

Summary

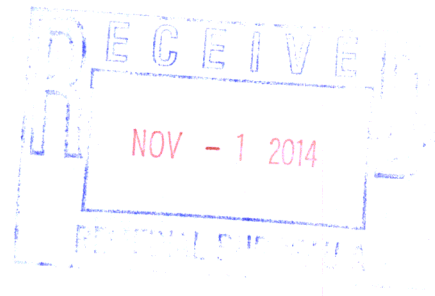


Georgia-Pacific

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October 31, 2014

Department of the Army
US Army Corps of Engineers, ATTN: CENAN-OP-RU
1 Buffington Street, Building 10, 3rd Floor North
Watervliet, New York 12189-4000



Subject:
Second Annual Report on the Status of Mitigation Activities
Willsboro Black Ash Pond – Site #516009
USACE Permit Application #NAN-2012-00195
Order of Consent No: A5-0771-07-11

Dear Sir/Madam:

On September 28, 2012, the United States Army Corps of Engineers (USACE) issued Georgia-Pacific LLC (Georgia-Pacific) the Department of the Army Nationwide General Permit Number 38 (NWP 38) number NAN-2012-00195 for the Willsboro Black Ash Pond Site (the Site) located in Willsboro, New York. Georgia-Pacific completed construction at the Site on May 12, 2013, and submitted the Nationwide Permit Compliance Certification and Report Form to the USACE on June 12, 2013. In accordance with Special Condition (C) of the NWP 38, an Annual Report presenting the status of the mitigation activities at the Site shall be provided to the USACE in each of the five years following completion of the construction activities authorized by the NWP 38. The first Annual Report presenting such a status update for the Site was submitted to the USACE on October 31, 2013, and this letter is the second Annual Report presenting the status of the mitigation activities at the Site.

Photographs of Representative Areas

Photographs showing representative areas of the restored floodplain were taken during spring high-flow conditions in April 2014 as well as during a high-flow event in August 2014, and photographs of the mitigation planting area were taken in June and August 2014. These photos and associated photo logs are provided in Attachment 1.

Floodplain Areal Extent

Appendix F of the Pre-Construction Notification Clean Water Act, Section 404 NWP 38 and Section 401 Water Quality Certification Application (PCN) provided a plan view estimation of the anticipated areal extent of the proposed floodplain and is attached to this Annual Report for reference (Attachment 2). The approximate areal extent of the current floodplain conditions as observed on April 10, 2014 is provided on Figure 1 in Attachment 2.


Remedial Plan

The compensatory mitigation (i.e., construction of an inlet/outlet structure, planting of wetland shrubs) has been completed and the installed mitigation plantings appear to have at least an 85% survival rate (with less than 5% areal coverage of invasive species). As such, Special Conditions (A) and (B) of NWP 38 have been met, and no additional plantings or construction work are necessary at this time. Therefore, a remedial plan is not included.

The next monitoring event to assess the status of mitigation activities at the Site is anticipated to be performed in spring 2015, or sooner if weather conditions require.

Please do not hesitate to contact me if you have questions or comments regarding the information presented herein.

Sincerely,



R. J. Hilarides
Georgia-Pacific LLC JMD

Attachments:

- Attachment 1 – Representative Photographs
- Attachment 2 – Floodplain Areal Extent

cc: **John Swartwout, NYSDEC**
Yvonne Ward, Esq., NYSDEC
Erin Burns, NYSDEDC
Bill Schoch, NYSDEC
Kevin Bruce, USACE
Paul Montney, P.E., Georgia-Pacific
J. Michael Davis, Esq., Georgia-Pacific
Jean McCreary, Esq., Nixon Peabody LLP
Shaun Gilliland, Town of Willsboro Supervisor
Lance Ketcham, P.E., ARCADIS
Dawn Penniman, P.E., ARCADIS
Lauren Putnam, ARCADIS



Attachments



Attachment 1

Representative Photographs

Willsboro Black Ash Pond – Site Visit 04-10-14



Picture # 1: View of floodplain area from approximately 8+00



Picture # 2: View of floodplain at approximately 4+50



Picture # 3: View of inlet/outlet (interior)

Willsboro Black Ash Pond – Site Visit 04-10-14



Picture # 4: View of inlet/outlet (exterior)



Picture # 5: View of inlet/outlet



Picture # 6: View of floodplain from eastern access road

Willsboro Black Ash Pond – Site Visit 06-20-14



Picture # 1: View of riprap bench and growth in Do-Not-Disturb area. Note willows on edge



Picture # 2: View of deposition on riprap and growth on slope and in riprap



Picture # 3: View of growth of willow

Willsboro Black Ash Pond – Site Visit 06-20-14



Picture # 4: View of deposition on riprap and growth on slope and in riprap



Picture # 5: View of growth in area of deposition. Note willows at water edge



Picture # 6: View of willow regrowth through sediment

Willsboro Black Ash Pond – Site Visit 06-20-14



Picture # 7: View of willow regrowth through sediment



Picture # 8: View of edge at inlet/outlet



Picture # 9: View of edge at inlet/outlet

Willsboro Black Ash Pond – Site Visit 06-20-14



Picture # 10: View of perimeter edge looking upstream from inlet/outlet



Picture # 11: View of perimeter edge looking downstream from inlet/outlet



Picture # 12: View of interior inlet/outlet

Willsboro Black Ash Pond – Site Visit 06-20-14



Picture # 13: View of interior inlet/outlet. Note live stake growth



Picture # 14: View of interior inlet/outlet. Note live stake growth

Willsboro Black Ash Pond – Site Visit 08-14-14



Picture # 1: View of interior wetland/overflow area at approximately 7+00



Picture # 2: View of interior wetland/overflow area at approximately 4+50



Picture # 3: View of interior wetland/overflow area at approximately 3+00

Willsboro Black Ash Pond – Site Visit 08-14-14



Picture # 4: View of interior wetland/overflow area at approximately 2+00



Picture # 5: View of inlet/outlet



Picture # 6: View of interior inlet/outlet

Willsboro Black Ash Pond – Site Visit 08-14-14



Picture # 7: View of exterior inlet/outlet



Picture # 8: View of riprap from inlet/outlet looking upstream



Picture # 9: View of riprap from inlet/outlet looking downstream

Willsboro Black Ash Pond – Site Visit 08-14-14



Picture # 10: View of inlet/outlet looking from river side



Picture # 11: View of growth and riprap at interior side inlet/outlet

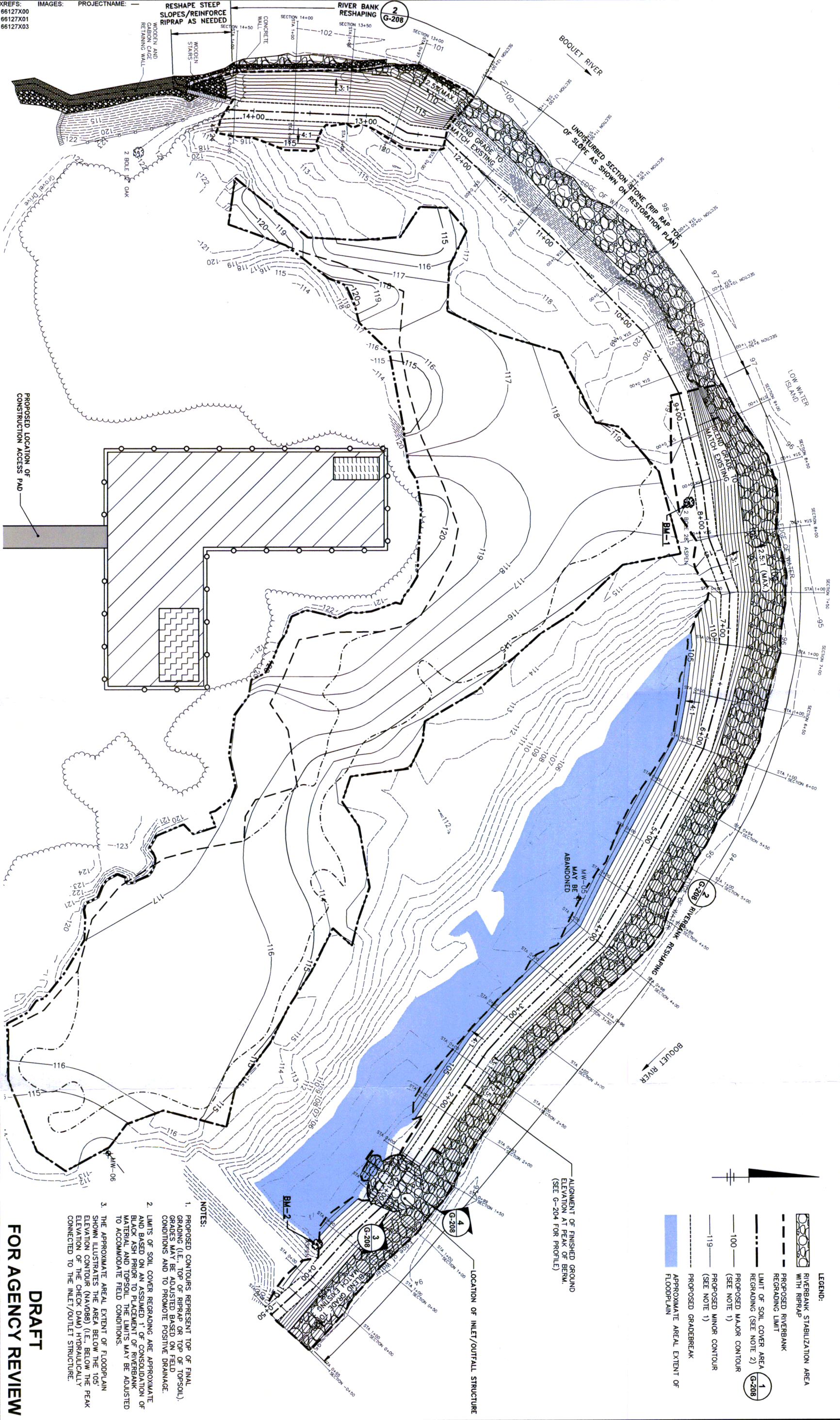


Picture # 12: View of growth and riprap at interior side inlet/outlet



Attachment 2

Floodplain Areal Extent



XREFS: 66127X00
 66127X01
 66127X03

IMAGES: PROJECTNAME: RESHAPE STEEP SLOPES/REINFORCE RIPRAP AS NEEDED

PROPOSED LOCATION OF CONSTRUCTION ACCESS PAD

Professional Engineer's Name: **MARK O. GRAVELDING**
 Professional Engineer's No.: 069985-1

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GEORGIA-PACIFIC LLC • WILLSBORO, NEW YORK
 WILLSBORO BLACK ASH POND
 REMEDIAL ACTION WORK PLAN

FLOODPLAIN AREAL EXTENT
 GENERAL

DRAFT FOR AGENCY REVIEW

ARCADIS Project No.: B0066127\0001\00001
 Date: MAY 2012
 ARCADIS OF NEW YORK
 6723 TOWHPATH ROAD
 P.O. BOX 66
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 TEL: 315.448.9120

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- NOTES:**
1. PROPOSED CONTOURS REPRESENT TOP OF FINAL GRADING (I.E. TOP OF RIPRAP OR TOP OF TOP-SOIL). GRADING MAY BE ADJUSTED BASED ON FIELD CONDITIONS AND TO PROMOTE POSITIVE DRAINAGE.
 2. LIMITS OF SOIL COVER REGROUND ARE APPROXIMATE AND BASED ON AN ASSUMED 1' OF CONSOLIDATION OF BLACK ASH PRIOR TO PLACEMENT OF RIVERBANK MATERIAL AND TOPSOIL. THE LIMITS MAY BE ADJUSTED TO ACCOMMODATE FIELD CONDITIONS.
 3. THE APPROXIMATE AREAL EXTENT OF FLOODPLAIN SHOWN ILLUSTRATES THE AREA BELOW THE 105' ELEVATION CONTOUR (NAVD88) (I.E., BELOW THE PEAK ELEVATION OF THE CHECK DAM) HYDRAULICALLY CONNECTED TO THE INLET/OUTLET STRUCTURE.

- LEGEND:**
- RIVERBANK STABILIZATION AREA WITH RIPRAP
 - PROPOSED RIVERBANK REGROUNDING LIMIT
 - LIMIT OF SOIL COVER AREA (SEE NOTE 2)
 - PROPOSED MAJOR CONTOUR (SEE NOTE 1)
 - PROPOSED MINOR CONTOUR (SEE NOTE 1)
 - PROPOSED GRADEBREAK
 - APPROXIMATE AREAL EXTENT OF FLOODPLAIN

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USE TO VERIFY REPRODUCTION SCALE

Professional Engineer's Name: **MARK O. GRAVELDING**
 Professional Engineer's No.: 069985-1

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 WILLSBORO BLACK ASH POND
 REMEDIAL ACTION WORK PLAN

FLOODPLAIN AREAL EXTENT
 GENERAL

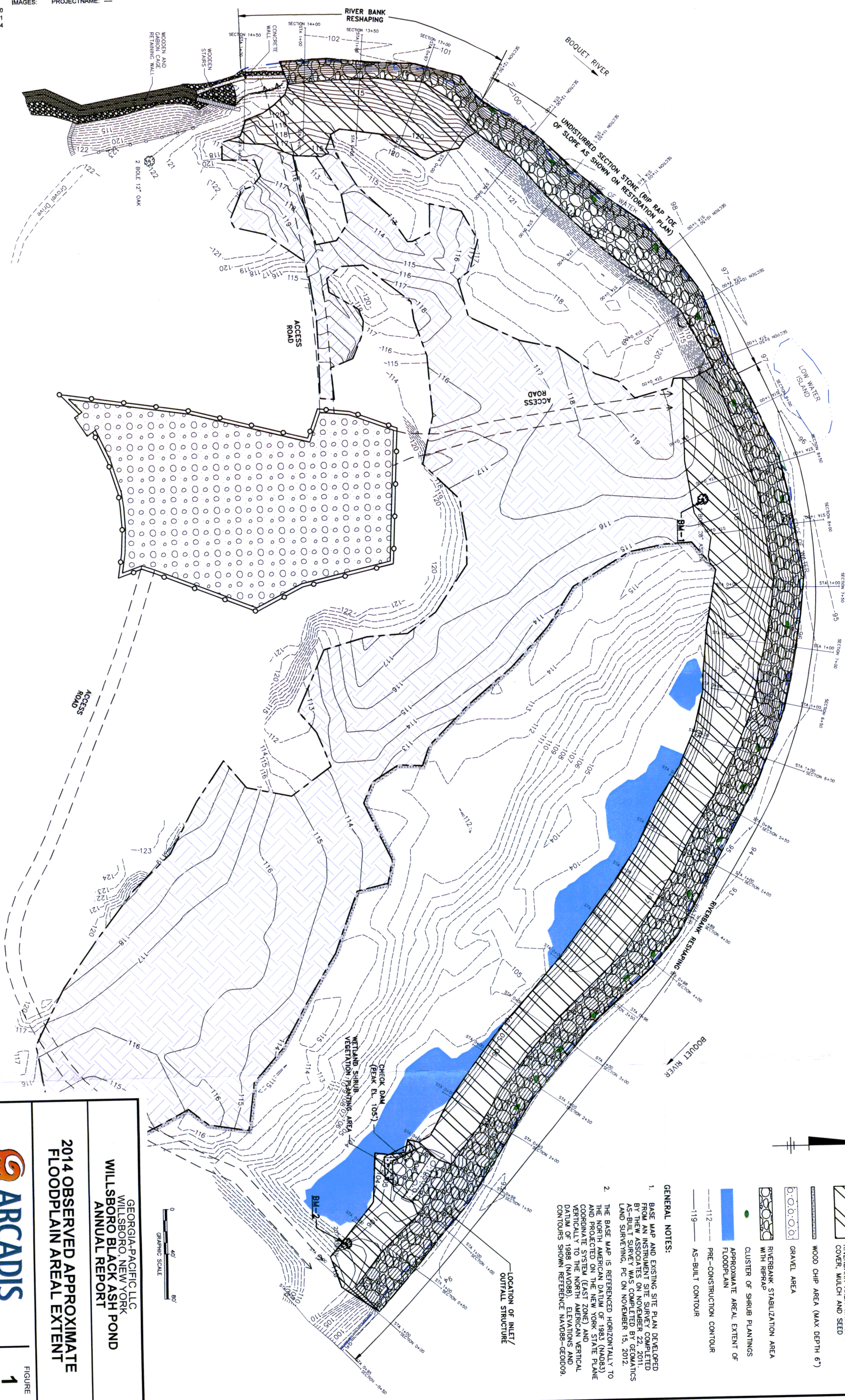
DRAFT FOR AGENCY REVIEW

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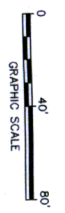
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 66127X01
 66127X04

IMAGES: PROJECTNAME: —



- LEGEND:**
- UPLAND MULCH AND SEED
 - RIVERBANK AREA WITH SOIL COVER, MULCH AND SEED
 - WOOD CHIP AREA (MAX DEPTH 6")
 - GRAVEL AREA
 - RIVERBANK STABILIZATION AREA WITH RIPRAP
 - CLUSTER OF SHRUB PLANTINGS
 - APPROXIMATE AREAL EXTENT OF FLOODPLAIN
 - PRE-CONSTRUCTION CONTOUR
 - AS-BUILT CONTOUR

- GENERAL NOTES:**
1. BASE MAP AND EXISTING SITE PLAN DEVELOPED FROM AN INSTRUMENTED SITE SURVEY COMPLETED BY THEM ASSOCIATES ON NOVEMBER 22, 2011. AS-BUILT SURVEY WAS COMPLETED BY GEOMATICS LAND SURVEYING, PC ON NOVEMBER 15, 2012.
 2. THE BASE MAP IS REFERENCED HORIZONTALLY TO THE NORTH AMERICAN DATUM OF 1983 (NAD83) AND PROJECTED TO THE NEW YORK STATE PLANE COORDINATE SYSTEM (EAST ZONE) AND VERTICAL DATUM OF 1988 (NAVD88). ELEVATIONS AND CONTOURS SHOWN REFERENCE NAVD88-GEOD09.



GEORGIA-PACIFIC LLC
 WILLSBORO, NEW YORK
**WILLSBORO BLACK ASH POND
 ANNUAL REPORT**

**2014 OBSERVED APPROXIMATE
 FLOODPLAIN AREAL EXTENT**

