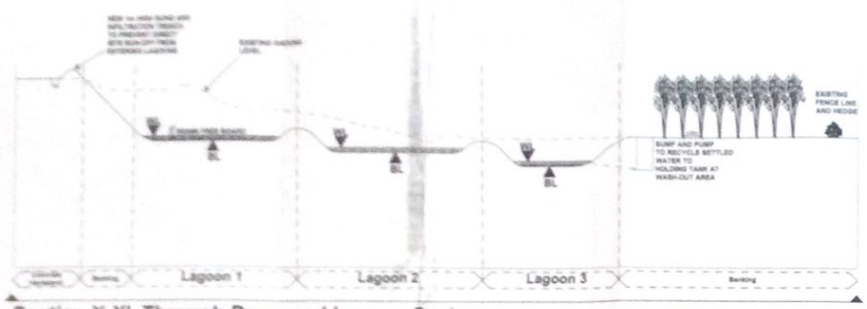
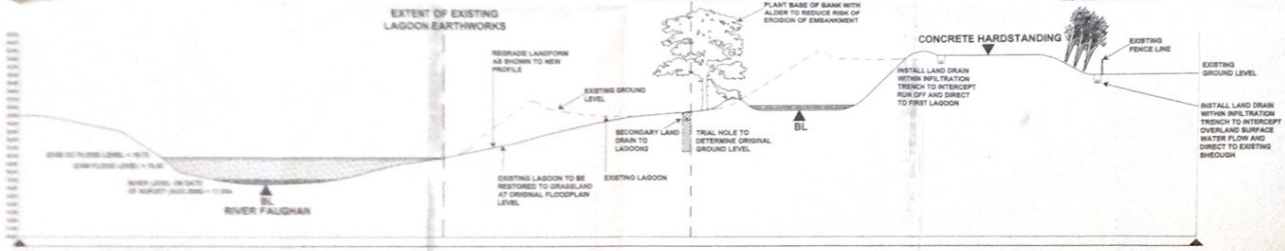
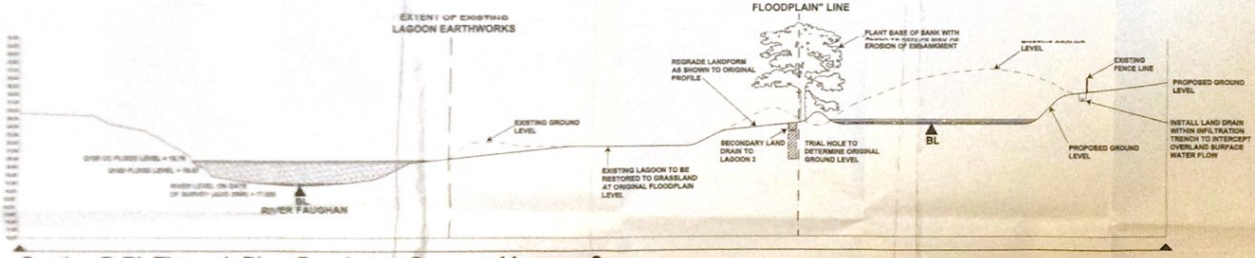
W & J Chambers Ltd, Drumahoe



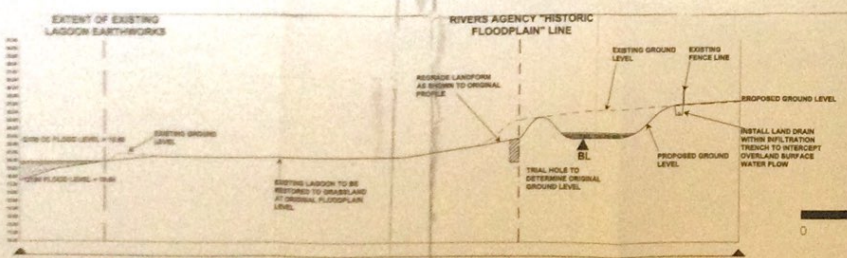
Section X-X' Through Proposed Lagoon System



Section A-A' Through River Faughan at Proposed Lagoon 1



Section B-B' Through River Faughan at Proposed Lagoon 2



Section C-C' Through River Faughan at Proposed Lagoon 3

KEY TO SYMBOLS

Q100	= peak water levels for 1 in 100 year flood event
Q100 CC	= peak water levels for 1 in 100 year + climate change flood event
BL	= Bed Level

0 25m 50m 75m 100M

CHECKS ON ORIGINAL GROUND LEVEL DURING SITEWORKS

AS AGREED WITH RIVER'S AGENCY CHECKS DURING SITEWORKS TO PROVE ORIGINAL GROUND LEVEL ("GREEN FIELD LEVEL") WILL BE CONFIRMED BY TRIAL HOLES AS SHOWN TO DETERMINE DEPTH OF UNDISTURBED GROUND

METHODOLOGY OF LAGOON REMOVAL FROM HISTORIC FLOODPLAIN

STEP 1 CONSTRUCT NEW LAGOON IN LOWER FLOODPLAIN, BETWEEN EXISTING RIVER EMBANKMENT AND BANKS

STEP 2 RE-DIRECT SITE DRAINAGE TO NEW LAGOON

STEP 3 PUMP ANY REMAINING SETTLEMENT WATER IN EXISTING LAGOONS INTO NEW LAGOON. ALLOW ANY WATER IN EXISTING SYSTEM THAT CANNOT BE PUMPED TO EVAPORATE PRIOR TO COMMENCEMENT OF DECOMMISSIONING WORKS

STEP 4 REGRADE EXISTING DECOMMISSIONED LAGOONS AS SHOWN

STEP 5 PLANT WILLOW AND ALDER IN FIRST AVAILABLE SEASON (NOVEMBER TO MARCH). SOWN OUT BANKS AND BERMS IN GRASS SEED AND REPEAT IF NECESSARY TO ENSURE GOOD COVERAGE/ESTABLISHMENT

LAGOON MANAGEMENT

ACTION POINTS

- CLEAN-OUT LAGOONS REGULARLY/AS NECESSARY TO MAINTAIN CAPACITY. ALL SILT WILL BE RECYCLED ON A ROLLING BASIS.
- MONITOR WATER LEVELS AND ENSURE OUTFALLS AND INTERCONNECTING PIPEWORK IS NOT BLOCKED. ALL WATER WILL BE RECYCLED ON A ROLLING BASIS
- MONITOR AREA FOR EVIDENCE OF LEAKAGE AND TAKE IMMEDIATE REMEDIAL ACTION. UNDER NO CIRCUMSTANCES SHOULD LAGOON WATER BE ALLOWED TO REACH THE RIVER.
- COPPICE ALDER AND WILLOW PLANTING TO PROMOTE ROOT GROWTH AND REDUCE WIND-THROW FROM HEAVY HEAVY GROWNS.
- TAKE CARE WHEN USING INDUSTRIAL PLANT CLOSE TO BANKS SO AS NOT TO CAUSE ANY DAMAGE.
- NO CROSS CONNECTION WITH EXISTING CULVERTS/WATERCOURSE THAT DISCHARGE DIRECTLY TO RIVER FAUGHAN.

SPILLAGE PREVENTION

- THE LAGOONS WILL BE INSPECTED AT REGULAR INTERVALS. DEPTH OF WATER/FREEBOARD WILL BE NOTED. AS WELL ANY ACCUMULATION OF SURFACE WATER ON THE SITE GENERALLY
- RIVER LEVELS UPSTREAM, MIDPOINT AND DOWNSTREAM OF THE SITE WILL BE LOGGED
- SHOULD WATER OR RIVER LEVELS RISE ABOVE THE 500MM FREEBOARD (WHICH COULD INDICATE A BLOCKAGE OR PUMP FAILURE) THE DUTY MANAGER AND/OR THE FLOOD WARDENS WILL TAKE APPROPRIATE ACTION AS BELOW:

EMERGENCY PROCEDURES

A. TRAINING

A1. ALL STAFF TO BE MADE AWARE OF AND TO BE REGULARLY TRAINED IN: EMERGENCY PROCEDURES, USE OF PPE, AND CONTROL OF SPILLS LOCATION OF FIRE FIGHTING EQUIPMENT, SPILL KITS ETC. KEEP RECORD OF STAFF ON SITE AT ALL TIMES.

B. FIRST AID

B1. THE SITE FIRST AIDER AND HEALTH AND SAFETY OFFICER IS ..... TBC.....

C. IN THE EVENT OF A FIRE

C1. RAISE THE SITE ALARM (KLAXON)
C2. CALL THE FIRE BRIGADE (999) AND TELL THE OPERATOR THAT THE FIRE BRIGADE IS REQUIRED AT **CHAMBER'S CONCRETE PRODUCTS, GLENSHANE ROAD, DRUMAHOE.**
C3.ON HEARING THE FIRE ALARMS:
ALL PERSONNEL TO ASSEMBLE IN FRONT OF THE OFFICE BUILDING
DO NOT STOP TO COLLECT PERSONAL BELONGINGS
TURN OFF POWERED EQUIPMENT AND FUEL SUPPLIES
IF IT IS SAFE TO DO SO ATTACK FIRE WITH EQUIPMENT PROVIDED
DO NOT RE-ENTER SITE UNTIL IT IS SAFE TO DO SO

D. IN THE EVENT OF A SPILLAGE.

ON-SITE EXCEPTIONS, RIVER FAUGHAN, SURFACE WATERCOURSES AND CULVERTS, SPILL KIT AND ABSORBENT MATERIALS ARE LOCATED AT SITE OFFICE. AIM TO PREVENT OIL OR SILT EXITING THE SITE AND POLLUTING THE ADJACENT WATERCOURSE OR UNDERGROUND SUB-STRATA.

D1. RAISE THE SITE ALARM (KLAXON)
D2. IF NECESSARY EVACUATE SITE
D3. ALERT STATUTORY AUTHORITIES, POLICE, FIRE BRIGADE, NIEA WATER MANAGEMENT UNIT, DERRY CITY COUNCIL, ENVIRONMENTAL HEALTH DEPARTMENT AND THE HEALTH AND SAFETY EXECUTIVE NI.

PHONE EMERGENCY HOTLINE 0800 807060

D4. CONTAIN SPILLAGE AS CLOSE TO SOURCE AS POSSIBLE WITH SPILL LITE, EARTH/SAND BUNDING OR STRAW BALES.
D5. ENSURE ALL PIPE WORK CONNECTING PONDS (INLETS AND OUTFALLS) IS SEALED.
D6. IN THE EVENT OF PND CONTAMINATION: USE BOOMS TO CONTAIN SPILLAGE, USE "BILGE SKIMMERS" (ABSORBENT BAGS) TO RETAIN OIL FOR SAFE DISPOSAL AT AN APPROVED OFF-SITE TIP.

DO NOT ATTEMPT TO HOSE ANY OIL SPILL DOWN NOR USE DETERGENTS

CHECKS ON ORIGINAL GROUND LEVEL DURING SITEWORKS

AS AGREED WITH RIVERS AGENCY: CHECKS DURING SITEWORKS TO PROVE ORIGINAL GROUND LEVEL ("GREEN FIELD LEVEL") WILL BE CONFIRMED BY TRIAL HOLES TO DETERMINE DEPTH OF UNDISTURBED GROUND.

DOE
GRANTED
Subject to Conditions (if any) as set out on
8
Decision form No. A/2002/0304/F
Date 13/04/12

Rev	Amendment	By	Chkd.	Date
E	Note regarding reservation added to Section A-A (As Sections B-B and C-C). Side slopes of lagoons moved out of Rivers Agency floodplain. Note added to drawing on original ground level during siteworks by trial holes.	JB	DRD	21.06.11
D	As per Rivers Agency comment: 60 unnecessary infilling in Rivers Agency Historic Floodplain removed	WGC	DRD	06.06.11
C	Bund and infiltration trench added	WGC	DRD	09.07.11
B	Amended lagoon position/ additional section	WGC	DRD	14.04.11
A	Alleged flow to from Rivers Agency map added for comparative purposes	WGC	DRD	01.03.11

PLANNING ISSUE

CLIENT: W + J Chambers Ltd
91 GLENSHANE ROAD
DRUMAHOE
LONDONDERRY

DRG. TITLE

SITE SECTIONS

JOB No.	3006147	DRG. No.	REG - D 03	E
Scale	Date	Drawn	Checked	
1:200 @ A0	01.04.11	WGC	DRD	

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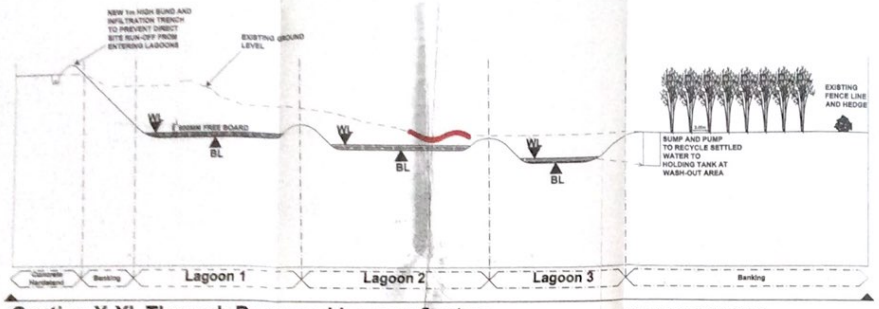
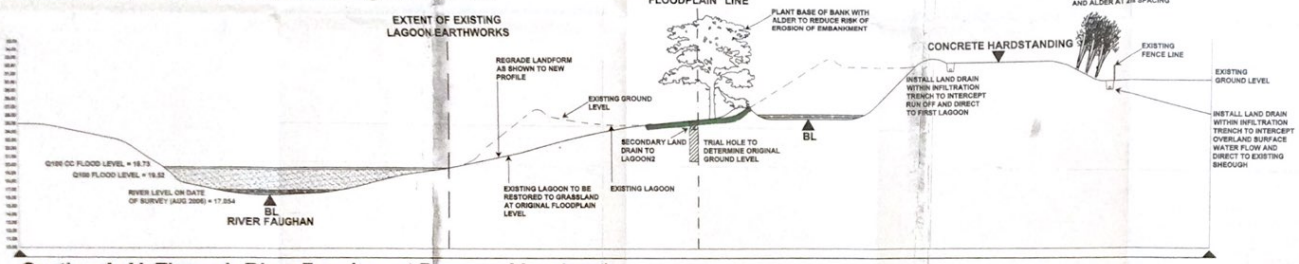
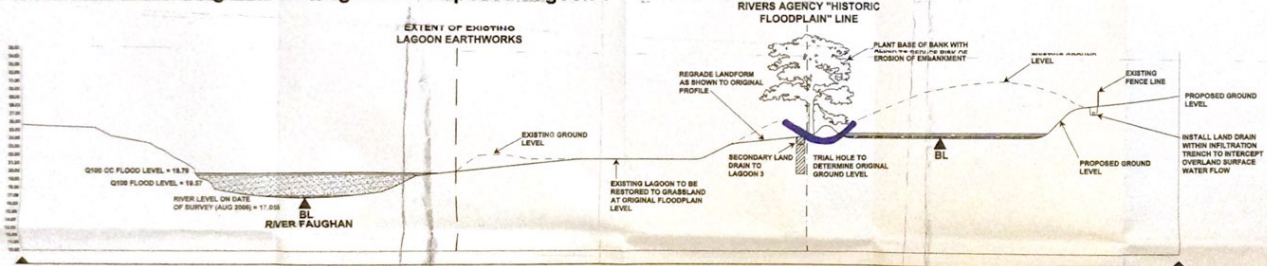
W & J Chambers Ltd, Drumahoe



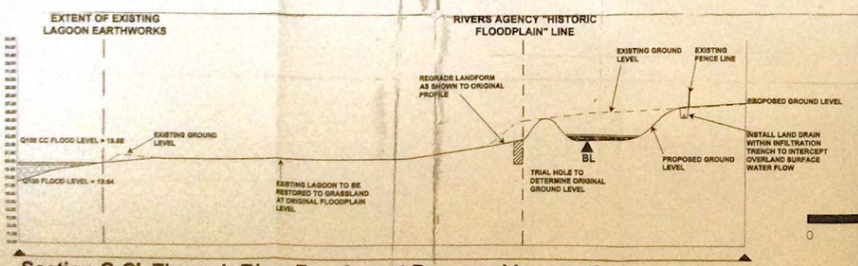
Section X-X' Through Proposed Lagoon System



Section A-A' Through River Faughan at Proposed Lagoon 1



Section B-B' Through River Faughan at Proposed Lagoon 2



Section C-C' Through River Faughan at Proposed Lagoon 3

CHECKS ON ORIGINAL GROUND LEVEL DURING SITEWORKS

AS AGREED WITH RIVER'S AGENCY: CHECKS DURING SITEWORKS TO PROVE ORIGINAL GROUND LEVEL ("GREEN FIELD LEVEL") WILL BE CONFIRMED BY TRIAL HOLES AS SHOWN TO DETERMINE DEPTH OF UNDISTURBED GROUND.

METHODOLOGY OF LAGOON REMOVAL FROM HISTORIC FLOODPLAIN

STEP 1 CONSTRUCT NEW LAGOONS WITH 900MM FREEBOARD BETWEEN MAXIMUM WATER LEVEL AND TOP OF BANKS

STEP 2 RE-DIRECT SITE RUN-OFF TO NEW LAGOON 1

STEP 3 PUMP ANY REMAINING SETTLEMENT WATER IN EXISTING LAGOONS INTO NEW LAGOON 1. ALLOW ANY WATER IN EXISTING SYSTEM THAT CANNOT BE PUMPED TO EVAPORATE PRIOR TO COMMENCEMENT OF DECOMMISSIONING WORKS

STEP 4 REGRADE EXISTING DECOMMISSIONED LAGOONS AS SHOWN

STEP 5 PLANT WILLOW AND ALDER IN FIRST AVAILABLE SEASON (NOVEMBER TO MARCH). SOW OUT BANKS AND BERMS IN GRASS SEED AND REPEAT IF NECESSARY TO ENSURE GOOD COVERAGE/ESTABLISHMENT

LAGOON MANAGEMENT

ACTION POINTS

- CLEAN-OUT LAGOONS REGULARLY AS NECESSARY TO MAINTAIN CAPACITY. ALL SILT WILL BE RECYCLED ON A ROLLING BASIS.
- MONITOR WATER LEVELS AND ENSURE OUTFALLS AND INTERCONNECTING PIPEWORK IS NOT BLOCKED. ALL WATER WILL BE RECYCLED ON A ROLLING BASIS.
- MONITOR AREA FOR EVIDENCE OF LEAKAGE AND TAKE IMMEDIATE REMEDIAL ACTION. UNDER NO CIRCUMSTANCES SHOULD LAGOON WATER BE ALLOWED TO REACH THE RIVER.
- COPPICE ALDER AND WILLOW PLANTING TO PROMOTE ROOT GROWTH AND [illegible]
- TAKE CARE WHEN USING INDUSTRIAL PLANT CLOSE TO BANKS SO AS NOT TO CAUSE ANY DAMAGE.
- NO CROSS CONNECTION WITH EXISTING CULVERTS/WATERCOURSE THAT DISCHARGE DIRECTLY TO RIVER FAUGHAN.

SPILLAGE PREVENTION

- THE LAGOONS WILL BE INSPECTED AT REGULAR INTERVALS. DEPTH OF WATER/FREEBOARD WILL BE NOTED. AS WILL ANY ACCUMULATION OF SURFACE WATER ON THE SITE GENERALLY.
- RIVER LEVELS UPSTREAM, MIDPOINT AND DOWNSTREAM OF THE SITE WILL BE LOGGED.
- SHOULD WATER OR RIVER LEVELS RISE ABOVE THE 900MM FREEBOARD (WHICH COULD INDICATE A BLOCKAGE OR PUMP FAILURE) THE DUTY MANAGER AND/OR THE FLOOD WARDENS WILL TAKE APPROPRIATE ACTION AS BELOW:

EMERGENCY PROCEDURES

A. TRAINING

A1. ALL STAFF TO BE MADE AWARE OF AND TO BE REGULARLY TRAINED IN: EMERGENCY PROCEDURES, USE OF PPE, AND CONTROL OF SPILLS. LOCATION OF FIRE FIGHTING EQUIPMENT, SPILL KITS ETC. KEEP RECORD OF STAFF ON SITE AT ALL TIMES.

B. FIRST AID

B1. THE SITE FIRST AIDER AND HEALTH AND SAFETY OFFICER IS .....TBC.....

C. IN THE EVENT OF A FIRE

C1. RAISE THE SITE ALARM (KLAXON)
C2. CALL THE FIRE BRIGADE (999) AND TELL THE OPERATOR THAT THE FIRE BRIGADE IS REQUIRED AT **CHAMBER'S CONCRETE PRODUCTS, GLENSHANE ROAD, DRUMAHOE.**
C3. ON HEARING THE FIRE ALARM:
ALL PERSONNEL TO ASSEMBLE IN FRONT OF THE OFFICE BUILDING
DO NOT STOP TO COLLECT PERSONAL BELONGINGS
TURN OFF POWERED EQUIPMENT AND FUEL SUPPLIES
IF IT IS SAFE TO DO SO ATTACK FIRE WITH EQUIPMENT PROVIDED
DO NOT RE-ENTER SITE UNTIL IT IS SAFE TO DO SO

D. IN THE EVENT OF A SPILLAGE:

[illegible] SURFACE WATERCOURSES AND CULVERTS. SPILL KIT AND ABSORBENT MATERIALS ARE LOCATED AT SITE OFFICE.
AIM: TO PREVENT OIL OR SILT EXITING THE SITE AND POLLUTING THE ADJACENT WATERCOURSE OR UNDERGROUND SUB-STRATA.

D1. RAISE THE SITE ALARM (KLAXON)
D2. IF NECESSARY EVACUATE SITE
D3. ALERT STATUTORY AUTHORITIES: POLICE, FIRE BRIGADE, NIEA WATER MANAGEMENT UNIT, DERRY CITY COUNCIL ENVIRONMENTAL HEALTH DEPARTMENT AND THE HEALTH AND SAFETY EXECUTIVE NI.

PHONE EMERGENCY HOTLINE 0800 807060

D4. CONTAIN SPILLAGE AS CLOSE TO SOURCE AS POSSIBLE WITH SPILL LITS, EARTH/SAND BUNDING OR STRAW BALES.
D5. ENSURE ALL PIPE WORK CONNECTING PONDS (INLETS AND OUTFALLS) IS SEALED.
D6. IN THE EVENT OF PRO CONTAMINATION: USE BOOMS TO CONTAIN SPILLAGE, USE "BILGE SKIMMERS" (ABSORBENT BAGS) TO RETAIN OIL FOR SAFE DISPOSAL AT AN APPROVED OFF-SITE FIRM.

DO NOT ATTEMPT TO HOSE ANY OIL SPILL DOWN NOR USE DETERGENTS

CHECKS ON ORIGINAL GROUND LEVEL DURING SITEWORKS

AS AGREED WITH RIVER'S AGENCY: CHECKS DURING SITEWORKS TO PROVE ORIGINAL GROUND LEVEL ("GREEN FIELD LEVEL") WILL BE CONFIRMED BY TRIAL HOLES TO DETERMINE DEPTH OF UNDISTURBED GROUND.

KEY TO SYMBOLS

Q100 = peak water levels for 1 in 100 year flood event
Q100 CC = peak water levels for 1 in 100 year + climate change flood event
BL = Bed Level

0 25m 50m 75m 100M

DOE
GRANTED
Subject to Conditions (if any) as set out on
Decision form No. H/2006/0608/F
Date 3/09/12

Rev	Amendment	By	Chkd.	Date
E	Note regarding reinstatement added to Section A-A (As Sections B-B and C-C). Side slopes of lagoons moved to suit site conditions. Note added RE: Chainlink on original ground level during siteworks by trial holes.	JB	DRD	27.08
D	As per Rivers Agency comment: All processes relating to Rivers Agency Historical Floodplain removed	WGC	DRD	05.06
C	Bund and infiltration trench added	WGC	DRD	06.0
B	Amended lagoon position/ additional section	WGC	DRD	14.0
A	Adapted floor lvl from Rivers Agency map added for comparative purposes	WGC	DRD	01.03

PLANNING ISSUE

CLIENT: W + J Chambers Ltd
81 GLENSHANE ROAD
DRUMAHOE
LONDONDERRY

DRG. TITLE

SITE SECTIONS

JOB No.	3206147	DRG No.	REG - D 03
Scale	Date	Drawn	Checked
1:200 @ A0	01.04.11	WGC	DRD

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