

BLACK SLUICE

INTERNAL DRAINAGE BOARD



Joint Works Committee Meeting

Tuesday, 3rd October 2023 at 2:00pm

Station Road, Swineshead, Lincolnshire PE20 3PW

Front cover: Construction of access road to Sempringham Pumping Station



Black Sluice Internal Drainage Board

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Our Ref: DW/JB/B10

Your Ref:

Date: 26th September 2023

To all Northern and Southern Works Committee Members

Notice is hereby given that a Meeting of the Joint Works Committee will be held at the Offices of the Board on Tuesday, 3rd October 2023 at 2pm at which your attendance is requested.

Chief Executive

AGENDA

1. Recording the meeting.
2. Apologies for absence.
3. Declarations of Interest.
4. To receive and, if correct, sign the Minutes of the last Meeting of the Northern Works Committee held on 13th April 2023 (**pages 1 - 12**)
5. To receive and, if correct, sign the Confidential Minutes of the last Meeting of the Northern Works Committee held on 13th April 2023 (**pages 13 - 19**)
6. Matters Arising from the Northern Works Committee Minutes.
7. To receive and, if correct, sign the Minutes of the last Meeting of the Southern Works Committee held on 4th July 2023 (**pages 20 - 26**)
8. To receive and, if correct, sign the Confidential Minutes of the last Meeting of the Southern Works Committee held on 4th July 2023 (**pages 27 - 35**)
9. Matters Arising from the Southern Works Committee Minutes.
10. To receive a report on Engineering Works for 2023
 - (a) Maintenance (**pages 36 & 37**)
 - (i) Flailing and Cutting Maps (**pages 38 & 39**)
 - (ii) Winter Cleansing 2023-24 Map (**page 40**)
 - (b) Projects (**pages 41 - 47**)
 - (i) Bank Slips Map 2023-24 (**page 48**)
 - (c) Capital Schemes Budget (**page 49**)
11. To receive an update on the Lincolnshire Reservoir (**pages 50 & 51**)
12. Rainfall (**pages 52 & 53**)
13. Any Other Business.

BLACK SLUICE INTERNAL DRAINAGE BOARD

MINUTES

of the proceedings of a Meeting of the
Northern Works Committee

held at the Offices of the Board on the
13th April 2023 at 15:30

Members

Chairperson - * Mr P Holmes

Cllr T Ashton	Cllr R Austin
* Cllr P Bedford	* Mr M Brookes
* Mr D Casswell	* Cllr M Cooper
* Mr J Fowler	Cllr M Head
* Mr M Leggott	* Mr R Needham
* Cllr F Pickett	* Mr J E Pocklington
* Mr P Robinson	* Cllr P Skinner
* Mr R Welberry	

(* Member Present)

In attendance: Mr I Warsap (Chief Executive)
Mr D Withnall (Finance Manager)
Mr P Nicholson (Operations Manager)
Mr S Harrison (Works Manager)
Mr K Methley (Pump Engineer)
Mr M Rollinson (Southern Works Chairperson)
Mr J Emerson (Guest)

2122 Recording the Meeting – Agenda Item 1

Members were informed that the meeting would be recorded.

The Chairperson welcomed Mr J Emerson (guest) and thanked the Officer's for organising an interesting and informative inspection.

2123 Apologies for absence - Agenda Item 2

Apologies for absence were received from Cllr R Austin, Cllr M Head and Cllr T Ashton. Cllr T Ashton attended the inspection tour.

2124 Declarations of Interest - Agenda Item 3

(a) North Forty Foot Bank - Land post-lagoon & possible bushing works

Mr J Pocklington declared an interest in 2129(d) regarding land post-lagoon and possible bushing and desilting works.

(b) Open Channel Transfer of raw water to the Lincolnshire Reservoir

Mr D Casswell declared an interest in 2131 regarding the open channel transfer of raw water to the Lincolnshire Reservoir.

2125 Confirmation of Co-opted Members (co-option and removal) - Agenda Item 4

The Chief Executive explained that this item is for the purpose of the co-option of new members and the removal of any existing co-opted members.

The Chairperson invited Mr J Emerson to become a co-opted member, who accepted.

The Chairperson noted that the concept of the co-opted members is about succession planning, with the idea that co-opted members are willing for election onto the Board should the circumstances arise.

2126 Minutes of the last meeting - Agenda Item 5

The Minutes of the Joint Works Committee, which was held on 4th October 2022, copies of which had been circulated, were considered. It was AGREED that the Minutes should be signed as a true record.

2127 Confidential Minutes of the last meeting - Agenda Item 6

The Confidential Minutes of the Joint Works Committee, which was held on 4th October 2022, copies of which had been circulated, were considered. It was AGREED that the Minutes should be signed as a true record.

The Chairperson thanked the Chief Executive for his work and involvement regarding the Lincolnshire Reservoir.

2128 Matters Arising - Agenda Item 7

There were no matters arising.

2129 Discuss the Operations Report and Inspection - Agenda Item 8

The Operations Manager led discussions about the inspection, as follows.

(a) Ewerby Fen Pumping Station - Replacement control panel

The control panel at this station is proposed for replacement, estimated at £60,000.

(b) Replacement of Fenmore Farm access culvert

Following the failure of this culvert, the Board provided an estimate for replacement of it, the Board has now completed the replacement.

(c) Great Hale Pumping Station Weedscreen Refurbishment

This scheme is to replace the moving parts to include the trolley and control cabling, estimated at £75,000.

(d) North Forty Foot Bank - Land post-lagoon & possible bushing works

The Operations Manager reminded the committee that the landowner has requested that a section of the riparian watercourse adjacent to the lagoon is cleaned out. This was not agreed within the terms of the lagoon. Mr J Pocklington left the meeting whilst this was discussed.

Mr M Leggott felt that the landowner is asking too much, it not being ascertained whether the watercourse has received a lot of silt as a result of the discharge of the water. With regard to the removal of the bushes and hedges, Mr M Leggott also felt this was not down to the Board and expressed concern that if the Board completed it in this circumstance, it would be expected by others elsewhere. Mr M Leggott acknowledged that the landowner has been helpful to the Board with the lagoon, questioning if the Board could meet him 'halfway' and for him to prune the bushes back and for the Board to clean the watercourse out.

Cllr M Cooper noted that it is clear from how established the bushes and trees are that there has been no work done to them for a number of years and so felt it was too much for the landowner to expect it all to be completed by the Board, agreeing with Mr M Leggott's suggestion to go 'halfway'.

Mr J Fowler noted that the Board have saved money by using a smaller area for the lagoon, therefore meaning the landowner has taken on more risk with more silt depth and so the Board potentially owe him the courtesy of clearing the watercourse.

Mr M Rollinson questioned the cost involved with the work the landowner has requested be completed? The Operations Manager noted that they would use the flail on the excavator to flail back the bushes and then use the same machine to complete the cleaning out of the watercourse, it equating to around two days work.

Mr D Casswell added that if the Board has saved c£7,000 due to having a smaller lagoon area he felt the Board should complete this work.

The Chairperson gave his opinion, noting the saving the Board has made by using a smaller site, suggesting that it might have been that there has been more silt in suspension because it was a smaller site and therefore hasn't had a chance to settle down, therefore meaning that more silt may have come out and deposited in the watercourse. The Chairperson continued that his suggestion would be to propose to the landowner that the cost of the flailing is split equally between the Board and himself and the Board fund the desilting of the watercourse entirely.

Mr K Casswell noted that the hedge hasn't become that established in a short period of time.

The Chairperson added that the landowner also lost a year of cropping because he had planned for the whole site to be used as the lagoon, which was then reduced.

The Finance Manager informed the committee that this is a grant funded scheme and so is not a cost to the Board, further noting that there are sufficient remaining funds within the scheme to complete this work.

Cllr P Bedford questioned if the permission of the owner (bungalow next door) of the hedge has been sought?

The Chief Executive noted that it would be a condition that the landowner obtains permission from the hedge owner (owner of the bungalow).

It was further confirmed that the spoil will be left on the landowner's land for his disposal.

Mr M Leggott questioned whether this site would be used again in the future? The Chairperson responded that it won't be used again for many years.

The Operations Manager continued that it would be prudent to write this into any future site contracts which use existing watercourses; to agree it is in an agreed condition before and in the same agreed condition afterwards.

The Finance Manager added that if the Board were desilting any other watercourse, it would be de-bushed as part of that process anyway.

The Chairperson added that it perhaps should have been debushed and desilted before the lagoon work started, due to it being the outfall.

The Operations Manager explained that the water that is put into the lagoon is held in the lagoon until the silt falls out of the water (this can be as little as 24 hours). Therefore, the water within the lagoon is only in there as long as it needs to be, the Operations Manager therefore challenged the stance of the landowner that the process has caused a build up of silt in the outfall drain, as it is water and not silt.

The Chairperson acknowledged this but felt it would be goodwill to complete the works as suggested in this instance.

The Chief Executive concluded that, subject to the landowner gaining permission from the hedge / bush's owner (property owner), the Board will complete the flailing works at 50% cost to the Board and 50% paid by the landowner, and the Board will complete the desilting of the watercourse at no cost to the landowner. The landowner will be responsible for spreading the arisings on his land. All AGREED.

Mr J Pocklington was invited back to the meeting. The Chairperson informed him of the proposal, as above, to which he was satisfied and happy to accept. The Operations Manager noted he will liaise with Mr J Pocklington to progress this.

(e) Residential development works – Heron Park, Wyberton

The Operations Manager referred to the footpath viewed on the inspection tour within the Heron Park, Wyberton development that is falling into the drain.

The Operations Manager continued that they have had no further correspondence from the developer since the last meeting and so are of the understanding that it will be removed due to it not being fit for purpose and Lincolnshire County Council refusing to adopt it because of this.

The Chairperson noted his concern that if it is not removed, and just left, it will fall into the drain which the Board will then need to remove.

Mr K Casswell noted that they (developer) will have to remove it because if somebody fell off the footpath, they would be liable. The Chief Executive added that their positioning of the security fence suggests that they know this.

The Operations Manager next referred to the wooden fences on the opposite side of the watercourse to the footpath, noting that it is in the way of access for the Board's machinery. It has not been consented and so the Board can remove it due to it being an obstruction. The Chairperson noted that there needs to be dialogue with the developer before the Board need to gain entry and simply remove them. The Chief Executive confirmed that the Board will write to the developers about the unconsented fencing and gates and will ask for it to be removed immediately.

Mr K Casswell suggested that Boston Borough Council planning department should also be involved to show the consequences of their planning permissions. Cllr P Skinner noted his support to the Board and will bring it to the attention of the planning department.

Mr M Leggott referred to the byelaws, questioning whether block paving is specifically listed? Suggesting it perhaps should be. The Chairperson felt it was covered under 'permanent structure'.

The Operations Manager noted that there have been instances where the site is half developed and the byelaw distance is still being discussed.

Cllr P Skinner noted that he will contact the Chair of Flood and Water Management Scrutiny Committee because they did a substantial piece of work on SuDS and felt that the 9-metre byelaw should be incorporated within that document.

Mr M Rollinson noted that a big part of the problem is that the developer can walk away, and the new property owners have no idea that the Board are going to gain access with heavy machinery.

The Chief Executive noted that this was also discussed at the Structures Committee meeting and an action arose from that to contact Lincs ADA, adding that it needs getting to high level planners and needs to have the same respect and discipline that other utilities such as a gas pipe / electric cable would.

The Chairperson noted that if the Board took a 'zero tolerance' approach the developers would soon get the understanding and would also be able to bid to purchase the building land in accordance with how many houses can be fit on the land taking into consideration the 9-metre byelaw.

Mr M Leggott noted that he was horrified to see what had been done by the developers at this site and expressed his concern for future maintenance, expressing again that he feels every possible obstruction i.e., block paving etc. should be listed in the byelaws to make it exceptionally clear. The Chief Executive noted that they will review it.

Mr R Needham felt that the planning department should not be giving planning permission unless the 9-metre byelaw is adhered to.

Cllr P Bedford noted that the planning department does ask for comment from the Board on every planning application received and so the Board needs to ensure that the comments back are of a stronger nature.

The Operations Manager added that the Board do respond to the planning applications, but that the Board's 9 metre byelaw is still not recognised in the way that other utilities are. The Board requires unrestricted access to be able to maintain the watercourse.

The Chairperson questioned if it requires explaining in the byelaws why it is so important to have the 9-metre unrestricted access.

The Finance Manager explained that the byelaws are sealed and approved by the Defra Minister and so can't simply just be changed by the Board. The Finance Manager continued that Board's Policy No. 9, Relaxation of Board's Byelaw No 10 (the 9-metre byelaw), could be withdrawn if the Board chose to.

Mr M Leggott felt it was perhaps an issue to be looked at by ADA and the only thing within the 9-metre byelaw should be grass.

Mr J Fowler suggested that the Board should be investigating, through legal means, how it can be included in the property deeds so that new property owners are aware.

(f) Proposed piping of Drain 6/29 – Greencore, Marsh Lane

The Operations Manager reflected on a conversation on site during the inspection tour and that the committee see the proposal to pipe the dyke as acceptable, subject to the correct number of chambers and all the lateral connections being identified and fitted into the new system.

The Operations Manager continued that the Board has been asked to provide a tender price for the works. If the Board is not successful, then the work will still be carried out to Board specification. The Chairperson suggested that if the Board are not the successful tender, that one of the operations team carries out inspections whilst the work is being completed and not wait until it has been completed.

Mr D Casswell questioned if the size of the pipe will have capacity for increased water flow following more development etc.? The Operations Manager confirmed this will be considered.

Mr M Leggott echoed the Chairperson's suggestion of doing regular inspections whilst the work is undertaken.

(g) Q1 Development - Wyberton Towns Drain

The Operations Manager noted that it was expected that the realignment of the Wyberton Towns Drain would take place this year.

The developer is in receipt of an estimate from the Board to complete both the bushing work and to realign the c100m of drain over to the new proposed position.

In addition to this work, it is also proposed that the Board would complete the realignment of c70m of drain downstream (Board funded through the Development Reserve). Unfortunately, the developer has not been in contact to progress this further yet. With regard to the bushing work, this now would not be able to be completed until around October, unless the developer proposed an environmental and nesting bird survey for works to be completed before this.

(h) Kirton Marsh Pumping Station - Electrical supply change

This was discussed at Minute 2130 1(d)(ii).

(i) Outer Dowsing Wind Farm Project

The Operations Manager noted that this doesn't affect the Board too greatly, but are involved, alongside other IDBs, around an agreement as to how they will pass Board maintained watercourses. The preferred option is underneath the bed which they are currently moving forward with.

2130 Receive the Engineer's Report - Agenda Item 9

1. Capital Asset improvements

(a) 2022/23 Defra/EA Funded Flood and Coastal Erosion Risk Management (FCERM) Grant in Aid (GiA) Schemes

(i) Remote monitoring, telemetry H&S scheme

This scheme is now completed, all pumping stations now have remote telemetry control, enabling the change to water levels remotely, and CCTV, enabling the identification of problems without having to physically send a person.

(ii) North Forty Foot Cleansing / Revetment

This scheme is in its final stages, the remaining element being the installation of a liner in the pipe that goes from the North Forty Foot, under the road and through the garden of the property adjacent to Langrick Road. The Works Manager confirmed that he is just waiting for confirmation of a delivery date for the pipe liner, as it is imported from Germany.

Lincolnshire County Council are responsible for the 25 metre section of pipeline underneath the highway and will be made aware of the contribution required (£22,000).

(iii) Black Sluice Catchment Strategy

The consultants are on programme, with the next update meeting scheduled for this month.

There are also representatives of the Environment Agency (EA) and Anglian Water (Mott McDonald) that have been involved in this because of the potential impact of other schemes such as the Lincolnshire Reservoir and Lower Witham Strategy. It was noted that if the Board tried to secure funding from the Lower Witham Strategy, it would mean the Board competing against the EA for the same pot of funding and therefore wouldn't be a win/win situation. There is £110 million of funding allocated for all the Lower Witham projects. The Lower Witham Strategy has split the geographical area into compartments and within the compartments that cover the Board's catchment, there are six pumping stations that have the opportunity to gain from the strategy. Mr K Casswell added that the EA has shared that the banks are not in good condition.

(b) Information on site inspection at Trinity College, Damford, Ewerby & South Kyme

The Operations Manager explained that he has now taken it to other Officers within the Environment Agency (EA) to hopefully progress it, further explaining that the Partnership and Strategic Overview Officer at the EA (person who assess the Board's bids for funding) is also now the lead on the Lower Witham Strategy, who wasn't aware of the situation with these pumping stations until now. The four pumping stations are some of the six pumping stations within the relevant geographical compartment of the Lower Witham Strategy. The Operations Manager added that he is hopeful that it will now be moved forward, following previous difficulties around it not being a priority because it has been a dry time and therefore not caused any problems.

(c) 2022/23 Board funded capital schemes

(i) Major Slip repairs

Eight of the major slips have now been repaired on a priority basis, however, there have been some more slips since those last reported, which will continue to be repaired based on priority. The methodology used to repair the slip varies dependant on various factors such as the size of watercourse, soil type and historic knowledge known of the area. However, sometimes the banks will still slip over the revetment, in which case alternatives are considered, such as laying the bank back flatter which reduces the pressure.

It was also noted that the Board have recently obtained some free soil from a development site in Holbeach which is being used for slip repairs.

(ii) Jetting to Major Pipelines – Estimate £20,000

This is an ongoing process, with outstanding jetting to complete in Donington and Kirton. The remaining areas are proving inaccessible for the jetting machine, but the landowners and residents have been made aware and are willing to work with the Board to gain access.

(iii) Alternative Access Programme - Estimate £20,000

The Alternative Access Programme for summer maintenance works is still being developed, there are some areas where removal of established bushes is required or the installation of access culverts into side entry drains.

(d) 2023/24 Board funded capital schemes

(i) Great Hale Fen Pumping Station Pump Refurbishment - £75,000 (estimate)

The scheme involves the replacement of the trolley and control section.

It was confirmed that all the trolleys are now the same make (Bosker) and that the only spare parts around are for the old trolley.

(ii) Kirton Marsh Electricity Supply Change - £10,000

The incoming supply is currently located below the floor level of the pumping station and is due to be relocated, just waiting for National Grid to provide a date to complete this work.

(iii) Trinity College Pumping Station under pump inspections – Estimate £5,000

The Operations Manager noted that it is good practice to get under the pumping stations to complete visual inspections. Whilst conducting these inspections, the siltation within the channel is removed.

For some of the pumping stations, there are no records of when the pumps were last inspected underneath, which has resulted in some of the parts rusting away and so it is an important procedure to complete as soon as possible.

Mr R Needham questioned if there is going to be a programme to complete these inspections every so many years? The Operations Manager confirmed that, going forward, there are two/three pumping stations scheduled each year. Further noting that it is trying to be programmed to coincide with damming off the drain for desilting with the underneath inspections.

2. Proposed Works 2024/25

(a) 2023/24 Defra/EA Funded Flood and Coastal Erosion Risk Management (FCERM) Grant in Aid (GiA) Schemes

(i) Bicker Fen & Ewerby Fen Catchment Works Study - £20,000 Estimate

As these schemes develop, there may be some change to how the money is drawn down and used.

(ii) Wyberton Marsh Pumping Station New Transformer - Estimate £50,000

A site meeting is scheduled for a couple of weeks' time. A business case will be prepared to apply for FCERM GiA funding for this work.

Mr M Rollinson referred to the 9 of the transformers that have been identified as end of life, questioning which is scheduled next for replacement? It was confirmed that eight of the nine pumping stations are programmed for replacement over the next three to four years. Black Hole Drove has already been done as it was struck by lightning and so was replaced through the insurance in 2010.

Mr K Casswell questioned if it is 100% grant funded or if the Board will need to make a contribution? The Operations Manager confirmed it will be fully funded by grant. It being further confirmed that the estimate is for the cost of the transformer and not for any of the civils work.

The Chairperson noted previous discussion about placing them outside in case of explosion? The Pump Engineer noted that Wyberton is going to be placed outside.

(b) 2024/25 Board funded capital schemes

(i) Jetting to Major Pipelines – Estimate £75,000

The Officer's are in the process of putting together the tender for jetting works as per the map displayed on screen, predominately in the Kirton area.

(c) Pumping Station Schemes

(i) Kirton Marsh Pumping Station under pump inspections - £11,000 Estimate

As discussed at item 1(d)(iii), Kirton Marsh is proposed for under pump inspection next year.

The Chairperson referred to the photo displayed on screen of the last time the silt was removed under the pump in 1997, questioning if it is expected to have that amount of silt built up again?

The Operations Manager expected similar amounts of around three feet.

The Chairperson noted that it must make the pumps more efficient.

(ii) Kirton Marsh refurbishment 1 pump and 1 motor - Estimate £30,000

Whilst the under pump inspection is taking place, it is proposed that the pump and motor are refurbished.

(iii) Ewerby Fen Pumping Station replace control panel – Estimate £60,000

The control panel is due for replacement, it not being cost effective to refurbish.

3. Emergency Response Plan

The Operations Manager noted that this hasn't changed, reminding the committee that it is classified as an emergency when the level in the South Forty Foot Drain (SFFD) reaches 2.30m ODN, the Board's Officer's will begin to turn off pumps at 2.70m ODN.

Mr K Casswell added that this is a voluntary procedure to reduce the risk of the SFFD banks breaching, which the Environment Agency (EA) welcome.

4. Crop Loss

The Operations Manager noted that he has included the Crop Loss Compensation policy to remind the committee what the Board will pay for various crops and how to claim.

2131 To receive an update on the Open Channel Transfer of raw water to the Lincolnshire Reservoir - Agenda Item 10

It was agreed and thereby RESOLVED to exclude the public from the next part of the meeting due to the confidential nature of the business to be transacted, in accordance with section 1(2) of the Public Bodies (Admission to Meetings) Act 1960.

Mr R Welberry left the meeting during this item.

2132 Report on Rainfall - Agenda Item 11

The rainfall figures at Swineshead were circulated. The Committee RESOLVED that this report be noted.

2133 Any Other Business - Agenda Item 12

(a) Cattle at Swineshead Pumping Station

Following the visit today, the Chairperson requested that the operations team produce a solution to prevent the cattle going across it, noting that it needs the support of the Board. The Pump Engineer noted that there are gates already there, it is just a case of making the decision to lock them.

(b) Landowner notification of entry to fields

Mr M Leggott noted that in November 2022, the Board completed flailing along the banks of the North Forty Foot Drain. Nobody contacted Mr M Leggott and the machinery went through his fields around his farmyard, leaving deep ruts. If somebody had simply telephoned, he would have opened the gates and given access through the yard. Mr M Leggott suggested it would be beneficial for the machine operatives to have a list of landowner contact numbers to be able to ring. The Chairperson noted that he has experienced the same problem and agreed with the suggestion.

The Operations Manager felt that the onus shouldn't be on the machine operator to do that. Mr M Leggott suggested it be the job of a foreman to ring ahead. The Chairperson clarified that they are not blaming anybody specifically, but that somebody should be contacting the landowner in advance to see if there is an alternative route. The Finance Manager noted that the Board previously used a text message system and will review to get a new system in place.

(c) Cleansing arisings

Mr R Needham noted that the Board have been cleansing at Great Hale and Little Hale Fen, noting that some of the waste has been banded and some not, questioning if there is a policy around that? The Works Manager noted it was around the sheer amount being taken out, noting that one of the bands was dug slightly deeper than it should have been which is why it looks like it is not to full capacity.

(d) North Forty Foot Drain Desilting

Mr M Leggott referred to the desilting of the North Forty Foot Drain (NFFD) and where there were houses obstructing, the spoil was brought away to a cradle, questioning if the Board have been granted a licence to be able to continue moving waste in the future? The Operations Manager confirmed that if the Board remove silt from the drain, it can be moved one move with the machine. If it is then put on a trailer and transported from one field to another, it is classed as waste transfer and would require testing. Further noting that the earliest they will be back completing work on the NFFD will be towards the end of this year. Mr M Leggott questioned the delay? The Operations Manager noted it is just around timescales and other projects. Mr M Leggott felt he could have been asked and would have agreed to have the spoil tested to enable movement. The Operations Manager noted that he is conscious that he doesn't want soil movement to be done 'under the radar', the Board can't be questionable around their work.

There being no further business the meeting closed at 17:44.

BLACK SLUICE INTERNAL DRAINAGE BOARD

MINUTES

of the proceedings of a Meeting of the
Southern Works Committee

held at the Offices of the Board on the
4th July 2023 at 15:30

Members

Chairperson - * Mr M Rollinson

* Mr W Ash	* Mr J F Atkinson
* Mr V A Barker	* Mr K C Casswell
* Mr J Casswell	* Mr R Dorrington
Mr C Dring	* Cllr M Geaney
* Cllr Z Lane	Mr A Mair
Mr M Mowbray	* Mr M Taylor
* Mr C Wray	

(* Member Present)

In attendance: Mr I Warsap (Chief Executive)
Mr D Withnall (Finance Manager)
Mr P Nicholson (Operations Manager)
Mr K Methley (Pump Engineer)
Mr P Holmes (Northern Works Chairperson)
Mr M Brookes (Executive Committee)
Cllr P Bedford (Executive Committee)
Mr D Leverton (Guest)

2173 Recording the Meeting - Agenda Item 1

Members were informed that the meeting would be recorded.

The Chairperson welcomed newly appointed members, Cllr Z Lane and Cllr M Geaney to their first Southern Works Committee meeting, also welcoming Mr D Leverton (guest). The Officers were thanked for organising an interesting and informative inspection.

2174 Apologies for absence - Agenda Item 2

Apologies for absence were received from Mr C Dring, Mr A Mair, Mr M Mowbray, Mr J Fowler, Mr G Atkinson (invited guest).

2175 Declarations of Interest - Agenda Item 3

A declaration of interest was received from Mr J Atkinson in relation to Minute 2180(e) - Drainage issues, Pinchbeck North Fen.

2176 Review the Southern Works Committee Terms of Reference - Agenda Item 4

The Committee RESOLVED to recommend that the Southern Works Committee Terms of Reference be approved at the next Board meeting.

2177 Minutes of the last meeting - Agenda Item 5

The Minutes of the Joint Works Committee, which was held on 4th October 2022, copies of which had been circulated, were considered. It was AGREED that the Minutes should be signed as a true record.

2178 Confidential Minutes of the last meeting - Agenda Item 6

The Confidential Minutes of the Joint Works Committee, which was held on 4th October 2022, copies of which had been circulated, were considered. It was AGREED that the Minutes should be signed as a true record.

2179 Matters Arising - Agenda Item 7

There were no matters arising.

2180 Discuss the Operations Report and Inspection - Agenda Item 8

The Operations Manager led discussions about the inspection, as follows.

(a) Donington North Ings Pump & Sump Works

This was not visited on the tour but was raised by the Operations Manager as a point of interest. Photos were displayed on screen of the works completed in the suction chamber of the pumping station, it being noted that issues have arisen lately with bolts rusting away and the bellhousing section falling off as a result of this. The Board's workforce are therefore trying to complete inspections and complete any required maintenance works within all the pumping stations suction bays as quickly as possible. Going forward, the aim is to have a ten-year inspection programme.

(b) Swaton Catchment Natural Flood Management Scheme

The Board first met with the Environment Agency (EA) to discuss completing these works on their behalf in 2020, this is a national pilot project for natural flood management and attenuation. It will be monitored over the next three years by a graduate student.

The attenuation capacity across all five sites and c1.8km of swales adjacent to the sites is 22,000m³ (the equivalent of nine olympic swimming pools).

The cost of these works is c£1million.

Mr P Holmes referred to the Holland Road Farm site which has been completed some time, questioning if it has been proven to work in fluvial events? The Operations Manager confirmed that it has proven that it captures and holds the water, however, the efficiency of the sites will be monitored by the graduate student over the following years and a report produced.

Smaller Scale Natural Flood Management

The Operations Manager referred to smaller scale, lower cost projects that reduce flows into rivers. It was noted that a Farm Engagement Advisor has been employed, to meet with farmers and identify sites.

150 sites have been identified and some of the work is now being delivered. Some examples of this work were displayed on screen (enlarged pond with swale and outfall pipe, leaky dam, reprofiled bank).

The Chairperson referenced the dams, questioning who is responsible for keeping it clear of debris once operational? It was confirmed that it will be the responsibility of the landowner.

Some drone footage of works at Folkingham was shown on screen, noting that it is designed so that the water overflows into the areas created to hold water. It was noted that the landowner is paid compensation, either loss of crop or loss of land, dependant on the type of work, for ten years.

(c) Proposed revetment works, Drain 31/3, North Drove, Quadring Fen

The Operations Manager has met with LCC highways to establish that the cracking of the road is not connected to the watercourse. The works will require the road being closed and is estimated to cost £24,000.

(d) Gosberton and Dowsby Fen Pumping Station 750kva Transformer

The installation of a new 800Kva was completed in April 2023, funded by Grant in Aid.

(e) Drainage issues, Pinchbeck North Fen

The Operations Manager reminded the committee that this was visited and discussed in March 2020.

The pipe is in fair to poor condition. There is an Anglian Water main that runs across the site, which may dictate the level of the pipe that outfalls into the main drain. When looking at the difference in falls between the open drain where the pipeline starts and the downstream end, there isn't a lot of fall (approx. 50mm).

The Operations Manager added that, in respect of the pipe, he doesn't know what can be done. An internal discussion has been had around whether a small diameter pipe can be placed at a different location that will take some of the water away.

The Operations Manager also added that this was previously discussed at a Board Meeting in 2006, where the conclusion was that there 'is no further action taken'. The Operations Manager believed the current situation is not any different to in 2006.

Mr V Barker noted that a syphon could be something for the future once more is confirmed regarding the Lincolnshire Reservoir. As a short-term measure, Mr V Barker suggested a small pump with its own float valve and pump into the South Forty Foot Drain.

The Operations Manager noted that the difficulty is that if it is low lying land, how does this differ from any other low-lying land in any other areas. The option into the South Forty Foot Drain may be viable, but it will need to be at a level that is sufficient to allow it to gravitate.

The Operations Manager noting that it may be investigated once the catchment studies are completed.

The Chairperson questioned if there has been any change in the situation since it was recommended by the Board in 2006 that no further action is taken? Mr J Atkinson confirmed there is no change.

Mr J Atkinson noted that he had envisioned a suggestion similar to Mr V Barker's suggestion, which he felt would be a relatively cheap option.

Mr V Barker suggested that the landowner (Mr J Atkinson) pays for the capital cost of putting a small pump in but that it is run from the Board's pumping station.

The Chairperson felt this was not for discussion within the meeting and suggested it be discussed between Mr J Atkinson and the Operations Manager outside of this meeting.

(f) Refurbishment Works – Sempringham Pumping Station

Photos of works to create a new dump area to receive a new weedscreen cleaner were shared, the new weedscreen cleaner should be installed by the end of the calendar year.

(g) Dyke Fen Pumping Station – Proposed pump motor refurbishments

The Operations Manager noted that the bell mouth fell off (due to bolts rusting – further discussion about this at Minute 2180(a)), which caused damage of the motor of the pump. This was refurbished last year due to the damage, another pump is due for refurbishment as part of ongoing maintenance.

(h) Project with Lincolnshire Wildlife Trust, Bourne North Fen

The Operations Manager referred to the aerial photograph within the agenda and that the white area is land that the Board already own (wetland pond area). Lincolnshire Wildlife Trust (LWT) have obtained a grant to create a new wetland area. The Board have been approached to complete these works on behalf on LWT. The works are planned to take place at the end of the calendar year / into next year.

The Chief Executive added that it is a 50ha reed bed nature reserve. Water is to be abstracted from the Bourne Eau, move through the reeds which will polish the water. It is then going to either be lifted, by wind pump, into the Glen or retained within the South Forty Foot catchment to be used for irrigation.

The Chief Executive confirmed that LWT are aware that if the water is retained in the Board's catchment and the Board has to lift it with the pumps, there will be a cost associated.

1. Capital Asset improvements

(a) 2023/24 Defra/EA Funded Flood and Coastal Erosion Risk Management (FCERM) Grant in Aid (GiA) Schemes

(i) Swaton Natural Flood Management Schemes

This was discussed at Minute 2180(b).

(ii) Sempringham Fen Pumping Station Refurbishment

This was discussed at Minute 2180(f).

(iii) Upper catchment South Forty Foot Natural Flood Management Studies and Works

This was discussed at Minute 2180(b).

(iv) Black Sluice Catchment Strategy

The inception study is completed and another order has just been placed with Stantec (consultants), the ideal being to look at the whole catchment with the question 'If we were going to design a new catchment, would it look like it does now?' The Operations Manager also noted the potential impacts the Lincolnshire Reservoir and Lower Witham Strategy could have on the catchment.

(b) 2023/24 Board funded capital schemes

(i) Quadrang North Fen roadside revetment – Estimate £24,000

This was discussed at Minute 2180(c).

(ii) Jetting / CCTV survey of Major Pipelines – Estimate £75,000

There are a couple of sites, in Donington, that can't currently be accessed due to cropping, which will then complete the works. Wyberton will be the main area of focus for this year and into next year.

(iii) Dyke Fen Pumping Station and pump motor refurbishment - Estimate £25,000

This was discussed at Minute 2180(g).

(iv) Alternative Access Programme - Estimate £20,000

The Board aims to work on alternate banks as much as possible.

Development of this programme is being achieved by installing side entry field culverts and removal of bushes and vegetation to enable machine access for future maintenance.

(v) General Culvert replacement contributions - Estimate £5,000

The Board will only offer a contribution to the cost of the replacement of culverts that the Board benefit from using.

(c) 2024/25 Defra/EA FCERM GiA schemes

(i) Dunsby Fen Catchment Works Study – Estimate £10,000

This has been deferred, until the catchment study reaches a more informed stage.

(d) 2024/25 Board funded capital schemes

(i) Graft Drain - Estimate £25,000

This scheme was deferred due to other priority works including a lot of large slips to repair. The remaining work involves the lining of existing culverts.

(ii) SFFD Desilting Guthrum to Black Hole Drove Pumping Station - Estimate £65,000

It is proposed that this section (c1600m of the South Forty Foot Drain from Guthrum Gowt to Black Hole Drove Pumping Station) is desilted. It has not yet been decided how it will be desilted; it could be with the cutter suction dredger (big additional costs for lagoon holding site) or with a large machine and bucket with cradges to contain the removed silt.

2. Emergency Response Plan

The Operations Manager noted that this hasn't changed, reminding the committee that it is classified as an emergency when the level in the South Forty Foot Drain (SFFD) reaches +2.30m ODN, the Board's Officer's will begin to turn off pumps at +2.70m ODN.

3. Crop Loss

The Operations Manager noted that he has included the Crop Loss Compensation policy to remind the committee what the Board will pay for various crops and how to claim.

2182 Confidential - To receive an update on the Open Channel Transfer of raw water to the Lincolnshire Reservoir - Agenda Item 10

It was agreed and thereby RESOLVED to exclude the public from the next part of the meeting due to the confidential nature of the business to be transacted, in accordance with section 1(2) of the Public Bodies (Admission to Meetings) Act 1960.

2183 Report on Rainfall - Agenda Item 11

The rainfall figures at Black Hole Drove were circulated. The Committee RESOLVED that this report be noted.

2184 Any Other Business - Agenda Item 12

(a) Thanks to Chief Executive at Final Committee Meeting

Mr V Barker thanked the Chief Executive for all the work he has done for the Board over the years and all the future work. The committee echoed this.

The Chairperson thanked the Chief Executive for his contributions to the Board. The committee applauded.

(b) Soil Bund Query – Twenty Road

Mr D Leverton referenced the Twenty Road and that a sheet pile temporary dam has been installed and would ask that it be moved back a field as it is holding some of the water up. The Operations Manager noted this and agreed to arrange to meet with Mr D Leverton to discuss further.

There being no further business the meeting closed at 17:25.

BLACK SLUICE INTERNAL DRAINAGE BOARD
JOINT WORKS COMMITTEE - 03 OCTOBER 2023

AGENDA ITEM 10(a)
DRAIN MAINTENANCE

1. **Annual Summer Flail mowing/Cutting**

The summer flail mowing and cutting commenced with the flail mowers on 1st August, and the cutting on 4th August. A sixth 13 ton excavator operating one of the Boards 4m cutting baskets has been hired in for twelve weeks. Therefore, the Boards maximum production has three flails (Spearhead Twiga No 1 SPV 2 with side flail and cutting basket, Twiga No 2 SPV2 with side flail and front flail, and Twiga No 3 SPV2 with side flail and front flail) flailing in front of the six cutters (Hitachi ZX 210, JCB 150X, JCB JS 145, JCB140X, JCB JS 130 and hired in JCB131) albeit the Twiga No 1 does change cutting heads and cuts some watercourses. Please see the maps on pages 38 and 39.

The 67km (Northern & Southern Works areas) of high profile watercourse assets are constantly being monitored to determine whether a second flail and/or cut is required, these will most probably require a second cut.

The SKDC (c£25.2k) Hand Roding contract works have been completed. Half the Board hand roding watercourses have been completed. Additional hand roding works are also being completed for the Environment Agency through PSCA. The LHP/Mayflower hand roding contract has not been renewed this year with the work now being carried out in by their ground maintenance contractors (value c£13.2k).

2. **Prior Notice Given for Summer Cutting**

Notice was issued within the 2023/24 Drainage Rates brochure, along with a provisional works programme, stating that all landowners/farmers can view weekly updated accurate summer cutting works programmes on the Boards web site.

Landowners/farmers were requested, to contact the Board with any summer cropping issues throughout the summer cutting season. And this is continuing to work well.

The text messaging service informing landowners/tenants that Boards machinery is working in the area is still continuing to be used. We are still encouraging land owner/tenants to provide mobile phone contact details to enable ongoing success.

This has been a success, and we recommend that the Board continue with this approach.

3. Summer Crop Loss/Damage Compensation

In line with the summer cutting landowners/farmers are encouraged to agree to the Boards equipment travelling through their crops whereby the Board agree crop loss compensation, where crop damage/loss has occurred, instead of the higher costs associated with removing the machine and subsequently returning once the crop has been harvested, albeit in some cases a new crop may have already been planted.

The cutting programme in the drainage rates brochure along with the updated programme on the website will remind all landowners adjacent to all the Board maintained watercourses of the Boards intention to carry out summer vegetation flailing/cutting to the programmes identified on the Boards web site and therefore try to manage fields accordingly. At the same time the programme should be used to assist timely removal of any obstructions (electric fencing, bird scarers, irrigation pumps & pipes etc).

4. Winter Crop and Land Loss Compensation

The Boards written intention of improvement cleansing works will be issued to landowners in October 2023 for the works to be undertaken throughout December to April 2024. The notice being given, the farmer can decide whether to plant the affected area or not, the arisings are spread and levelled by the landowner or by the Board generally the following year.

5. Proposed Desilting, Bushing and Cleansing Works

The total length of proposed watercourse for 2023/24 is 37 km. Please see the map on page 40.

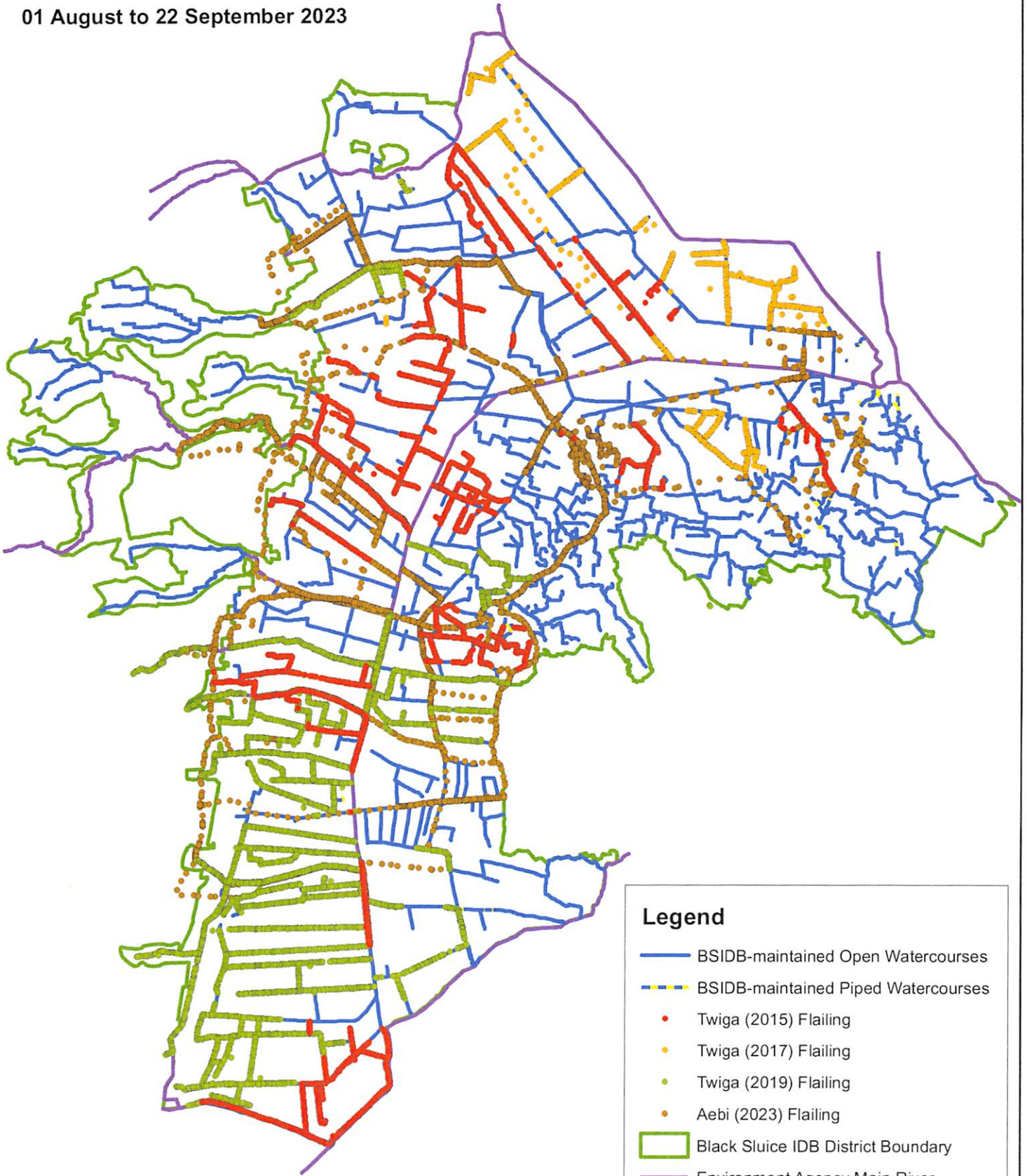
The total length of watercourses cleansed over the 2022/23 season was 30 km against the proposed 48km.

Letters have been sent to landowners/occupiers adjacent to the drains above giving notice that the Board intend to bush where required and de-silt during the winter months.

Letters will also be sent to occupiers where the Board proposes to carry out other bushing works in preparation for next year's de-silting. We are currently looking to engage an external Environmental Consultant to carry out surveys of any relevant drains on our desilting programme.

COMPLETED FLAILING WORKS 2023

01 August to 22 September 2023



Legend

-  BSIDB-maintained Open Watercourses
-  BSIDB-maintained Piped Watercourses
-  Twiga (2015) Flailing
-  Twiga (2017) Flailing
-  Twiga (2019) Flailing
-  Aebi (2023) Flailing
-  Black Sluice IDB District Boundary
-  Environment Agency Main River



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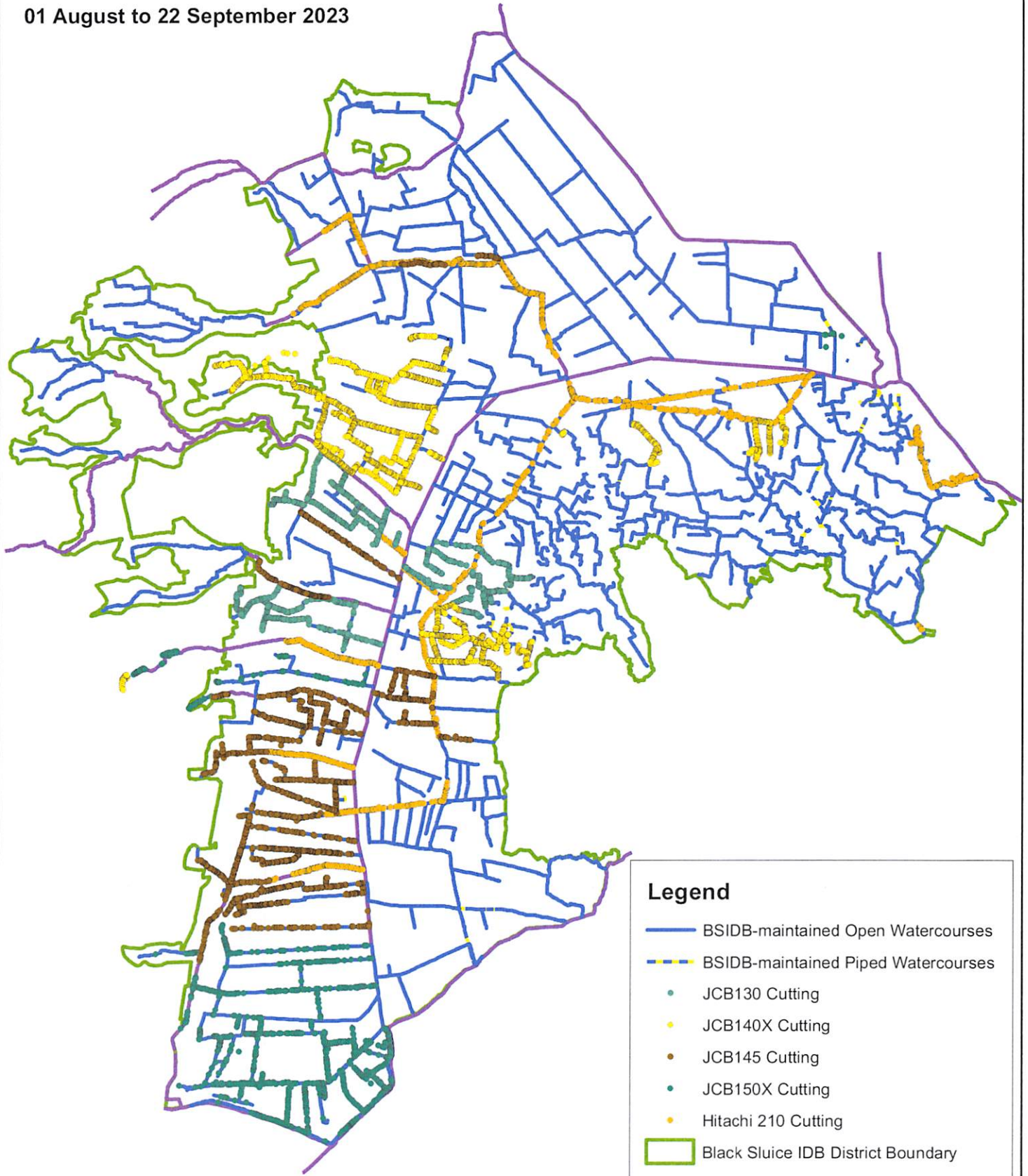
Date: September 2023

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COMPLETED WEED CUTTING WORKS 2023



01 August to 22 September 2023



Legend

- BSIDB-maintained Open Watercourses
- BSIDB-maintained Piped Watercourses
- JCB130 Cutting
- JCB140X Cutting
- JCB145 Cutting
- JCB150X Cutting
- Hitachi 210 Cutting
- ▭ Black Sluice IDB District Boundary
- Environment Agency Main River



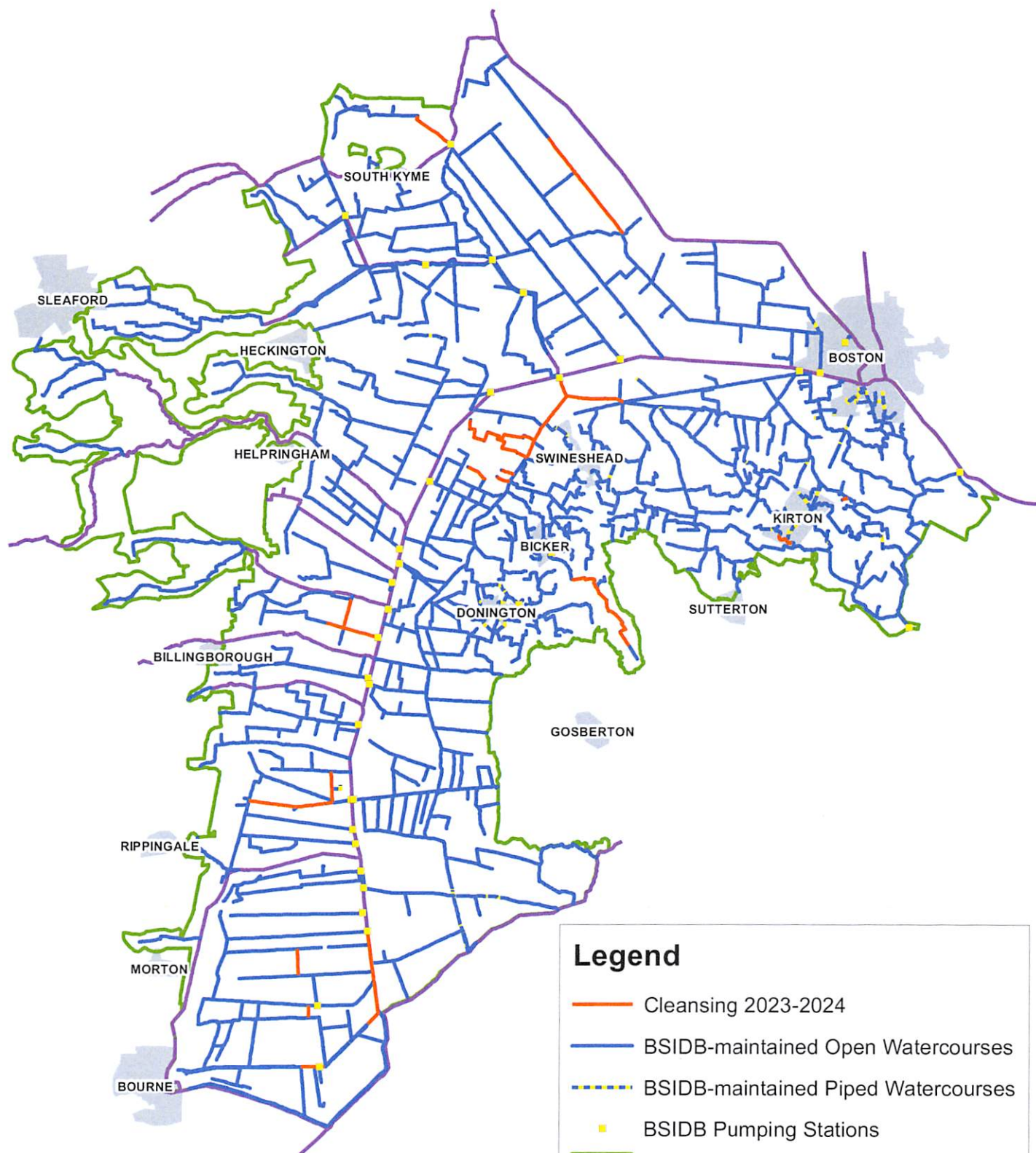
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Date: September 2023

Scale: 1:160,000

Proposed Winter Works 2023-2024



Legend

-  Cleansing 2023-2024
-  BSIDB-maintained Open Watercourses
-  BSIDB-maintained Piped Watercourses
-  BSIDB Pumping Stations
-  Black Sluice IDB District Boundary
-  Environment Agency Main River



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Date: September 2023

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BLACK SLUICE INTERNAL DRAINAGE BOARD
JOINT WORKS COMMITTEE MEETING -
AGENDA ITEM 10(b)
PROJECTS

1. CAPITAL ASSET IMPROVEMENTS

1.1 2023/24 Flood and Coastal Erosion Risk Management Grant In Aid (FCERMGiA) Schemes

(a) North Forty Foot cleansing/revetment & Langrick Road pipeline, lining/replacement works

Total scheme value is £472,000. The approved sum is calculated as follows:

£394,000 FCERM GiA
£70,000 Board contribution
£8,000 Development contribution
Local Levy support is no longer required for this scheme.

As previously reported to this Committee, the open cut section of c175m of pipeline has been replaced, tenders having been requested for the remaining sections proposed for pipe lining. ADC have now completed the £82,000 c105m section of pipe lining works.

The issue raised by the landowner at the site of the silt settlement lagoon, whereby the use of a riparian field drain was used as an outfall for flows from the lagoon, has now been completed.

As agreed at the 13.06.2023 Board meeting minute 2129 (d):

The Chief Executive concluded that, subject to the landowner gaining permission from the hedge / bush's owner (property owner), the Board will complete the flailing works at 50% cost to the Board and 50% paid by the landowner, and the Board will complete the desilting of the watercourse at no cost to the landowner. The landowner will be responsible for spreading the arisings on his land. All AGREED.

This scheme has now been completed.

(b) Sempringham Fen Pumping Station refurbishment

The revised total scheme value is £334,344. The approved sum is calculated as follows: -

£279,844 FCERM GiA
£27,500 Board contribution
£27,000 Local Levy

Following the delays to this scheme due to funding for the installation of a new improved access roadway from the Environment Agency, along their riverbank and the completion of a 20-year land lease agreement with Crown Estates, to enable the civils works to commence on site, this scheme is now estimated to be completed by March 2024.

As a result of these delays and ensuing increased cost of materials, an additional funding application request was approved for £100,844.

(c) Allan House PS outfall repair

This could be a potential scheme subject to funding being available.

In May 2023 Boards Officers were notified that there was a sink hole in the River Haven Bank which was assumed was caused by the outfall from Allan House PS. Following investigation, it was inconclusive that a leak from the outfall had been the cause of the sink hole. Another sink hole upstream of this site along the same line has now appeared on the bank, which the EA are investigating.

The section of pipe was CCTV surveyed and it was found that there is a misaligned joint in the 300mm cast pipe, at or close to the sink hole site.

This c12m section of pipe outfalls into the River Haven by gravity from the inspection chamber.

Due to the site location and the nature of the works required, a specialist contractor was approached to provide a specification for these works. An estimate of £133,750 has been provided. A further quotation has been requested from another contractor, who has also been asked to provide quotations to install inspection chambers, as it is c330m from the pump chamber to the outfall chamber on top of the River Haven bank.

This is another scheme that has the potential to achieve FCERM GiA, and one that the EA have been notified of.

(d) Black Sluice Catchment Study

Total scheme value is £250,000. The approved sum is calculated as follows:

£250,000 FCERM GiA

£125,000 allocation in 2023/24

£125,000 allocation in 2024/25

This Scheme has been commissioned, and an application for FCERM GiA funding approved, to bring all the individual catchment studies together and complete any other catchments with the overall aim of the entire Board's catchment area being considered in one study.

This will then give a complete picture of the Board's catchment area, identify the benefits available to enable funding opportunities and enable better decision making going forwards, especially in relation to the replacement of pumping stations and the potential change or merging of catchments. However, on the 19th September the Board were notified of the following:

The remainder of the 6-year programme is significantly over-subscribed, due to a combination of high levels of inflation impacting of project costs and slippage of schemes from earlier years, predominantly due to resources and skills shortages, together with a slower than planned start to the programme due to the Covid pandemic.

This has reduced the number of schemes that can be afforded within the current understanding of funding available over the remaining years of the programme.

We have now received the indicative GiA allocations from our National Portfolio Management Office colleagues; Capital GiA has been prioritised in accordance with the normal allocation principles and hierarchy of:

- *approved moderation cases based on health and safety or statutory grounds*
- *in construction by 1 April 2024*
- *remainder of programme ranked by adjusted partnership funding score high to low*

This does mean that the schemes that are planning to better protect the most properties, in support of the Government target and the key condition of the funding settlement, tend to be a higher priority for receiving a GiA allocation.

For your Board, I have summarised the current LNA indicative allocation compared to your needs-based bids, for 24-25 only and the remainder of the programme.

I note that your only needs-based bid was for the Black Sluice Catchment Modelling Study, requesting £125,000 in 24-25; this has not been indicatively allocated.

The indicative allocations are based on the current understanding of funding available over the remaining years of the programme. Work is currently ongoing to review this funding profile, and this may result in additional GiA being allocated; a decision is expected later this autumn.

Any updates will be provided at the meeting.

(e) SFF Upper catchment Natural Flood Management (NFM)

As previously reported, the study, now completed, showed the Morton, Aslackby, Billingborough and Helpringham catchments as those with the best opportunities for NFM implementation. A proposal for funding towards implementation of these schemes was put before the Regional Flood and Coastal Committee (RFCC) Local Choices, and funding received to complete. The survey and landowner engagement work is being completed on behalf of the Board by Lesley Sharpe.

Some 203 locations were identified in the four catchments, these sites were then prioritised using six factors, the volume of runoff calculated, the storage potential, landowner willingness, archaeological interest, protected habitat or species and Agri-environment scheme in place. For each intervention, these factors were considered, and interventions prioritised as High, Medium or Low, with the objectives of the installation of bunds, online storage and floodplain reconnection to attenuate flows will allow the silt to fall out of the flood waters before they enter the water courses. This will assist landowners in retaining silt on their land. The legal agreements will last for 10 years. After 10 years it will then be necessary to review future maintenance dependant on what sources of funding are available.

(f) Swaton Natural Flood Management (NFM) schemes

3 sites were identified to attenuate flows in the Swaton catchment. The first site at Holland Road Farm having been completed.

Following agreement with the Environment Agency on budget and programme, these sites are being delivered by the Board through the Public Sector Cooperation agreement (PSCA).

The remaining 2 sites at Grove Farm Swaton, which was a site visited on the Southern Works inspection on 4th July, and Manor Farm Threekingham having now been completed.

1.2 2023/24 Board Funded Capital Schemes

(a) Major Slip repairs

Throughout the catchment, following recent wet winters, there are still c35+ bank slips identified requiring repair. These are to be prioritised for repair and budgets required established. Please see the map on page 48.

(b) Jetting to Major Pipelines – Estimate £75,000

Some of the pipelines within the Wyberton area were last inspected in 2015. These works are out to tender for completion in 2023/24.

(c) Alternative programme access works – Estimate £20,000

Works are to continue this year to enable this programme of alternate bank maintenance.

(d) Quadrang North Fen roadside revetment – Estimate £24,000

There is some roadside bank slippage along this section of drain that requires repair, which will be subject to a road closure. At a previous site meeting LCC Highways Manager was made aware of the issue, another meeting with LCC will be requested prior to commencement of works on site.

(e) General culvert replacement contributions - £5,000

This is a budget allocated towards a benefit contribution from the Board in relation to the Board's use as a crossing point for their maintenance activities, for any culverts that are replaced within the Board's maintained watercourses that are the responsibility of the landowner and enable access to their land.

1.3 Pumping Station Schemes

(a) Dyke Fen Pumping Station refurbish 1 pump and 1 pump motor – Estimate £25,000

One of the pumps and one of the electric motors that drives the pump will be removed for refurbishment. Both are currently removed and being refurbished and are expected to be returned and installed in October/November.

(b) Kirton Marsh PS electrical supply change – Estimate £10,000

The incoming electrical supply to this station is below the floor level of the MCC panel.

During high water levels this could be compromised and subsequently would affect power supply to the station. Officers of the Board are in ongoing discussions with the network provider National Grid to change the location of the incoming supply to a higher level to provide the same resilience level as the existing electrical equipment. It is now estimated that these works will exceed the original estimate of £10,000 as there is a clearer understanding of the proposed works required by National Grid, their revised estimate expected when received to be c£25,000.

Due to such a large increase in the estimated cost of this scheme, it was proposed that this be considered for an application for FCERM GiA or Local Levy funding.

(c) Great Hale Fen PS under pump inspections. – Estimate £10,000

These works were completed in May. Connecting pump section nuts & bolts were replaced, visual inspections of wet well and intake channel, silt removed.

(d) Trinity College PS under pump inspections – Estimate £5,000

These works were completed in July. Connecting pump section nuts & bolts were replaced, visual inspections of wet well and intake channel, silt removed.

1.4 2024/25 Defra/EA FCERM GiA Schemes

(a) NFM Studies – £150,000

It is expected that a further funding application for continuation of NFM studies and interventions will be made. An application has been made for additional funding for this scheme for £150,000, £75,000 2024/25 and £75,000 2025/26.

(b) Wyberton Marsh PS new transformer - Estimate £50,000

A condition survey of the Boards 9 transformers has identified that some are at end of life and require replacement. One of these has been replaced through FCERM GiA funding, a similar business case will be prepared for funding this scheme.

Meetings have taken place with National Grid, the electricity network provider, as the new transformer will need to be more resilient and will be installed on a raised platform, and it is proposed that this is installed outside of the Pumping Station building. An estimate for an LV connection which removes the requirement for a transformer has also been requested from National Grid.

1.5 2024/25 Board funded capital schemes

(a) SFFD Desilting Guthrum to Black hole Drove PS – Estimate £65,000

It is proposed that this 2500m Board maintained section of the South Forty Foot Drain(SFFD) is desilted.

(b) Jetting to Major Pipelines - £75,000 Estimate

It is proposed to continue with the jetting and condition surveying of these pipelines.

(c) Graft Drain - £25,000

It is proposed to continue with this scheme, there are 3 piped sections that require condition survey.

(d) Pumping Station Schemes

(i) Ewerby Fen PS replace Control Panel – Estimate £60,000

The control panel at this station was installed in 1996 and is now proposed for replacement.

(ii) Kirton Marsh PS refurbish pump and pump motor – Estimate £30,000

To coincide with the inspection works at this site it is proposed that the pump and motor are refurbished.

(iii) Kirton Marsh PS under pump inspections – Estimate £11,000

Works to lower water levels and gain access to complete inspections to the pump replace connecting pump section nuts & bolts and remove any silt from the channel.

3. PUMPING STATION MAINTENANCE

At the end of September (Period 5) the budget for maintenance works is £361,056 with the actual expenditure being £229,243 which includes estimated electricity payments.

4. EXTERNAL RECOVERABLE WORKS

Current external recoverable income is £251,664 for rechargeable works compared to £186,427 last year.

5. HEALTH & SAFETY

The Board have appointed Cope Safety Management, agreeing terms on a new contract as their Health & Safety consultants for a 5-year period commencing June 2019.

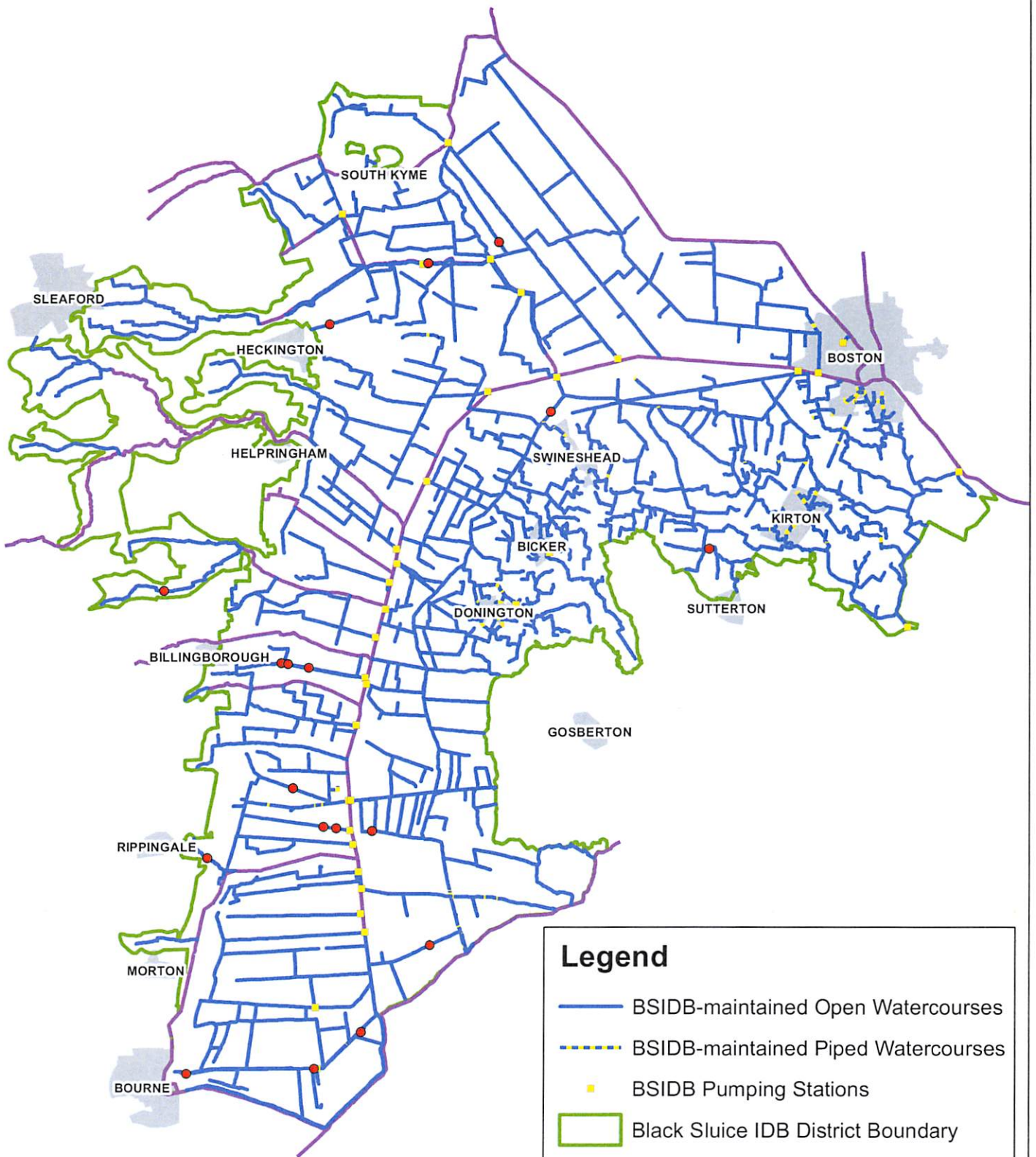
All employees and contractors to the Board required to work alone, are now using the automated Peoplesafe system using a smartphone mobile phone App.

6. EXTERNAL PARTNERSHIPS, STRATEGIES & AGREEMENTS

EA/BSIDB Public Sector Cooperation Agreement (PSCA)

We have, as in other years, continued to flail and cut the highland carrier main rivers along with the health and safety bank top cuts. We have also been approached to provide estimates for additional bushing/flailmowing works to the South Forty Foot Drain(SFFD) EA main river from Black Hole Drove P/S to Donington A52 road bridge to the bank margins on both sides of the river 22.5km total, some sections of which are currently maintained through PSCA. All works completed with our own machinery and recharged back to the EA.

BANK SLIPS FOR REPAIR 2023-2024



Legend

- BSIDB-maintained Open Watercourses
- - - BSIDB-maintained Piped Watercourses
- BSIDB Pumping Stations
- Black Sluice IDB District Boundary
- Environment Agency Main River
- Slips identified for repair 2023-2024



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Black Sluice Internal Drainage Board
10 Year Capital Schemes Budget
2023/24 to 2032/33 (Updated after 2022/23 Yearend)

Year	Type	Scheme	Total	Grant / Local Levy	Other Contributions	Possible Board Contribution	Drain	PS
2023/24	Drain	BSIDB NFM Works	£368,234	£368,234				
	Drain	BSIDB NFM Studies	£32,689	£32,689				
	Pump	Sempringham PS Refurbishment (B/F)	£138,980	£138,980				
	Drain	North Forty Foot Revetments	£130,901	£130,901				
	Drain	Black Sluice Catchment Studies	£209,162	£209,162				
	Pump	Great Hale Fen PS refurbish weedscreen cleaner	£75,000					£75,000
	Drain	Jetting to major pipelines	£75,000				£75,000	
	Pump	Dyke Fen PS, refurbish 1 pump and 1 motor	£25,000					£25,000
	Pump	Kirton Marsh PS electrical supply change	£10,000					£10,000
	Pump	Great Hale Fen PS under pump inspections	£10,000					£10,000
	Pump	Trinity College PS under pump inspections	£5,000					£5,000
	Drain	Quadring North Fen roadside revetment	£24,000				£24,000	
	Drain	Alternative Programme access works	£20,000				£20,000	
Drain	General culvert replacement contributions	£5,000				£5,000		
			£1,128,966	£879,966			£124,000	£125,000
2024/25	Drain	SFFD Desilting Guthrum to Blackhole Drove PS	£65,000				£65,000	
	Drain	BSIDB NFM Studies & Works	£75,000	£75,000				
	Drain	Jetting to major pipelines	£75,000				£75,000	
	Pump	Ewerby Fen PS Replace control panel	£60,000					£60,000
	Pump	Kirton Marsh PS refurbish 1 pump and 1 motor	£30,000					£30,000
	Pump	Kirton Marsh PS under pump inspections	£11,000					£11,000
	Pump	Wyberton Marsh PS new transformer	£50,000	£50,000				
	Drain	Graft Drain	£25,000				£25,000	
	Drain	General culvert replacement contributions	£5,000				£5,000	
			£396,000	£125,000			£170,000	£101,000
2025/26	Drain	SFFD Desilting Guthrum to Blackhole Drove PS	£70,000				£70,000	
	Drain	BSIDB NFM Studies & Works	£75,000	£75,000				
	Drain	Bicker Fen Catchment works	£430,000	£113,250	£266,750	£50,000		
	Drain	Dunsby Fen Catchment Works	£414,000	£45,508	£318,492	£50,000		
	Drain	Ewerby Fen Catchment Works	£750,000	£332,410	£367,590	£50,000		
	Drain	Horbling Town Beck Flood Alleviation scheme	£10,000	£10,000				
	Pump	Damford PS replace control panel	£65,000					£65,000
	Drain	Jetting to major pipelines	£40,000				£40,000	
	Drain	Graft Drain	£35,000				£35,000	
	Drain	NFF Desilting	£20,000				£20,000	
	Pump	Great Hale Fen PS new transformer	£55,000	£55,000				
	Pump	Swineshead PS new transformer	£70,000	£70,000				
	Pump	Haconby PS refurbish axial flow pump	£25,000					£25,000
Drain	General culvert replacement contributions	£5,000				£5,000		
			£2,064,000	£701,168	£952,832	£150,000	£170,000	£90,000
2026/27	Drain	Claydyke desilting	£130,000				£130,000	
	Drain	NFF Desilting	£60,000				£60,000	
	Drain	Jetting to major pipelines	£50,000				£50,000	
	Drain	Horbling Town Beck Flood Alleviation scheme	£758,000	£130,568	£577,432	£50,000		
	Drain	Dowsby Fen Catchment Works	£10,000	£10,000				
	Pump	Horbling Fen PS new roof	£12,000					£12,000
	Pump	Gosberton Fen PS Refurbish 3 x axial flow pumps	£75,000					£75,000
	Pump	Haconby Fen PS Replace control panel	£35,000					£35,000
	Pump	Donington North lngs PS new transformer	£55,000	£55,000				
	Pump	Cooks Lock PS new transformer	£55,000	£55,000				
	Pump	Holland Fen under pump inspections	£10,000					£10,000
	Drain	General culvert replacement contributions	£5,000				£5,000	
				£1,255,000	£250,568	£577,432	£50,000	£245,000
2027/28	Drain	Graft Drain	£55,000				£55,000	
	Drain	Jetting to major pipelines	£65,000				£65,000	
	Pump	Cooks Lock p/s refurbish weedscreen cleaner	£80,000					£80,000
	Drain	New Hammond Beck Desilting	£50,000				£50,000	
	Drain	Dowsby Fen Catchment Works	£350,000	£162,686	£137,314	£50,000		
	Pump	Bicker Fen replacement control panel	£33,000					£33,000
	Pump	Bicker Fen refurb 1 x axial flow pump	£25,000					£25,000
	Pump	Great Hale Fen						
	Pump	Wyberton Chain Bridge PS new transformer	£60,000	£60,000				
	Pump	Holland Fen PS new transformer	£75,000	£75,000				
Drain	General culvert replacement contributions	£5,000				£5,000		
			£798,000	£297,686	£137,314	£50,000	£175,000	£138,000
2028/29	Drain	Old Hammond Beck Desilting	£80,000				£80,000	
	Drain	Jetting to major pipelines	£60,000				£60,000	
	Pump	Donington NI refurbish 3 x axial flow pumps	£75,000					£75,000
	Pump	Kirton Marsh p/s replace control panel	£35,000					£35,000
	Drain	Bourne Fen 28/10 Revetment	£30,000				£30,000	
	Pump	Great Hale Fen refurb 1 x axial flow pump	£17,000					£17,000
	Pump	Helpringham p/s new roof	£13,000					£13,000
	Pump	Wyberton Chain Bridge PS under pump inspection	£12,000					£12,000
	Drain	General culvert replacement contributions	£5,000				£5,000	
			£327,000				£175,000	£152,000
2029/30	Drain	Jetting to major pipelines	£60,000				£60,000	
	Pump	Chain Bridge p/s refurbish 3 x axial flow pumps	£80,000					£80,000
	Drain	Cooks lock PS pump drain desilting/under pump inspection	£36,000				£36,000	
	Drain	Dowsby Fen pump drain desilting/pump inspection	£36,000				£36,000	
	Pump	Quadring Fen p/s replace control panel	£40,000					£40,000
	Pump	Allen House p/s replace control panel	£32,000					£32,000
	Drain	Quadring Fen pump drain desilting/pump inspection	£25,000				£25,000	
	Drain	General culvert replacement contributions	£5,000				£5,000	
			£314,000				£162,000	£152,000
2030/31	Drain	Damford PS pump drain desilting/under pump inspections	£50,000				£50,000	
	Drain	Jetting to major pipelines	£60,000				£60,000	
	Pump	Horbling p/s control panel	£45,000					£45,000
	Pump	Mallard Hum control panel	£45,000					£45,000
	Pump	Mallard Hum PS under pump inspections	£10,000					£10,000
	Drain	Cooks Lock pump drain desilting/under pump inspections	£42,000				£42,000	
	Pump	Trinity College refurb pumps	£35,000					£35,000
	Drain	Black Hole Drove p/s under pump inspections	£25,000				£25,000	
	Drain	General culvert replacement contributions	£5,000				£5,000	
			£317,000				£182,000	£135,000
2031/32	Drain	Jetting to major pipelines	£70,000				£70,000	
	Drain	Heckington Fen pump drain desilting/under pump inspections	£24,925				£24,925	
	Pump	Billingborough Fen p/s control panel	£50,000					£50,000
	Pump	Dowsby Lode p/s control panel	£50,000					£50,000
	Pump	Pinchbeck Fen p/s control panel	£50,000					£50,000
	Drain	Holland Fen pump drain desilting/under pump inspections	£50,000				£50,000	
	Drain	Helpringham pump drain desilting/under pump inspections	£30,000				£30,000	
			£324,925				£174,925	£150,000
2032/33	Drain	Jetting to major pipelines	£70,000				£70,000	
	Pump	Swineshead p/s 3 x pump refurb	£90,000					£90,000
	Pump	Swaton p/s refurb pump	£25,000					£25,000
	Pump	Rippingale p/s refurb	£25,000					£25,000
	Drain	Dowsby Fen pump drain desilting/under pump inspections	£45,000				£45,000	
	Drain	Gosberton Fen pump drain desilting/under pump inspections	£45,000				£45,000	
	Drain	Swineshead pump drain desilting/under pump inspections	£55,000				£55,000	
Drain	Dunsby Fen pump drain desilting/under pump inspections	£38,000				£38,000		
			£393,000				£253,000	£140,000

BLACK SLUICE INTERNAL DRAINAGE BOARD

JOINT WORKS COMMITTEE - 03 OCTOBER 2023

AGENDA ITEM 11

LINCOLNSHIRE RESERVOIR - OCTOBER 2023 UPDATE

The Water Services Regulation Authority (Ofwat) published its gate two final decision on the strategic regional water resource solution for the Lincolnshire Reservoir for Anglian Water in June 2023.

The final decision summary for the Ofwat sponsored solutions that impact on the SFF Catchment included the following: -

- A further funding allocation of £27.15m has been approved to work towards gate three in September 2024, making this a total allocation of £36.8m project expenditure by September 2024.
- The reservoir is identified as a priority action for urgent completion.
- A detailed study of potential open channel transfers between the Witham and South Forty Foot Drain (SFFD) and the SFFD to the reservoir will be presented at gate three.
- To identify the benefits of open water transfer to third parties and to introduce design to realise wider benefits to amongst others, the works of the South Lincolnshire Water Partnership (SLWP).
- To understand the impact of the reservoir on the complex systems of existing water management assets within the catchment.
- The emergency drawdown (EDD) options need to be developed in consultation with all risk management authorities.

Considering the above Anglian Water have now established dedicated Technical Working Groups (TWGs) with key stakeholders. The TWGs will be integral tools for the structure and delivery of the Environmental Impact Assessments (EIA) and Habitats Regulations Assessment (HRA) during the pre-application phase for the reservoir as well as providing an engagement with stakeholders to integrate feedback as the project develops.

The primary function of the TWGs is to share our thinking and seek our inputs on baseline data, methods, assessments and design/mitigation for the project by: -

- Establishing clearly and with the key stakeholders, the precise issues for the EIA and HRA (early scoping)
- Providing regular updates in line with key pre-application milestones and establishing relationships with key stakeholders
- Agreeing the evidence base for the EIA and HRA and approach to the assessment process
- Identifying through dialogue the key impacts of greatest concern and allowing early consideration of mitigation or management measures to reduce or even remove those concerns.

The TWGs also provide the forum to be able to discuss aspects of master planning, technical design and engineering which are also central to discussions around mitigation of impacts and commitments.

The current TWGs are: -

- Air Quality, Noise & Health
- Biodiversity

- Habitat Design
- Landscape & Visual
- Land Use, Quality, Soils & Agriculture, Waste & Materials
- Historic Environment
- Water Resources
- Community, Access & Amenity, Equalities & Health
- Traffic & Transport
- Master Planning

Every group has terms of reference with a Relationship Lead with support from topic specialists and I sit on the Water Resources TWG, there are an intended six rounds of milestones and timings with the final one being in the Autumn of 2025 before the Development Control submission.

Behind the scenes work is also ongoing on the general reservoir site layout, access routes, reservoir masterplan, abstraction locations, services, discharge locations, INNS treatment works, transfer routes up and down stream, pumping stations, treatment plants and emergency draw down infrastructure.

I am involved with this work via participation on the Lincolnshire Reservoir Working Partnership (LRWP), South Lincolnshire Water Partnership (SLWP), The Lincs Reservoir Water Transfer & EDD Options Team along with the Water Resource TWG.

Current Conclusions:

Upstream transfer into the reservoir; on the key assumption the SFFD will be strengthened as part of the EDD works, this provides potential benefits over other options for the transfer of water into the reservoir from the Witham in relation to cost, biodiversity, irrigation and flood mitigation benefit.

EDD preference is initially into the SFFD then options of transfer into short term catchment wetland storage, the Witham, Glen and Wash, potential irrigation reservoirs, Nature Reserves and additional/enhanced watercourse storage.

The Board and the EA must confirm a) in principle that a transfer via the SFFD could be operated as required to deliver the Public Water Supply requirements and b) who will take responsibility for developing the necessary arrangements. We must also undertake an evaluation of the legal, financial, operation and maintenance, planning and land consideration for open channel transfer and EDD options.

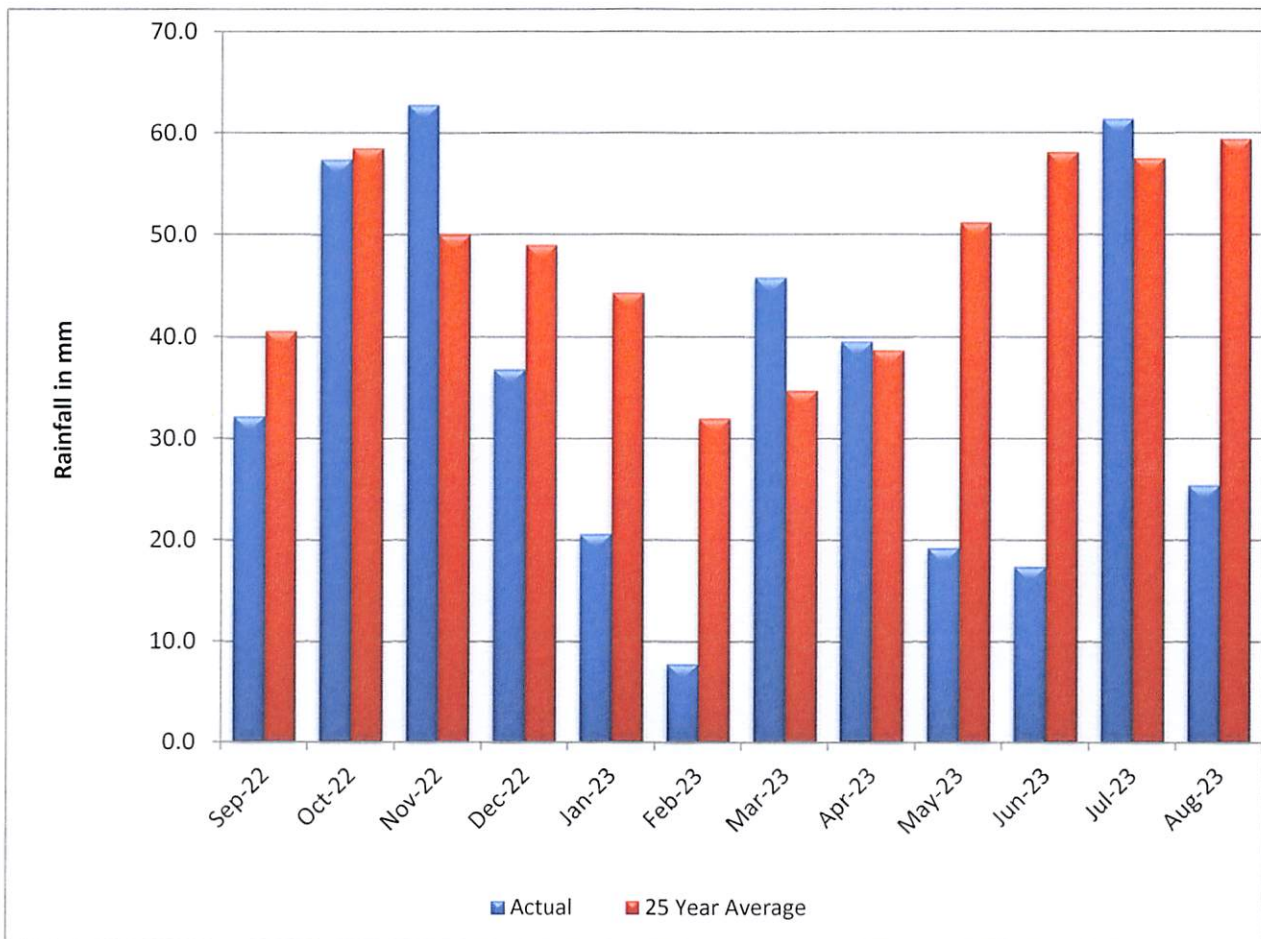
Between November 2023 – March 2024 the AW preferred options will be released.

I will take this paper as read at the meeting and welcome questions.

Ian Warsap
South Lincolnshire Water Partnership Consultant

BLACK SLUICE INTERNAL DRAINAGE BOARD Rainfall at Black Hole Drove Pumping Station

MONTH	Rainfall		Actual / Average
	Actual	25 Year Average	
	mm	mm	%
Sep-22	32.2	40.6	79.31%
Oct-22	57.4	58.5	98.12%
Nov-22	62.8	50.0	125.60%
Dec-22	36.8	49.0	75.10%
Jan-23	20.6	44.3	46.50%
Feb-23	7.8	32.0	24.38%
Mar-23	45.8	34.7	131.99%
Apr-23	39.6	38.7	102.33%
May-23	19.2	51.2	37.50%
Jun-23	17.4	58.1	29.95%
Jul-23	61.4	57.5	106.78%
Aug-23	25.4	59.4	42.76%
Totals	426.4	574.0	74.29%



BLACK SLUICE INTERNAL DRAINAGE BOARD Rainfall at Swineshead Depot

MONTH	Rainfall		Actual / Average
	Actual	25 Year Average	
	mm	mm	%
Sep-22	38.8	43.4	89.40%
Oct-22	66.8	64.4	103.73%
Nov-22	62.8	50.4	124.60%
Dec-22	41.0	51.3	79.92%
Jan-23	29.0	47.1	61.57%
Feb-23	9.0	34.7	25.94%
Mar-23	47.0	35.2	133.52%
Apr-23	46.0	38.5	119.48%
May-23	26.0	52.9	49.15%
Jun-23	18.2	58.3	31.22%
Jul-23	89.0	63.1	141.05%
Aug-23	43.8	66.0	66.36%
Totals	517.4	605.3	85.48%

