

**To:** North Yorkshire County Council  
**From:** Tenant Sibanda  
**CC:** Torang Paiman, Chris Pointer  
**Business Area:** Geological Services Department  
**Date:** 18/02/2019  
**Address:** Wolverhampton Road Oldbury, Warley,  
West Midlands B69 4RJ

**Re:** Selby Asphalt Plant – Erection of 3 no. vertical Bitumen tanks (58m<sup>2</sup> including the plinth). : Flood Risk Technical Note

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### **1.1 Proposed development**

It is proposed to erect 3no. vertical Bitumen tanks to replace 4no. existing horizontal tanks. The existing horizontal tanks occupy an area of 85m<sup>2</sup> and the proposed vertical tanks will occupy an area of 58m<sup>2</sup>. This results in the reduction in hard standing area by 32%. All the other infrastructure on site remains unchanged.

### **1.2 Flood risk background**

The flood risk posed to the Application Area has been assessed by examining the likelihood of flooding, the hazard caused if it were to flood and the vulnerability of the site. The site is operational with an existing site water management scheme in place.

### **1.3 Fluvial flooding**

The entire site is located within low risk of flooding from Rivers or Sea as shown on the Environment Agency's indicative flood map, see Figure 1. The closest main watercourse is River Ouse which has flood defence in place. The site has not reported any flooding events in the past which proves the effectiveness of the flood defence.

### **1.4 Surface water flooding**

Surface water (pluvial) flooding may occur when rainwater does not drain away through the normal drainage systems or percolate to ground, but instead lies on or flows over the ground surface. As such, its occurrence is highly dependent on localised drainage constraints on site. The site is considered to be at very low risk of surface water flooding as shown on the Environment Agency's indicative flood map in Figure 2.

### **1.5 Flood risk from reservoirs**

The site is within flood risk extent from reservoirs and shown on the Environment Agency's indicative map in Figure 3. The flood storage area (shown on Figure 4) to the north of the site poses a risk of flooding to the site. However, the flood defence in place around the flood storage area mitigates flooding risk at the site.

## **1.6 Overall flood risk**

The site is within flood risk extent from reservoirs. However, there is a flood defence in place around River Ouse and the flood storage area, hence the site is at low risk of flooding as shown on the Environment Agency's indicative flood maps. Given the current water management measures in place and the reduced hard standing area, the overall flood risk posed by the erection of vertical tanks is considered to be 'very low' and there are no mitigation measures required.

CEMEX Selby Asphalt Plant

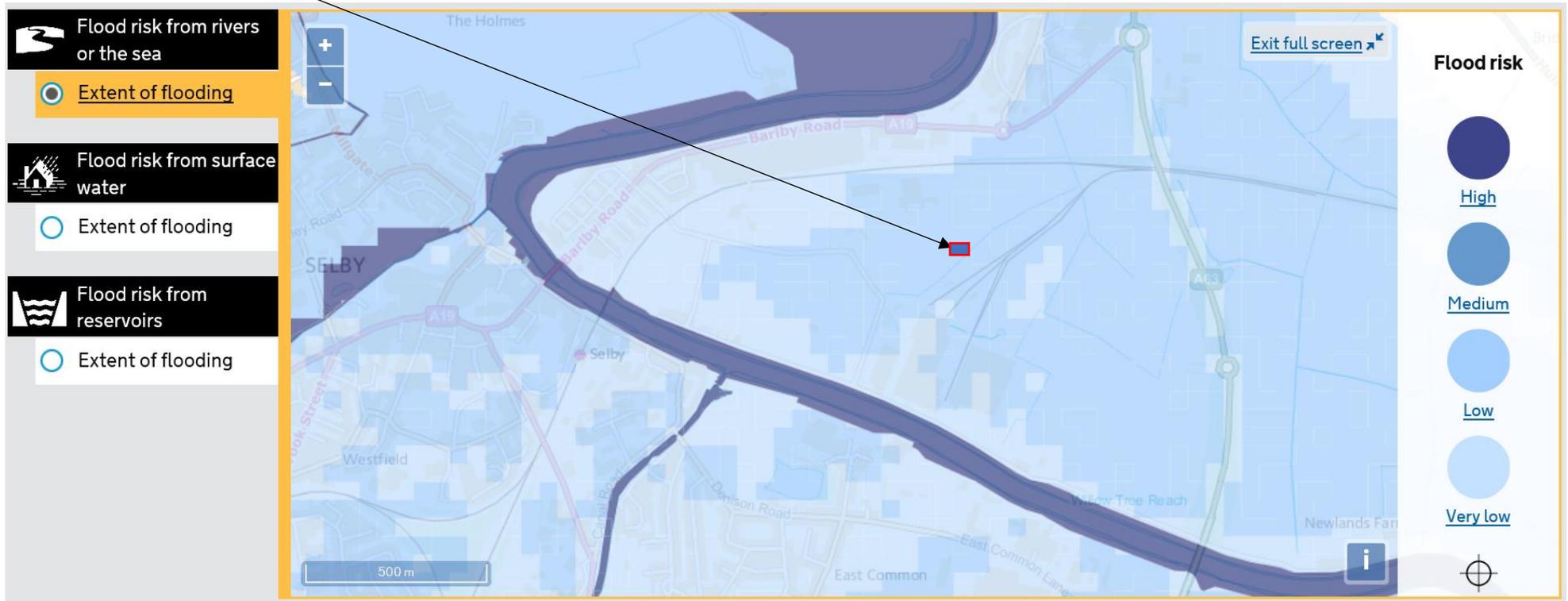


Figure 1: Site has low flood risk form Rivers and Sea (EA flood mapping)

CEMEX Selby Asphalt Plant



Figure 2: Site has very low flood risk from Surface Water (EA flood mapping)

CEMEX Selby Asphalt Plant

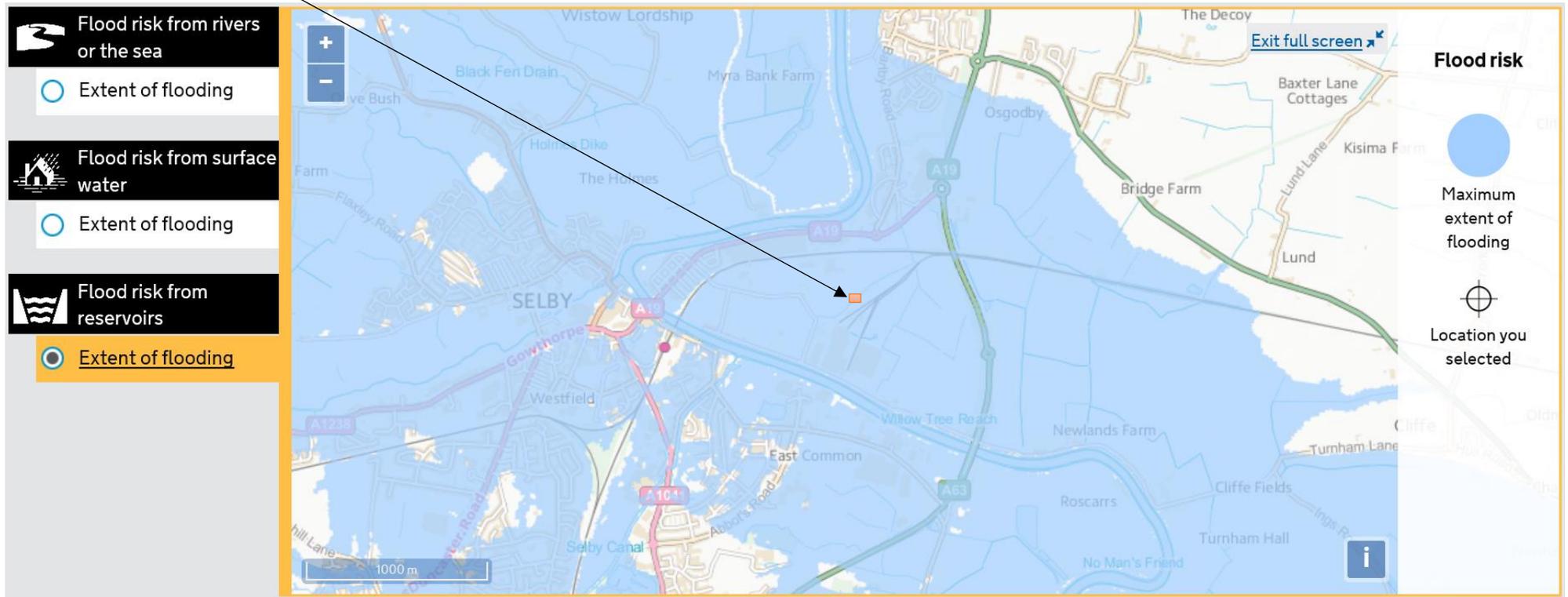


Figure 3: Site is within flood risk extent from reservoirs (EA flood mapping)

CEMEX Selby Asphalt Plant

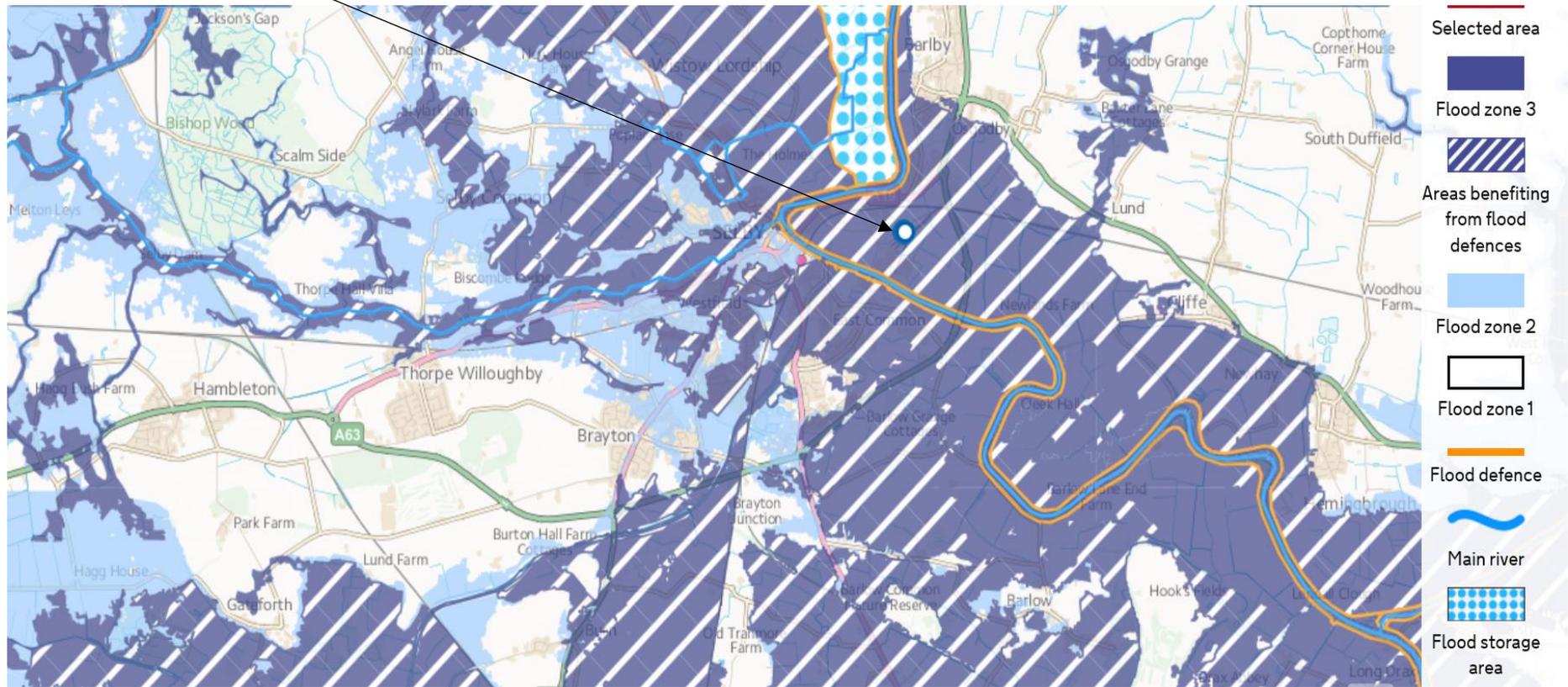


Figure 4: Site is within an area benefiting from flood defences (EA flood mapping)