

BLACK SLUICE

INTERNAL DRAINAGE BOARD



Joint Works Committee

Meeting Wednesday 12th October 2016 at 2pm

Station Road, Swineshead, Lincolnshire PE20 3PW

BLACK SLUICE INTERNAL DRAINAGE BOARD

I M Warsap
Chief Executive

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Our Ref: IMW/DPW/B10

Your Ref:

Date: 5th October 2016

To all Northern and Southern Works Committee Members

Dear Member

Joint Works Committee Meeting – 12th October 2016 @ 2pm

Please find enclosed the papers for the Joint Works Committee Meeting to be held on Wednesday 12th October 2016 at 2pm.

Yours sincerely



Chief Executive

A G E N D A

1. Apologies for absence and any Declarations of Interest.
2. To receive and if correct sign the Minutes of the last Meeting of the Southern Works Committee held on 2nd March 2016 (**pages 1 - 8**).
3. Matters Arising from the Southern Works Committee Minutes.
4. To receive and if correct sign the Minutes of the last Meeting of the Northern Works Committee held on 16th March 2016 (**pages 9 - 14**).
5. Matters Arising from the Northern Works Committee Minutes.
6. To receive a report on Engineering Works for 2016 (**pages 15 - 22**).
7. A presentation on watercourses to abandon or commence future Board maintenance.
8. Rainfall (**pages 23 & 24**).
9. Any other business.

BLACK SLUICE INTERNAL DRAINAGE BOARD

MINUTES

of the proceedings of a Meeting of the
Southern Works Committee

held at the offices of the Board
2nd March 2016 at 4pm

Members

Chairman - * Mr M Rollinson

- | | |
|-------------------|-------------------|
| * Mr W Ash | * Mr J F Atkinson |
| * Mr V A Barker | * Mr K C Casswell |
| * Mr J Casswell | Cllr R Clark |
| * Mr R Dorrington | Mr P S Harborow |
| Mr A Mair | * Mr M Mowbray |
| Mr M E Richardson | Cllr B Russell |
| * Mr J R Wray | |

(* Member Present)

In attendance at the meeting:

Mr I M Warsap (Chief Executive)
Mr P Nicholson (Operations Manager)
Mr D Withnall (Finance Manager)
Mr C Richards (Pump Engineer)
Mr P Holmes (Chairman Northern Works Committee)
Cllr P Bedford (Board Member)
Cllr M Brookes (Board Member)
Mr J Fowler (Board Member)
Mr R Caudwell (Guest - Chairman Black Sluice Catchment Steering Group)
Mr G Playne (Guest)
Mr Nick Morris (Guest – Welland & Deepings IDB)

Additional attendees on Inspection:

Mr C Dring (Guest)
Mr G Corner (NFU Guest – lunch only)

902 APOLOGIES FOR ABSENCE - Agenda Item 1

Apologies were received from Mr P S Harborow, Cllr R Clark, Cllr B Russell, Mr A Mair and Mr M Richardson.

903 DECLARATIONS OF INTEREST

(a) ELS Buffers

A declaration of interest was received from Mr P Holmes with regard to Minute no 905(b).

903 Cont.....

(b) Dowsby Lode Raised Bank Issue

A declaration of interest was received from Mr J Atkinson with regard to Minute no 906(f).

904 MINUTES OF LAST MEETING - Agenda Item 2

The Minutes of the last Meeting regarding the Southern Works Committee at the Joint Works Committee held on 7th October 2015 copies of which had been circulated were considered and it was agreed the Minutes should be jointly signed as a true record.

905 MATTERS ARISING - Agenda Item 3

(a) Damage Compensation - Daffodil Crop Minute No 820(y)(ii)

Mr V Barker stated that he and the Operations Manager had visited the field and there is evidence of daffodil damage and they plan to revisit in two weeks' time to assess further.

(b) ELS Buffers - Minute No 820(y)(iii)

The Chief Executive reported that the Boards critical watercourses have been identified and 100 landowners were contacted in November 2015 to obtain their views regarding the proposed scheme for the Board to lease grass margins alongside these watercourses.

48% of landowners responded in varying levels with relevant views, concerns and issues. The Chief Executive stated that he had sent out a letter on 21st December 2015 thanking landowners for their responses and that the Board will not be progressing with the grass strips option due to amongst other issues the RPA permanent pasture ruling.

The Chief Executive also explained the Entry Level Stewardship scheme rules clearly state;

"that land that is already subject to another scheme or obligation that is incompatible with the scheme must be excluded (5.4.2) and the landowner must make sure that there are no other duties or obligations on the landowner or the land that would conflict with their ELS agreement (5.4.3)".

The Chairman asked Nick Morris who stated that they had conducted a similar proposal at Welland & Deeping IDB. Nick stated that maintenance of the watercourses are carried out for the benefit of the landowners and they do not issue crop loss payments.

905 (b) Cont.....

The Operations Manager stated that it will be conveyed to the workforce at the pre-cutting brief regarding alternative crops where land may look like set aside. The drivers will be instructed to contact their supervisors before assessing any uncertain crops.

(c) Boston Barrier - Minute No 823(b)

Mr V Barker declared that he was against the Boston Barrier as it is proposed to be planned. He added that storing water in the South Forty Foot drain plus the narrowing of the Haven encourages water to remain rather than it being pumped out, if adverse conditions say in a 1 in 10 or 1 in 100 year event occur we do not know what might happen.

The Chairman asked if Mr R Caudwell would like to respond. Mr R Caudwell stated that clearly following the 2013 floods something needs to be done to alleviate the risk to the town of Boston in terms of the Borough being the highest flood risk in the Country. The barrier was accepted as a way forward to alleviate the flood risk from tidal waters and Mr Barker's concerns may be the design rather than the barrier itself.

Mr V Barker answered that he is not against the barrier but the width of the opening which is not appropriate to evacuate the volume of water which will need to exit through it from the basin.

The Chief Executive added that modelling provided by Mott MacDonald have proven that the quantities of water combined with the barrier opening will expend the volume of water. He stated that to a certain degree he agrees that the addition of a lock gate alongside would benefit but FDGiA funding is only available for the construction of a tidal surge protection barrier.

906 TO RECEIVE THE INSPECTION WORKS BROCHURE - Agenda Item 5

The Operations Manager presented his Inspection of Works:

(a) Watercourse Adoption rear Cowley Road, Donington

The Operations Manager stated as outlined in the tour brochure, Donington is a large village, with a number of ongoing and future proposals for development. The number of surface water discharges into Drain 2/25 are likely to increase, and it would therefore be in the Board's interest to take the open and piped private watercourse into its control to ensure that the watercourse is maintained in a satisfactory condition to allow the continuation of flows.

There are some issues with this proposal, a section is old riparian which is maintained by the owner and is in a fairly good condition, and also the existing 300 metres of pipeline which outfalls under the railway line.

906 (a) Cont.....

This piped section will require cctv investigation to ascertain its condition. Mr P Holmes suggested that could consideration be given to reverting it to an open drain. The members agreed that the scheme should be developed and investigated.

(b) Drain 2/11, Malting Lane, Donington

The Operations Manager stated that a detailed map in the tour brochure, which outlines four piped sections which are due to be replaced. Three of these sections run under road crossing, we are awaiting response from the Environment Agency regarding an application for Grant in Aid.

(c) Donington Wykes Pumping Station

The Operations Manager stated that funding is in place for the replacement of the existing submersible pumps at this pumping station.

The Operations Manager presented a slide photograph which detailed two runs of piling on the approach to the pumping station which has started to fail due to rot. A budget review will need to be carried out to look into these additional works.

(d) Horbling Pumping Station

The Operations Manager stated that as reviewed on the tour, £11k is allocated in the 2017/18 budget for a new roof at Horbling pumping station.

The Pump Engineer requested that approval be given that the budget funds allocated be for a new roof at any pumping station as Quadring pumping station is leaking. All AGREED.

(e) Slips in Drain 31/3 - North Drove, Quadring Fen

The Operations Manager stated that this issue has been brought to the attention of Lincolnshire County Council Highways. LCC Highways stated that they have no funding available to assist in partnership works but they have no issue with the Board reducing the width of the verge to complete improvement and revetment works.

(f) Dowsby Lode Raised Bank Issue

The Operations Manager referred to the visit on the tour regarding the issue of overtopping on the southern side of the bank at Dowsby Lode.

The Chief Executive stated that from the view point on the trailer you could see the narrowing of the drain which is restricting flows.

906 (f) Cont.....

It is proposed to survey the full length and then design a scheme to include the stabilising of the bank to support the revetment works resulting in full flows towards Dowsby Lode pumping station.

Mr V Barker added that the works should be viewed in two stages, first stage up to the brick folly from the pumping station. The second until you get to the wider section of the drain, the section through Burtts land.

Mr J Atkinson declared an interest.

(g) New Dyke Improvements

The Operations Manager referred to the tour which viewed the improvement works carried out on drain 28/11. Due to a burst Anglian Water pipe in August 2015 the bank had suffered from slippage, this coincided with drain and desilting works due to be carried out. These works are due to be completed and there is just the large section of slipped bank to repair.

(h) Leaveslake Drain Improvements

The Operations Manager referred to a slide which showed a CCTV picture of the LCC culvert under Leaves Lake Drove and the condition of the pipe. He highlighted on the tour the proposed works to divert flows which involves blocking off the LCC culvert under Leaves Lake Drove, replacing the field access culvert across drain 28/2 and a section of new pipe. Mr J Atkinson asked if the pipe has the capacity for the increased flows. The Operations Manager responded yes, coming along the east section there is a chamber at the junction of drain 22/2 and drain 28/2 with a deep invert, currently the existing pipeline is at a higher invert level downstream, than those of the existing, the proposal is to decrease this invert level/lift the pipe in order to flow towards the South Forty Foot Drain.

(i) Proposed Realignment Drain 22/2 & Removal of Culvert 1973 (FX1282)

This culvert has been inspected by LCC Highways, the recommendation is Option 3:

“Demolish and replace with 3m or 3.2m diameter multi plate corrugated steel pipe (based on next arches up/down stream), based on leaving the abutments in situ and placing in between (would need to check available cover to pipe but could get round shallow cover with mesh reinforced concrete backfill).

6m running width plus say 2m each end slashed ends/revetment estimated costs £62k”

906 (i) Cont.....

The Chief Executive stated this is for information, it will be referred to the Bridges & Culvert Committee.

(j) Proposed Culvert leading to Black Hole Drove

The Operations Manager outlined a request from LCC Highways regarding proposals for the culvert leading into Black Hole Drove.

The recommendation for the Board is to relocate the culvert west and realign the watercourse. Further discussion and consultation with LCC Highways was agreed.

(k) Scheme 2086 - Graft Drain Improvements

The Operations Manager highlighted the realignment works completed on a section of the Graft Drain. He reported that seven culverts will be removed which may increase to eleven once confirmation has been received from relevant land owners.

Mr V Barker asked if restrictions have been put in place to stop irrigation from this drain until the banks have stabilised. Mr P Holmes congratulated the workmanship on this drain by the 360 operatives, all agreed.

South Forty Foot Drain inspection.

The Chairman commented how useful it has been to go along the South Forty Foot drain bank top. The Chief Executive stated that has offered a valuable insight into the low bank spots and the poor maintenance which will need to be carried out, hopefully before the Board become involved with future maintenance.

The Chief Executive stated that Mr R Caudwell is at this meeting as the Chairman of the Black Sluice Catchment Steering Group which is made up of representatives from LCC, BBC, EA, GLLEP and ourselves. So far we have had the first meeting and a number of action points are due to be reported back at the next meeting on 14th April 2016.

The Chief Executive stated that the Environment Agency have issued a "Consultation Response Document", copies are available if any members wished to take one, this focuses on questions from members of the public who live and work in the catchment. The responses from the Environment Agency stated that they are planning to catch up on the maintenance works and identify the low spots along the South Forty Foot Drain.

906 (k) Cont.....

He added that opportunities for Government funding appear limited and HMRC notes on corporate tax relief towards flood management will be displayed on the Boards website. Any growth within the catchment will attract grants and other European funding. There will be investigations into extending the Boards area into the upper catchment and there will be reviews on any tax relief benefits of water retention reservoirs.

He stated that the Operations Manager has been tasked to identify how many km's of watercourse currently maintained by the Board which benefits only one landowner.

Mr R Caudwell added that he wanted to clarify to all the Members that this group will be looking into the catchment as a whole, whilst addressing issues regarding highland water carrier's contribution. It is a partnership and somethings are not going to be easy, all avenues of funding will be identified.

Mr R Caudwell also wanted to say how grateful we should be to the local staff at the Black Sluice pumping station which have kept the machinery going since the tidal surge in 2013 which has meant that it is now feasible to repair these pumps.

(l) Swaton Bank Stability 2017/18 Scheme

The Operations Manager presented slides showing slips at Spanby Beck after cleansing and revetment improvement works.

(m) Scredington North Beck Improvements 2017/18 Scheme

The Operations Manager presented slides showing slippages which have occurred since the improvement works on the bank which were envisaged to help the problems within the channel. Mr G Playne was asked his view, he responded that there have been further slips since the photographs were taken. It was agreed that the Operations Manager would contact Mr Payne for a site visit.

(n) Gosberton Pumping Station Weed Screen Cleaner 2017/18 Scheme

The Operations Manager presented slides showing the planned refurbishment of the weed screen cleaner at Gosberton Pumping Station.

(o) Culvert Surveys

The Operations Manager stated that due to staffing issues and long term sick the culvert inspections have not been progressed. These are being planned to be carried out.

907 REPORT ON RAINFALL - Agenda Item 5

The rainfall figures at Black Hole Drove were presented, copies of which had been circulated.

908 ANY OTHER BUSINESS - Agenda Item 6

(a) South Forty Foot Drain

Mr V Barker had made a note of at least four badger setts within the bank on the South Forty Foot Drain which should be reported to the Environment Agency.

He also stated that weed and bushing works will need to be carried out along the South Forty Foot Drain.

(b) Donington Pumping Station

Mr V Barker asked if the drain end requires sealing at Donington & Surfleet pumping station.

(c) Gosberton & Dowsby Pumping Station

Mr V Barker stated that the solar panels at Gosberton pumping station are north facing, and on Dowsby pumping station the panels are East West.

(d) Walnut House, Threekingham

The Chief Executive outlined a byelaw application which had been presented to the Board and agreed on the 4th November 2015.

“The Board RESOLVED to agree a condition be placed on the property that should the existing pipeline require replacement any time in the future then a new open watercourse would be cut through the field north west of the site. The property owner would be responsible for the full costs associated with the drain realigning and land loss. Should the Board carry out future routine pipe replacement works these works and costs would be covered by the Board”.

The Chief Executive has further investigated and ascertained communication with the previous owner dating back to 1994 when the watercourse was piped and back filled with full knowledge from the Board. In light of this the above condition would be removed.

(e) Environment Committee

The Chairman asked if any member of the Southern Works Committee would be interested in becoming a member of the Environment Committee. Mr W Ash volunteered and all AGREED.

There being no further business the meeting closed at 17:30pm.

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
16th March 2016 at 4:30pm

Members

Chairman - * Mr P Holmes

* Cllr R Austin	Cllr P Bedford
* Cllr C Brotherton	* Mr S Bartlett
Cllr M Brookes	* Mr K C Casswell
* Mr D Casswell	* Mr J Fowler
Cllr Mrs J Harrison	* Mr R Leggott
* Mr J E Pocklington	* Mr R Needham
* Mr P Robinson	Cllr J Rylott
* Mr N Scott	Cllr P Skinner
* Mr R Welberry	Cllr N Welton

(* Member Present)

In attendance: Mr I M Warsap (Chief Executive)
Mr D Withnall (Finance Manager)
Mr M Rollinson (Chairman Southern Works Committee)

Additional attendees on Inspection:

Mr M Needham (Guest)
Mr J Rodgers (Environment Agency – Black Sluice Pumping Station)
Mr T Dean (Guest)
Mr R Emerson (Guest)
Mr P Brookes (Lincolnshire County Council)

The Chairman thanked the Officers of the Board for a well conducted Inspection tour.

909 APOLOGIES FOR ABSENCE - Agenda Item 1

Apologies for absence at the meeting were received from Cllr P Bedford, Cllr M Brookes, Cllr Mrs J Harrison, Cllr J Rylott, Cllr P Skinner and Cllr N Welton. All had attended the Inspection tour.

910 DECLARATIONS OF INTEREST

There were no declarations of interest.

911 MINUTES OF LAST MEETING - Agenda Item 2

The Minutes of the last Meeting regarding the Northern Works Committee at the Joint Works Committee held on 7th October 2015 copies of which had been circulated were considered and it was agreed the Minutes should be jointly signed as a true record.

912 MATTERS ARISING - Agenda Item 3

(a) ELS Buffers - Minute No 820(y)(iii)

The Chief Executive reported that the Boards critical watercourses have been identified and 100 landowners were contacted in November 2015 to obtain their views regarding the proposed scheme for the Board to lease grass margins alongside these watercourses.

A total of 48% of landowners responded in varying levels with relevant reviews, concerns and issues. The Chief Executive stated that he had sent out a letter on 21st December 2015 thanking landowners for their responses and that the Board will not be progressing with the grass strips option due to amongst other issues the RPA permanent pasture ruling.

(b) Great Hale Pump Drain - Minute No 820(dd)

The Operations Manager stated that a slip had occurred since the completed revetment works, he has attended on site and the machines are scheduled to return to repair the bank by pulling the toe boards back into line - estimated cost is c£2,000.

(c) Black Sluice Catchment Steering Group - Minute No 823(c)

The Chief Executive stated that it was unfortunate that the Chief Executive of ADA was unable to attend the Inspection today. He stated that Mr Innes Thompson would like to attend a future meeting of the newly formed Black Sluice Catchment Steering Group. The main purpose of this group is to prepare plans over the next 2 years as to how the Board can secure the income to maintain the current EA main river assets. At the same time analyse our own management systems and resources in order to confirm we are capable of completing these maintenance works and asset management of the current EA main rivers and the Black Sluice pumping station.

The Black Sluice Catchment Steering Group which is chaired by Mr Robert Caudwell and made up of representatives from LCC, BBC, EA, GLLEP plus ourselves. So far we have had the first meeting and a number of action points are due to be reported back at the next meeting on 14th April 2016.

The Chief Executive commented how useful it has been to go along the South Forty Foot drain on the tour today which highlighted the low bank locations and gave an insight into the maintenance works required to bring the South Forty Foot drain back into a condition it was originally designed to. The Chief Executive will be reporting back to the EA regarding the condition of some of the banks, low level spots, badger setts and rabbit holes photographed. Members raised concerns that if high water levels were held up in the South Forty Foot Drain (i.e. no pumps running at Black Sluice Pumping Station) then the current banks would have an increased threat of being breached due to their current condition.

The Chief Executive added that last week during the heavy rainfall, many of the Boards Pumping Station pumps were pumping into the South Forty Foot drain. The Environment Agency Black Sluice pumping station ran both their pumps for three consecutive days pumping water into the Haven.

913 TO RECEIVE INSPECTION WORKS BROCHURE - Agenda Item 4

The Operations Manager presented the Inspection of Works:

(a) Abbey Road, Swineshead - Riparian Drainage Issue

An issue regarding the ownership and maintenance of a riparian watercourse between two new developments and an adjacent landowner has been ongoing with the Board acting as a mediator. The landowner has also raised the issue of the maintenance of the remaining watercourse between his land, Cragg Close, and the new developments.

It appears that the original developer has not fulfilled the requirements in their own maintenance statement. In addition, the new developer is currently constructing an extended development and, despite advice given by the Board, has also failed to adequately maintain their section of the watercourse. The Landowner has a consented overflow plan to pipe into the 4/37 drain, but has not progressed to installation without the developer's financial assistance.

The Chief Executive stated that in this instance we are in process of contacting all relevant parties regarding this issue, reminding those parties involved of their riparian ownership and maintenance responsibilities. This will be extended to include all riparian landowners within the Boards area.

The wider issue was discussed regarding agreements for future maintenance of riparian drains. It was suggested that it should be issued as a contravention of their planning permission by the local authority.

Mr Leggott stated that Lincolnshire County Council as the Lead Flood Authority should direct the local planning committees to safeguard flooding by adding covenants to propose conditions during planning consent regarding maintenance, drains, dykes and culverts accessing and vacating surface water.

The Committee discussed whether the Board should take over this drain. The Operations Manager stated that there is no access to maintain this drain from Cragg Close therefore it will have to be hand roding which would incur additional cost. They agreed that relevant parties be contacted regarding their maintenance responsibilities and any enforcement action consequences should the Board be required to cleanse this drain.

(b) Proposed Bushing Works – Coupledye Lane, Kirton

The Operations Manager presented a photograph of trees at the corner of Coupledye Lane, Kirton on the 7/2 Drain. These trees are obstructing access for the machinery to maintain this watercourse. The Committee AGREED that these trees should be removed.

(c) Access Issue Drain 7/8 – Proposed development land off Horseshoe Lane, Kirton

The Operations Manager outlined the history of this development proposal in the Inspection booklet. The Committee agreed that Officers should have further discussions with the developer to gain the necessary access required.

(d) Proposed large scale bushing works – London Road, Kirton

The Operations Manager presented photographic slides detailing drain 5/17 aside of London Road, Boston which requires large scale bushing works for machinery access. This section did not have any water in it during the heavy rainfall on the 9th March 2016. The Committee agreed for the Officers to investigation the option of giving up this watercourse.

(e) Proposed large scale bushing works – Town Drain, Frampton

The Operations Manager presented a map detailing proposed bushing works and poor culvert which is unsuitable for vehicles. To enable the machinery to gain access on the east side a number of trees need to be removed. The Committee agreed that the trees be removed.

(f) Q1 Development Update - Realignment of Wyberton Towns Drain and Access

The Operations Manager presented a map showing proposed works on the Wyberton Towns drain. In conjunction with these works, it was proposed that a bypass pipe be installed parallel to the existing layby pipe to compensate for the loss of storage for a proposed culvert extension north of the Q1 A16 roundabout. Funding to be obtained from the Development Account.

(g) High Water levels – land off Boardsides, Boston 9/10 March 2016

The Operations Manager presented photographic slides which showed the high water levels on the Boardsides on the 9th & 10th March 2016.

(h) Claydike Bank – Cleansing Works & Access Issues

The Operations Manager presented a map showing the details of this access issue which was viewed on the inspection tour. The issue of access to the Claydike bank drain for maintenance has been a long ongoing process of negotiation.

Regarding the low overhead wire, Weston Power will relocate the pole but the landowner did not want to site it within their boundary. Could the pole be realigned within the 9m access route. The Committee agreed for the Officers to progress this further by meeting with the occupants.

(i) Heckington Cemetery – Drainage issues & possible drain re-adoption

The Operations Manager reported that Heckington Cemetery had requested assistance due to flooding, although this is not within the Boards area. The cemetery is historically low level and have tried to alleviate the problem by installing an outlet pipe into a riparian watercourse. The Committee agreed for the Officers to approach the riparian owners and the Parish Council for bushing works to be completed at their expense to ascertain if flow could be increased.

There was also noted a pollution issue which will be relayed to the Environment Agency for their action.

(j) Damford Grounds Pumping Station

The Operations Manager offered this slide for information regarding the resilience works which includes raising of the panel and pumps at the Damford pumping station. Currently Grant in Aid bid for funding has been progressed.

(k) Bushing works - Hammond Beck, Bicker Gauntlet

The Operations Manager presented a slide which showed a long line of planted trees alongside the Hammond beck, Bicker Gauntlet. The machinery cannot maintain along that side of the drain and ideally it would be beneficial to operate from both sides. The Committee recommended that the Officers approach Mr R Firth.

(l) Bushing works - School Lane & Morley Lane, Bicker

The presented photographs of the bushing works being carried out at School and Morley Lane, Bicker.

(m) Culvert Surveys

The Operations Manager stated that due to staffing issues and long term sick the culvert inspections have not been progressed. These are being planned to be carried out.

Consenting and Byelaw Issues

(n) Marston Public House

The consent has been signed for the above new development with an agreed development fee of £21,200.

913 (n) Cont.....

Cllr R Austin reported that the developers have decided to name the new public house "The Chain Bridge".

914 REPORT ON RAINFALL - Agenda Item 5

The rainfall figures at Swineshead were presented, copies of which had been circulated.

915 ANY OTHER BUSINESS - Agenda Item 6

(a) Pumping Station Roadways

The Operations Manager presented photographic slides showing the access roadways to some of the Boards pumping stations, some with deep pot holes, Dunsby roadway has a raised middle section which is unsuitable for cars.

The Members agreed for landowners to be contacted with the offer of assistance using Boards machinery.

There being no other business the meeting closed at 6:20pm.

BLACK SLUICE INTERNAL DRAINAGE BOARD
WORKS COMMITTEE MEETING – 12th OCTOBER 2016
ENGINEER'S REPORT

1. CAPITAL ASSET IMPROVEMENTS

1.1 2016/17 Defra/EA Funded Grant In Aid Schemes

Grants have been received for some schemes and works are either completed or will be completed (estimate figure shown) within this financial year some schemes are awaiting final approval:

- (a) Graft Drain Northgate scheme works £112,705, value of scheme budget, works completed April 2016.
- (b) North Forty Foot cleansing/revetment works £167,000.
- (c) Donington Malting Lane pipeline replacement £77,000(estimate).
- (d) Sempringham Fen station weedscreen cleaner/ pumping station refurb £163,000(estimate) This scheme has been re profiled from 2015/16.
- (e) Kirton Meeres culvert replacement £48,000(estimate) subject to identifying suitable benefits. Identified as an in year opportunity for funding.
- (f) Damford Grounds Pumping Station Resilience £32,500(estimate)split funded £32,500 2017/18.
- (g) Helpringham Fen weedscreen cleaner £84,000(estimate).

1.2 2016/17 BSIDB Funded Capital Schemes

Capital Scheme works are either completed or will be completed within this financial year:

- (a) Clay Dyke cleansing £60,000.
- (b) General culvert replacement £35,000.
- (c) Morley Lane, Bicker revetment £20,000.
- (d) Donington Wykes PS replace 2 x pumps £25,000(estimate).

The pumps in this station are obsolete and cannot be replaced as originally intended within budget. A revised estimate has been received to include alterations to the adaptor column for £40,000 (estimate), completed in September.

(e) Culverts that have been identified for replacement in 2017/18. Based on current survey information:

- No 1253 Horbling Fen 40m x 0.6m - £8,000(estimate)C
- No 1283 Aslackby Fen 12m x 0.6m - £5,000(estimate)C
- No 755 South Kyme 12m x 0.9m - £7,000(estimate)C
- No 1959 Gosberton 15m x 1.2m - £10,000(estimate)C

(f) Completed culverts in 2016/17 Joint Works area:

- No 1302- Dowsby Fen remove Armco (placed for Berky) rebuild headwall
- No 2072 – Dowsby Fen 12m x 0.6m
- No 2428 – Screddington 12m x 0.9m
- No 2503 – Dyke Fen 12m x 1.2m
- No 2005 – Trinity college 9m x 1.2m removed
- No 3190 – South Kyme Fen 12m x 1.2m

1.3 **Proposed Works 2017/18**

Please refer to the Scheme Expenditure Budget attached.

(a) Defra/EA granted schemes

Langrick Road pipeline £130,000

(b) Funded Capital Schemes

- Swaton Bank Stability £18,000
- General culvert replacement £67,000
- Screddington Beck revetment £50,000

(b) Pumping Station Schemes

- Swineshead pumping station replace weedscreen cleaner £85,000
- Donington Wykes pumping station replace 2 x pumps b/f (£25,000 from 2015/16 plus £15,000 from 2016/17),

2. **DRAIN MAINTENANCE**

(a) Annual Summer Flailmowing/Cutting

The summer flail mowing and cutting commenced two weeks early with the flail mowers on 27th June, and the cutting on 11th July. A sixth 13t excavator operating one of the Boards 4m cutting baskets has been hired in for twelve weeks. Therefore, the Boards maximum production has three flails (Energreen with side flail and front flail, Spearhead Twiga No 1 SPV 2 with side flail and cutting basket, and the new Twiga No 2 SPV2 with side flail and front flail) flailing in front of the six cutters (Hitachi ZX 210, JCB JS 160, JCB JS 145, 2 x JCB JS 130 and hired in CAT130) albeit the Twiga No 1 does change cutting heads and cuts some watercourses.

At the end of September (period 6) the Boards overall Drains Maintenance costs were:

- £269,450 (starting two weeks early)
- £233,294 (2015 equivalent costs starting two weeks early)
- £229,289 (2014 equivalent costs with an additional two week early start)

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, following the early start these will most probably require a second cut.

The SKDC Hand Roding contract works commenced in early July, the first visit on the Sewer Dykes cut has been completed along with the Water Courses cut, all to programme and costs and the remaining second Sewer Dykes cut will take place in early October. Other SKDC contract works have been completed whilst working in the SKDC area. All other Board hand roding watercourses are currently being completed.

The 2016 Mayflower hand roding contract works has been successfully completed for £11,155.50 income.

A bulldozer has been hired in to grade out the previous year's winter cleansing arisings, these works are completed within a small window of opportunity (between harvest and drilling) and will continue as budgets dictate.

EA Waste Management exemptions have been applied for over the next two years for burning wood on site, dredging inland watercourses and spreading watercourse arisings over adjacent land.

(b) Prior Notice Given for Summer Cutting

Notice was issued within the 2016/17 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.

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

(c) Summer Crop Loss/Damage Compensation.

In line with the summer cutting landowners/farmers are encourage to agree to the Boards equipment travelling through their crops whereby the Board agree crop loss compensation 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).

(d) Winter Crop and Land Loss Compensation

The Boards written intention of improvement cleansing works have been issued to landowners in September 2016 for the works to be undertaken throughout November to May 2017. With this amount of 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.

(e) Proposed Desilting, Bushing and Cleansing Works

The total length of watercourse being 91 km.

The total length of watercourses cleansed over the 2015/16 season was c65km, this will maintain a 1 in 10 year cleansing programme over the entire catchments.

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 employing Scarborough Nixon Associates as an external Environmental Consultant to carry out surveys of any relevant drains on our desilting programme.

4. PUMPING STATION MAINTENANCE

At the end of August (Period 6) the budget for maintenance works is £159,859 with the actual expenditure being £159,567 (£100,834 maintenance works and £58,733 electricity costs) resulting in a current under spend of £292

5. EXTERNAL RECOVERABLE WORKS

Current external recoverable income is £47,062 for rechargeable works.

6. HEALTH & SAFETY

The Board appointed Cope Safety Management as their Health & Safety consultants for a 5 year period from May 2014.

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

7. PLANT

2017/18 100mm self-priming pump, specification and quotations to be agreed

8. BYELAW MATTERS

To be presented at the Meeting.

9. PROPOSED LARGE DEVELOPMENTS

To be presented at the Meeting.

10. ENVIRONMENT AGENCY STUDIES, STRATEGIES & AGREEMENTS

(a) Boston Barrier

An application for a Transport and Works (Applications and Objections Procedure) Act has been prepared by the EA and submitted to the Secretary of State for Environment, Food and Rural Affairs. The proposed order, if made, would authorise the Agency to construct and operate a new tidal barrier with a moveable gate across the Haven, together with a new building to enable operation of the barrier, new flood defence walls on both banks of the Haven, a replacement gate across the entrance to the existing Wet Dock and to execute ancillary works, including dredging of the river.

(b) Black Sluice Catchment Steering Group

The Steering Group has continued to meet throughout the year to explore ways of attracting the funding levels required to complete maintenance and capital works on main rivers and pumping stations. A twenty year funding requirement plan has been submitted by the board to the EA and we currently await their observations and direction.

(c) EA/BSIDB Public Sector Collaborative Agreement

Maintenance orders for EA main river works are being received for works on systems within the Board's catchments, c69km (72km completed in 2015/16) estimated £75k.

Additional Health and Safety bank top cuts to 55km of raised banks were completed in May/June prior to commencement of the main program of PSCA works for the EA for c£12k

(d) Water Resource East Black Sluice Case Study Group (WRE)

This group is currently working to develop an Integrated Water Resource Management (IWRM) plan for the Black Sluice Catchment.

The group consists of several key organisations such as Environment Agency, Anglian Water Services, Natural England, Lincolnshire Wildlife Trust including South Lincolnshire Fens Partnership, Lincolnshire County Council, Greater Lincolnshire LEP, Fens Agricultural Water Group, NFU, UK Irrigation Union, WDIDB and BSIDB.

The group is developing a desired outcome summary to present to the WRE stakeholder Engagement Workshop in November. This summary will include open water transfer through our catchment, increased flood resilience, increased agricultural access to water, increased fen land/wet land availability.

11. ANY OTHER BUSINESS

**Black Sluice Internal Drainage Board
Scheme Expenditure Budget
2015/16 to 2024/25**

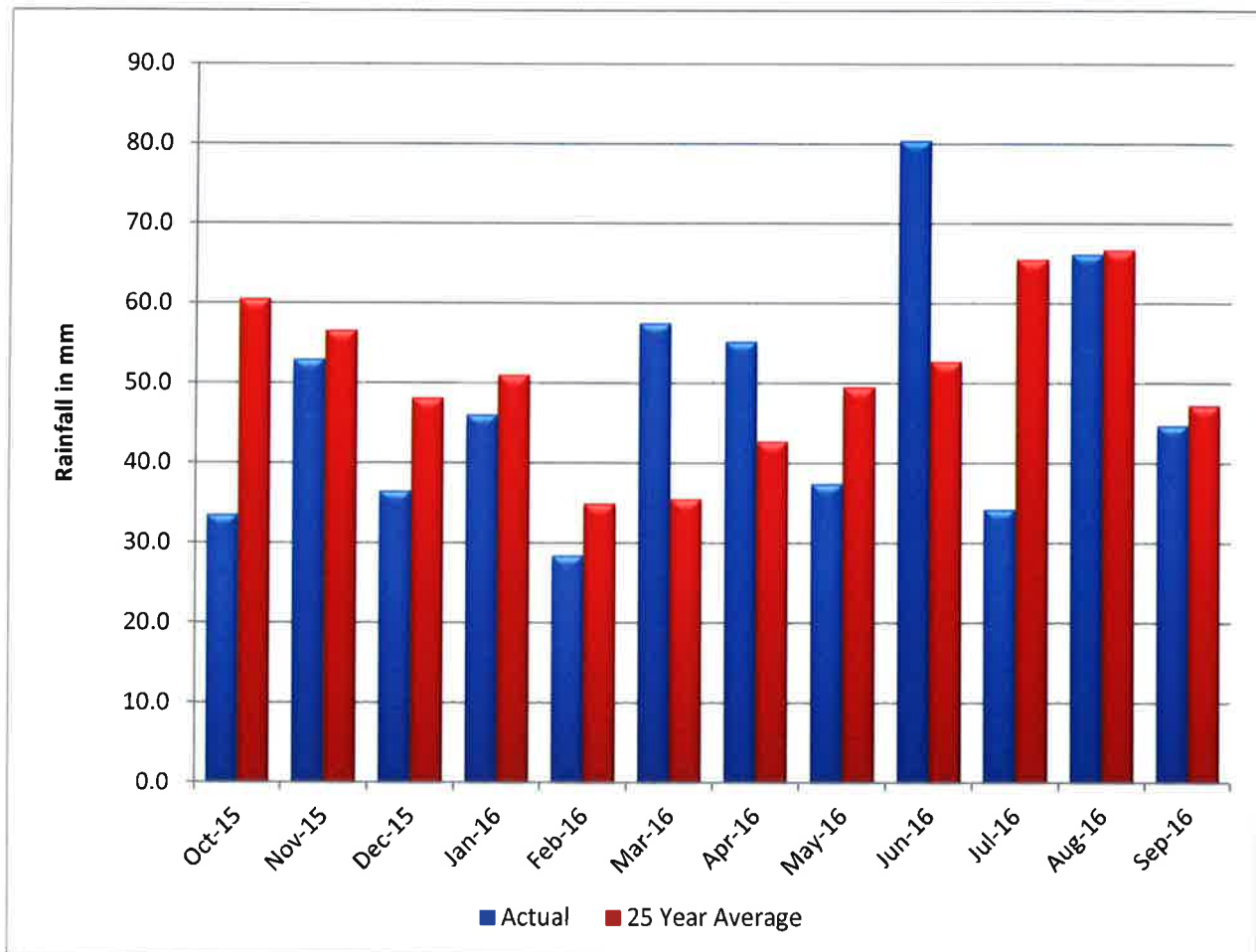
Year	Type	Scheme	Total	Grant	Drain	PS	Dev Fund
2015/16	Drain	Leaveslake Drove Diversion	£40,000		£40,000		
	Drain	General Culvert replacement	£35,000		£35,000		
	Drain	Roads Culvert Wyberton	£75,000				£75,000
	Drain	Graft Drain, Northgate	£150,000	£150,000			
	Drain	Bourne Fen New Dyke Revetment Works	£40,000		£40,000		
	Drain	Mallings Lane, Donington	£77,000	£77,000			
	Drain	Swineshead Phase 2, Culverts	£40,000	£40,000			
	Pump	Black Hole Drove PS, new roof	£16,000			£16,000	
	Pump	Dowsby Lode PS, new roof	£10,000			£10,000	
	Pump	Chainbridge PS, repairs to pump No1	£10,000			£10,000	
	Drain	Kirton Meers Culvert	£31,000	£31,000			
	Pump	Donington Wykes PS, replace 2xpumps	£25,000			£25,000	
	Drain	NFF, Boston, bank protection	£30,000	£30,000			
	Pump	Holland Fen PS, refurbish weedscreen cleaner	£39,000			£39,000	
Pump	Sempringham Pump Stn Weedscreen Cleaner	£100,000	£100,000				
			£718,000	£428,000	£116,000	£100,000	£75,000
2016/17	Drain	Clay Dyke Cleansing	£60,000		£60,000		
	Drain	General Culvert replacement	£35,000		£35,000		
	Drain	NFF, Boston, bank protection	£120,000	£120,000			
	Drain	Morley Lane, Bicker toeboards	£20,000		£20,000		
	Pump	Swineshead PS, replace weedscreen cleaner	£85,000			£85,000	
	Pump	Donington Wykes PS, replace 2xpumps (£25,000 from 15/16 plus £15,000 from 16/17)	£15,000			£15,000	
	Pump	Helpringham Pump Stn Weedscreen Cleaner	£84,000	£84,000			
			£419,000	£204,000	£115,000	£100,000	
2017/18	Drain	Swaton Bank Stability	£18,000		£18,000		
	Drain	Scredington Beck Improvements	£50,000		£50,000		
	Drain	Langrick Road, Boston, renew pipeline	£130,000	£130,000			
	Drain	General Culvert replacement	£67,000		£67,000		
	Pump	Gosberton PS, refurbish weedscreen cleaner	£40,000			£40,000	
	Pump	Horbling PS, new roof	£11,000			£11,000	
	Pump	South Kyme PS, replacement control panel	£32,000			£32,000	
	Pump	Chain Bridge PS, new roof	£17,000			£17,000	
			£365,000	£130,000	£136,000	£100,000	£0
2018/19	Pump	Donington NI, replace weedscreen cleaner	£84,000			£84,000	
	Pump	Great Hale PS, new roof	£16,000			£16,000	
	Drain	General Culvert replacement	£75,000		£75,000		
	Drain	Jetting to major pipelines	£55,000		£55,000		
	Drain	Ewerby PS road improvements	£5,000		£5,000		
	Pump	Horbling Fen PS, increase pump capacity	£225,000	£225,000			
	Drain	Kirton Fen Bridges replacement	£80,000	£80,000			
			£540,000	£305,000	£135,000	£100,000	£0
2019/20	Pump	Great Hale PS, refurbish weedscreen cleaner	£35,000			£35,000	
	Pump	Dyke Fen PS, replacement control panel	£35,000			£35,000	
	Pump	Quadring PS, new roof	£10,000			£10,000	
	Pump	Mallard Hurn PS, new roof	£10,000			£10,000	
	Drain	General Culvert replacement	£70,000		£70,000		
	Drain	Dowsby Lode Improvements	£50,000		£50,000		
	Pump	Sempringham PS, new roof	£10,000			£10,000	
	Drain	Swineshead Bank Improvements	£15,000		£15,000		
			£235,000	£0	£135,000	£100,000	£0
2020/21	Pump	Wyberton Marsh PS, replace weedscreen cleaner	£87,000			£87,000	
	Drain	Leaveslake Drove culvert replacement	£200,000	£200,000			
	Pump	Damford PS, Resilience	£65,000	£65,000			
	Pump	Dyke Fen PS, new roof	£13,000			£13,000	
	Drain	Bourne Fen Drain Revetment Works	£40,000		£40,000		
	Drain	SFFD Desilting	£60,000		£60,000		
	Drain	General Culvert replacement	£35,000		£35,000		
			£500,000	£265,000	£136,000	£100,000	£0
2021/22	Pump	Chain Bridge PS, refurbish weedscreen cleaner	£39,000			£39,000	
	Pump	Ewerby PS, replace control panel	£36,000			£36,000	
	Drain	General Culvert replacement	£85,000		£85,000		
	Drain	Old Hammond Beck Desilting	£50,000		£50,000		
	Drain	Lane Dyke Culvert replacement	£90,000	£90,000			
	Pump	SFF Pumping Station outfalls	£800,000	£800,000			
	Pump	Hacconby PS, replace control panel	£25,000			£25,000	
			£1,125,000	£890,000	£135,000	£100,000	£0
2022/23	Pump	Dunsby PS, replacement weedscreen cleaner	£80,000			£80,000	
	Pump	Billingborough PS, new roof	£10,000			£10,000	
	Pump	Helpringham PS, new roof	£10,000			£10,000	
	Drain	New Hammond Beck Desilting	£50,000		£50,000		
	Drain	South Kyme, culvert renewals	£80,000	£80,000			
Drain	General Culvert replacement	£35,000		£85,000			
			£265,000	£80,000	£135,000	£100,000	£0
2023/24	Pump	Gosberton PS, replace control panel	£60,000			£60,000	
	Pump	Kirton Marsh PS, refurbish axial flow pmp	£10,000			£10,000	
	Pump	Pinchbeck PS, new roof	£10,000			£10,000	
	Pump	Dowsby Fen PS, refurbish pumps	£20,000			£20,000	
	Drain	NFF Desilting	£50,000		£50,000		
	Drain	General Culvert replacement	£85,000		£85,000		
	Drain	Gosberton & Surfleet Bridge/culverts	£80,000	£80,000			
			£315,000	£80,000	£135,000	£100,000	£0
2024/25	Pump	Dunsby PS Replace control panel	£30,000			£30,000	
	Pump	Dunsby PS Refurbish axial flow pump	£10,000			£10,000	
	Pump	Dyke Fen PS Refurbish 2x axial flow pumps	£24,000			£24,000	
	Pump	Gosberton PS Refurbish 3x axial flow pumps	£36,000			£36,000	
	Drain	NFF Desilting	£50,000		£50,000		
Drain	General Culvert replacement	£85,000		£85,000			
			£235,000	£0	£135,000	£100,000	£0

Scheme	2015/16 Approved Budget	2015/16 Proposed Amended Budget	EA FCRMGIA	Board Funded	Development Fund
Leaveslake Drove Diversion	£40,000	£40,000		£40,000	
General Culvert replacement	£35,000	£35,000		£35,000	
Roads Culvert Wyberton	£75,000	£75,000			£75,000
Graft Drain, Northgate	£150,000	£150,000	£150,000		
Bourne Fen New Dyke Revetment Works	£40,000	£40,000		£40,000	
Maltings Lane, Donington	£77,000	£77,000	£77,000		
Swineshead Phase 2, Culverts	£80,000	£40,000	£40,000		
Kirton Meers Culvert	£0	£31,000	£31,000		
NFF, Boston, bank protection	£0	£30,000	£30,000		
	£497,000	£518,000	£328,000	£115,000	£75,000

Scheme	2015/16 Approved Budget	2015/16 Proposed Amended Budget	EA FCRMGIA	Board Funded
Black Hole Drove PS, new roof	£16,000	£16,000		£16,000
Dowsby Lode PS, new roof	£10,000	£10,000		£10,000
Chainbridge PS, repairs to pump No1	£10,000	£10,000		£10,000
Donington Wykes PS, replace 2xpumps	£25,000	£25,000		£25,000
Holland Fen PS, refurbish weedscreen cleaner	£39,000	£39,000		£39,000
Sempringham Pump Stn Weedscreen Cleaner	£41,000	£100,000	£100,000	
	£141,000	£200,000	£100,000	£100,000

BLACK SLUICE INTERNAL DRAINAGE BOARD Rainfall at Swineshead Depot

MONTH	Rainfall		Actual / Average
	Actual	25 Year Average	
	mm	mm	%
Oct-15	33.5	60.5	55.37%
Nov-15	53.0	56.6	93.64%
Dec-15	36.5	48.1	75.88%
Jan-16	46.0	51.0	90.20%
Feb-16	28.4	34.9	81.38%
Mar-16	57.5	35.5	161.97%
Apr-16	55.2	42.7	129.27%
May-16	37.4	49.5	75.56%
Jun-16	80.4	52.7	152.56%
Jul-16	34.2	65.5	52.21%
Aug-16	66.2	66.7	99.25%
Sep-16	44.7	47.2	94.70%
Totals	573.0	610.9	93.80%



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

MONTH	Rainfall		Actual / Average
	Actual	25 Year Average	
	mm	mm	%
Oct-15	4.2	60.5	6.94%
Nov-15	40.2	56.6	71.02%
Dec-15	35.6	48.1	74.01%
Jan-16	45.2	49.0	92.24%
Feb-16	17.0	33.8	50.30%
Mar-16	58.6	34.2	171.35%
Apr-16	45.0	41.9	107.40%
May-16	52.0	50.2	103.59%
Jun-16	46.8	54.5	85.87%
Jul-16	28.2	61.4	45.93%
Aug-16	68.6	62.2	110.29%
Sep-16	44.2	46.9	94.24%
Totals	485.6	599.3	81.03%

