



Resolving the impacts of mining

Proposed measures to clean up the River Nent

Engagement process

Consultation objective

To work with stakeholders to find an acceptable way of treating polluted mine water from the Haggs, Caplecleugh and Rampgill Levels, from concept through to operation.



Progress so far

- We've extended the search area (Page 5)
- We've applied the evaluation criteria (Page 4)
- We've identified potential areas that might be suitable for a mine water treatment scheme (Page 6)

Next steps

- Identify potential areas to take forward for further assessment. This areas for further consideration will depend on:
- Scores from evaluation process
- Public Opinion
- Land Availability

Oct/Nov 2016 March 2017 May/June 2017 Sept/Oct 2017 Oct/Nov 2017 Review 'Short list' Review of draft Review of final Agree search Review 'long list' design for design for area sites Comment on preferred site preferred site Develop evaluation and Comment on evaluation scores advantages/ Discuss layout, Review criteria disadvantages of shape and construction Identify sites to landscaping each option activities Gather additional be shortlisted for assessment Identify preferred Discuss Review data operational operational option issues relating activities to it

Community input required at these points

Engagement process

April 2016: **Event 1**

We held an open community event where the initial proposal was presented. The proposal was withdrawn and a new engagement approach was developed.

October/November 2016: Event 2

We held 2 community events where open discussions took place about the new appraoch to finding alternative land areas. The site evaluation criteria identified. (P4 and P5)

November 2016/March 2017

- providing information questions answered. Reports on Gov.uk
- developing site evaluation criteria
- wider mail outs, contacting business, contacting wildlife groups
- · contacting landowners
- · extended search area
- potential areas identified that might be suitable for a mine water treatment scheme

March 2017: Event 3

Discussion with stakeholders on new areas identified. A long list of possible sites drawn up. (P6)

July 2017: **Event 4**

A further public meeting looked at 3 possible sties for Nent Haggs and Caplecleugh. A short list of possible sites discussed (P7 and P8).

September 2017: Event 5

Preferred site for Nent Haggs and further investigation for Caplecleugh are shown at the September event.

What criteria did we consider?

Criteria

- a) Access to the potential treatment site (closest boundary)
- b) Closeness to housing and businesses (from site boundary to nearest building)
- c) Distance from the mine water discharge point to the potential treatment area (closest boundary to discharge point)
- d) Pumping costs and carbon footprint (average across elevation the whole area)
- e) Site size

Caplecleugh and Rampgill

(flow: 30 litres per second – subject to change following further data collection)

Caplecleugh only

(flow: 20 litres per second – subject to change following further data collection)

Rampgill only

(flow: 10 litres per second- subject to change following further data collection)

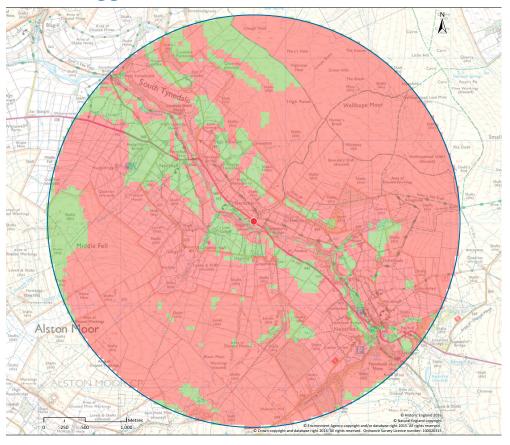
Haggs

(flow: 15 litres per second – subject to change following further data collection)

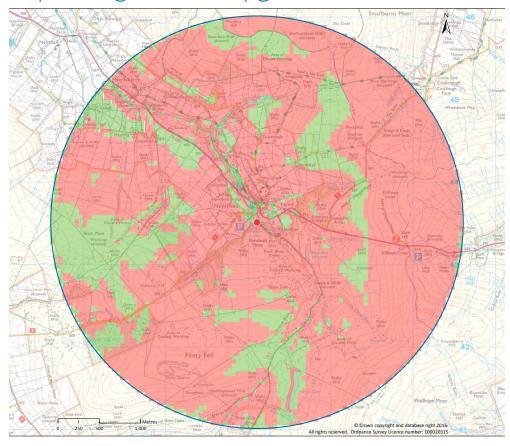
- f) Current and previous land use –ease of construction (average across the whole area)
- g) Degree of slope (average across the whole area)
- h) Ecological issues (average across the whole area)
- i) Flood risk surface water flooding (average across the whole area)
- j) Route of the pipeline to transfer the mine water to the potential treatment area and then from the potential treatment area to a nearby watercourse. (total pipe length)
- k) Visual impact

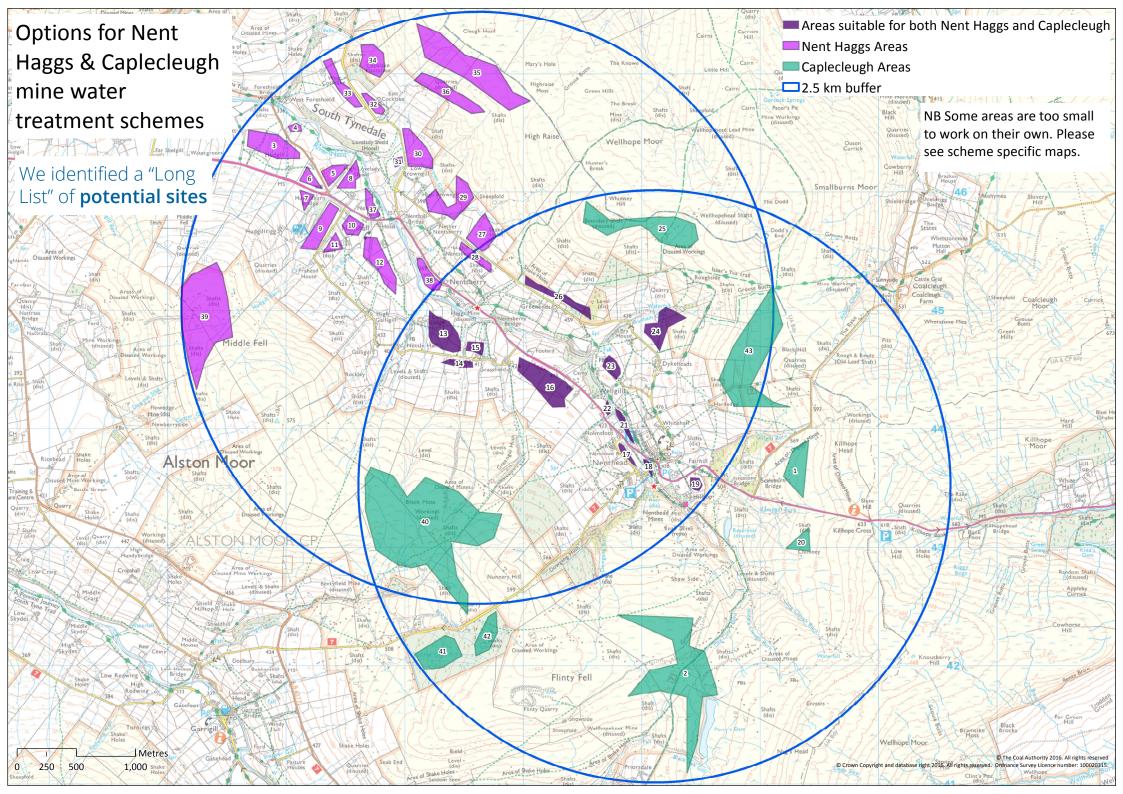
We've looked at a wide range of **possibilities**

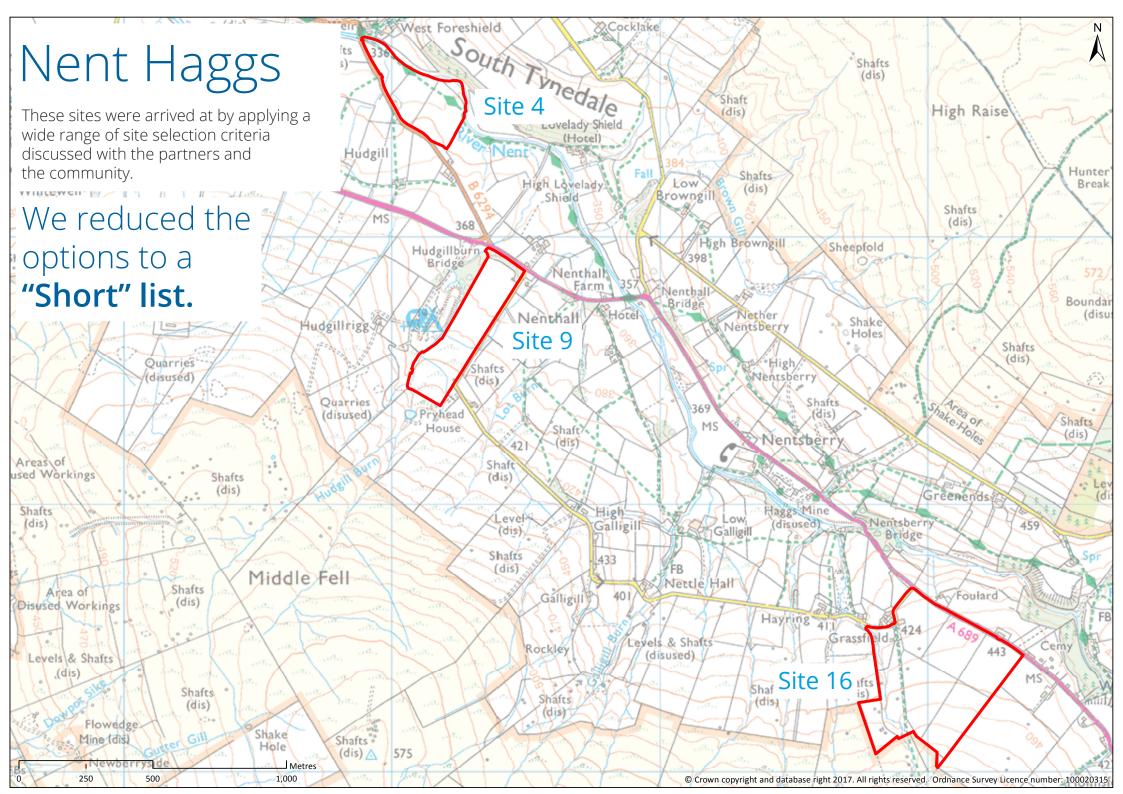
Nent Haggs

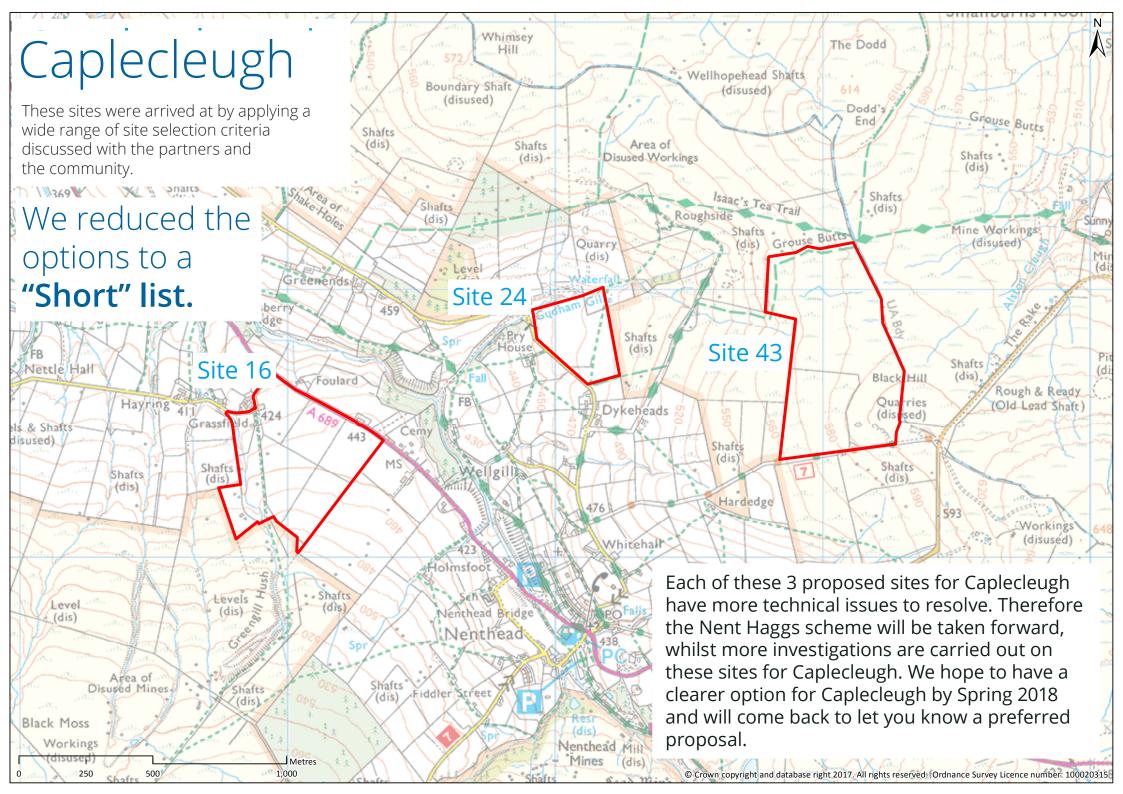


Caplecleugh and Rampgill

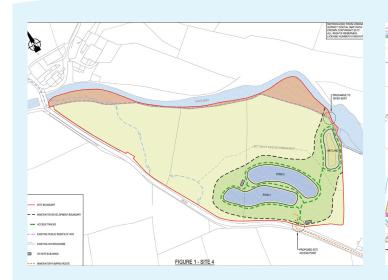








After the July public meeting a single **preferred site emerged**







How big will the mine water treatment scheme be?

The site area is approximately 2 hectares (5 acres). Each of the 2 treatment ponds will be about 2,500 square metres (sqm), and the wetland will be about 1,250 sqm. Therefore the ponds plus the wetland will have an area of 6,250 sqm. A typical football pitch is about 6,500 sqm.

What will the scheme look like?

The treatment ponds will be open water with the water level a little below the existing ground level. They will be surrounded by grassed or gravel tracks with grass or planted areas in between. The ponds and wetland will be shaped to look as natural and un-engineered as possible. The wetland will be a reedbed. There will be two single storey stone buildings on site designed to look like farm buildings. The site will be secured with posts and wire fencing or in keeping with field boundaries in the area. The access will be through a timber field gate adjacent to the road.

What will be the visual impact on the area?

The site is overlooked by properties at Foreshield, the nearby roads and footpaths. The layout and landscaping will be designed to make the scheme look as natural as possible. Additional tree planting may be possible although it will take some years for trees to fully grow.

How will the construction traffic reach the site?

Traffic will arrive along the existing highway network from the A689 and B6294.

Will there be any other works associated with the scheme?

There will be a new pumping station constructed near to the adit to pump water to the site (possibly on site 38). It will need a small building to house control equipment.

How much say do I have?

The site we have chosen, with your help, has very limited room for variation from the plan now shown as the preferred site. (P10)

Nent Haggs preferred site **Site 4**



Nent Haggs preferred site

Headline construction information

Area 4

Main treatment pond works (Site 4)

Start: July 2018

Finish: November 2019

Area 3

Pump rising main pipeline

Start: March 2019

Finish: November 2019

Area 2

Pump Station and rising main pipeline

Start: September 2018 Finish: November 2018

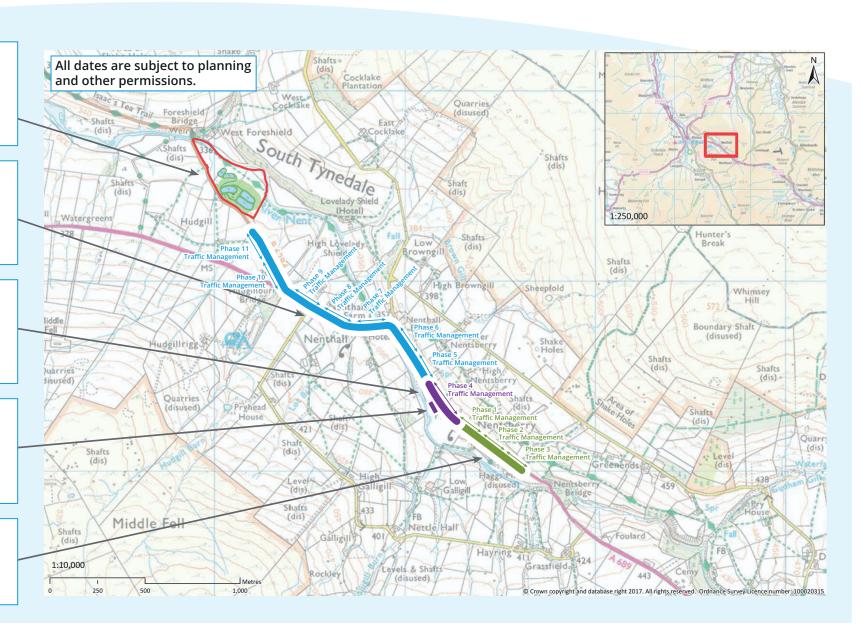
Site compound/Storage area for pipeline installation

Start: September 2018 Finish: November 2018

Area 1Gravity Drain pipeline

Start: July 2018

Finish: October 2018



Progress on

Checkweirs and Nenthead

New build - **Nentsberry**





Dredging - Nenthead



Both schemes are progressing well and should be near completion by the end of September.