



Sustainable Water Addingham

1. Use less water

We use about 140 litres per person per day. It's not sustainable!

Climate change is making the problem worse

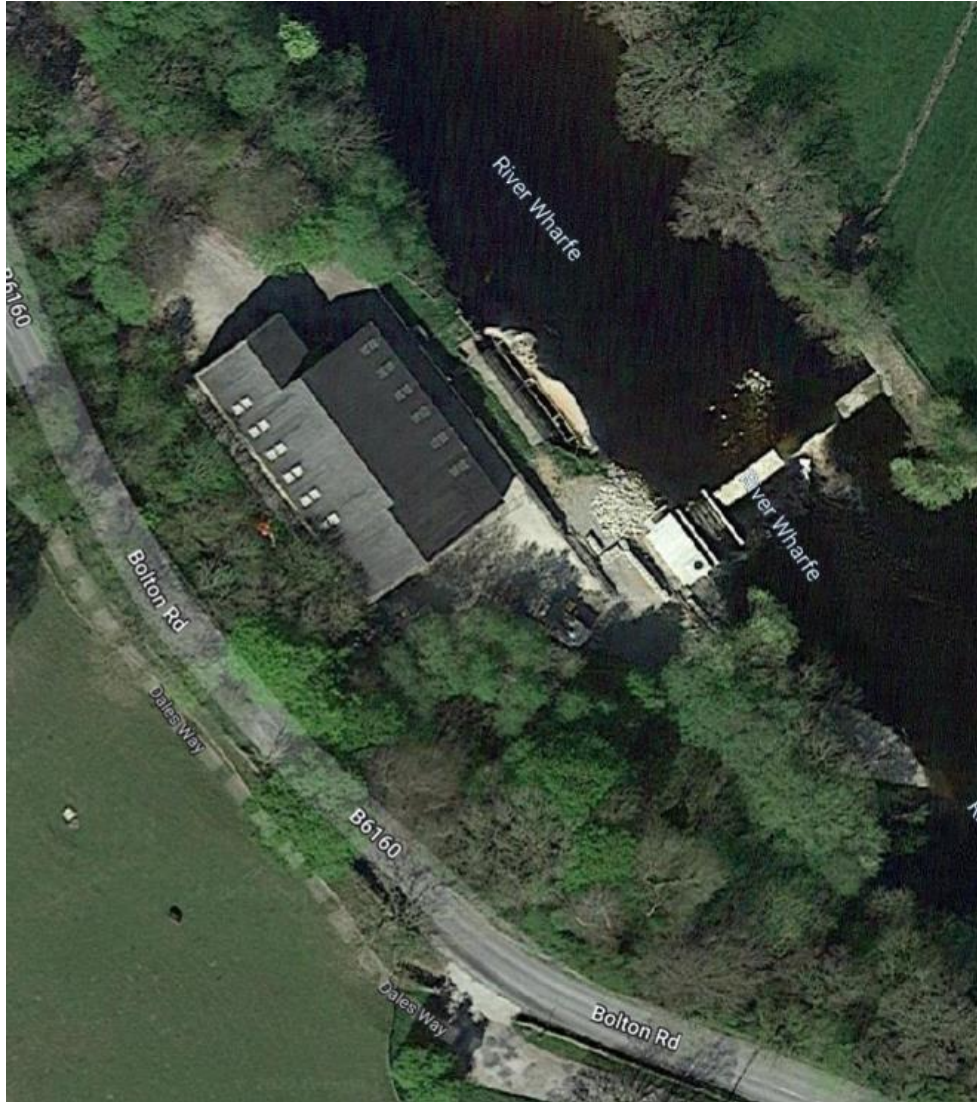
People suffer and the environment suffers

Things to do: install a meter, repair leaks, use rainwater not tapwater for gardens, take shorter showers.....

River Wharfe: low water level can be a problem for water supply and for fish



Water is abstracted at Lob Wood: needs to be carefully monitored and controlled

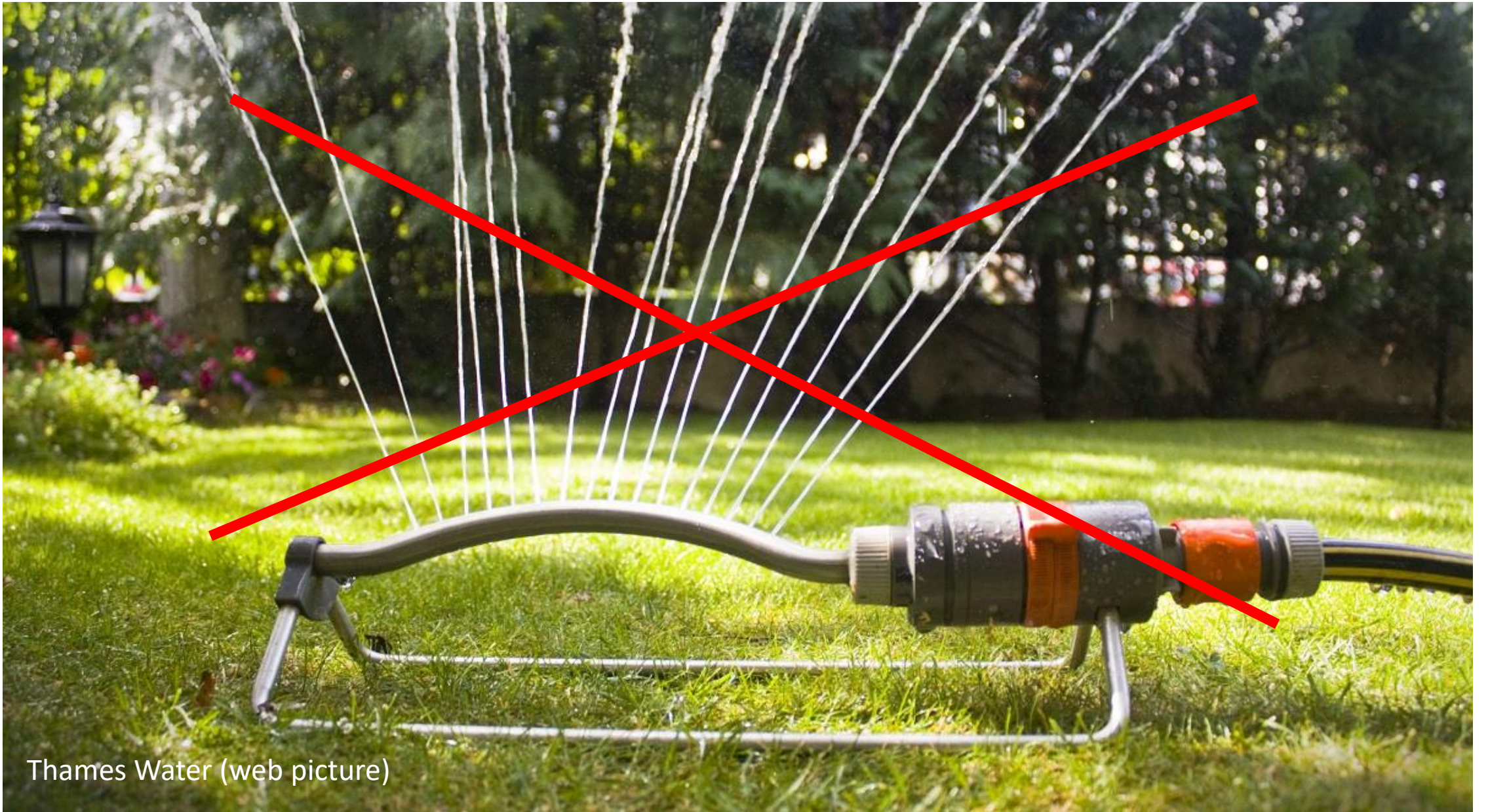


- Yorkshire Water entitled to abstract ca. **25 million cubic metres** per year from Lobwood
- In low flow required to support abstraction by **compensating release** from Grimwith Res.
- Applied for a drought permit in 2018 to increase abstraction – not needed
- Need to minimise abstraction by:
 - Fixing leaks (over 20% in the UK)
 - **Reduced consumption (130 litres per day in 2020 to 120 by 2025)**
- **Need to adapt to climate change**

It might rain a lot in West Yorkshire, but droughts occur, drinking water is valuable and our river ecosystems need protection



There are many ways to save water: here's one, use rainwater not tap water for gardens



Thames Water (web picture)



Sustainable Water Addingham

2. Slow the flow

Storms are more severe and more frequent. **Climate change is making the problem worse**

Homes can be flooded, sewers become overloaded, rivers become more polluted

Things to do: be aware of weather forecasts and Environment Agency alerts, protect your homes, install rainwater butts on down pipes, lay permeable drives to allow water to soak into the ground....

Take steps to protect homes and businesses from flooding



Raised electricity circuit

Catch rainwater in water butts and allow to overflow into garden soakaways



Minimise rainwater runoff into drains by installing permeable drives



Permeable drive in Addingham

Use rainwater from roofs to create a rain garden: slows the flow and benefits wildlife



An Addingham rain garden



Sustainable Water Addingham

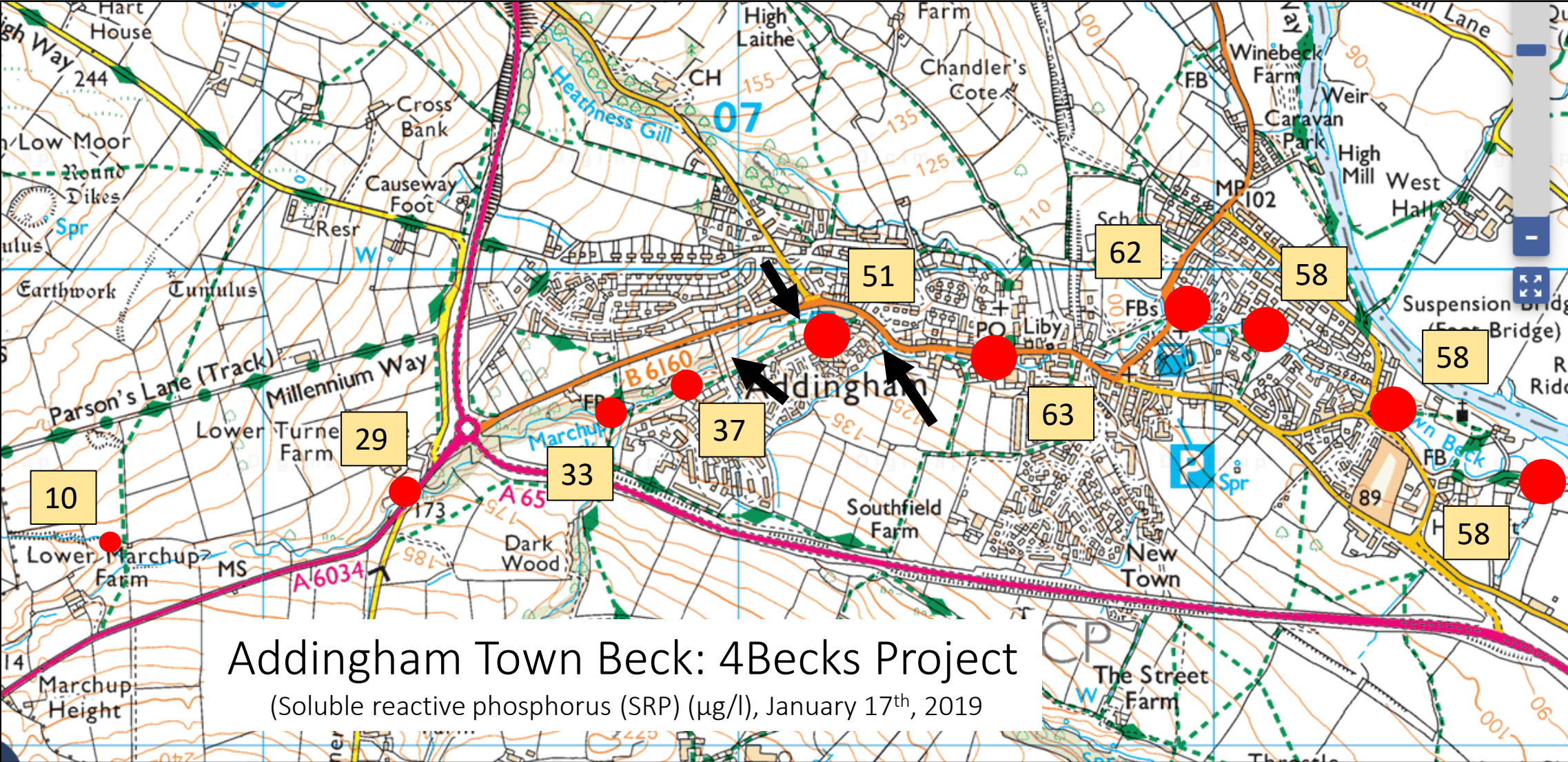
3. Respect our becks

All our becks are polluted by runoff from farmland and from our village drains. **Climate change is making the problem worse**

Pollution damages wildlife in the becks and in the River Wharfe

Things to do: Prevent soil erosion and nutrient pollution. In the countryside, fence off the becks and provide drinking bays for livestock. In the village leave well-vegetated margins along the sides of the becks...

Nutrient pollution from agricultural land and surface water drains increases downstream between Marchup and the centre of the village



Prevent soil erosion and nutrient pollution by controlling access of cattle and sheep to becks



Prevent dirty water entering the surface water drain, check for misconnections



Dirty water from road runoff pollutes our becks



Turner Lane/Silsden Road



Sustainable Water Addingham

4. Create wildlife habitats for freshwater life

Freshwater biodiversity is declining at an alarming rate globally, nationally and locally

Climate change is making the problem worse

Things to do: create wildlife ponds and boggy areas in your gardens and allotments to encourage frogs, newts and dragonflies....

Build a garden or allotment wildlife pond (1)



Build a garden or allotment wildlife pond (2)



Build a garden or allotment wildlife pond (3)



Build a garden or allotment wildlife pond (4, after 12 months)





Sustainable Water Addingham

5. Protect and enjoy freshwater life

Wild brown trout, bullheads, grey wagtails and dippers all still occur in or along our becks. But all are struggling because of pollution and habitat destruction

Climate change doesn't help..

Things to do: leave becksides vegetation undisturbed. Overhanging plants provide protection from predation and keep the water cool

Wildflowers along the beck banks: biodiversity, foraging for pollinators and cover for fish



Identifying riverflies with the Brownies



Birds nesting and feeding:
grey wagtails regularly seen, dippers breeding again this year in Town Beck



Brown trout: once abundant in Town and Back Beck: now struggling to survive



Picture from WTT website