

HWMP – Felixstowe Peninsula Project group meeting on 16 January 2017

Present: JB, PB, JT, TD, GB, John Pawson, Mott McDonald (JP)

Apols: JT, EH

1. The Team introduced themselves to JP.

2. Confirmation of assumptions used in the modelling:

JP circulated memo. **JP to forward to JB as electronic copy please.**

Environmental flow 5 l/s using water coming in from Golf course, etc – thus excluded from the model.

Assumed available storage at Kings Fleet 23 ML. This will be checked/refined – see below.

For Option A additional storage at Kings Fleet will be required. JP will consider suitable siting.

JP will not consider location of farm storage – i.e. will supply water to land boundary.

Assuming level of service 1 in 20 years. This is based on old Cranfield work. **TD to check with Jerry Knox if this has been updated or new advice given in the light of climate change.**

The Governance model will need to cover the expected level of service plus disclaimer when water is no available. **GB to note**

Annual demand – as per info supplied by TD to JP.

Demand profile – agreed to work off available monthly demand curve at this stage. Further refinement later when extent of on farm storage and when farmers want to draw the water.

GB to provide JP with Pete Willett's final report.

3. Scenarios:

Option A: based on 2 days peak demand – 60ML storage on farm; 450 ML at Kings Fleet. This would mean an area of approx. 300m x300m x5m depth (c 9 Ha).

Option C: 23 ML at Kings Fleet, rest, 489 ML, on farm.

The available storage at Kings Fleet is a crude estimate and needs to be refined. Likely that greater capacity is available. JP to utilise Lidar, etc to see if this can be improved. NB. Need to ensure maximum winter level does not cause flooding to adjacent farmland – but mitigation ditch might be possible.

GB stated that GPS levels could be done to increase accuracy if needed.

It was agreed not to bother modelling Option B (intermediate scenario) at this stage. Will do so after landowner meeting when the extent of on farm storage and seasonal draw down is better understood.

4. Pipeline

TD confirmed siting of demand centres for the purposes of assessing optimal pipeline route and pumping requirements.

Assuming that the main pipeline and spurs to landowner boundaries and any associated pumps will be part of the project. Beyond these demand centres the required pipework is the landowners' responsibility.

Siting of pump – assume remains where it is at Kings Fleet, but possible to use other locations where 3-phase power available. May need two pumps – one to distribute the water and another to ensure excess flood water can be pumped away to the estuary as quickly as possible.

Factors to weight pipeline routing – roads, rivers, flood zones, buildings, environmental designations, archaeology.

JB to provide available archaeological report to JP.

No weighting for EAOW route. If optimal pipeline route affected by this further discussions will take place. Timing and likely route further away from the river mean this is unlikely.

5. Next Steps

JP to provide concept report and initial pipeline routing by end January. More detail by end Feb.

TD to arrange meeting with landowners for early March.

ESWAG AGM 10 Feb at Riverside Centre, Stratford St Andrew. Dr Therese Coffey attending to talk to members and may stay for some of the open session. Henry Leveson-Gower, Defra (HLG) also attending and will stay on to talk to us. **JP to attend too.**

Next meeting: 10 Feb after the ESWAG AGM – discussion of available data and draft governance model. HLG to be invited .