

# Storm Bert Flood Scheme Updates Pentrebach

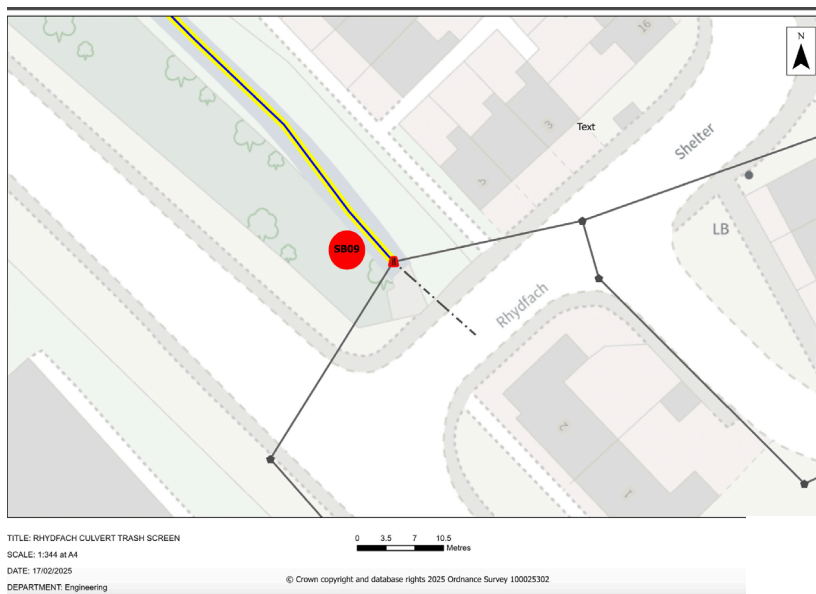


Cyngor Bwrdeistref Sirol  
**MERTHYR TUDFUL**  
**MERTHYR TYDFIL**  
County Borough Council

**May 2025**



## Scheme No: SB09



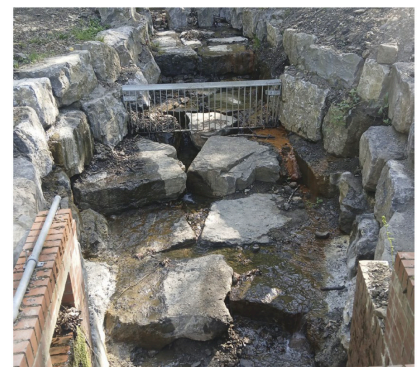
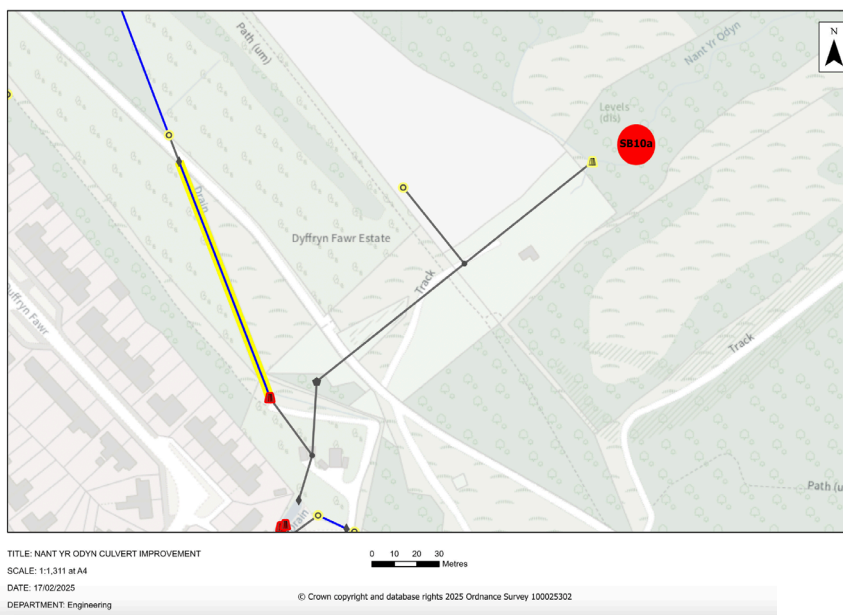
*New trash screen at Rhydfach Lower*

Scheme No.	Location	Works
SB09	Rhydfach	Replacement of trash screen at Rhydfach lower culvert inlet.

### Work status: Complete

The replacement culvert trash screen has now been completed reducing the risk of future blockage within the culvert.

# Scheme No: SB10a



Improvement to headwall structure



Culvert overflow structure under construction

Scheme No.	Location	Works
SB10a	Nant-Yr-Odyn watercourse	Improve headwall structure and trash screen. Install lined channel to overflow structure to protect against future overtopping.

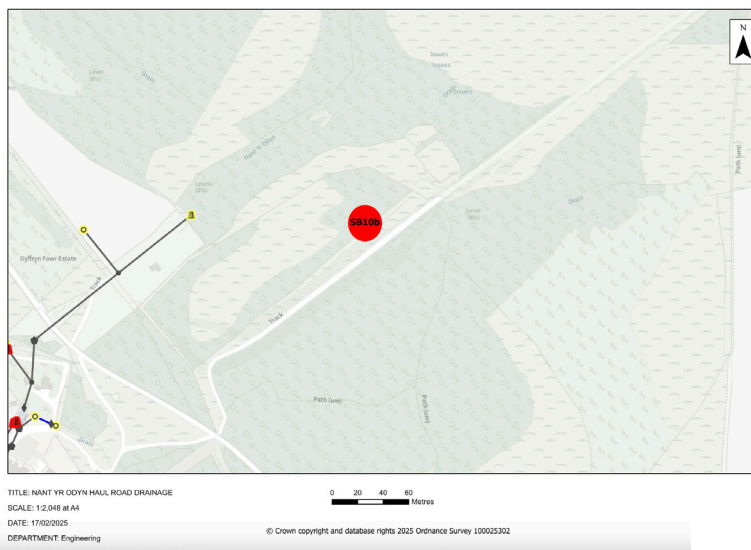
## Works status: Ongoing

Scour to the land immediately to the south of the culvert has now been reinstated with compacted type 1 aggregate, land regraded and maintenance track constructed. The culvert inlet structure has now been replaced with an improved block stone structure to increase storm flow capacity. A new culvert trash screen with increased surface area to reduce the risk of blockage is due to be installed at the end of the overall culvert work programme.

Work is currently ongoing to install a blockstone overflow structure from the culvert inlet to a new headwall 30m downstream of the main culvert headwall. The overflow structure will ensure, any excess flows are captured and diverted back in to the culvert and help to prevent flood flows to the Rhydfach residential area immediately to the south.

Private land where the structure will exist, is being purchased by the local authority to ensure future maintenance requirements.

## Scheme No: SB10b



Haul road drainage grips



Culvert inlet structure



Concrete canvas channel

Scheme No.	Location	Works
SB10b	Nant-Yr-Odyn incline	<p>Formalise haul road surface, install drainage grips to divert surface water to new drainage ditches near Trevithick Trail.</p> <p>Install new 600mm pipe at Trevithick Trail and construct lined channel to outfall chamber at General Dynamics channel.</p>

### Works status: Complete

Haul road surfacing has now been formalised with type 1 material and drainage grips installed at 20m intervals to divert surface water away from the gated entrance to the track and on to land immediately to the east of the haul road.

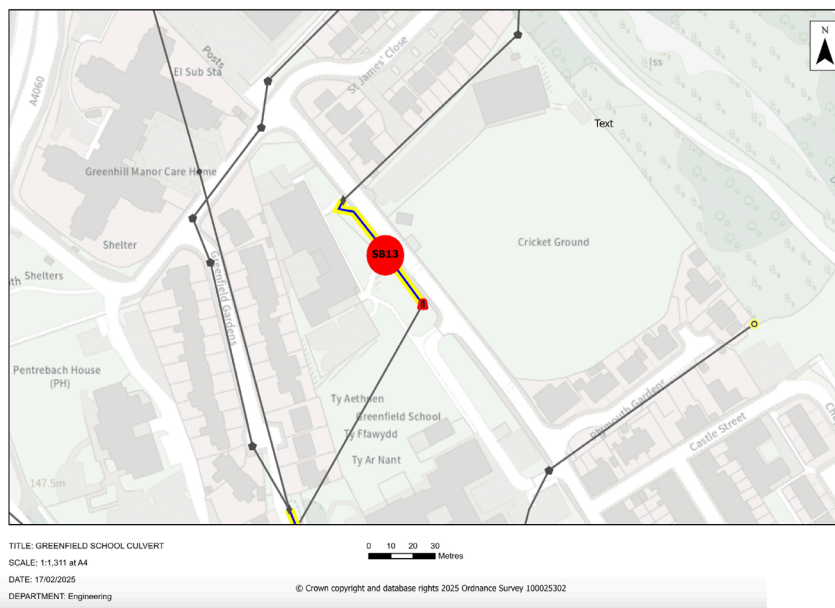
A series of lined channels have been installed to manage surface water from the haul road, directing water to an improved concrete headwall adjacent to the Trevethick trail.

A new 600mm pipe has been installed under the Trevithick Trail directing surface water to a new Concrete Canvas drainage ditch that is connected to the existing drainage channel to the rear of General Dynamics.

This flood alleviation work will help to prevent flooding to the rear of properties in the Rhydfach residential area.



## Scheme No: SB13



Inspection chamber under construction



Culvert installation

Scheme No.	Location	Works
SB13	Greenfield School	Install 50m of new 1.2m diameter culvert to seal watercourse.

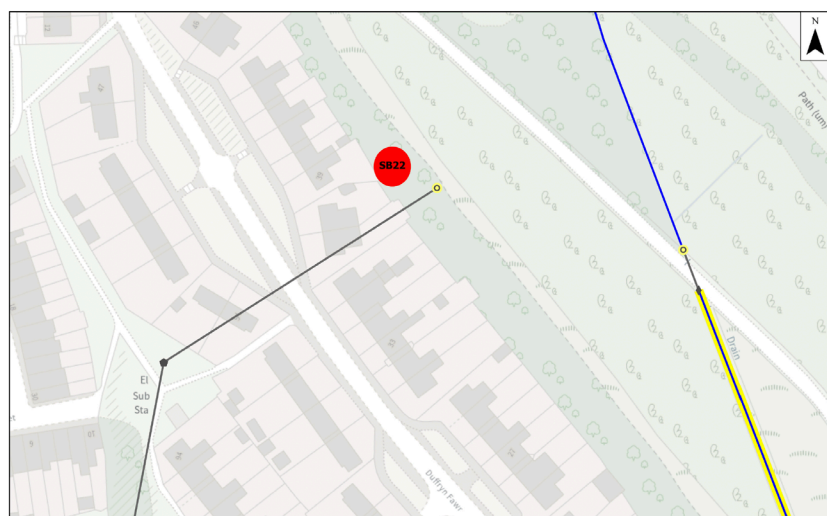
### Works status: Ongoing

Tree and root removal along the watercourse embankment has been undertaken. The 50m installation of a 1.2m diameter culvert and construction of two access chambers at the connection points is now complete.

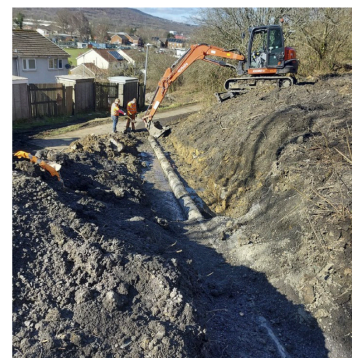
A new retaining wall has now been constructed along the length of the culvert. Seeding to topsoil has now been undertaken to transform the area in to an amenity area for residents. Footpath tarmacking is due to be completed w/c 28/04/25 and wall rendering works upon completion.

These culverting works will help to remove the risk of flooding from the watercourse and protect the residents in the central village area who suffered flooding during November's storms.

## Scheme No: SB22



TITLE: RIO CHAPEL CLOSE DRAINAGE  
SCALE: 1:859 at A4  
DATE: 17/02/2025  
DEPARTMENT: Engineering  
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*Culvert installation*



*Retaining wall above culvert outlet*

Scheme No.	Location	Works
SB22	Land to north of Chapel Close	Expose existing masonry culvert. Install new culvert to existing culvert.  Construct 2m retaining wall.

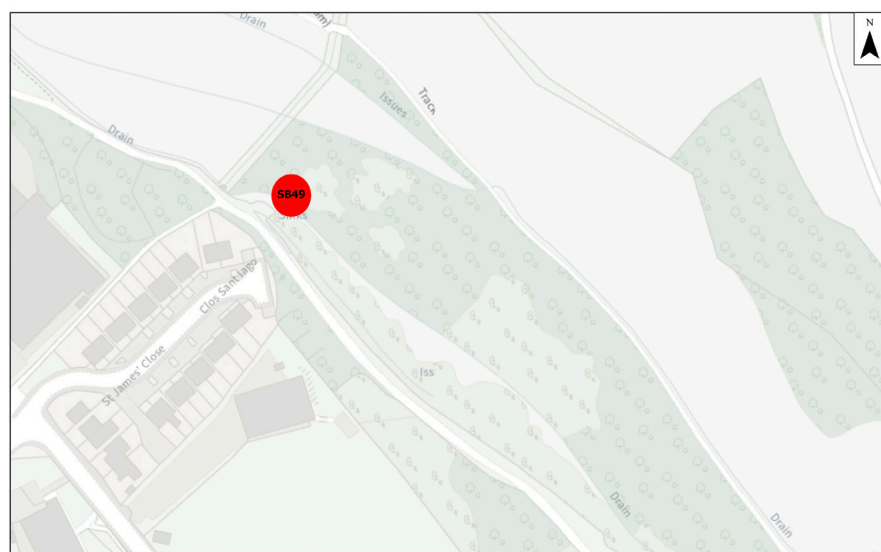
### Works status: Complete

Culvert outlet adjacent to Trevithick trail located and new section of connecting 225mm pipe installed to existing chamber. 3.5m high retaining wall installed to secure excavated embankment. 80m of new 225mm pipework installed to replace collapsed culvert.

New land drain installed at foot of embankment to help prevent surface water runoff entering the highway. The culvert is operating correctly and will reduce the flooding risk of affecting properties on Chapel Close and surrounding areas.



## Scheme No: SB49



TITLE: R/O ST ANDREWS CLOSE CHANNEL IMPROVEMENT  
SCALE: 1:1,311 at A4  
DATE: 17/02/2025  
DEPARTMENT: Engineering  
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*Culvert outlet structure*



*Stone lined trench*

Scheme No.	Location	Works
SB49	Trevithick Trail behind cricket ground	Re-profile and line 100m of existing watercourse with Concrete Canvas.

### Works status: Complete

Vegetation clearance and channel clearance/reprofiling completed. 100m installation of impermeable liner and 225mm perforated pipe to help prevent seepage through the embankment and placement of 80 tonnes of ballast stone undertaken.

Improvement to the outfall structure with the construction of a blockstone headwall have been completed. Vegetation clearance of the "Dragons Teeth" cascade and ditch reprofiling to cut of drains have been carried out to divert runoff back to the culvert inlet.

These works will help to prevent flooding of the Trevethick trail and neighbouring properties on St. James' Close.

# Nant-Yr-Odyn Coal Tip: Investigation Update

- Desk Study report is complete and issued in draft for review.
- Site walkovers and inspections have been undertaken which assessing water bodies and feature mapping.
- WSP Engineers have been on standby and have assessed the tip during periods of inclement weather.
- The Mining Remediation Authority permit has been obtained enabling drilling of boreholes.
- Ground Investigation is on-going.
- Preliminary Unexploded Ordnance Risk Assessment for unexploded ordnance is underway.
- Extensive topographic surveying is underway.
- Earth Science Partnership and WSP have held meetings to discuss Desk Study findings, the Ground Model and investigation proposals, including monitoring systems.
- Commencement trial pitting w/c 28th April. The exercise will see the excavation of 40 pits on and around the tip and will take approximately two weeks.
- Drilling boreholes will commence from early May – the drilling programme will be subject to the Ground Investigation Scoping Report review and budget allowances. Drilling programme is likely to be over a number of months.
- Monitoring will commence whilst boreholes are being drilled with the full programme to commence shortly after completing drilling works. The monitoring programme will need to capture at least one winter period/wetter season.
- Further supplementary investigation and monitoring may be needed depending on emerging conditions and monitoring results.

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If you have any questions or comments you can contact our Engineering Department:



[engineeringandtraffic@merthyr.gov.uk](mailto:engineeringandtraffic@merthyr.gov.uk)



01685 725000



[merthyr.gov.uk](http://merthyr.gov.uk)