

BLACK SLUICE INTERNAL DRAINAGE BOARD

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Our Ref: IMW/DPW/B10

Your Ref:

Date: 30th September 2015

To all Northern and Southern Works Committee Members

Dear Member

Joint Works Committee Meeting – 7th October 2015 @ 2pm

Please find enclosed the papers for the Joint Works Committee Meeting to be held on Wednesday 7th October 2015 at 2pm.

Yours sincerely



Chief Executive

AGENDA

1. Apologies for absence and any Declarations of Interest.
2. To receive and if correct sign the Minutes of the last Meeting of the Northern Works Committee held on 4th March 2015 (**pages 1 - 5**).
3. Matters Arising from the Northern Works Committee Minutes.
4. To receive and if correct sign the Minutes of the last Meeting of the Southern Works Committee held on 18th March 2015 (**pages 6 - 11**).
5. Matters Arising from the Southern Works Committee Minutes.
6. To receive a report on Engineering Works completed in 2015/16 (**pages 12 - 19**).
7. Rainfall (**pages 20 & 21**).
8. Any other business.

BLACK SLUICE INTERNAL DRAINAGE BOARD

MINUTES

of the proceedings of a Meeting of the
Northern Works Committee

held at the Wheatsheaf Inn, Hubbert's Bridge
4th March 2015 at 12:30pm

Members

Chairman - * Mr R Leggott
Vice Chairman - * Mr P Holmes

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| * Cllr P Bedford | * Cllr C Brotherton |
| * Mr S Bartlett | * Cllr M Brookes |
| * Mr K C Casswell | * Mr D Casswell |
| * Cllr D R Dickinson | * Mr J Fowler |
| * Cllr Y Gunter | * Cllr A Lee |
| * Mr J E Pocklington | * Mr R Needham |
| * Mr P Robinson | * Mr M J Scott |
| * Mr R Welberry | * Cllr S Woodliffe |

(* Member Present)

In attendance: Mr I M Warsap (Chief Executive)
Mr D Withnall (Finance Manager)
Mr C Richards (Pump Engineer)
Mr J Mitchell (Acting Operations Manager)
Mr M Rollinson (Vice Chairman Southern Works Committee)
Mr V Barker (Southern Works Committee Member)
Mrs K Daft (Guest - Welland & Deepings IDB)
Mr A Malkin (Guest - Boston Borough Council)
Cllr Stuart Ashton (Guest - Boston Borough Council)
Mr Paul Grant (Guest)
Mr Richard Emerson (Guest)

The Chairman welcomed the guests to the meeting and highlighted the function of the Works Committee. He further thanked the Officers of the Board for the well conducted tour before the meeting.

705 APOLOGIES FOR ABSENCE

There were no apologies for absence.

706 DECLARATIONS OF INTEREST

Declarations of interest were raised for Minute No: 709(f) from Mr P Holmes.

707 MINUTES OF LAST MEETING

The Minutes of the last Meeting of the Committee held on 1st October 2014, copies of which had been circulated, were considered and it was agreed the Minutes should be signed as a true record.

708 MATTERS ARISING

(a) Development Fund – Minute No 597(p)

The Chief Executive reminded the Committee that works at Wyberton Marsh Road will be commencing for 4 weeks from 18th May 2015. He highlighted that there could be road closures and traffic delays.

709 TO RECEIVE INSPECTION WORKS BROCHURE - Agenda Item 4

The Chief Executive presented the Inspection of Works:

(a) Fish Refuge Works for the Environment Agency (EA), North Forty Foot Drain

Chris Reeds, Senior Environment Monitoring Officer at the EA has requested to have 25 gabion baskets filled with brash and barley straw placed along the North Forty Foot Drain. These works are to be carried out by BSIDB and monitored by the Environment Agency. The Committee AGREED providing the Environment Agency fund all aspects including labour.

(b) Silt Spoil – Chain Bridge Pumping Station

The Committee discussed whether silt should be placed on the triangle of land near Chain Bridge Pumping Station. Due to the classification of the spoil the Committee AGREED that the spoil be placed on this land up to a reasonable depth of 300 – 400 mm and fenced off.

(c) Marsh Lane Industrial Estate Jetting Plan

The Chief Executive stated that the jetting works contracted out at £20,000 have not been completed due to pollution being found at two different locations.

A map detailing the pollution issues was presented to the Committee. The EA are investigating to identify the guilty parties - analysis of the polluted silt spoil samples should assist in identification. The costs of cleaning the pipes and removing the polluted silt if the polluter cannot be identified can be covered by the FDGiA Tidal Surge funds. It is recommended that jetting maintenance of these systems will be completed every 5 years.

(d) Wyberton Marsh Catchment Culvert Replacement Plan

Culverts are currently being replaced and others will be replaced in the coming months to be completed by the end of June 2015. We have attracted FDGiA funding of c£700,000 for works in the Wyberton/Kirton area by being pro-active in producing a catchment study report that has aided our efforts in attracting this funding.

(e) Wyberton Marsh Pumping Station Works

The Chief Executive gave an overview of the works in and around the Wyberton Marsh pumping station. Works will be dependent on budgets, the gravity outfall will be suitable for eels along with limited gravity discharge.

The Chief Executive requested suggestions in order to stop the livestock rubbing themselves against and damaging the fencing. Barbed wire was suggested to be the best solution.

(f) Old Kirton Marsh Pumping Station

The Chief Executive presented photographs of the old Kirton Marsh Pumping Station and asked the Committee what should be done with it. Cllr Bedford suggested contact be made with Mr Matthews who may want to restore it. It was suggested that it be boarded up and made secure with an owl box inside. The Committee AGREED to the proposed securing of the pumping station and an owl box being placed inside.

(g) Kirton Marsh Pumping Station Outfall Bays

The Chief Executive outlined the resilience works that were completed last year. Attention has been raised regarding the safety of the outfall bay. The Committee reviewed the photographs and recommended that fencing and suitable signage be erected.

Proposed Works 2016/17

(h) Refurbishment Holland Fen Pumping Station

The weedscreen cleaner was installed in 1994 and will require a full refurbishment. In order to keep the machine in good working order it will require a new trolley, supply cable and modifications to the control panel.

(i) Damford Grounds Pumping Station

Funding is being sourced from FDGiA to raise the pumps and control panels. Resilience works to construct a surge protection barrier between the EA main river (Kyme Eau) and the pumping station is also being investigated following seepage through the bank being witnessed.

(j) Swineshead Pumping Station

The works on the bays has been completed; the next stage of the refurbishment is the replacement of the weed screen cleaner.

(k) Clay Dyke Cleansing Works

Funds have been allocated to cleanse and de-silt the Clay Dyke in front of Holland Fen Pumping Station.

(l) Morley Lane, Bicker

Proposed works are to cleanse, bush and replace toe boards along the dyke on Morley Lane in Bicker.

The Chief Executive updated the Committee on the works included in the budgets.

Consenting and Byelaw Issues

(m) Littleworth Drove, Star Fen, Heckington

The Chief Executive presented a plan showing a request from the Owner to form a new larger field. The outline of the request is for the Board to give up the section of drain indicated in red across his land, which he says suffers from slips. He would like to take over the section and backfill along with the sections of private dyke (in black) and then tile drain his land from south to north with outfalls into Drain 9/1 on the northern boundary. The remaining section of Drain 9/11 on the north east boundary he would also adopt and maintain. The private drain on his North West boundary (marked purple) would be adopted by the Board to maintain the outfall for Drain 9/11.

The Committee AGREED to recommend.

(n) Slate House Farm, Rainwall's Lane, Sutterton

The Owner has requested consent to demolish the existing house and rebuild on the existing footprint which is currently sited 6m from the centre of the maintained drain.

The Owner has requested that the maintained drain fronting the property is given up and they have confirmed they are prepared to take on the riparian maintenance of the drain which is at the upper end of a maintained system.

The Committee AGREED to recommend.

710 REPORT ON RAINFALL - Agenda Item 5

The rainfall figures at Swineshead were presented, copies of which had been circulated. In addition to a copy of the Met Office rainfall amounts for 2014.

711 ANY OTHER BUSINESS - Agenda Item 6

(a) South Forty Foot Catchment

The Chief Executive highlighted a joint EA and BSIDB Public consultation to outline the South Forty Foot Catchment strategy which is due to be held in Billingham and Bicker on 11/12 March 2015. Board members and Officers will be in attendance, if anyone would like to be involved please contact the Chief Executive.

(b) Chairman, Northern Works Committee

Mr R Leggott stood down as Chairman of the Northern Works Committee. He nominated Paul Holmes as Chairman, which was seconded by Cllr P Bedford. The Committee unanimously AGREED to the appointment.

The Chairman of the Board asked members to recognise the work and dedication that Mr Leggott has put into his role as Chairman and in developing the Works Committee.

There being no other business the meeting closed at 1:30pm.

BLACK SLUICE INTERNAL DRAINAGE BOARD

MINUTES

of the proceedings of a Meeting of the
Southern Works Committee

held at the Wishing Well, Dyke on
18th March 2015 at 12 noon

Members

Chairman - * Mr K C Casswell
Vice Chairman - * Mr M Rollinson

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

(* Member Present)

In attendance: Mr I M Warsap (Chief Executive)
Mr P Nicholson (Operations Manager)
Mr C Richards (Pump Engineer)
Mr J Mitchell (Acting Operations Manager)
Mr S Marshall (Operations Supervisor)
Mr Christopher Wray (Guest)
Mr Nick Morris (Guest – Welland & Deepings IDB)

The Chairman asked the Committee for a minute silence in respect of the late Cllr Amanda Puttick who served as the South Holland District Council representative on the Southern Works Committee for a number of years.

712 **APOLOGIES FOR ABSENCE**

Apologies were received from Mr J F Atkinson, Mr P S Harborow, Cllr R Clark, Cllr B Russell, Mr M Mowbray, Mr R Leggott, Mr P Holmes and Mr J R Wray.

713 **DECLARATION OF INTERESTS**

Mr James Casswell declared an interest Minute No: 715(a)

714 MINUTES OF LAST MEETING

The Minutes of the last Meeting of the Committee held on 15th October 2014 copies of which had been circulated were considered and it was agreed that the following change be made:

Minute No 615(g) the title should be changed

From: Position of Diesel
To: VOSA Licensing

With the above change it was agreed the Minutes should be signed as a true record.

715 MATTERS ARISING

(a) Proposed Access Road, Donington North Ings Pumping Station - Minute No 608(a)

The Operations Manager informed the Committee that he had met with Network Rail to discuss a new access road as an alternative access to Donington North Ings Pumping Station.

Network Rail are keen to reduce the number of crossings on their rail links, it suits both parties to not use this crossing, they are very keen to put in the new roadway at their cost. The next stage will be a meeting with the landowner.

Mr J Casswell declares an interest at this point.

The new access road will require additional security fencing.

(b) Siltside Improvements Works - Minute No 609(f)

The Chief Executive stated the iLine Lining Company has been contracted to line three culverts in the Wyberton Marsh Catchment. The re-lining uses a sock resin manufactured in Germany, the sock is pressurised into the culvert with compressed air and an ultra violet machine is used to 'set' the resin. The resin is 6mm thick and creates a solid membrane following the contours of the culvert. The ultra violet rays immediately set the resin and there is no need for a period of time for curing which reduces the time the culvert is unusable. This company is also producing a similar sock to reline Armco at 1.8m diameter and if successful this could offer substantial savings.

Mr V Barker raised the question regarding culverts with a flat bottom. The Chief Executive responded that the sock liner will line the current culvert dimensions.

If the culvert is compressed then probably it would not be suitable. Each culvert is assessed before to ascertain if this lining can be used. It also has a 50 year guarantee.

(c) Drain Maintenance - Minute No 609(m)

Mr V Barker raised the issue of only maintaining one side of the drain. The Operations Manager stated that it is beneficial to flail both sides but in some cases due to access and/or traffic issues it can be difficult, each drain is reviewed on a case by case basis.

(d) Lone Worker - Minute No 609(t)

The Operations Supervisor stated that the Workforce are now using the lone worker Peoplesafe devices which are working well. One is available if any member wishes to view.

(e) Solar Panels on Swineshead Office Roof - Minute No 615(b)

Mr V Barker congratulated the Boards ecologically mindedness. Is there a possibility that a review of other pumping stations using solar panels or wind turbines to save electric and benefit from the FIT's subsidy schemes available from Government.

The Committee discussed the use of a wind turbine at a pumping station, the Pump Engineer stated that as yet a wind turbine would not be able to generate enough power to start the pumps.

The Committee AGREED that the benefit would warrant investigation into possible viable pumping stations where solar power could be used with the appropriate land alongside or roofing. The Chief Executive stated that experts in this field would be requested to investigate and return their findings to the Board.

(f) VOSA Licensing - Minute No 615(g)

The Operations Manager stated that he had reviewed which diesel is used in the Boards machinery. The background circa 2005 initial investigations on the use of tractors on highways, different opinions from DVLA, VOSA and Police, the Board took the general opinion from ADA guidance and registered white diesel class 1 tractors on a general haulage licence. This requires a class 1 driving licence in order to drive a tractor towing a trailer on the road with the trailer falling under the same legislation as a HGV requiring 10 week safety checks and an annual test.

715 Cont.....

No other IDB's conform to this way of operating. The Black Sluice would use the tractor and trailer for removal of weed to Gosberton, transport of spoil and to carry material to slip repairs and any other works to do with land drainage.

The general cost to the Board averages c£1,800 per week, this does not include the unforeseen cost of using the Unimog to carry out this duty at £76 per hour and cannot be in more than one place at a time. The Unimog would be better used to transport plant and materials that only the Unimog can do and the tractor transport the other materials.

ADA has been contacted and we are awaiting feedback.

The recommendation is that a reclassification of the tractor license be pursued with licensing to use red diesel. The Unimog and low loader can then transfer diesel and heavy machinery and the tractor with trailer can be used for other materials.

The Committee AGREED to recommend to the Board the reclassification of the tractor license.

716 TO RECEIVE THE INSPECTION WORKS BROCHURE - Agenda Item 5

The Operations Manager presented his Inspection of Works:

(a) Black Sluice IDB Extended Area

In 2012 the Board took on delegated responsibility for all matters regarding ordinary watercourses on behalf of the Lead Local Flood Authority (LLFA) - Lincolnshire County Council. Where necessary the Board carry out enforcement action on LCC's behalf.

There is an issue of historical flooding from the Town Beck drain along Donington Road in Horbling. During prolonged rainfall the Town Beck is prone to flooding onto the highway and in some cases has affected some of the lower properties. Matters can be improved along the Town Beck in particular with the number of pipes and ducts either under or beside the property accesses along Donington Road. It is hoped that negotiations with the relevant utilities will result in the removal of these pipes and ducts which will allow better flow of water and reduce the likelihood of flooding.

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

The Operations Manager highlighted the map detailing the proposed pipe sections to be replaced. At the end of the first section a raised manhole cover will be replaced once works progress to this position.

(c) Billingham Fen Slip

The Operations Manager presented a photograph of a slip in Billingham Fen, at present it is not compromising the watercourse if it does it will be repaired and if not it will be scheduled into maintenance works.

(d) Roadside Slips in the Bank

The Chief Executive highlighted photographs of a number of road side slips. They are not compromising the watercourse at the moment and will be scheduled in for repair.

The Chief Executive asked the Committee for feedback and general discussion. The increase in heavy traffic use of roads alongside drains is causing slips which once repaired can and do occur further along the watercourse.

Alternative solutions such as spreading, levelling, building up bank, reinforcing banks with posting, piping drains. All these would involve considerable costs to the Board.

The Committee asked if costs could be recouped from Highways, also could ADA be contacted to ascertain other drainage boards who may have a similar problem.

(e) Dowsby Lode Raised Bank Issue

The Operations Manager outlined the background to the question raised regarding why it is maintained from the north side. Historically there were raised banks on both sides and between 1967 and 1978 when the pumping station was built the south side was levelled out.

The question was raised as to whether the northern side could be levelled and soil put on the southern side bank as there is more risk of overtopping. Mr Barker stated that land to the north is some of the lowest in the fen. The Committee considered that on a future inspection that this be included to view the site.

716 Cont.....

(f) Leaves Lake Drove Improvements

The Chief Executive responded to Mr M Richardson regarding the scheme proposed for completion in 2015/16. The design brief for the redirection of flow to reline the corrugated culvert with the possible addition that the drain may need to be widened. An application for FDGiA will be completed.

(g) Anglian Water - Guthram Gowt Slips

The Chief Executive stated that Anglian Water have received quotations from the BSIDB to reinstate the bank after an AWS main pipe burst in July 2014. Anglian Water Insurers' seem to be taking a long time to agree to the works bearing in mind that these works really need to be completed soon.

717 REPORT ON RAINFALL - Agenda Item 4

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

718 ANY OTHER BUSINESS - Agenda Item 5

(a) Chairman of the Southern Works Committee

Mr K Casswell stated that this will be his last meeting as Chairman of this Committee. He proposed that Mr M Rollinson his Vice Chairman be appointed. Mr K Casswell will remain as Vice Chairman of the Board.

Mr V Barker seconded and all AGREED.

Mr K Casswell stated that Mr R Leggott has stepped down as Chairman of the Northern Works Committee and his Vice Chairman Mr P Holmes has been appointed.

Mr M Rollinson thanked Mr K Casswell on behalf of the Committee for his 6 years as Chairman and all AGREED.

(b) Black Hole Drove

Mr V Barker requested that a strategy be looked into in the future regarding bank levels between Black Hole and Dunsby.

There being no further business the meeting closed at 13:30.

BLACK SLUICE INTERNAL DRAINAGE BOARD

WORKS COMMITTEE MEETING – 7th OCTOBER 2015

AGENDA ITEM No 4

ENGINEER'S REPORT

1. CAPITAL ASSET IMPROVEMENTS

1.1 2015/16 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
- (b) North Forty Foot cleansing/revetment works £30,000
- (c) Donington Malting Lane pipeline replacement £77,000(estimate)
- (d) Sempringham Fen station weedscreen cleaner £41,000(estimate)
- (e) Swineshead culvert replacements £40,000(estimate)
- (f) Kirton Meeres culvert replacement £15,500(estimate) with a further £14,500 (estimate) in 2015/16; subject to identifying suitable benefits
- (g) Eel Passability Studies on 18No. PS £5,000 (estimate) allocation to each PS
- (h) Wyberton Chain Bridge & Cooks Lock PS flap valves £52,404.63 £73,000(estimate)
- (i) Wyberton Catchment tidal surge recovery works £459,000. This scheme received grant approval in January 2015, such was the scale of the scheme, works were not completed until the end of June 2015

1.2 2015/16 BSIDB Funded Capital Schemes

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

- (a) Leaves Lake Drove diversion £40,000(estimate)
- (b) Bourne Fen New Dyke revetment £40,000(estimate)
- (c) Defective culvert replacements £55,000 (estimate)

(d) Culverts that have been identified for replacement in 2015/16. Based on current survey information:

- No 2428 Screddington 12m x 0.9m - £7,000(estimate)C
- No 3190 South Kyme 12m x 1.2m - £9,000(estimate)
- No 1253 Horbling Fen 40m x 0.6m - £8,000(estimate)C
- No 1302 Dowsby Fen 25m x 1.2m remove Armco section - £2,000 (estimate)
- No 2072 Dowsby Fen 12m x 0.6m - £5,000(estimate)
- 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

(e) Completed culverts in 2015/16 Joint Works area:

- No 1282 Dowsby Fen 18m x 0.6m -
- No 1036 Bourne Fen 9m x 0.6m
- No 3107 Bourne Fen 15m x 0.6mC
- No 3214 Bicker Fen 12m x 0.6m
- No 65 South Kyme 12m x 1.2m

(f) Wyberton Marsh tidal surge recovery completed culvert works

- No 1570 Wyberton Marsh 6m x 0.9m removed
- No 1565 Wyberton Marsh 12m x 0.9m lined
- No 1564 Wyberton Marsh 14m x 0.9m lined
- No 1563 Wyberton Marsh 12m x 0.9m lined
- No 1562 Wyberton Marsh 10m x 1.8m
- No 1573 Wyberton Marsh 12m x 1.2m
- No 3595 Wyberton Marsh 98m x 1.8m inc. 5 manholes Pipeline
- No 1933 Wyberton Marsh 12m x 1.2m
- No 3464 Wyberton Marsh 12m x 1.2m
- No 132 Wyberton Marsh 18m x 2.1m (development fund)
- No 1488 Wyberton Marsh 18m x 0.6m

(g) Holland Fen pumping station refurbish weedscreen cleaner £39,000 (estimate)

(h) Blackhole Drove PS new roof £16,000 (estimate)

(i) Dowsby Lode p/s new roof £10,000(estimate)

(j) Chainbridge PS repairs to pump No1 £5,300

(k) 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).

1.3 Proposed Works 2016/17

Please refer to the Scheme Expenditure Budget attached.

(a) Defra/EA granted schemes

Helpringham pumping station weedscreen cleaner £84,000

(b) Funded Capital Schemes

- Clay Dyke cleansing £60,000
- General culvert replacement £35,000
- Morley Lane, Bicker revetment £20,000

(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. ENVIRONMENTAL WORKS

- To create 100m of new reed bed.
- Survey and map (GIS layer) all hedgerows by 2016.
- Improve a habitat/plant and establish the Greater Water Parsnip.
- Construct an Otter holt.
- Complete a farmland bird study (agreed to study Wyberton Marsh and assess against the study completed in 2010).
- Carry out a Grass Snake survey.
- Erect bat boxes at pumping stations.

NB; all works to be completed within the previously agreed Environmental budgets.

3. DRAIN MAINTENANCE

(a) Annual Summer Flailing/Cutting

The summer cutting commenced two weeks early on the 1st July 2015. 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 Votex, John Deere with side Herder Cavalier and front Votex and the new Spearhead Twiga SPV 2 with side flail and cutting basket) flailing in front of the six cutters (JCB JS 220, JCB JS 160, JCB JS 145, 2 x JCB JS 130 and hired in CAT130) albeit the Twiga does change cutting heads and cuts some watercourses.

At the end of August (period 5) the Boards overall Drains Maintenance costs were:

- £180,730 (starting two weeks early)
- £229,289 (2014 equivalent costs starting three weeks early)
- £171,102 (2013 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 2015 Mayflower hand roding contract works has been successfully completed for £8,084 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 2015/16 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 intension 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 2015 for the works to be undertaken throughout November to May 2015. 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 59 km.

Total length of watercourse outstanding from previous year is 7.5km, of which is Dowsby Lode 2.7km.

The total length of watercourses cleansed over the 2014/15 season was 81km, 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 5) the budget for maintenance works is £130,544 with the actual expenditure being £111,802 (£76,606 maintenance works and £35,746 electricity costs) resulting in a current under spend of £18,742.

5. EXTERNAL RECOVERABLE WORKS

Current external recoverable income is £91,807 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**

A new Spearhead Twiga SPV2 arriving in June 2015 ready for the cutting season.
Kverneland Pro 2.35m front mounted flail mower(see 10c)

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**

The Barrier is now initially moving forward solely as a tidal surge barrier with no water level management involvement. Therefore in effect the barrier will only ever be in a raised position when an exceptionally high tide and/or a tidal surge is envisaged.

For those interested in attending there is now an open invitation for anyone to attend a weekly information forum at the Boston Barrier Hub off Marsh Lane, every Wednesday afternoon.

(b) **Black Sluice Catchment Works Strategy**

A six week public catchment works consultation ended on the 27th September 2015, Boards officers were involved with the consultation in three village halls and our own offices along with a consultation with the NFU and its members with a total attendance of approximately 180 people. Consultation responses are currently being reviewed by the EA before they initially submit their finding to ourselves before a formal report is produced. The Board have five 'preferred options' listed below:-

- All Environment Agency (EA) main river assets within the Black Sluice Catchment transferred to the Black Sluice Internal Drainage Board (BSIDB) in good working order over an agreed timeframe.
- The uncompleted South Forty Foot Drain (SFFD) widening/water flow enhancements works to be completed by the EA.
- The EA to repair the old pumps and/or install new electric pumps at Black Sluice Pumping Station (BSPS) in order to provide a combined 60cumecs pumping capacity.
- DEFRA financial grants awarded to BSIDB and/or a reduction in the EA precept to assist with the additional maintenance costs associated with the BSPS and main rivers following the asset transfer over an agreed period of time (c5 years).
- BSIDB to undertake all main river maintenance works for the EA within their Public Sector Co-Operation Agreement (PSCA) until a time the transfers are complete.

Our preferred options have gained support from various authorities and organisations, for example LCC, BBC, SKDC, NFU, Crown Estates, ADA etc.

The Boards full consultation response is available upon request.

(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.

Following an initial meeting 22nd April RE: 2015/16 maintenance works of EA main river agreed 37km under PSCA

A second meeting 3rd August agreed 45km of main river maintenance agreed under PSCA - total for c£65,000(estimate)

Following this agreement a new front mounted flailmower was purchased for bank top maintenance

NB: the EA have moved their offices out of the depot, it is now used as a stores compound, only two storage containers remain, which will be moved soon

(d) Fens Waterways Link, Phase 3: Donington to Surfleet Seas End

Due to financial restrictions these works have currently been suspended.

11. ANY OTHER BUSINESS

- (a) To discuss the amalgamation of both Works Committees for future Autumn Report meetings, and any benefits of doing so.
- (b) Independent Works Committee inspections and meetings to remain, albeit they could be co-ordinated to be held on the same day.

Black Sluice Internal Drainage Board

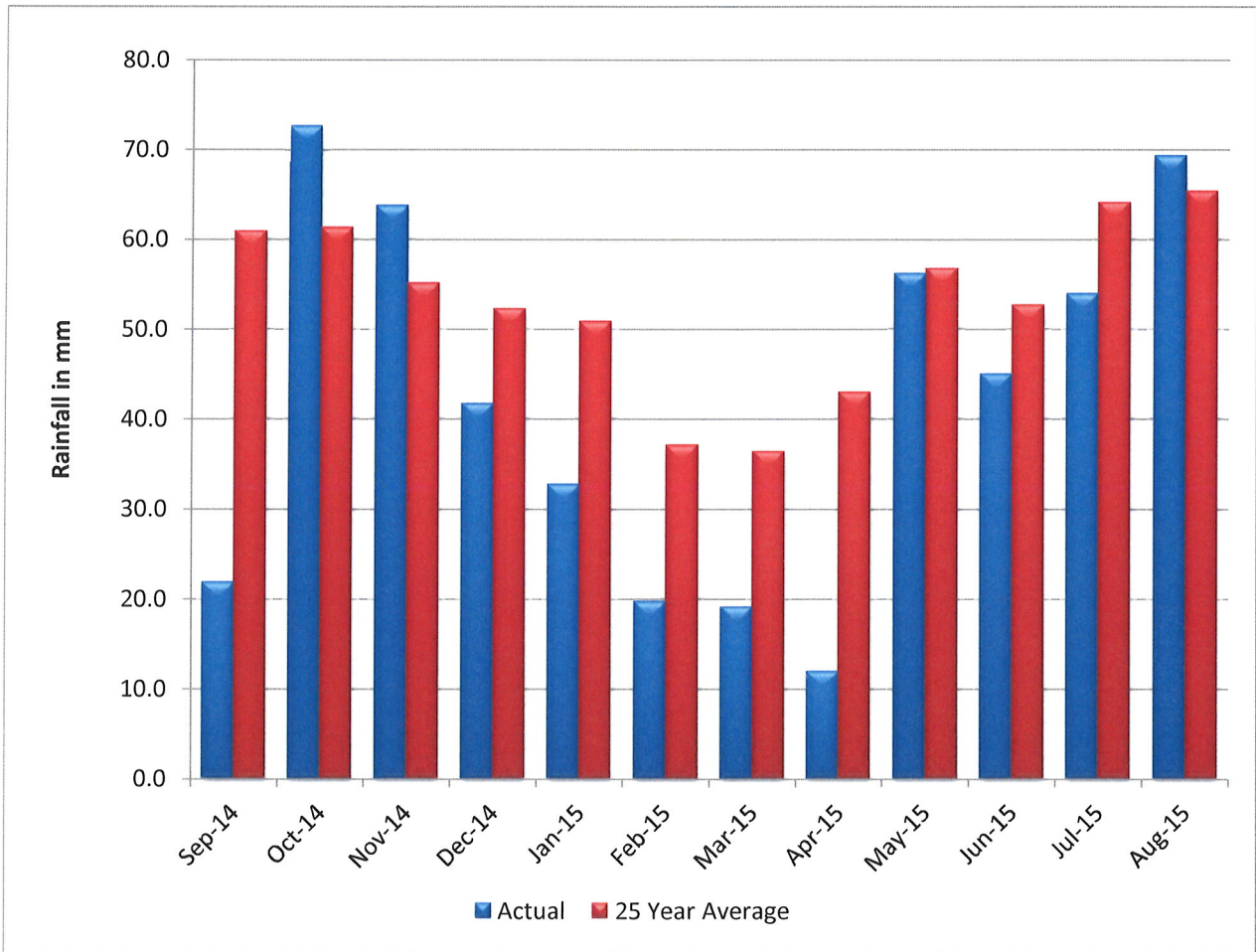
Scheme Expenditure Budget

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 | Maltings 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 C/F | £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 | £115,000 | £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 B/F (£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 | £135,000 | £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 | Quadrang 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 | £135,000 | £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 |

BLACK SLUICE INTERNAL DRAINAGE BOARD Rainfall at Swineshead Depot

| MONTH | Rainfall | | Actual / Average |
|---------------|----------|-----------------|------------------|
| | Actual | 25 Year Average | |
| | mm | mm | % |
| Sep-14 | 21.8 | 60.9 | 35.80% |
| Oct-14 | 72.5 | 61.3 | 118.27% |
| Nov-14 | 63.7 | 55.1 | 115.61% |
| Dec-14 | 41.7 | 52.3 | 79.73% |
| Jan-15 | 32.7 | 50.8 | 64.37% |
| Feb-15 | 19.7 | 37.1 | 53.10% |
| Mar-15 | 19.1 | 36.4 | 52.47% |
| Apr-15 | 12.0 | 43.0 | 27.91% |
| May-15 | 56.2 | 56.7 | 99.12% |
| Jun-15 | 45.0 | 52.7 | 85.39% |
| Jul-15 | 53.9 | 64.1 | 84.09% |
| Aug-15 | 69.2 | 65.4 | 105.81% |
| Totals | 507.5 | 635.8 | 79.82% |



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

| MONTH | Rainfall | | Actual / Average |
|---------------|----------|-----------------|------------------|
| | Actual | 25 Year Average | |
| | mm | mm | % |
| Sep-14 | 10.9 | 48.2 | 22.61% |
| Oct-14 | 72.5 | 58.8 | 123.30% |
| Nov-14 | 61.7 | 55.9 | 110.38% |
| Dec-14 | 52.5 | 49.5 | 106.06% |
| Jan-15 | 20.4 | 50.0 | 40.80% |
| Feb-15 | 20.6 | 35.5 | 58.03% |
| Mar-15 | 2.0 | 19.8 | 10.10% |
| Apr-15 | 11.4 | 42.2 | 27.01% |
| May-15 | 54.5 | 54.5 | 100.00% |
| Jun-15 | 38.0 | 54.5 | 69.72% |
| Jul-15 | 53.0 | 60.4 | 87.75% |
| Aug-15 | 46.8 | 62.2 | 75.24% |
| Totals | 444.3 | 591.5 | 75.11% |

