultural land adjacent to A49 proposed for sand and gravel extraction in the Call for Sites.

Site Criteria

Site Size:
Natura2000:
UK Ecological Sites:
Local Ecological Sites:
Area of Outstanding Natural Beauty and National Parks:
Agricultural Land Classification:
Air Quality Management Areas:
Road Access:

	Sensitive Buildings:	
	Cultural and Historical Sites:	
	Airports and Airfields:	
	MOD Low Fly Zones:	
	Major River:	
	Flood Zones:	
	Source Protection Zones:	
	Walking Trail:	

M05c: Land adjacent Wellington Quarry (north west) Located north of Hereford, east of Wellington

Agricultural field adjacent to small industrial estate and the A49 proposed for sand and gravel extraction in the Call for Sites.

Table M05c: Land adjacent Wellington Quarry (north west)

Criteria		Notes
Viability		Site contains sand and gravel resources. Estimated reserves are c.1,250,000 tonnes.
Availability		Site has been proposed in the Call for Sites.
Deliverability	Infrastructure constraint	The A49 is a busy road and turning right onto it is tricky. Routes to the east are restricted.
	Human constraint	Within 500m of a primary school. Within 250m of three listed buildings. Footpath within the site.
	Environmental constraint	Within 5km of River Wye SAC. Within 250m of the River Lugg SSSI. Part grade 1 agricultural land. Within 250m of the River Lugg. Within flood zone 3.
Date visited		02.11.17
Site visit notes		Good road access via A49, though it is a busy road and turning R onto it is tricky. Also routes to the east are restricted. Fairly flat arable land with small industrial estate set in. FP crosses north western corner and runs along southern boundary. Would be visible from A49 and adjacent housing.

Photograph M05c_1: View of site



Photograph M05c_2: Access to site



Herefordshire County Council Waste and Minerals Site Assessments

Site: M05c - Land adjacent Wellington Quarry (north west)

Sand and gravel - Proposed



Site Area: 20.79 ha
Postcode: HR4 8BY
Easting: 350329
Northing: 248255
Site Visit Date: 03.11.2017

Agricultural field adjacent to small industrial estate and the A49 proposed for sand and gravel extraction in the Call for Sites.

Site Criteria

Site Size:
Natura2000:
UK Ecological Sites:
Local Ecological Sites:
Area of Outstanding Natural Beauty and National Parks:
Agricultural Land Classification:
Air Quality Management Areas:
Road Access:

	Sensitive Buildings:	
	Cultural and Historical Sites:	
	Airports and Airfields:	
	MOD Low Fly Zones:	
	Major River:	
	Flood Zones:	
	Source Protection Zones:	
	Walking Trail:	

M05d: Land adjacent Wellington Quarry (Dinmore Manor Estate)

Located north of Hereford, north east of Wellington

Agricultural field lying alongside the River Lugg proposed for sand and gravel extraction in the Call for Sites.

Table M05d: Land adjacent Wellington Quarry (Dinmore Manor Estate)

Criteria		Notes
Viability		Site contains sand and gravel resources. Estimated reserves are c.1,000,000 tonnes.
Availability		Site has been proposed in the Call for Sites.
Deliverability	Infrastructure constraint	The A49 is a busy road and turning right onto it is tricky. Routes to the east are restricted. Utility infrastructure leading across the site.
	Human constraint	Green Farm located to the north west.
	Environmental constraint	The site is located adjacent to the River Lugg SSSI where dewatering from active quarrying continues to represent a potential risk to baseflows within the river as the sand and gravel deposits have a shallow groundwater table in hydraulic continuity with the River Lugg. Extensions to this quarry in the direction of the River Lugg increase the dewatering risks as time goes on as extensions are granted. Within 5km of River Wye SAC. Within 250m of River Lugg SSSI. River Lugg LWS within site. Within 250m of the River Lugg. Within flood zone 3.
Date visited		02.11.17
Site visit notes		Good road access via A49, though it is a busy road and turning R onto it is tricky. Also routes to the east are restricted. Fairly flat agricultural field that runs up to the River Lugg. Remaining land for quarry working might be limited once accounted for the aquifer and other buffering with hedges and roads.

Photograph M05d_1: View of site toward River Lugg



Photograph M05d_2: Road access



Herefordshire County Council Waste and Minerals Site Assessments

Site: M05d - Land adjacent Wellington Quarry (Dinmore Manor Estate)

Sand and gravel - Proposed



Site Area: 24.98 ha
Postcode: HR4 8BY
Easting: 350798
Northing: 248463
Site Visit Date: 03.11.2017

Agricultural field lying alongside the River Lugg proposed for sand and gravel in the Call for Sites.

Site Criteria

Site Size:
Natura2000:
UK Ecological Sites:
Local Ecological Sites:
Area of Outstanding Natural Beauty and National Parks:
Agricultural Land Classification:
Air Quality Management Areas:
Road Access:

	Sensitive Buildings:	
	Cultural and Historical Sites:	
	Airports and Airfields:	
	MOD Low Fly Zones:	
	Major River:	
	Flood Zones:	
	Source Protection Zones:	
	Walking Trail:	

M05e: Land north of Wellington Quarry (east of A49) Located north of Hereford, north of Wellington

Agricultural field proposed for sand and gravel extraction, lying between the A49 and Green Farm.

Table M05e: Land north of Wellington Quarry (east of A49)

Criteria		Notes
Viability		Site contains sand and gravel resources.
Availability		Site has been proposed in the Call for Sites.
Deliverability	Infrastructure constraint	A trunk water main crosses the site and may be impacted by the proposal. The A49 is a busy road and turning right onto it is tricky. Routes to the east are restricted.
	Human constraint	Green Farm on eastern boundary. Within 250m of a listed building.
	Environmental constraint	Within 5km of River Wye SAC. Part grade 1 agricultural land.
Date visited		02.11.17
Site visit notes		Good road access via A49, though it is a busy road and turning R onto it is tricky. Also routes to the west are restricted. Fairly flat agricultural field that runs up to the A49, would be visible from it and housing on the western side. Green Farm on eastern boundary.

Photograph M05e_1: View of site



Herefordshire County Council Waste and Minerals Site Assessments

Site: M05e - Land north of Wellington Quarry (east of A49)

Sand and gravel - Proposed



Site Area: 10.51 ha
Postcode:
Easting: 350241
Northing: 248784
Site Visit Date: 03.11.2017

Agricultural field proposed for sand and gravel extraction., lying between the A49 and Green Farm.

Site Criteria

Site Size:
Natura2000:
UK Ecological Sites:
Local Ecological Sites:
Area of Outstanding Natural Beauty and National Parks:
Agricultural Land Classification:
Air Quality Management Areas:
Road Access:

	Sensitive Buildings:	
	Cultural and Historical Sites:	
	Airports and Airfields:	
	MOD Low Fly Zones:	
	Major River:	
	Flood Zones:	
	Source Protection Zones:	
	Walking Trail:	

M05f: Land north of Wellington Quarry (west of A49) Located north of Hereford, north of Wellington

Agricultural field proposed for sand and gravel extraction on the west side of the A49.

Table M05f: Land north of Wellington Quarry (west of A49)

Criteria		Notes
Viability		Site contains sand and gravel resources.
Availability		Site has been proposed in the Call for Sites.
Deliverability	Infrastructure constraint	A trunk water main crosses the site and may be impacted by the proposal. The A49 is a busy road and turning right onto it is tricky.
	Human constraint	Potential overlook by housing. Within 500m of a primary school. Within 250m of four listed buildings.
	Environmental constraint	Within 5km of River Wye SAC. Grade 1 or 2 agricultural land.
Date visited		02.11.17
Site visit notes		Good road access via A49, though it is a busy road and turning R onto it is tricky. Adjacent to A49 (east), garden centre and Wellington (south), agricultural land to west and north. Likely overlooked by housing and visible from the A49. Would want to avoid proliferation of sand and gravel infrastructure so how get to that existing at Wellington Quarry?

Photograph M05f_1: View of site



Herefordshire County Council Waste and Minerals Site Assessments

Site: M05f - Land north of Wellington Quarry (west of A49)

Sand and gravel - Proposed



Site Area: 4.34 ha
Postcode:
Easting: 349938
Northing: 248676
Site Visit Date: not visited

Agricultural field proposed for sand and gravel extraction on the west side of the A49.

Site Criteria

Site Size:
Natura2000:
UK Ecological Sites:
Local Ecological Sites:
Area of Outstanding Natural Beauty and National Parks:
Agricultural Land Classification:
Air Quality Management Areas:
Road Access:

	Sensitive Buildings:	
	Cultural and Historical Sites:	
	Airports and Airfields:	
	MOD Low Fly Zones:	
	Major River:	
	Flood Zones:	
	Source Protection Zones:	
	Walking Trail:	

M05g: Land east of Wellington Quarry Located north of Hereford, west of Marden

Agricultural land proposed for working of sand and gravel in the Call for Sites.

Table M05g: Land east of Wellington Quarry

Criteria		Notes
Viability		Site contains sand and gravel resources.
Availability		Site has been proposed in the Call for Sites.
Deliverability	Infrastructure constraint	The A49 is a busy road and turning right onto it is tricky. Routes to the east are restricted. More than 500m from 'A' or 'B' class road.
	Human constraint	Within 250m of eight listed buildings. A footpath crosses the site. Potential overlook by housing.
	Environmental constraint	Within 5km of River Wye SAC. Bounded to the south and south east by the Wellington Brook and River Lugg. Bounded to the south east by the River Lugg SSSI. Within flood zone 3.
Date visited		15.02.2018 (late submission)
Site visit notes		Fairly open, flat grassland, very wet underfoot. Adjacent to both railway and river with Marden village to the east. Should avoid traffic accessing this site, should use infrastructure at Wellington Quarry. Overlooked by housing and crossed by footpath that leads over the railway and into Wellington Quarry.

Photograph M05g_1: Eastern field



Photograph M05g_2: Land adjacent railway, looking west

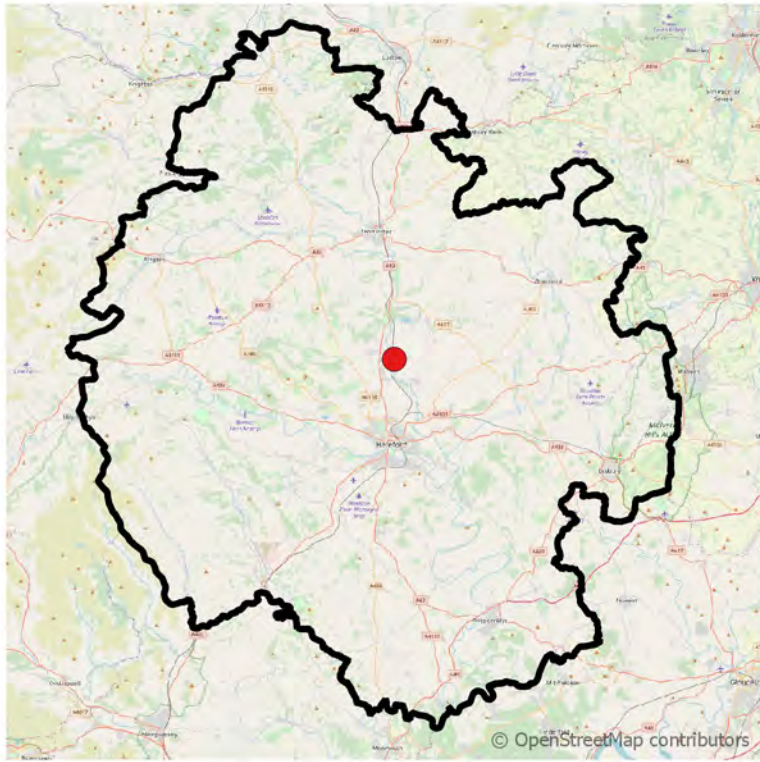


Photograph M05g_3: Land adjacent railway, looking east



Herefordshire County Council Waste and Minerals Site Assessments

Site: M05g - Land east of Wellington Quarry



Site Area: 30.49 ha
Postcode:
Easting: 351281
Northing: 247563
Site Visit Date:

Agricultural land proposed for working of sand and gravel in the Call for Sites.

Site Criteria

Site Size:
Natura2000:
UK Ecological Sites:
Local Ecological Sites:
Area of Outstanding Natural Beauty and National Parks:
Agricultural Land Classification:
Air Quality Management Areas:
Road Access:

	Sensitive Buildings:	
	Cultural and Historical Sites:	
	Airports and Airfields:	
	MOD Low Fly Zones:	
	Major River:	
	Flood Zones:	
	Source Protection Zones:	
	Walking Trail:	

M06: St Donat's Quarry Located north of Hereford, west of Wellington

A closed and restored site in agricultural use. An extension permission granted in 1997 has never been implemented and has now lapsed. Not known whether there is any viable mineral resource.

Table M06: St Donat's Quarry

Criteria		Notes
Viability		Not known whether there is any viable mineral resource.
Availability		Not promoted in Call for Sites and land is in agricultural use with significant increase in poultry unit to the south east.
Deliverability	Infrastructure constraint	Original site access has been built over by poultry unit.
	Human constraint	None identified.
	Environmental constraint	Within 5km of River Wye SAC. Grade 2 agricultural land. Within 250m of Moreton Brook. Within flood zone 3.
Date visited		02.11.17
Site visit notes		Agricultural (grass) fields.

Photograph M06_1: View of site



Herefordshire County Council Waste and Minerals Site Assessments

Site: M06 - St Donats Quarry

Sand and gravel - Restored



Site Area: 53.05 ha
Postcode: HR4 8NQ
Easting: 348881
Northing: 246323
Site Visit Date: 14.11.2017

A closed and restored site in agricultural use. An extension permission granted in 1997 has never been implemented and has now lapsed. Not known whether there is any viable mineral resource.

Site Criteria

Site Size:
Natura2000:
UK Ecological Sites:
Local Ecological Sites:
Area of Outstanding Natural Beauty and National Parks:
Agricultural Land Classification:
Air Quality Management Areas:
Road Access:

	Sensitive Buildings:	
	Cultural and Historical Sites:	
	Airports and Airfields:	
	MOD Low Fly Zones:	
	Major River:	
	Flood Zones:	
	Source Protection Zones:	
	Walking Trail:	

M07a: Leinthall Quarry

Located north of Leinthall Earls, south west of Ludlow

An active limestone quarry with remaining resource, with coating plant and third party concrete batching plant.

Table M07a: Leinthall Quarry

Criteria		Notes
Viability		A substantial active site with mineral resource remaining.
Availability		Operational currently. Planning permission requires site to be reclaimed by August 2027.
Deliverability	Infrastructure constraint	Access is less than ideal. More than 500m from 'A' or 'B' class road.
	Human constraint	Within 250m of five listed buildings and a Registered Park.
	Environmental constraint	Located within the hard rock limestone of the Silurian Aymestry Limestone Formation which has been classified as a secondary aquifer. Extensions in the future to the depth and width of this quarry should be subjected to HIA to understand if the water environment could be at risk from quarrying activities. Within 5km of Downton Gorge SAC. The site is within 250m of four patches of ancient woodland. Limekiln LWS within site.
Date visited		02.11.17
Site visit notes		Substantial active limestone quarry with operational coating plant and concrete batching plant (Tarmac operated). Network of covered conveyors and towers on site to take stone from working face to final point prior to discharge off site. Into final phase of quarry, c.4 to 5 years wkg remaining. Currently wkg on 4 faces, each 11-13m in height. Blast c. 1/month. Stone crushed on site and provided at dust to 50mm sizes, used for road building, foundations and pipe laying, e.g. WW pipes at Knighton. Two carriageway road as main highway to site, with single lane road leading to site through Leinthall, this road and hedging is smeared with dust. Housing at entrance to site, with additional housing permitted. Trees retained to protect views into site. Using rejects and overburden to back fill site to make safe and will then be left for natural regeneration.

Photograph M07a_1: Site access



Photograph M07a_2: Mineral processing plant



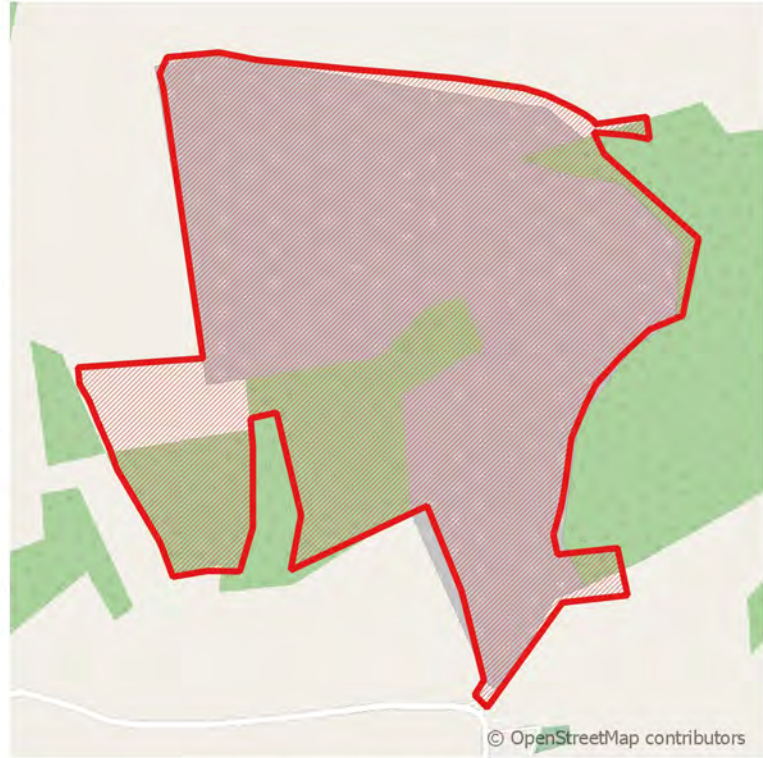
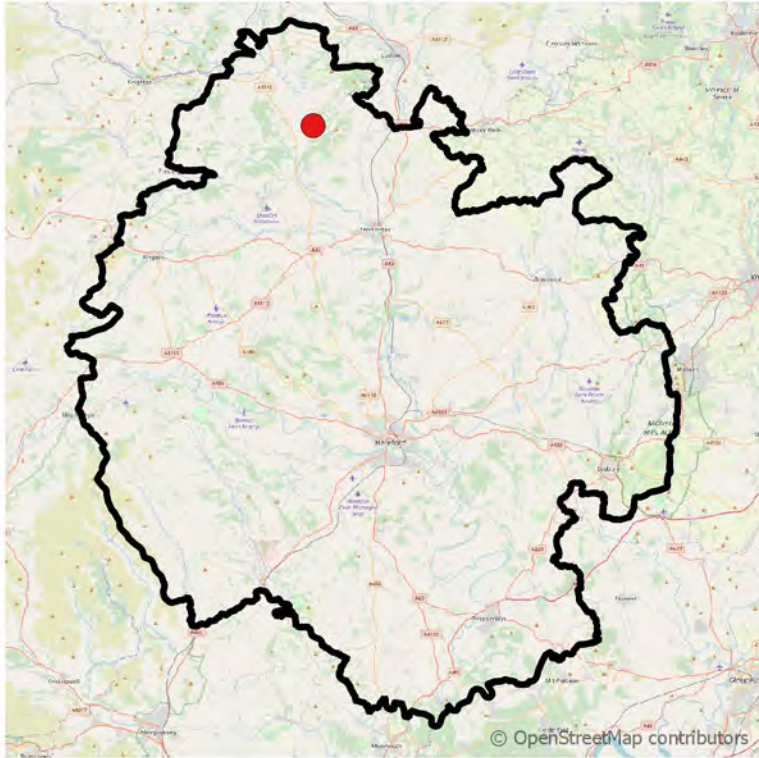
Photograph M07a_3: Working faces



Herefordshire County Council Waste and Minerals Site Assessments

Site: M07a - Leinthall Quarry

Limestone - Active



Site Area: 32.34 ha
Postcode: HR6 9TR
Easting: 344112
Northing: 268381
Site Visit Date: 01.11.2017

An active limestone quarry with remaining resource, with coating plant and third party concrete batching plant.

Site Criteria

Site Size:
Natura2000:
UK Ecological Sites:
Local Ecological Sites:
Area of Outstanding Natural Beauty and National Parks:
Agricultural Land Classification:
Air Quality Management Areas:
Road Access:

	Sensitive Buildings:	
	Cultural and Historical Sites:	
	Airports and Airfields:	
	MOD Low Fly Zones:	
	Major River:	
	Flood Zones:	
	Source Protection Zones:	
	Walking Trail:	

M07b: Land west of Leinthall Quarry Located north of Leinthall Earls, south west of Ludlow

An agricultural field sloping steeply away from existing quarry, with substantial limestone resource proposed in the Call for Sites.

Table M07b: Land west of Leinthall Quarry

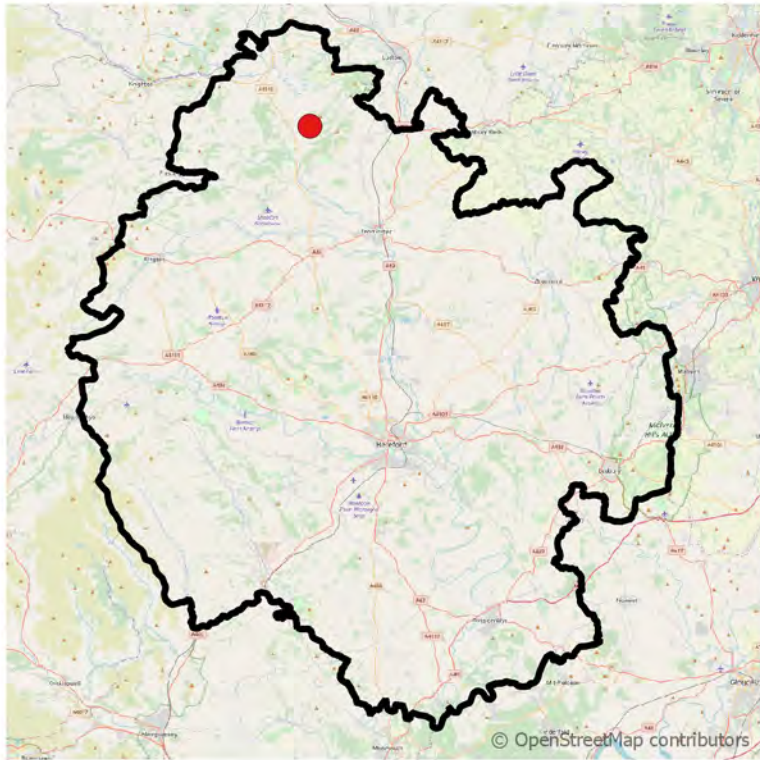
Criteria		Notes
Viability		Limestone in this area has been proven and estimates range up to c. 7 million tonnes.
Availability		Proposed in the Call for Sites.
Deliverability	Infrastructure constraint	Access is less than ideal. More than 500m from 'A' or 'B' class road.
	Human constraint	Extension may be visible from houses.
	Environmental constraint	Located within the hard rock limestone of the Silurian Aymestry Limestone Formation which has been classified as a secondary aquifer. Extensions in the future to the depth and width of this quarry should be subjected to HIA to understand if the water environment could be at risk from quarrying activities. Within 5km of Downton Gorge SAC. The site is within 250m of three patches of ancient woodland.
Date visited		02.11.17
Site visit notes		Agricultural land, drops away steeply toward forestry and in southerly direction. Housing on lower land. Valley feature to the south, extension might be visible from properties on the other side.

Photograph M07b_1: View of site



Site: M07b - Land west of Leinthall Quarry

Limestone - Proposed



Site Area: 8.69 ha
Postcode: HR6 9TR
Easting: 343739
Northing: 268515
Site Visit Date: 01.11.2017

An agricultural field sloping steeply away from existing quarry, with substantial limestone resource proposed in the Call for Sites.

Site Criteria

Site Size:
Natura2000:
UK Ecological Sites:
Local Ecological Sites:
Area of Outstanding Natural Beauty and National Parks:
Agricultural Land Classification:
Air Quality Management Areas:
Road Access:

	Sensitive Buildings:	
	Cultural and Historical Sites:	
	Airports and Airfields:	
	MOD Low Fly Zones:	
	Major River:	
	Flood Zones:	
	Source Protection Zones:	
	Walking Trail:	

M08: Loxter Ashbed Delve

Located in the east of the county, north of Ledbury

Naturally regenerated former limestone quarry, with public access and information boards and no reasonable potential for future mineral extraction.

Table M08: Loxter Ashbed Delve

Criteria		Notes
Viability		Site is closed and restored. No indication that there is any workable resource remaining.
Availability		Site is not proposed by landowner and access road is narrow with houses on the other side of the road.
Deliverability	Infrastructure constraint	Access road is narrow. More than 500m from 'A' or 'B' class road.
	Human constraint	Housing nearby. Within 25m of a Registered Park and Garden.
	Environmental constraint	The site is within 250m of three patches of ancient woodland. Within 1km of the Malvern Hills AONB.
Date visited		03.11.17
Site visit notes		Naturally regenerated limestone quarry - with information boards.

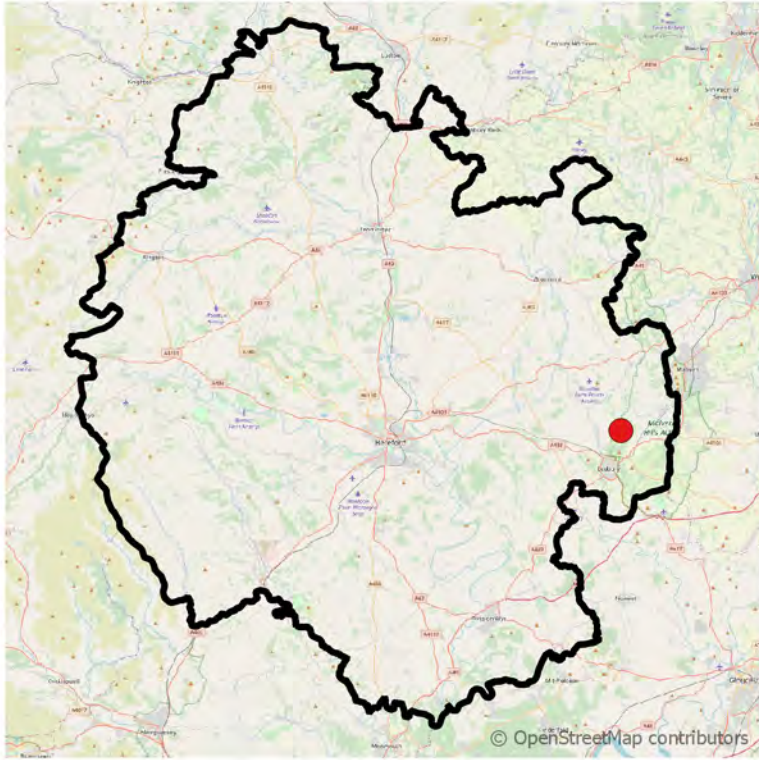
Photograph M08_1: View of site



Herefordshire County Council Waste and Minerals Site Assessments

Site: M08 - Loxter Ashbed Delve

Limestone - Restored



Site Area: 0.14 ha
Postcode: HR8 1NU
Easting: 371799
Northing: 240951
Site Visit Date: 01.11.2017

Naturally regenerated former limestone quarry, with public access and information boards and no reasonable potential for future mineral extraction.

Site Criteria

Site Size:
Natura2000:
UK Ecological Sites:
Local Ecological Sites:
Area of Outstanding Natural Beauty and National Parks:
Agricultural Land Classification:
Air Quality Management Areas:
Road Access:

	Sensitive Buildings:	
	Cultural and Historical Sites:	
	Airports and Airfields:	
	MOD Low Fly Zones:	
	Major River:	
	Flood Zones:	
	Source Protection Zones:	
	Walking Trail:	

M09: Nash Scar Quarry

Located close to the Welsh border, south of Presteigne

A mothballed site with some natural regeneration. The operator claims no intention to work any remaining resource in the foreseeable future but there remains potential to work the existing in situ reserves over the Plan period.

Table M09: Nash Scar Quarry

Criteria		Notes
Viability		No information whether there is any viable resource left or not. Faces of old working are high and appear to be unstable and dangerous.
Availability		Operator claims no intention to work any remaining resource in the foreseeable future. Permission was granted in 2011 for an extension of time to submit and agree a restoration and aftercare scheme for the site.
Deliverability	Infrastructure constraint	Road access is very poor.
	Human constraint	Housing at entrance to site.
	Environmental constraint	The site is within 250m of two patches of ancient replanted woodland. Knill Wood, Hazel Point and Nash Wood LWSs within sites. Within 250m of the River Hindwell.
Date visited		01.11.17
Site visit notes		Limestone quarry that was last worked in 1988 to extract stone for the Ludlow Bypass. Not very good quality stone. It has very steep, very high faces that are unstable, and slipping. Site is generally very overgrown with natural regeneration vegetation, trees growing top and side of faces. Large piles of roadstone/shale on site, deposited a long time ago and used to maintain the site. Easement rights to drive through the site for the local residents (hsg adjacent to the quarry entrance). Deep lagoon on site, fenced off. Single road access to site, directly past housing.

Photograph M09_1: Former working face

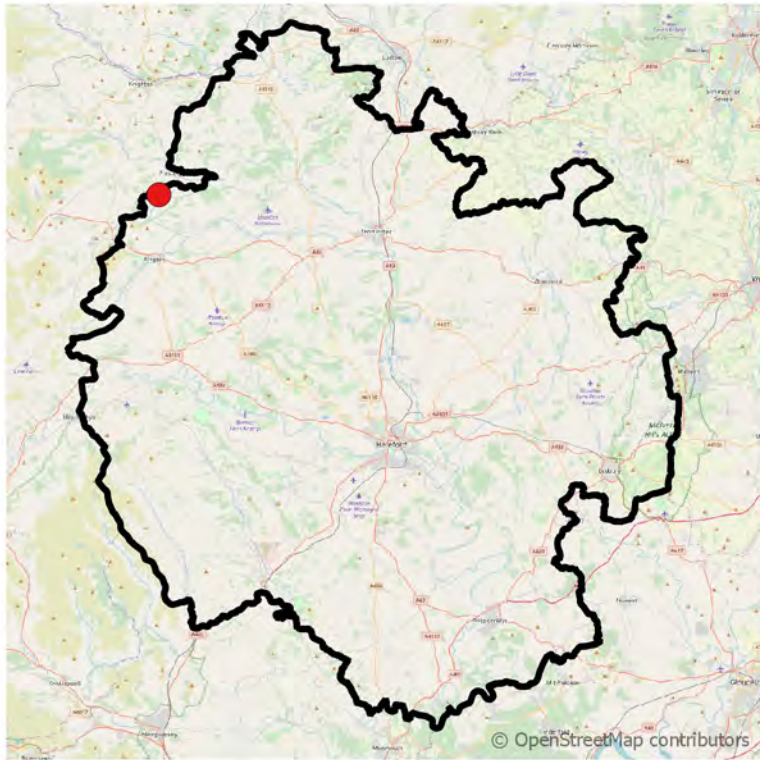


Photograph M09_2: Lake



Site: M09 - Nash Scar Quarry

Limestone - Mothballed



Site Area: 15.64 ha
Postcode: LD8 2LE
Easting: 330156
Northing: 262343
Site Visit Date: 03.11.2017

A mothballed site with some natural regeneration. The operator claims no intention to work any remaining resource in the foreseeable future but there remains potential to work the existing in situ reserves over the Plan period.

Site Criteria

Site Size:
Natura2000:
UK Ecological Sites:
Local Ecological Sites:
Area of Outstanding Natural Beauty and National Parks:
Agricultural Land Classification:
Air Quality Management Areas:
Road Access:

	Sensitive Buildings:	
	Cultural and Historical Sites:	
	Airports and Airfields:	
	MOD Low Fly Zones:	
	Major River:	
	Flood Zones:	
	Source Protection Zones:	
	Walking Trail:	

M10a: Perton Quarry

Located east of Hereford, south of Perton

An active limestone quarry with remaining resource, that had recently been extended at time of site visit.

Table M10a: Perton Quarry

Criteria		Notes
Viability		Operational quarry with substantial remaining mineral resource.
Availability		Operational currently. All extraction and restoration is to cease by February 2042. Consent has been gained to work the area to the south, with a revised access road already in place.
Deliverability	Infrastructure constraint	More than 500m from 'A' or 'B' class road.
	Human constraint	A few houses nearby. Within 250m of a Registered Park.
	Environmental constraint	Located within the Silurian Limestone's and shale's of the Woolhope Dome structure, this quarry is within a secondary aquifer. Should an extension be sought, then a HIA should be undertaken to understand any risks to the water environment. An SSSI is noted within the quarry boundary. Although within Flood Zone 1, the site may be at risk of flooding and an SFRA should inform decision-making. Within 5km of River Wye SAC. Within 250m of two patches of ancient replanted woodland. Perton Roadside Section and Quarry SSSI within site. Within 1km of the Wye Valley AONB.
Date visited		03.11.17
Site visit notes		Operational limestone (some mudstone) quarry with 2 or 3 men working at any one time. Limestone used for road base layers, drainage projects across Herefordshire and Gloucestershire. Worked by Elliotts of Cheltenham. Mudstone used for back fill and 6F5. Blast 2 to 3 times a year, releasing 30 - 40,000 tonnes each time. Site rises steeply to the south, in the direction of working. Newly permitted extension has had top soil removed and new access road installed. Land drops sharply away in all directions. Disparate housing located around the site, visible from distance. Road access to the site is good, with two marked lanes, then using local single track road to access site at Perton.

Photograph M10a_1: Working faces



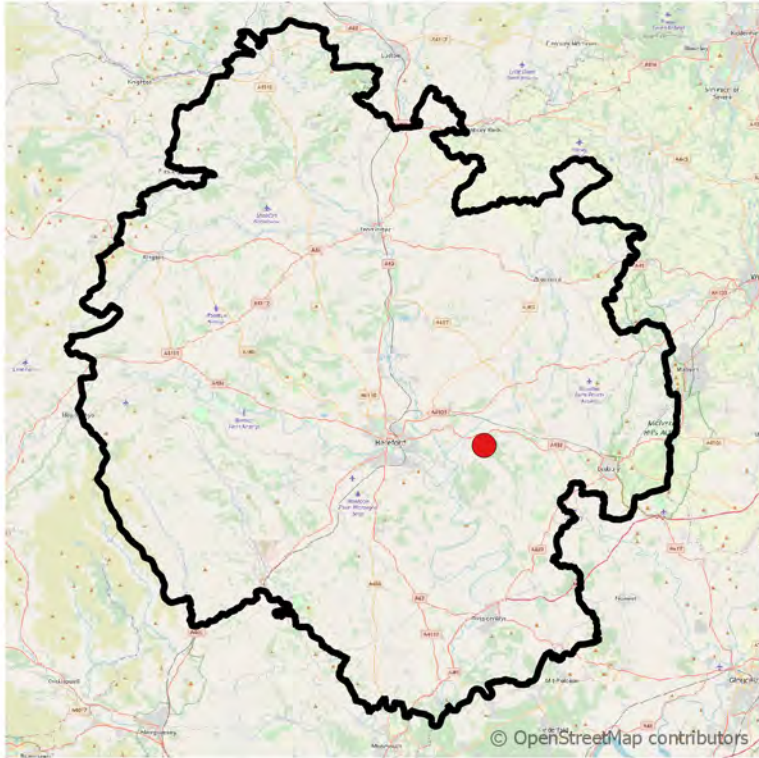
Photograph M10a_2: Site entrance



Herefordshire County Council Waste and Minerals Site Assessments

Site: M10a - Perton Quarry

Limestone - Active



Site Area: 20.48 ha
Postcode: HR1 4ED
Easting: 359500
Northing: 239614
Site Visit Date: 03.11.2017

An active limestone quarry with remaining resource, that had recently been extended at time of site visit.

Site Criteria

Site Size:
Natura2000:
UK Ecological Sites:
Local Ecological Sites:
Area of Outstanding Natural Beauty and National Parks:
Agricultural Land Classification:
Air Quality Management Areas:
Road Access:

	Sensitive Buildings:	
	Cultural and Historical Sites:	
	Airports and Airfields:	
	MOD Low Fly Zones:	
	Major River:	
	Flood Zones:	
	Source Protection Zones:	
	Walking Trail:	

M10b: Land north west of Perton Quarry Located east of Hereford, south of Perton

Agricultural land sloping steeply away from existing quarry, proposed for extraction in Call for Sites.

Table M10b: Land north west of Perton Quarry

Criteria		Notes
Viability		Extent of limestone mineral resource not known.
Availability		Proposed in Call for Sites.
Deliverability	Infrastructure constraint	More than 500m from 'A' or 'B' class road
	Human constraint	A few houses nearby.
	Environmental constraint	Located within the Silurian Limestone's and shale's of the Woolhope Dome structure, this quarry is within a secondary aquifer. Should an extension be sought, then a HIA should be undertaken to understand any risks to the water environment. An SSSI is noted within the quarry boundary. Although within Flood Zone 1, the site may be at risk of flooding and an SFRA should inform decision-making. Within 5km of River Wye SAC. Perton Roadside Section and Quarry SSSI within site.
Date visited		03.11.17
Site visit notes		Agricultural land, currently maize, drops away sharply from existing quarry. Mixed woodland (conifers etc).

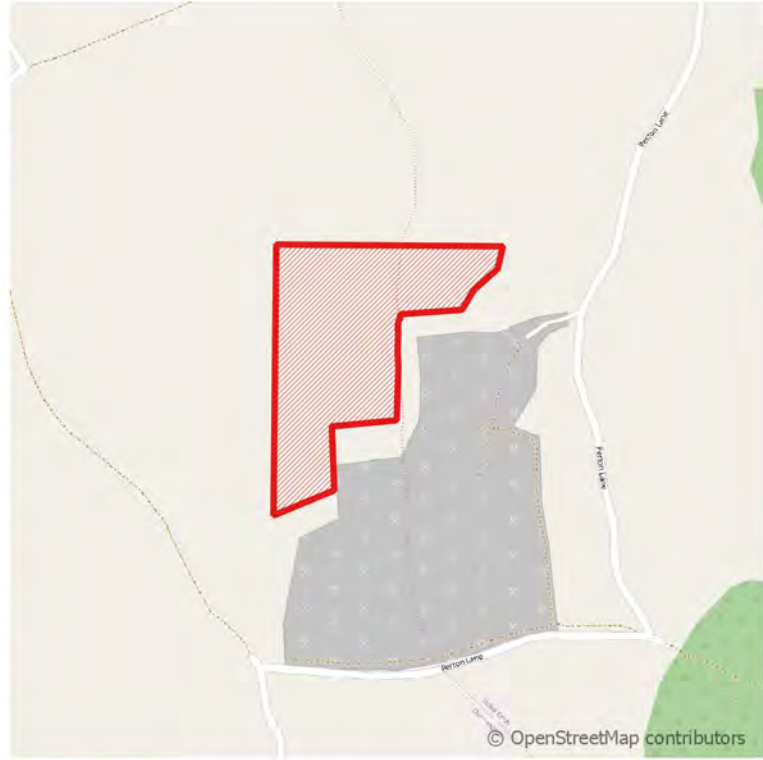
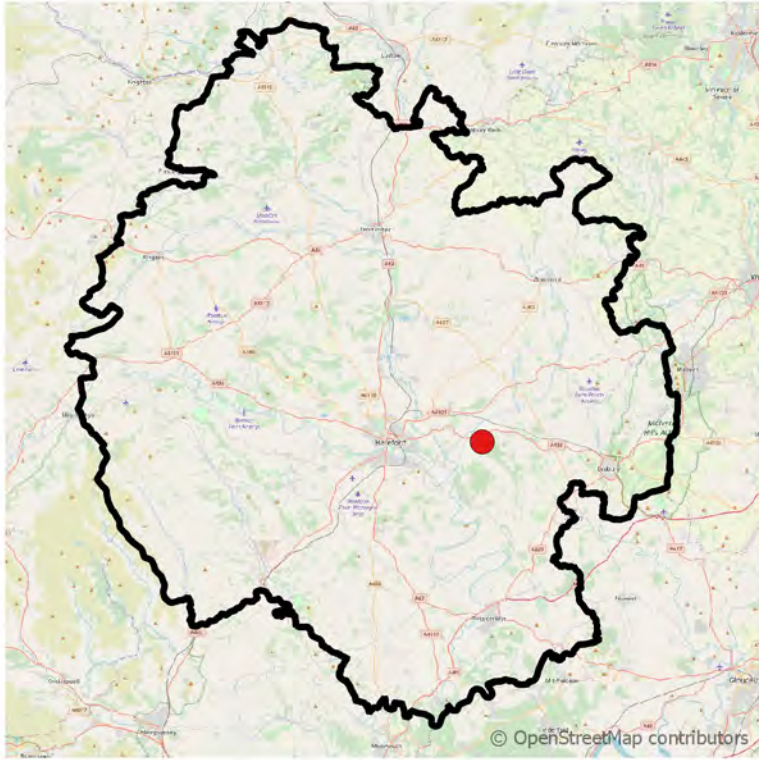
Photograph M10b_1: View of site



Herefordshire County Council Waste and Minerals Site Assessments

Site: M10b - Land northwest of Perton Quarry

Limestone - Proposed



Site Area: 3.62 ha
Postcode:
Easting: 359325
Northing: 239933
Site Visit Date: 03.11.2017

Agricultural land sloping steeply away from existing quarry, proposed for extraction in Call for Sites.

Site Criteria

Site Size:
Natura2000:
UK Ecological Sites:
Local Ecological Sites:
Area of Outstanding Natural Beauty and National Parks:
Agricultural Land Classification:
Air Quality Management Areas:
Road Access:

	Sensitive Buildings:	
	Cultural and Historical Sites:	
	Airports and Airfields:	
	MOD Low Fly Zones:	
	Major River:	
	Flood Zones:	
	Source Protection Zones:	
	Walking Trail:	

M11: Brakes Farm Delve

Located in the north west of the county, west of Ludlow

Site appears to have been abandoned with no reasonable potential for future mineral extraction and is due to be restored using overburden and soils on site.

Table M11: Brakes Farm Delve

Criteria		Notes
Viability		No information about any remaining viable resource.
Availability		Site is not proposed for further working.
Deliverability	Infrastructure constraint	None identified.
	Human constraint	None identified.
	Environmental constraint	Within 5km of Downton Gorge SAC and River Clun SAC. Grade 2 agricultural land.
Date visited		02.11.17
Site visit notes		Site does not appear to have been worked for some time; looks to be closed but is not restored. Some recent(ish) deposits of inert material, but otherwise appears to have been opened - with piles of topsoil and sub soil on the side of the hole - and then left. Road access not bad, single track lane off public highway which leads to agricultural unit.

Photograph M11_1: View of site



Herefordshire County Council Waste and Minerals Site Assessments

Site: M11 - Brakes Farm Delve

Sandstone - Closed



Site Area: 0.33 ha
Postcode: SY8 2LF
Easting: 344724
Northing: 275605
Site Visit Date: 01.11.2017

Site appears to have been abandoned with no reasonable potential for future mineral extraction and is due to be restored using overburden and soils on site.

Site Criteria

Site Size:
Natura2000:
UK Ecological Sites:
Local Ecological Sites:
Area of Outstanding Natural Beauty and National Parks:
Agricultural Land Classification:
Air Quality Management Areas:
Road Access:

	Sensitive Buildings:	
	Cultural and Historical Sites:	
	Airports and Airfields:	
	MOD Low Fly Zones:	
	Major River:	
	Flood Zones:	
	Source Protection Zones:	
	Walking Trail:	

M12: Callow Delve

Located in the far south of the county, west of Whitchurch

Enclosed, active sandstone quarry with poor road access.

Table M12: Callow Delve

Criteria		Notes
Viability		An operational site, but no information about the extent of remaining reserves.
Availability		Site is currently operational. Permission given in August 2013 for extension of approved mineral extraction. ROMP due 2026.
Deliverability	Infrastructure constraint	Road access very poor.
	Human constraint	Housing at entrance to site.
	Environmental constraint	<p>EA identifies that quarry is located within the Brownstones formation which is a secondary aquifer. Adjacent to this location is a sensitive groundwater spring source protection zone for public drinking water supply (Welsh Water source) with the Mally Brook separating the two. This aquifer environment is sensitive and any extension to the quarry must ensure protection of these features through an appropriate HIA building in adequate mitigation measures and monitoring requirements to protect the water environment. The site may be a risk of flooding and your SFRA should inform your decision making.</p> <p>Within 5km of Wye Valley Woodlands SAC,, River Wye SAC, Wye Valley and Forest of Dean Bat Sites SAC.</p> <p>The site contains ancient replanted woodland and is within 250m of three other patches of ancient woodland.</p> <p>Woodland at Welsh Newton and Callow Hill LWSs within sites.</p> <p>Within flood zone 3.</p>
Date visited		14.11.17
Site visit notes		Site looks a bit untidy, with large boulders of stone. Material looks quite different from other sandstone delves. Evidence of the landslip across access road - still to be fully cleared. Access is gained via a single lane access that makes a sharp junction with the public highway, also a house situated on the junction.

Photograph M12_1: View of entrance



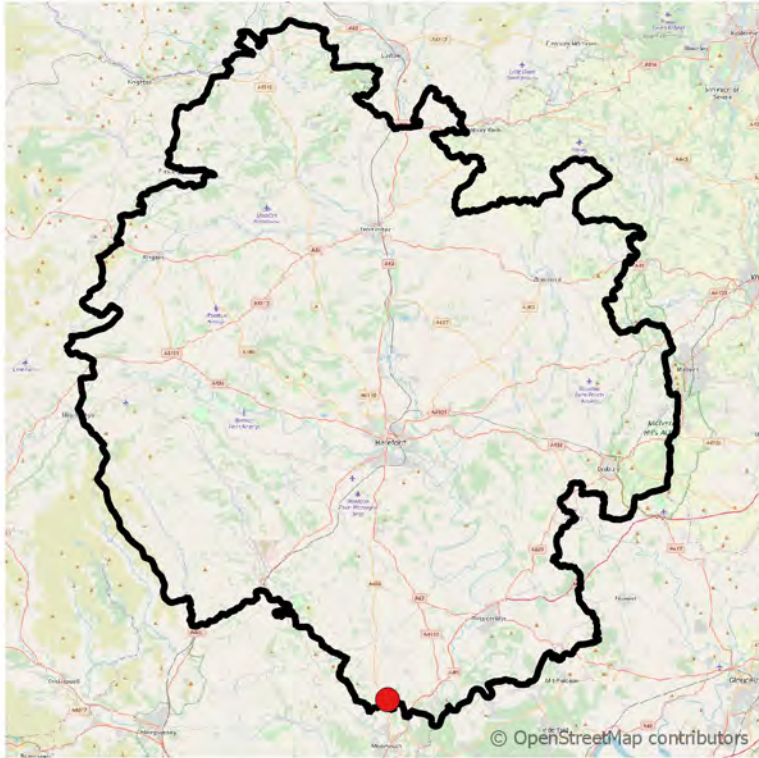
Photograph M12_2: View of site



Herefordshire County Council Waste and Minerals Site Assessments

Site: M12 - Callow Delve

Sandstone - Active



Site Area: 3.61 ha
Postcode: NP25 5RL
Easting: 350810
Northing: 216743
Site Visit Date: 02.11.2017

Enclosed, active sandstone quarry with poor road access.

Site Criteria

Site Size:
Natura2000:
UK Ecological Sites:
Local Ecological Sites:
Area of Outstanding Natural Beauty and National Parks:
Agricultural Land Classification:
Air Quality Management Areas:
Road Access:

	Sensitive Buildings:	
	Cultural and Historical Sites:	
	Airports and Airfields:	
	MOD Low Fly Zones:	
	Major River:	
	Flood Zones:	
	Source Protection Zones:	
	Walking Trail:	

M13: Black Hill Delve (formerly Coed Major) Located south west of the county, east of Black Hill

An active sandstone delve with some limited remaining resource.

Table M13: Black Hill Delve (formerly Coed Major)

Criteria		Notes
Viability		Operational delve with a small amount of sandstone resource remaining.
Availability		Currently operational but very small scale, with remaining resource being intended to restore the owner's own property on site.
Deliverability	Infrastructure constraint	Public highway is single track, with long, very rough farm track to site. More than 500m from 'A' or 'B' class road. Within 5km of an MOD Low Fly Zone.
	Human constraint	None identified.
	Environmental constraint	Within 250m of Black Mountains SSSI. Within 250m of ancient and semi-natural woodland. Within 250m of the River Monnow.
Date visited		01.11.17
Site visit notes		Very remote site, public highway generally single track, with long, very rough, farm lane to site. Owner describes site as finished and being restored, although there was little evidence of restoration at site visit. Lots of scrap, rubbish and timbers in the delve with some quarry wastes/overburden used as backfill. Quality described as variable with focus (over next 2 years) being on using it for own house building, some very neat piles of worked stone in front of house. Very open site, located just under the Black Mountain. Has opened what was described as an exploratory delve to south/east of existing.

Photograph M13_1: View of site



Photograph M13_2: Sandstone tile stacks, looking toward delve



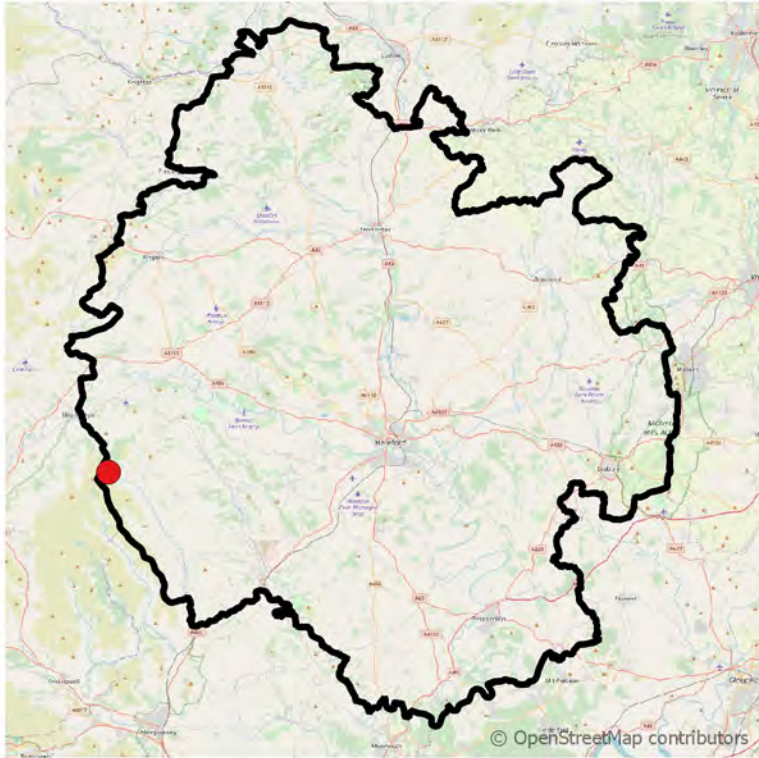
Photograph M13_3: Exploratory digging in lower delve (unconsented)



Herefordshire County Council Waste and Minerals Site Assessments

Site: M13 - Black Hill Delve (formerly Coed Major Delve)

Sandstone - Active



Site Area: 1.38 ha
Postcode: HR2 0PX
Easting: 325711
Northing: 237205
Site Visit Date: 01.11.2017

An active sandstone delve with some limited remaining resource.

Site Criteria

Site Size:

Natura2000:

UK Ecological Sites:

Local Ecological Sites:

Area of Outstanding Natural Beauty and National Parks:

Agricultural Land Classification:

Air Quality Management Areas:

Road Access:



Sensitive Buildings:

Cultural and Historical Sites:

Airports and Airfields:

MOD Low Fly Zones:

Major River:

Flood Zones:

Source Protection Zones:

Walking Trail:



M14: High House Delve

Located close to the Welsh border, south of Llanveynoe

Approval in August 2002 for extraction of sandstone, but site owner confirmed that the delve was unsuccessful and was never exploited. No potential for future mineral extraction and site has regenerated back to an overgrown field.

Table M14: High House Delve

Criteria		Notes
Viability		No viable resource.
Availability		None.
Deliverability	Infrastructure constraint	More than 500m from 'A' or 'B' class road. Within 5km of an MOD Low Fly Zone.
	Human constraint	None identified.
	Environmental constraint	None identified.
Date visited	Not visited. Advised not to by site owner.	
Site visit notes		

No photograph

Herefordshire County Council Waste and Minerals Site Assessments

Site: M14 - High House Delve

Sandstone - Closed



Site Area: 0.2 ha
Postcode: HR2 0ND
Easting: 330951
Northing: 230826
Site Visit Date: 16.11.2017

Approval in August 2002 for extraction of sandstone, but site owner confirmed that the delve was unsuccessful and was never exploited. No potential for future mineral extraction and site has regenerated back to an overgrown field.

Site Criteria

Site Size:
Natura2000:
UK Ecological Sites:
Local Ecological Sites:
Area of Outstanding Natural Beauty and National Parks:
Agricultural Land Classification:
Air Quality Management Areas:
Road Access:

	Sensitive Buildings:	
	Cultural and Historical Sites:	
	Airports and Airfields:	
	MOD Low Fly Zones:	
	Major River:	
	Flood Zones:	
	Source Protection Zones:	
	Walking Trail:	

M15: Hunters Post Delve

Located in the far south of the county, near Welsh Newton

A closed and naturally regenerated small-scale sandstone site with no known potential for future mineral extraction.

Table M15: Hunters Post Delve

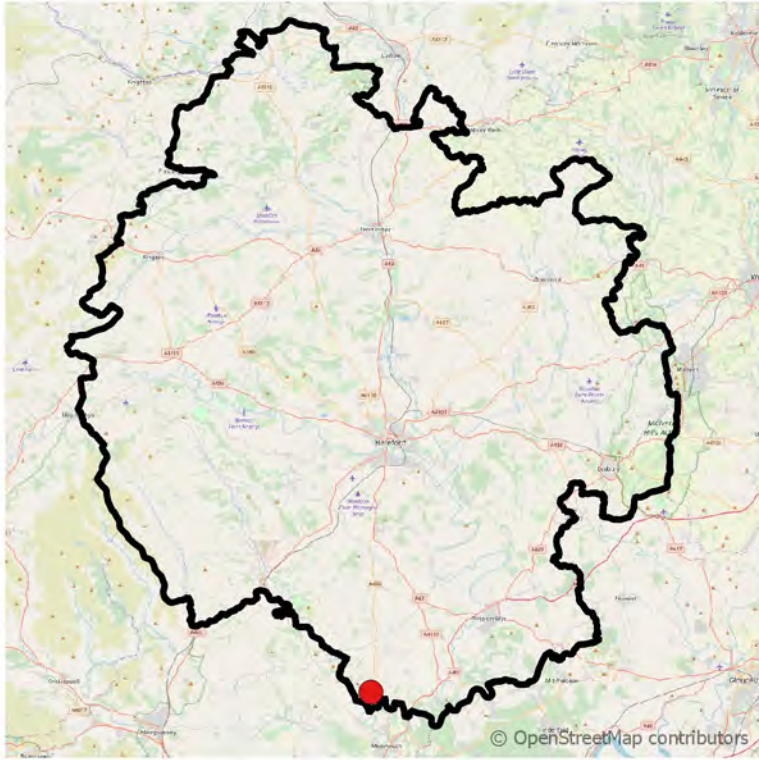
Criteria		Notes
Viability		No information about any viable mineral resource remaining.
Availability		Not promoted for further extraction.
Deliverability	Infrastructure constraint	Road access poor. More than 500m from 'A' or 'B' class road.
	Human constraint	Within 250m of a listed building.
	Environmental constraint	Within 5km of Wye Valley Woodlands SAC, River Wye SAC and Wye Valley and Forest of Dean Bat Sites SAC. Skenchill Wood LWS and adjoining woodlands within site.
Date visited		14.11.17
Site visit notes		Site closed and naturally regenerated.

Photograph M15_1: View of site



Site: M15 - Hunters Post Delve

Sandstone - Closed



Site Area: 1.1 ha
Postcode: NP25 5RW
Easting: 349314
Northing: 217421
Site Visit Date: 02.11.2017

A closed and naturally regenerated small-scale sandstone site with no known potential for future mineral extraction.

Site Criteria

Site Size:
Natura2000:
UK Ecological Sites:
Local Ecological Sites:
Area of Outstanding Natural Beauty and National Parks:
Agricultural Land Classification:
Air Quality Management Areas:
Road Access:

	Sensitive Buildings:	
	Cultural and Historical Sites:	
	Airports and Airfields:	
	MOD Low Fly Zones:	
	Major River:	
	Flood Zones:	
	Source Protection Zones:	
	Walking Trail:	

M16: Llandraw Delve

Located close to the Welsh border, near Michaelchurch

An active, small-scale sandstone quarry with remaining mineral resource, set within a larger field and benefitting from a wide, dedicated access.

Table M16: Llandraw Delve

Criteria		Notes
Viability		Active site, no information about remaining resource.
Availability		Operational. Workings must cease 7 years from date of permission (January 2014).
Deliverability	Infrastructure constraint	More than 500m from 'A' or 'B' class road. Within 5km of an MOD Danger Area and No Fly Zone.
	Human constraint	None identified.
	Environmental constraint	Located in the secondary aquifer of the St. Maughans sandstone bedrock formation within a similar hydrogeological situation to Llandraw Quarry. Due to its proximity on the side of the black mountains many springs and watercourses issue off these slopes. Any proposals to extend should have an HIA to understand if this quarry could be influencing the water environment and what mitigation measures are required to protect water. Within 250m of the River Monnow.
Date visited		01.11.17
Site visit notes		Tidy looking site, being worked by one man. Has large, dedicated and gated entrance way off local road. Site is on the side of a slope and the land falls away from it, rising up again on the other side.

Photograph M16_1: View into site from entrance



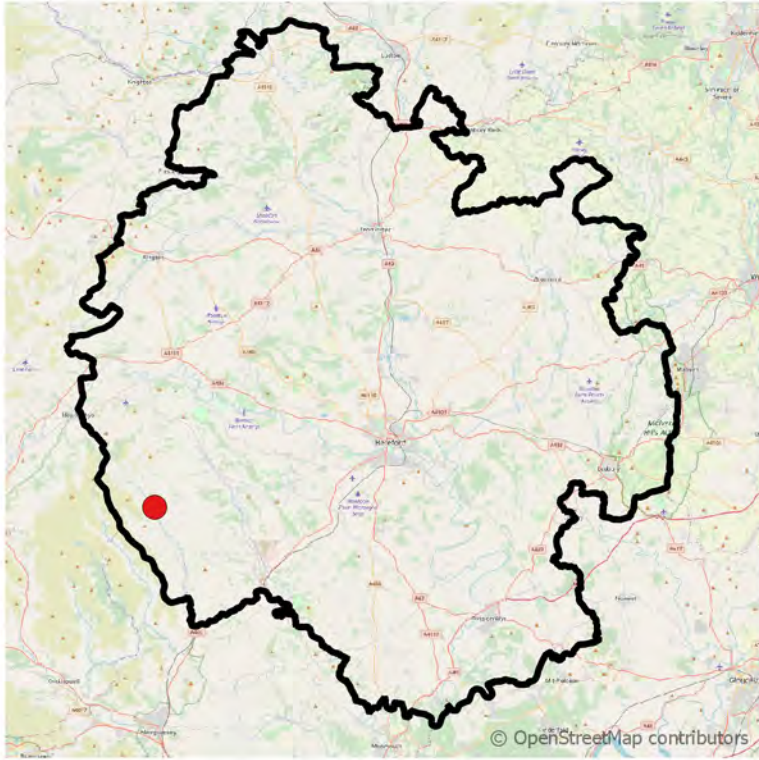
Photograph M16_2: View of site in landscape



Herefordshire County Council Waste and Minerals Site Assessments

Site: M16 - Llandraw Delve

Sandstone - Active



Site Area: 0.61 ha
Postcode: HR2 0PW
Easting: 329866
Northing: 234053
Site Visit Date: 02.11.2017

An active, small-scale sandstone quarry with remaining mineral resource, set within a larger field and benefitting from a wide, dedicated access.

Site Criteria

Site Size:
Natura2000:
UK Ecological Sites:
Local Ecological Sites:
Area of Outstanding Natural Beauty and National Parks:
Agricultural Land Classification:
Air Quality Management Areas:
Road Access:

	Sensitive Buildings:	
	Cultural and Historical Sites:	
	Airports and Airfields:	
	MOD Low Fly Zones:	
	Major River:	
	Flood Zones:	
	Source Protection Zones:	
	Walking Trail:	

M17: Pennsylvani Delves

Located close to the Welsh border, west of Hinton

An active small-scale sandstone quarry with limited remaining mineral resource, surrounded by large piles of overburden and soils.

Table M17: Pennsylvani Delves

Criteria		Notes
Viability		An active site but with limited resource remaining and of inferior quality.
Availability		Operational but limited resource remaining. No information about closure/restoration timescales.
Deliverability	Infrastructure constraint	More than 500m from 'A' or 'B' class road. Within 5km of an MOD Danger Area and No Fly Zone.
	Human constraint	None identified.
	Environmental constraint	Within 250m of Caeiron Meadow SSSI and Pikes Farm Meadows SSSI.
Date visited		01.11.17
Site visit notes		Site visible from access point on public highway, comprising local, one lane road. Large piles of overburden form the edge of the site. ISO container used for shelter by those working on site, c.3 days a week. Site manager also a local builder so splits his time between projects and site. Extract stone tiles, flag stone, building stone. Finding stone now coming out warped so looking to backfill this delve and move into adjacent delve.

Photograph M17_1: View of site from road



Photograph M17_2: Equipment within the site



Herefordshire County Council Waste and Minerals Site Assessments

Site: M17 - Pennsylvani Delves

Sandstone - Active



Site Area: 1.56 ha
Postcode: HR2 0PU
Easting: 328694
Northing: 238825
Site Visit Date: 02.11.2017

An active small-scale sandstone quarry with limited remaining mineral resource, surrounded by large piles of overburden and soils.

Site Criteria

Site Size:
Natura2000:
UK Ecological Sites:
Local Ecological Sites:
Area of Outstanding Natural Beauty and National Parks:
Agricultural Land Classification:
Air Quality Management Areas:
Road Access:

	Sensitive Buildings:	
	Cultural and Historical Sites:	
	Airports and Airfields:	
	MOD Low Fly Zones:	
	Major River:	
	Flood Zones:	
	Source Protection Zones:	
	Walking Trail:	

M18: Sunnybank Delve

Located close to the Welsh border, west of Hinton

An active, small-scale sandstone quarry with resource remaining, set within a larger field and very rural location.

Table M18: Sunnybank Delve

Criteria		Notes
Viability		Active site, no information about remaining resource.
Availability		Operational, no information about closure/restoration timescales.
Deliverability	Infrastructure constraint	More than 500m from 'A' or 'B' class road. Within 5km of an MOD Danger Area and No Fly Zone.
	Human constraint	Within 250m of several listed buildings, potentially five.
	Environmental constraint	Within 250m of Pikes Farm Meadows SSSI.
Date visited		01.11.17
Site visit notes		Very tidy site, extracting tiles, flags and headstones, generally sold within a 50 mile radius. Mr Muhl works alone and has plenty of reserve left but considers site might be sold in the next 12/24 months on account of prospective change in ownership. Road access via local roads and site access track leads past remote house. Site is set into hillside with land rolling away. Very rural.

Photograph M18_1: View of site



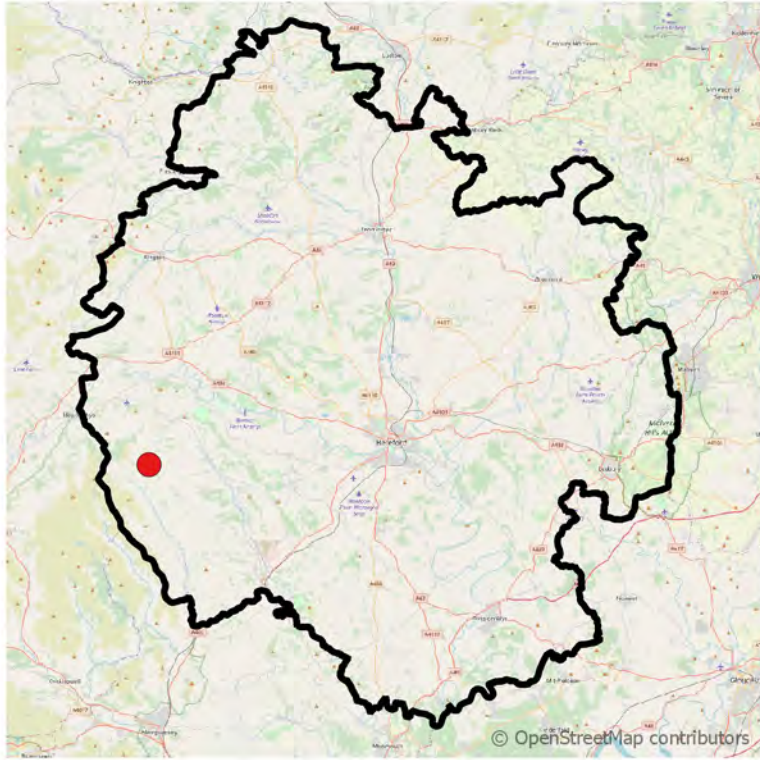
Photograph M18_2: Processed sandstone stacked within the site



Herefordshire County Council Waste and Minerals Site Assessments

Site: M18 - Sunnybank Delve

Sandstone - Active



Site Area: 0.42 ha
Postcode: HR2 0LA
Easting: 329269
Northing: 237884
Site Visit Date: 03.11.2017

An active, small-scale sandstone quarry with resource remaining, set within a larger field and very rural location.

Site Criteria

Site Size:
Natura2000:
UK Ecological Sites:
Local Ecological Sites:
Area of Outstanding Natural Beauty and National Parks:
Agricultural Land Classification:
Air Quality Management Areas:
Road Access:

	Sensitive Buildings:	
	Cultural and Historical Sites:	
	Airports and Airfields:	
	MOD Low Fly Zones:	
	Major River:	
	Flood Zones:	
	Source Protection Zones:	
	Walking Trail:	

M19: Tybubach Delve

Located close to the Welsh border, north of Llanveynoe

Delve has been opened but appears to have been abandoned and quality of stone looks poor. Site due to be restored using overburden and soils on site.

Table M19: Tybubach Delve

Criteria		Notes
Viability		An active quarry but no information about remaining resource.
Availability		Quarry is active but current operations are very limited. No information about landowner's future intentions.
Deliverability	Infrastructure constraint	More than 500m from 'A' or 'B' class road. Within 5km of an MOD Danger Area and No Fly Zone.
	Human constraint	Housing and conference facilities adjacent.
	Environmental constraint	Located in the secondary aquifer of the St. Maughans sandstone bedrock formation within a similar hydrogeological situation to Llandraw Quarry. Due to its proximity on the side of the black mountains many springs and watercourses issue off these slopes. Any proposals to extend should have an HIA to understand if this quarry could be influencing the water environment and what mitigation measures are required to protect water. Within 250m of the River Monnow.
Date visited		01.11.17
Site visit notes		Site looks to be being filled with some recent deposits look to have been made. Access via local road with access road leading past a house. Agricultural land surrounding, adjacent outdoor activity centre/conference.

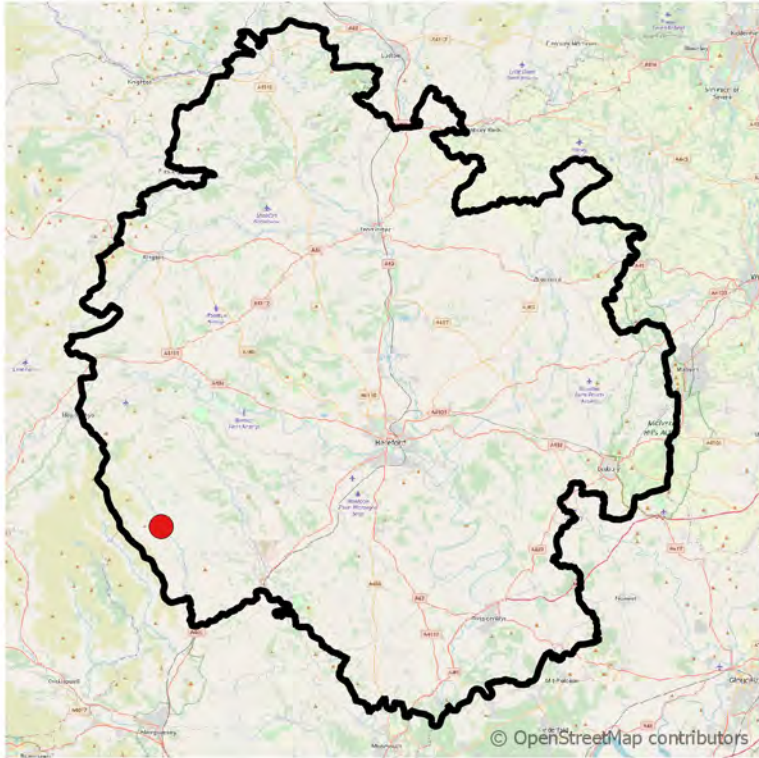
Photograph M19_1: View of site



Herefordshire County Council Waste and Minerals Site Assessments

Site: M19 - Tybubach Delve

Sandstone - Closed



Site Area: 0.52 ha
Postcode: HR2 0PJ
Easting: 330454
Northing: 232312
Site Visit Date: 14.11.2017

Delve has been opened but appears to have been abandoned and quality of stone looks poor. Site due to be restored using overburden and soils on site.

Site Criteria

Site Size:
Natura2000:
UK Ecological Sites:
Local Ecological Sites:
Area of Outstanding Natural Beauty and National Parks:
Agricultural Land Classification:
Air Quality Management Areas:
Road Access:

	Sensitive Buildings:	
	Cultural and Historical Sites:	
	Airports and Airfields:	
	MOD Low Fly Zones:	
	Major River:	
	Flood Zones:	
	Source Protection Zones:	
	Walking Trail:	

M20: Westonhill Wood Delves

Located west of the county, near Bredwardine

An active sandstone quarry with several working delves set within the depths of the wood, not visible from the public highway, though poor access arrangements.

Table M20: Westonhill Wood Delves

Criteria		Notes
Viability		Operational quarry. No information about remaining resource.
Availability		Operational, with permission in March 2014 to extend life of existing quarry and alter site areas for good access to quality stone. Development and restoration must cease not later than 25 years from date of permission.
Deliverability	Infrastructure constraint	Poor junction with highway. Site is within 5km of an airfield.
	Human constraint	Some houses on access route. Within 250m of a listed building.
	Environmental constraint	Located on secondary aquifer of the Devonian. Numerous springs issue from the aquifer on the escarpment area and flow as watercourses to the River Wye down in the valley. Any extension to this quarry should be subject to HIA to understand risks to the water environment. Within 5km of River Wye SAC. Coincides with ancient semi-natural and replanted woodland and is within 250m of the River Wye SSSI. Merbach Hill, Benfield Park and Westonhill Wood LWSs within site. Grade 2 agricultural land.
Date visited		01.11.17
Site visit notes		Sandstone delves located in depths of the wood. Different areas used for different purposes, large stockpile of overburden, working area, evidence of previous delves not having been restored but being used for storage, equipment storage and crushing area close to owners house. Site not visible from the public highway - quite difficult to find the access route in, although more than one property use the site access. Public highway is local road, very windy and busy. Access onto it has poor sight lines. Site is known as Westonhill Quarries and is processed at Eardisley Sawmills.

Photograph M20_1: Working face



Photograph M20_2: Internal access track



Photograph M20_3: Former worked area and tipped overburden



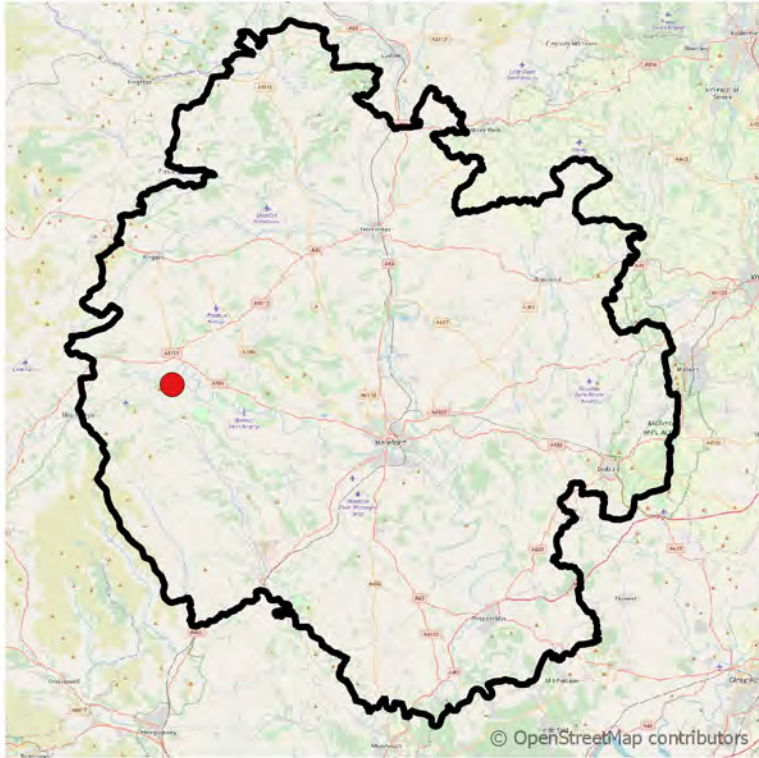
Photograph M20_4: Working area



Herefordshire County Council Waste and Minerals Site Assessments

Site: M20 - Westonhill Wood Delve

Sandstone - Active



Site Area: 73.41 ha
Postcode: HR3 6DE
Easting: 331442
Northing: 245082
Site Visit Date: 02.11.2017

An active sandstone quarry with several working delves set within the depths of the wood, not visible from the public highway, though poor access arrangements.

Site Criteria

Site Size:
Natura2000:
UK Ecological Sites:
Local Ecological Sites:
Area of Outstanding Natural Beauty and National Parks:
Agricultural Land Classification:
Air Quality Management Areas:
Road Access:

	Sensitive Buildings:	
	Cultural and Historical Sites:	
	Airports and Airfields:	
	MOD Low Fly Zones:	
	Major River:	
	Flood Zones:	
	Source Protection Zones:	
	Walking Trail:	

M21: Howle Hill Quarry Located in the far south of the county, near Mitcheldean

A closed coal site restored to grassland with no known potential for future mineral extraction.

Table M21: Howle Hill Quarry

Criteria		Notes
Viability		Site is restored and no information about any remaining viable resource.
Availability		None.
Deliverability	Infrastructure constraint	More than 500m from 'A' or 'B' class road. Rural site with narrow winding access roads. Site is within 5km of an airfield.
	Human constraint	Housing along access roads.
	Environmental constraint	Within 5km of Wye Valley and Forest of Dean Bat Sites SAC, River Wye SAC and Wye Valley Woodlands SAC. The site is within 250m of ancient and semi-natural woodland. Within Wye Valley AONB.
Date visited		16.11.17
Site visit notes		Grassy field, local roads for access.

Photograph M20_1: View of site

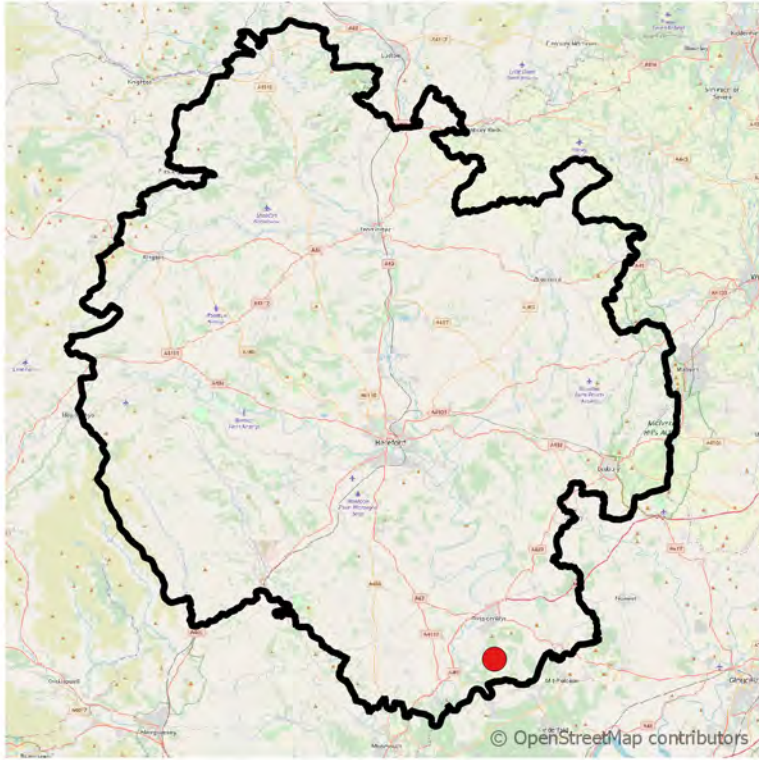


Note: It was later felt that the site might actually have been land on the opposite side of the road, also restored to grassland

Herefordshire County Council Waste and Minerals Site Assessments

Site: M21 - Howle Hill Quarry

Coal - Restored



Site Area: 0.81 ha
Postcode: HR9 5SH
Easting: 360425
Northing: 220392
Site Visit Date: 01.11.2017

A closed coal site restored to grassland with no known potential for future mineral extraction.

Site Criteria

Site Size:
Natura2000:
UK Ecological Sites:
Local Ecological Sites:
Area of Outstanding Natural Beauty and National Parks:
Agricultural Land Classification:
Air Quality Management Areas:
Road Access:

	Sensitive Buildings:	
	Cultural and Historical Sites:	
	Airports and Airfields:	
	MOD Low Fly Zones:	
	Major River:	
	Flood Zones:	
	Source Protection Zones:	
	Walking Trail:	

M22: South Hide Farm and South End Farm Located in the far east of the county, west of Great Malvern

Agricultural land proposed for sand and gravel in Call for Sites in very rural location, with narrow winding lanes with housing alongside.

Table M22: South Hide Farm and South End Farm

Criteria		Notes
Viability		No information about the extent of any viable resource.
Availability		Promoted in Call for Sites.
Deliverability	Infrastructure constraint	Rural site with narrow winding access roads. More than 500m from 'A' or 'B' class road.
	Human constraint	Housing along access roads. Listed buildings in Mathon and at South End.
	Environmental constraint	Within Malvern Hills AONB. Within 250m of Cradley Brook. Within flood zone 3.
Date visited		03.11.17
Site visit notes		Very rural area, agricultural land (predominantly dairy). Network of single carriage lanes that meander between village centres, lots of housing on road side. Mathon quite compact village with housing adjacent the road as it passes through. At Warners Farm there remains the Cullimore Gravels sign and an old gravel lake is evident, signed as deep water. Questionable how one would get material out from site.

Photograph M22_1: South End Lane.



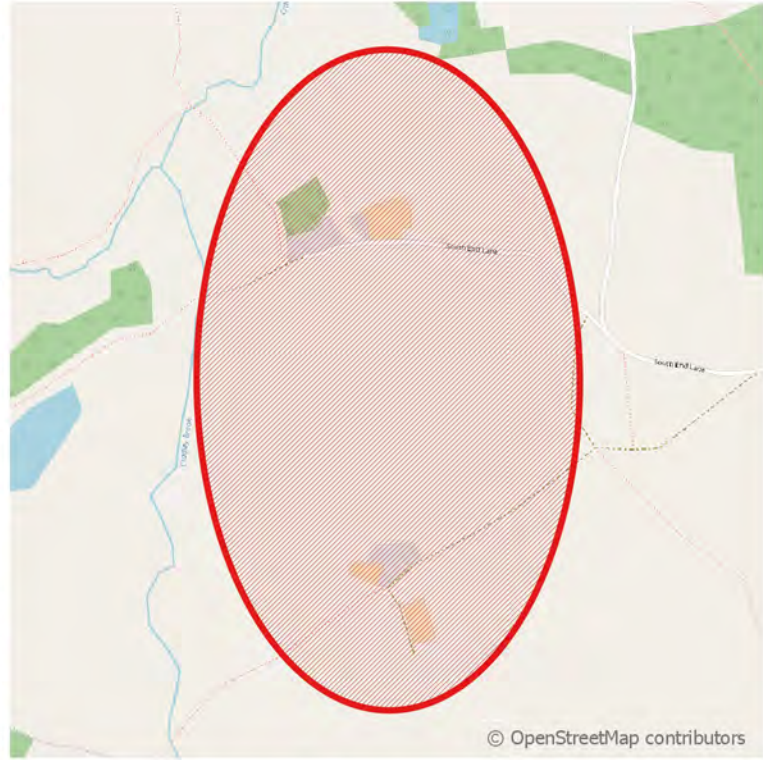
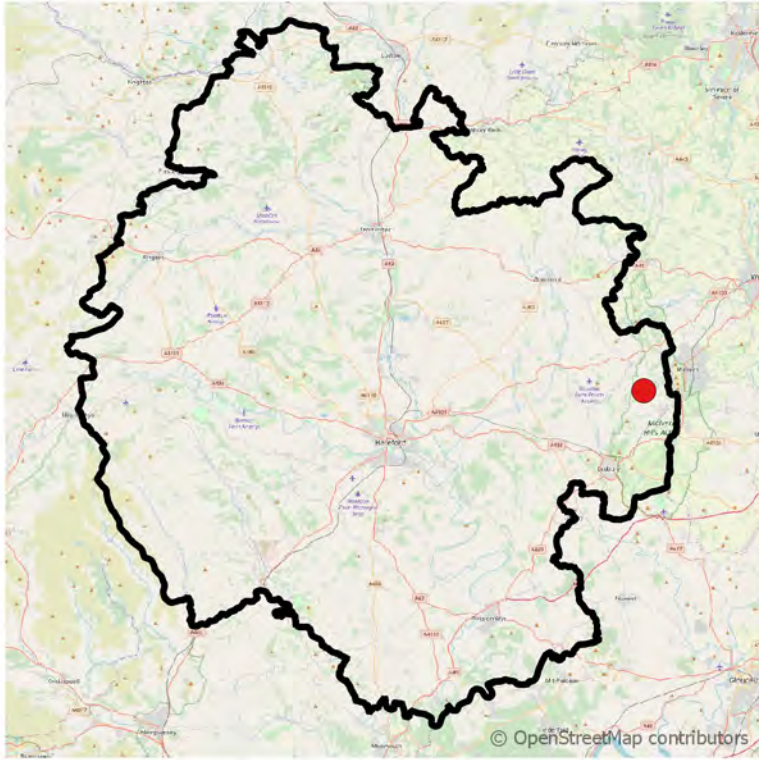
Photograph M22_2: South Hyde Lane



Herefordshire County Council Waste and Minerals Site Assessments

Site: M22 - Mathon - South Hyde Area

Sand and gravel - Proposed



Site Area: 68.18 ha
Postcode:
Easting: 373858
Northing: 244534
Site Visit Date: 03.11.2017

Agricultural land proposed for sand and gravel in Call for Sites in very rural location, with narrow winding lanes with housing alongside.

Site Criteria

Site Size:
Natura2000:
UK Ecological Sites:
Local Ecological Sites:
Area of Outstanding Natural Beauty and National Parks:
Agricultural Land Classification:
Air Quality Management Areas:
Road Access:

	Sensitive Buildings:	
	Cultural and Historical Sites:	
	Airports and Airfields:	
	MOD Low Fly Zones:	
	Major River:	
	Flood Zones:	
	Source Protection Zones:	
	Walking Trail:	