

Press release: Coal Authority calls for full consideration of legacy issues

The Coal Authority has today called for local authority planners, surveyors, developers and geotechnical and engineering consultants to ensure coal mining legacy issues are considered in light of their findings from a recent subsidence event in north-east England.

The government body, which manages the effects of past coal mining across Britain, said it had issued the information to share its early recommendations.

Initial ground investigations were undertaken at a housing development in North Tyneside by the Coal Authority in July 2016, after it was contacted by the National House Building Council in relation to an extensive area of subsidence. It has since carried out further extensive ground investigations, including underground camera and laser void surveys, to identify the root cause of the subsidence, and installed 300 survey points above and below the ground to monitor for ground and property movement.

The Coal Authority's ground investigations revealed coal mine workings at a depth in excess of 30 metres. These dated back around 120 years and had not been recorded on the historical mining plans held for the former colliery for this specific area.

The ground investigations proved this specific area had been extensively worked with extraction rates at over 70%, however the plans had showed an area of solid coal. Recorded workings adjacent to this area had typical extraction rates of between 45% and 50%.

This high level of extraction resulted in narrow residual supporting coal pillars and wide extraction rooms in the High Main coal seam, leading to compression on the remaining coal pillars and roof instability. This, together with a fractured sandstone layer above the coal seam, resulted in an underground collapse and subsequent movement at the surface that affected 35 properties on an estate and had an elliptical subsidence zone footprint of around 150 metres x 70 metres.

Coal Authority engineers designed a solution to stabilise the ground, and work to drill and grout the voids has been completed. Ground monitoring will continue to ensure the ground is stable for redevelopment.



Simon Reed, Chief Operating Officer, Coal Authority, said:

“We have released our initial recommendations to ensure there is awareness of the risks posed by historical coal mining legacy, in light of our findings from this recent subsidence event.

“In this instance, given the depth and age of the workings, and knowledge about risks of subsidence at the time, we cannot criticise the developer’s approach taken with respect to these mining circumstances, but we must now build on this new knowledge to address these risks better moving forward.

“This was an area of unrecorded mine workings and caution must be adopted in assuming that the absence of a record means the absence of mining. Although our historic plans did not, in this case, reveal the coal workings they are a vital part of any site assessment prior to development, therefore in future we may ask for more information, or for more works to take place, to reduce the likelihood of a similar subsidence event happening again.”

The Coal Authority expects to release further information in the form of a Technical Guidance Note later this year, after works are completed and following a period of monitoring.

Information issued by the Coal Authority

Historic mining plans are invaluable but don’t always give a true

representation of the coal workings underground, meaning:

- areas mined may vary from those shown on historical plans
- extraction rates may vary from those shown on historical plans
- plans held in historical records may not be the final abandonment plan for the seams and the mine
- not all historical coal workings are recorded

Both desk-based research and ground investigations should be undertaken to confirm the:

- potential for unrecorded shallow workings
- accuracy of the shallow coal old working plans
- competence of the strata overlying the coal
- potential effects of groundwater, including assessment of recovering levels post mining which are still taking place today

The 10 times rock cover guidance outlined in CIRIA SP32* is only 'a rule of thumb':

- in this case, the coal was at a depth that exceeded the 10 times rock cover
- appropriate ground investigations should always be undertaken to confirm site specific conditions and local geology also needs to be considered

*Special Publication 32

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[Press release: Events to spread the](#)

word about Hull's £42m tidal flood scheme

Hull residents and businesses are being invited to learn more about a multi-million scheme to protect thousands of properties from flooding from the Humber at two events this month (May).

They will be held at Mr Chu's Chinese Restaurant in St Andrew's Quay Retail Park on Tuesday 15th May and Victoria Dock Village Hall on Wednesday 16 May. Visitors can drop-in anytime between 1-7pm.

Representatives from the Environment Agency and contractors BMM JV will be on hand to discuss plans for the £42million Humber Hull Frontage Improvement Scheme which will improve flood protection to 113,000 properties in Hull.

Following on from an event at the Guildhall last month, this will be a chance for people to discuss plans for these areas in more detail.

Led by the Environment Agency, the Humber Hull Frontage Improvements Scheme presents an opportunity to improve 7-8 kilometres of tidal flood defences at various sites along the Humber Estuary frontage to better protect homes and businesses that are at risk of flooding.

Subject to planning approval, work on the Humber Hull Frontage Improvements scheme will start in late summer and will be complete by the end of 2020.

Project contractor BMM JV – a joint venture between BAM Nuttall and Mott MacDonald – will be sharing early designs and plans which will build resilience along the city's 19 kilometre waterfront.

Helen Tattersdale, project manager at the Environment Agency, said:

These two drop-in sessions follow one we held at The Guildhall last month to share our plans. We want to make sure as many residents as possible are aware of what is being proposed and we're keen to get feedback from them.

Our team is ready to answer any queries residents of business owners may have about what work needs to be done to better protect the city from flooding from the Humber Estuary.

In recent years we have seen the impact tidal flooding can cause and it is vital for the city to have improved flood defences to ensure devastating flooding like that which resulted from the

December 2013 tidal surge is few and far between.

Improvements in Hull will be supported by a further four kilometres (2.5 mile) of new and raised tidal defences on either side of the city in the East Riding of Yorkshire, at Hessle and Paull, delivered by East Riding of Yorkshire Council in partnership with the Environment Agency.

The Humber Hull Frontage Improvement Scheme is one of a number of tidal flood alleviation projects that form part of the Humber Flood Risk Management Strategy. The Environment Agency and local partners are now in the process of developing an advanced approach to managing flooding in tidal areas by the Humber for the next 100 years.

It will be a long-term investment that will contribute to securing the viability of Hull and the wider Humber region, ensuring it retains its place as the eastern gateway to the UK economy.

Press release: £9.5 million Ulverston flood scheme officially opened by the Environment Agency

More than 500 homes and businesses in Cumbria will be better protected from flooding thanks to a new £9.5 million scheme completed by the Environment Agency.

The Town Beck Flood Alleviation Scheme in Ulverston, Cumbria, will reduce flood risk to more than 400 homes and more than 100 businesses, as well as critical tourism infrastructure. A maze of underground water channels (culverts) under the houses, roads and carparks in the town centre have been repaired and/or replaced using innovative techniques and flood defences have been constructed.

Emma Howard Boyd, Chair of the Environment Agency, officially opened the scheme, and said:

Cumbrian communities know well the devastation that flooding can cause. The Town Beck flood defence will better protect 500 homes and businesses in Ulverston and support England's tourist economy by improving protection for the railway that leads to the Lake District.

To achieve this, the Environment Agency has worked closely with local residents, Network Rail, United Utilities and the Council.

It's a brilliant example of how partnership working benefits people, the national economy and the natural environment.

Town Beck lies within a steep catchment and predominantly runs underground through the town centre. The new scheme consists of a number of sections throughout the town centre including raising existing flood defence walls, installing new floodgates, repairing and refurbishing the underground water channels (culverts), and building a swale in the natural flood plain to ensure that there is no increase to flood risk in South Ulverston. A new wildflower meadow has also been created as part of the scheme, boosting biodiversity and improving the local environment.

Much of the scheme is underground, so different construction techniques known as 'trenchless technologies' were used. In some cases Environment Agency contractors installed reinforced plastic sleeves to repair pipes – or worked underground wearing specialist breathing apparatus to spray concrete on the inside of the culvert for extra strength.

While this means some of the work isn't visible, it avoided diverting major services – such as gas, water and electric – and allowed construction without having to dig up the road, avoiding unnecessary disruption to residents while the scheme was underway.

Alternative repair techniques were also used to speed up the completion of the project and to reduce disruption to the town. The potential option for the construction of a flood storage reservoir was replaced with an additional large pipe which runs through the railway embankment and a drainage channel to connect to the flood plain.

The scheme will provide a significant improvement in the standard of protection for the area, which has been affected by flooding several times in recent years – most recently in 2009 and in 2012.

Led by the Environment Agency, the project received strong support from partner organisations including Cumbria County Council, South Lakeland District Council, Network Rail and United Utilities, who provided more than £1 million of contributions towards the development.

Similarly, close links to Ulverston Town Council and local community groups have been vital to minimising the disruption to the Cumbrian town, which has many small to medium businesses and is heavily reliant on the tourist economy.

Adrian Lythgo, Chair of the North West Regional Flood and Coastal Committee said:

The Town Beck Flood Alleviation Scheme is a great example of how such important work can be completed with little disruption to a town so heavily reliant on the tourist trade.

Often people don't know a river is running beneath their feet or

property and could cause such devastating results if flooded. This project has delivered a value for money, quality scheme which I am delighted that the North West Flood and Coastal Committee has supported.

The project was shortlisted for its innovative ways of working at the 2018 ICE North West Civil Engineers Awards.

[Open consultation: Environment: developing environmental principles and accountability](#)

We want to know what you think about plans to create a new independent environmental watchdog. What functions and powers should the watchdog have to oversee environmental law and policy?

We're also seeking views on what environmental principles we should apply in England to guide and shape environmental law and policy making.

[News story: New environment law to deliver a Green Brexit](#)

A new Environmental Principles and Governance Bill will ensure environmental protections will not be weakened as we leave the EU, the government has confirmed.

A [consultation has started today](#) on the contents of the Environmental Principles and Governance Bill, which will establish a world-leading body to hold government to account for environmental outcomes.

The body will support our commitment to be the first generation to leave our environment in a better state than that in which we inherited it. It will provide scrutiny and advice as we protect and enhance our precious landscapes, wildlife and natural assets and would be able to hold government to account on environmental legislation.

Subject to consultation, the new body could specifically be responsible for:

- providing independent scrutiny and advice on existing and future government environmental law and policy;
- responding to complaints about government's delivery of environmental law; and
- holding government to account publicly over its delivery of environmental law and exercising enforcement powers where necessary.

The Government is also consulting on its intention to require ministers to produce – and then have regard to – a statutory and comprehensive policy statement setting out how they will apply core environmental principles as they develop policy and discharge their responsibilities. Currently environmental decisions made in the UK – from improving air and water quality to protecting endangered species – are overseen by the European Commission and underpinned by a number of these principles, such as the precautionary principle, sustainable development and the 'polluter pays' principle.

While these principles are already central to government environmental policy, they are not set out in one place besides the EU treaties. The new Environmental Principles and Governance Bill will ensure governments continue to have regard to important environmental principles through the policy statement, which would be scrutinised by Parliament. The consultation seeks views on whether or not the principles to be contained in the policy statement should be listed in primary legislation.

Environment Secretary Michael Gove said:

As the Prime Minister has made clear, we will not weaken environmental protections when we leave the EU. A new Environmental Principles and Governance Bill will ensure core environmental principles remain central to government policy and decision-making. This will help us to deliver a Green Brexit and the vision set out in our 25 Year Environment Plan.

But we will only achieve our aims by also creating a strong and objective voice that champions and enforces environmental standards. That's why our Environmental Principles and Governance Bill will also create an independent and statutory watchdog. This will hold governments to account for delivering their commitments to the natural world.

The consultation, which will run for 12 weeks, seeks views on the most effective way for the new body to hold government to account, which would include, as a minimum, the power to issue advisory notices. The consultation asks what further enforcement mechanisms may be necessary.

The Environmental Principles and Governance Bill will be published in draft in the autumn. Public consultation on the environmental principles policy statement will follow in due course. The Bill will be introduced early in the second session of this Parliament, ensuring these measures are introduced in time for the end of the implementation period in December 2020. EU

environmental governance structures will continue to apply during the implementation period.

The consultation is concerned with environmental governance in England and reserved matters throughout the UK, for which the UK government has responsibility. However, we are exploring with the devolved administrations whether they wish to take a similar approach. We would welcome the opportunity to co-design proposals with them to ensure they work across the whole UK, taking account of the different government and legal systems in the individual nations.

Background

1. You can respond to our consultation on the [Citizen Space website](#)
2. Read [‘A Green Future: Our 25 Year Plan to Improve the Environment’](#)