UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, IL 60604-3590

REPLY TO THE ATTENTION OF:

JUN 14 2012

MEMORANDUM

SUBJECT: Minor Change to Selected Remedy
Lower Fox River and Green Bay Superfund Site, WI

FROM: Thomas R. Short, Chief
Remedial Response Branch #3

THROUGH: Richard C. Karl, Director
Superfund Division

TO: File

The purpose of this Memorandum to File is to explain and document a minor change to the remedy selected by EPA and the Wisconsin Department of Natural Resources ("Response Agencies") for the Lower Fox River and Green Bay Superfund Site ("Site") as a result of refinements made during the remedial design process.

The 2007 Record of Decision Amendment for Operable Units 2-5 at the Site recognizes that capping may be more feasible than dredging in areas where "deeply buried" contamination is covered by "relatively clean" sediment. In a set of January 23, 2012, comments on a draft submission made on behalf of NCR Corporation, the Agencies/Oversight Team ("A/OT") assembled by the Response Agencies indicated that: (1) contamination in Operable Unit 4 should be classified as "deeply buried" if it is covered by more than six feet of "relatively clean" sediment; and (2) the overlying sediment can qualify as "relatively clean" if its average PCB concentration does not exceed 10 parts per million. The Response Agencies have stated that any final decision on that proposed "6/10 Rule" would be made and documented in writing and placed in the Administrative Record for the Site.

The attached Technical Memorandum explains the Response Agencies' decision to depart from the remedial design concept known as the "6/10 Rule" and adopt an optimized remedial design approach for making decisions concerning dredging and/or capping of PCB-contaminated sediment at the Site. CERCLA guidance makes clear that "non-significant or minor changes" to a remedy that are made during remedial design process can and should be

documented by a "memo or note to the post-ROD file," rather than by a more formal Explanation of Significant Differences or ROD Amendment. EPA, *A Guide to Preparing Superfund Proposed Plans, Records of Decision, and Other Remedy Selection Decision Documents*, p. 7-2 (July 1999). In an example presented in that EPA guidance document, a 25% increase in the remediation volume with a "small percentage" cost increase is classified as a "minor change" that can be documented by a Memorandum to File. See p. 7-3. As explained in the accompanying Technical Memorandum, the application of the Response Agencies' optimized remedial design approach is expected to make no material change in the estimated dredging remediation volume (a less than 1% increase as compared to the ROD Amendment estimate) and may yield an appreciable reduction in the estimated total cost of the OU 2-5 remedy (an estimated $54 million cost decrease as compared to the ESD estimate). Consequently, it is appropriate to document this minor change to the selected remedy by a Memorandum to File.

This Memorandum to File and the associated Technical Memorandum are being placed in the Administrative Record for the Site.

Lower Fox River RD/RA Oversight Support Services Project 87500
Agencies/Boldt Oversight Team
June 13, 2012

Technical Memorandum to Support Review of Draft 100% Design

INTRODUCTION AND PURPOSE

This technical memorandum explains the direction taken by the Agencies/Oversight Team (A/OT) in developing additional and revised comments on the draft 100% Design for the remedial action (RA) for OU4 and the river mouth[1] area of OU5 (OU4/5) of the Lower Fox River. The A/OT was directed by the Agencies to produce design comments and modifications to optimize the existing draft design for the RA. These design comments and modifications were needed to assure that the final design was finalized and complied with the requirements spelled out in the 2007 Amended Record of Decision (ROD) and the subsequent 2010 Explanation of Significant Difference (ESD). The resulting modifications to the draft design will result in a more effective and efficient remedial action to reach the risk reduction goals within the requirements of the Amended ROD. For the remainder of this document, the term "ROD" includes the relevant portions of both of the previously issued RODs and ESD.

The ROD specifies Remedial Action Objectives (RAOs) for the remedy. The RAOs include:

- RAO 1: Achieve, to the extent practicable, surface water quality criteria throughout the Lower Fox River and Green Bay
- RAO 2: Protect humans who consume fish from exposure to Contaminants of Concern (COCs) that exceed protective levels
- RAO 3: Protect ecological receptors from exposure to COCs above protective levels
- RAO 4: Reduce transport of PCBs from the Lower Fox River into Green Bay and Lake Michigan
- RAO 5: Minimize the downstream movement of PCBs during implementation of the remedy

The ROD remedy specifies a Remedial Action Level (RAL) of 1.0 part per million (ppm) for PCBs and a remediation goal that attains a Surface Weighted Average Concentration (SWAC) of approximately 0.25 ppm PCBs for OU4/5.

The A/OT was directed to complete remedial design comments and modifications to ensure the completion of the 100% design. The A/OT considered a number of interpretations of the ROD wording relating to capping eligibility. One of significance was the so called "6/10 Rule", which is no longer being considered. Under that interpretation sediment would be dredged unless it was covered by at least 6-feet of sediment with less than 10 ppm. The 6/10 Rule was shared with the design team before it was fully analyzed. This approach was rejected after further analysis by the A/OT. The design approach described in this memo relies on an integrated, multi-factor set of analyses that are generated using an evaluation process developed by the A/OT that

[1] defined as a 1,500-foot radial distance from the mouth of the river (covering approximately 75 acres).

targeted dredging of sediment with higher concentrations of PCBs and capping lower concentrations of PCBs or deeply buried sediment. This design approach also allows for input from Annual Work Plans and the incorporation of Adaptive Management principles that take advantage of lessons learned as the remedial action progresses. The key ROD metrics used to evaluate the design are detailed in Attachment A.

HISTORY OF DESIGN APPROACH

The A/OT has been working closely with the RP's Design Team since 2007 through a collaborative workgroup process. The Design Team submitted the first draft of the 100% Design Report in late 2009. This collaborative effort prevailed until late 2011 when efforts to reach agreement on the comments were unsuccessful. The Agencies determined it was necessary for the A/OT to complete the 100% Design review and optimize the design. Below is a brief history of the design process to date.

The preliminary design concept for the project was included in the 2006 Basis of Design Report (BODR). The BODR proposed area-specific remedies using a core-by-core analysis and presented design mosaic plans (figures) that showed the projected remedial techniques. These figures were replicated in the ROD and were carried into remedial polygons in the 30% Design. The Responsible Parties' (RPs') Design Team (DT) used these remedial polygons to create dredge-only polygons, dredge and cap polygons, cap polygons, and sand cover polygons for OU2-5. For dredge-only areas the remediation volumes were based on dredge prisms with flat bottoms.

The A/OT repeatedly encouraged the DT to utilize a neat line dredging approach instead of flat bottomed dredge prisms, because neat line dredging had proven to be cost effective in the Operable Unit 1 (OU1) remedial action (RA). The neat line approach more accurately targets RAL sediment because it follows an undulating modeled cut line, rather than the flat bottom dredge prism approach. The prism approach requires over-dredging of non-RAL sediment to meet the same RAL sediment removal goal, and therefore results in a bias toward capping because it makes dredging less cost effective.

The 60% Design continued the prism dredging approach. In accordance with the ROD, the Agencies do not "approve" interim design documents. Therefore, the A/OT continued to submit comments recommending the use of neat line dredging as part of the 100% design completion.

The 2007 Unilateral Administrative Order (UAO) ordered commencement of the remedial action and development of Annual Work Plans concurrent with completion of the 100% Design. Annual Work Plans incorporated use of neat line dredging. As a result, the annual work plan development and review work was prioritized, and completion of the 100% Design was delayed. The use of neat line dredging also modified the assumptions regarding the cost of dredging versus the cost of capping.

Outstanding issues with the draft design submittals could not be collaboratively resolved Despite this, the A/OT continued to work with the DT to keep the Remedial Action portion of the project on schedule through conditional approvals of Annual Work Plans without a final decision on the 100% Design. This collaborative effort was possible until 2011 because RA efforts were primarily focused on dredging.

To complete the review, the A/OT developed a Design Review Tool (DRT) to identify the appropriate modifications to the 100% Design. These modifications optimized the ROD metrics to be consistent with the criteria discussed below.

ROD CAPPING REQUIREMENTS

The A/OT modifications meet the intent and requirements of the ROD. The ROD states that the primary remedial approach (i.e., dredging) **"shall be used to remediate sediment with a PCB concentration exceeding the 1.0 ppm PCB RAL, unless the eligibility criteria for employing an alternate remedial approach in the specific area can be met and the alternate remedial approach is more feasible and more cost effective in that area."** (Section XI. A. Page 34)

The ROD also states that it **"allows alternate remedial approaches such as capping in certain areas at the Site where those alternative approaches can help achieve the overall remedial objectives more quickly, more effectively, more feasibly, and at a lower cost."** (Section XI, Page 29)

The ROD discusses capping requirements and eligibility criteria in several places. In summary, capping is allowed:

- In deeply buried navigation channel sediment where removal of non-RAL sediment is required to maintain stable side slopes
- At man-made structure areas that cannot be dredged (e.g., submerged utilities, bridges)
- Along shorelines that may be destabilized by dredging

As specified in the ROD, the A/OT modifications focus capping in the areas listed above as well as areas with thin deposits, low PCB concentration sediments, and other exception areas.

One key element of the A/OT modifications is increased use of the dredge and cap remedy. Shoaling of clean sediment on top of the caps will improve the long-term stability of the caps and reduce long-term risk.

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BASIS FOR A/OT REMEDIAL DESIGN COMMENTS AND MODIFICATIONS

The ROD specifies that the **"Amended Remedy adopt sediment removal dredging as the primary remedial approach for sediment exceeding the 1.0 ppm PCB RAL"** (Section XI, P3ge 28). The ROD also allows capping and sand covering under certain circumstances. These design comments use the authorized and appropriate alternate remedies (i.e., capping, dredging/capping, and sand covering) provided in the ROD (2007 Amended ROD Section XIII, p. 47). Specific to dredging and capping the ROD states:

- **"Dredging and off-site disposal of PCB-contaminated sediment.** Dredging will be focused on sediments with higher PCB concentrations, particularly in areas subject to disruptive forces, having greater potential exposure to biota."
- **"In-place containment of PCB-contaminated sediments under engineered caps designed to provide long-term stability.** Capping will generally be done where PCB concentrations are generally lower or where PCBs are less subject to erosive forces and/or deeply buried."

The goals for this design review effort are to:

1. Ensure the design is consistent with the ROD and ESD (as stated above)
2. Attain the short-term risk goal of approximately 0.25 ppm SWAC by remediating PCB sediments $\geq$ 1.0 ppm
3. Attain the long-term risk goal by capping sediments that are thin, deeply buried and/or lower PCB concentration
4. Ensure the cost is consistent with the 2010 ESD estimate of $700.5 M (2009 US Dollars - USD)
5. Ensure the dredge volume is consistent with the ROD estimated dredge volume of 3.7 million cubic yards[2]

For purposes of this document:

- Short term risk to humans and biota are due to exposure to PCB contaminants
  - The RAL remains at 1.0 ppm PCB
  - The calculated post remediation SWAC must be approximately 0.25 ppm

[2] Total sediment removed from the river including RAL and overcut sediment (see Table 7 footnotes 2 and 5)

- Long term risk to humans and biota are due to exposure to PCB contaminants resulting from engineered cap failure(s)
    - Caps are conservatively designed to be permanent under anticipated conditions
    - Some cap areas may be subject to erosive forces from propeller wash and/or lower future lake elevations (i.e., lower than recorded elevations)
    - OU4 has the same hydraulic elevation as Lake Michigan. The future elevation of Lake Michigan cannot be adequately predicted

Subsequent to the release of the 2003 ROD, significant new data and information has been collected and gained through Infill Sampling and in-field practical experience with both capping and dredging during remedial action. Infill sampling has quadrupled the density of design data which provides better definition of the PCB deposits and better resolution of PCB gradients in the sediment column. Infill sampling is expected to be completed in 2012.

Experience with capping in OU1-3 has shown that caps can be placed in a variety of conditions in OU4/5. Dredging experience has shown the ability to effectively dredge PCB inventory while minimizing overcut volumes. Further, dredging experience has provided the Agencies with data on the characteristics of generated residuals. Generated residuals are the redistributed PCB contaminated sediments that result from the dredging process. This design review incorporated this information to comply with the ROD goals.

This design approach focuses on risk reduction by dredging sediments containing higher PCB concentrations (higher risk), and capping sediments with lower PCB concentrations (lower risk) or where higher PCB concentrations are deeply buried under lower PCB concentrations. This design approach fits directly with the requirements of the Amended ROD, which provides a balance of dredging and capping such that capping occurs in sediments that are less likely to pose a long-term risk from cap failure.

DESIGN REVIEW PROCESS OVERVIEW

This section describes the general process the A/OT followed to evaluate modifications to the 100% Design. Short and long-term risks have been balanced through analysis of a larger data set (than the BODR) that resulted from infill sampling and the modeling of sediment concentrations on a closer spaced grid. The intent of this review was to find the best compromise among the array of various ROD design criteria (i.e., design optimization).

An iterative analysis utilizing the DRT allowed the A/OT to analyze numerous remedy scenarios (125+). Several scenarios were selected that satisfied the requirements of the ROD.

The A/OT constructed the DRT using the following baseline source data from the DT:

1. 2008 and 2011 bathymetric surveys
2. 2008 and 2011 FIK models
3. Chemical core PCB data (2004 through 2011)
4. Dredge v. cap break points
5. Unit rates

Individual scenarios were generated by varying undercut dimension and average concentration breakpoint (ACB). These variables directly affect the design goal to preferentially dredge higher concentration sediment and cap lower concentration sediment. Undercut dimension is the thickness of RAL sediment remaining in a dredge and cap remedy. ACB is the sediment column average concentration below which a capping only remedy is designated. If the average concentration breakpoint is exceeded for a given location dredging to the undercut dimension followed by capping is designated. For example if the ACB is 6.0 ppm and the sediment column average concentration is 4.2 ppm, a cap remedy is designated. If the sediment column average concentration is 6.5 ppm the remedy designated is dredge and cap.

The A/OT then performed an engineering analysis of the selected scenarios. The analysis resulted in adjustments to areas where field conditions warranted a change to the selected remedy. This included integration of remedy alternatives based on neighboring remedies, and adjustments for constructability. This was done to ensure that adjacent alternatives are compatible. The outcome was the optimized design.

Table 1 compares the ROD performance metrics to the LLC's proposed design and the A/OT's optimized design. Table 2 provides optimized design selected input variables used to calculate the values in the optimized design in Table 1.

REMEDY DESIGNATION REFINEMENTS

The following paragraphs describe remedy refinements to meet the goals of the ROD. These remedy refinements provide options to dredge less non-RAL sediments, dredge sediments with higher PCB concentrations, and cap sediments with lower PCB concentrations. Further, there is more emphasis on sand covering and capping to manage residuals because residual dredging increases removal of non-RAL sediments.

Remedy sand cover: Remedy sand covers are allowed in circumstances where up to two intervals each greater than 1.0 ppm but less than 2.0 ppm (more than two intervals may be considered on a case by case basis). Remedy sand covers were previously designated for cores with only a single interval less than 2 ppm.

Confirm: In areas where production dredging has been performed use results of confirmation sampling to determine whether the area is acceptable or subject to residuals management using dredging, sand covering and/or capping.

Dredge Low Risk: In areas with low PCBs and thin deposits dredge to the neat line with zero-inches of overcut. Use results of confirmation sampling to determine whether the area is acceptable or subject to residuals management using dredging, sand covering and/or capping.

Use of B2 Caps in OU4A Navigation Channel: B2 caps are allowed in the OU4A Navigation Channel except when any core intervals contain greater than 50 ppm. This is allowed because the OU4A Navigation Channel is now designated as "caretaker status", routine navigation dredging is not expected, and large vessels (e.g., cargo) will not subject these areas to erosive forces.

Table 1 Comparison of ROD Metrics to LLC and Optimized Designs (Scenario 130)

	ROD Metrics	Amended ROD	LLC Design	Difference between LLC and Amended ROD	Optimized Design	Difference between Optimized and Amended ROD
1	All RAL sediment remediated	Yes	Yes	None	Yes	None
2	SWAC approximately 0.25 ppm or less in OU4/5	0.25 ppm	0.26 ppm	0.01 ppm	0.26 ppm	0.01 ppm
3a	Volume of RAL sediment removed 3.16 million cy	3.160 million cy	3.361 million cy	0.201 million cy	3.314 million cy	0.154 million cy
3b	Volume of total sediment removed 3.70 million cy	3.700 million cy	4.200 million cy	0.500 million cy	3.721 million cy	0.021 million cy
3c	Volume of Non-RAL sediment	0.540 million cy	0.839 million cy	0.299 million cy	0.407 million cy	(0.133) million cy
4	64% of RAL PCB mass removed (Estimate based on constant RAL PCB concentration of 16 ppm)	64.0%	65.4%	1.4%	66.8%	2.8%
5	Estimated 450 acres or less of area capped	335 acres	296 acres	(39) acres	262 acres	(73) acres
6	Estimated 250 acres or less of remedy sand covered area	210 acres	130 acres	(80) acres	159 acres	(51) acres
7	Residual sand covering of dredged area to satisfy SWAC	306 acres	356 acres	50 acres	340 acres	34 acres
8	Time to remediate is nine (9) years	9.0 years	9.0 years	0.0 years	9.0 years	0.0 years
9	Total cost approximately $700.5 million (2009 USD)	$ 700.5 million	$ 700.6 million	$ 0.1 million	$ 646.4 million	$ (54.1)million

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Table 2 Optimized Design Input Variables (Scenario 130)	
Overcut Dimension below 0.5 LOS	0.5 ft
Percent of RAL Area to Residual Dredge	20%
Percent of RAL Area to Residual Sand Cover	60%
Depth of Residual Dredge	1.0 ft
L = Undercut Dimension above 0.5 LOS	1.8 ft
L' = L + 0.7 * (Mudline - "L"elevation)	70%
Average Concentration Break Point	6.00 ppm
When (Mudline elevation - "L"elevation) < 1.0 ft then: Final Mudline Elevation = EOC + L	
When (Mudline elevation - "L"elevation) ≥ 1.0 ft then: Final Mudline Elevation = EOC + L'	

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CONCLUSION

By incorporation of the A/OT design review comments, the goals of the ROD will be met. These include:

1. a design consistent with the ROD
2. a short-term risk reduction goal of an approximate 0.25 ppm SWAC by remediating PCB sediments ≥ 1.0 ppm (estimated 0.26 ppm based on the ROD methodology)
3. a long-term risk reduction goal by capping sediments that are thin, deeply buried and/or lower PCB concentration
4. a lower cost of $646.4 million (2012 USD) as compared to the 2010 ESD estimate of $700.5 million (2009 USD) or $725.2 million (2012 USD)
5. removal of 3.721 million total cubic yards of sediment

Table 3 (attached) lists the optimized design polygons in OU4/5.

Figures (attached)

Figures 100 Series – A/OT 100% Design Review Scenario 130 Polygons
Figures 200 Series – A/OT 100% Design Review Scenario 130 Mosaic Remedial Design Forecast
Figures 300 Series – A/OT 100% Design Review Scenario 130 Production Dredge Areas

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Lower Fox River RD/RA Oversight Support Services Project 87500
Agencies/Boldt Oversight Team
June 13, 2012

Attachment A

KEY ROD METRICS

The remedial action required by the 2003 ROD, 2007 Amended ROD and 2010 ESD (collectively referred to as the ROD) specifies that it is primarily a removal action that preferentially targets removing sediment containing higher concentrations of PCBs (dredging), while allowing alternate remedial actions (capping and covering) to be used to address lower concentrations of PCB sediments and or deeply buried contaminated sediments.

The following presents the key ROD metrics (Table 6 "Summary of Changes to 2003 ROD," page 45 of the Amended ROD) used by the A/OT for reviewing the Draft 100% Remedial Design (RD) document to ensure that the 100% Design satisfies the requirements and intent of the ROD.

1. Remedial Action Level (RAL)
    - is defined as sediment containing PCB levels of 1.0 ppm or more
    - All RAL sediment is required to be remediated, i.e., dredged, capped and or covered

2. Surface Weighted Average Concentration (SWAC)
    - approximately 0.25 ppm or less for OU4/5
    - approximately 0.28 ppm or less for OU2/3

3. Volume of sediment removed
    - RAL sediment 3.16 million cy
    - Total sediment 3.70 million cy

4. 64% of total RAL PCB mass removed

5. Estimated 450 acres or less of area capped

6. Estimated 210 acres or less of remedy sand covered area

7. Residual sand covering of dredged areas will be required as necessary to meet the SWAC

8. Time to remediate is no more than nine (9) years

9. Total cost approximately $700.5 million (2009 USD)

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Table 3
Scenario 130 Polygon Summary

Polygon_ID	RevRem_ABB	FRAC	In-situ dry density of Solids from 2007 Amended ROD	OverDredgePath	ResidDredgePct	ResidSandPct	ResidDredgeDepth	UcDimension	z_crit	meanNonZeroDoC2011	meanFinalMudLine	VolumeRemoved	VolumeRemaining	RalArea_ac	P95_FinalMudLine	Over Cut Volume	Residual Dredge Volume	Residual Dredge Area	Mean L* Dimension
4000.001	D	0.7	0.45 g/cc	0.50 ft	20%	60%	1.00 ft	0.00 ft	NA	5.39 ft	562.87 ft	95,158 cy	- cy	11.0 acres	574.2 ft	8,834 cy	3,534 cy	6.6 acres	
4000.002	C1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	3.67 ft	568.30 ft	- cy	9,533 cy	1.6 acres	575.7 ft	- cy	- cy	- acres	
4000.003	CONFIRM	0.7	0.45 g/cc	0.00 ft	20%	60%	1.00 ft	0.00 ft	NA	0.52 ft	574.66 ft	- cy	1,160 cy	1.4 acres	576.2 ft	- cy	450 cy	0.8 acres	
4000.004	A2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	0.85 ft	574.09 ft	- cy	757 cy	0.6 acres	577.5 ft	- cy	- cy	- acres	
4001.001	SC1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	0.35 ft	576.77 ft	- cy	466 cy	0.7 acres	577.4 ft	- cy	- cy	- acres	
4003.001	D_LR	0.7	0.45 g/cc	0.00 ft	20%	60%	1.00 ft	0.00 ft	NA	0.38 ft	574.78 ft	865 cy	- cy	1.5 acres	575.4 ft	- cy	469 cy	0.9 acres	
4003.002	CONFIRM	0.7	0.45 g/cc	0.00 ft	20%	60%	1.00 ft	0.00 ft	NA	0.24 ft	574.68 ft	- cy	2,514 cy	6.5 acres	575.5 ft	- cy	2,084 cy	3.0 acres	
4003.003	D_B2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	1.75 ft	6.0 ppm	5.84 ft	565.92 ft	7,788 cy	33,189 cy	4.4 acres	569.3 ft	- cy	- cy	- acres	4.7 ft
4003.004	CONFIRM	0.7	0.45 g/cc	0.00 ft	20%	60%	1.00 ft	0.00 ft	NA	0.69 ft	566.43 ft	- cy	426 cy	0.4 acres	570.4 ft	- cy	124 cy	0.2 acres	
4003.005	CONFIRM	0.7	0.45 g/cc	0.00 ft	20%	60%	1.00 ft	0.00 ft	NA	0.51 ft	566.16 ft	- cy	2,103 cy	2.5 acres	568.1 ft	- cy	821 cy	1.5 acres	
4003.006	CONFIRM	0.7	0.45 g/cc	0.00 ft	20%	60%	1.00 ft	0.00 ft	NA	0.36 ft	567.81 ft	- cy	1,869 cy	3.2 acres	574.3 ft	- cy	1,040 cy	1.9 acres	
4004.001	CONFIRM	0.7	0.45 g/cc	0.00 ft	20%	60%	1.00 ft	0.00 ft	NA	0.65 ft	566.53 ft	- cy	1,697 cy	1.6 acres	568.8 ft	- cy	521 cy	1.0 acres	
4005.001	D_LR	0.7	0.45 g/cc	0.00 ft	20%	60%	1.00 ft	0.00 ft	NA	0.97 ft	573.62 ft	9,295 cy	- cy	5.9 acres	576.7 ft	- cy	1,912 cy	3.6 acres	
4007.001	D_LR	0.7	0.45 g/cc	0.00 ft	20%	60%	1.00 ft	0.00 ft	NA	0.48 ft	572.93 ft	5,919 cy	- cy	7.7 acres	574.0 ft	- cy	2,470 cy	4.6 acres	
4007.002	SC1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	0.84 ft	572.60 ft	- cy	1,721 cy	1.7 acres	573.4 ft	- cy	- cy	- acres	
4007.003	CONFIRM	0.7	0.45 g/cc	0.00 ft	20%	60%	1.00 ft	0.00 ft	NA	0.38 ft	573.04 ft	- cy	4,608 cy	7.0 acres	573.9 ft	- cy	2,451 cy	4.6 acres	
4007.004	D	0.7	0.45 g/cc	0.50 ft	20%	60%	1.00 ft	0.00 ft	NA	1.02 ft	554.46 ft	686 cy	- cy	0.4 acres	555.7 ft	343 cy	137 cy	0.3 acres	
4007.005	SC1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	0.33 ft	572.57 ft	- cy	1,728 cy	3.2 acres	575.1 ft	- cy	- cy	- acres	
4007.006	D_LR	0.7	0.45 g/cc	0.00 ft	20%	60%	1.00 ft	0.00 ft	NA	1.22 ft	571.94 ft	5,799 cy	- cy	2.9 acres	573.4 ft	- cy	951 cy	1.8 acres	
4007.007	D_B2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	1.75 ft	6.0 ppm	1.52 ft	561.76 ft	758 cy	1,706 cy	1.0 acres	569.3 ft	- cy	- cy	- acres	1.1 ft
4007.008	D_B2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	1.75 ft	6.0 ppm	2.24 ft	557.19 ft	367 cy	1,014 cy	0.4 acres	561.9 ft	- cy	- cy	- acres	1.6 ft
4008.001	D_LR	0.7	0.45 g/cc	0.00 ft	20%	60%	1.00 ft	0.00 ft	NA	0.63 ft	570.92 ft	1,531 cy	- cy	1.5 acres	572.2 ft	- cy	487 cy	0.9 acres	
4008.002	CONFIRM	0.7	0.45 g/cc	0.00 ft	20%	60%	1.00 ft	0.00 ft	NA	0.12 ft	554.82 ft	- cy	1 cy	0.0 acres	555.4 ft	- cy	2 cy	0.0 acres	
4008.003	D_A2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	1.75 ft	6.0 ppm	2.50 ft	564.88 ft	1,756 cy	3,899 cy	1.4 acres	569.9 ft	- cy	- cy	- acres	1.7 ft
4008.004	B2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	2.25 ft	556.11 ft	- cy	6,994 cy	1.7 acres	557.9 ft	- cy	- cy	- acres	
4008.005	B2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	2.83 ft	559.10 ft	- cy	391 cy	0.1 acres	562.9 ft	- cy	- cy	- acres	
4008.006	A2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	2.34 ft	556.63 ft	- cy	2,693 cy	0.7 acres	563.2 ft	- cy	- cy	- acres	
4010.001	D_LR	0.7	0.45 g/cc	0.00 ft	20%	60%	1.00 ft	0.00 ft	NA	0.63 ft	568.70 ft	2,102 cy	- cy	2.1 acres	572.5 ft	- cy	672 cy	1.2 acres	
4010.002	A2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	2.56 ft	562.36 ft	- cy	2,045 cy	0.5 acres	568.4 ft	- cy	- cy	- acres	
4011.001	B2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	3.52 ft	557.66 ft	- cy	2,218 cy	0.4 acres	558.1 ft	- cy	- cy	- acres	
4011.002	A2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	3.49 ft	565.77 ft	- cy	2,888 cy	0.5 acres	569.3 ft	- cy	- cy	- acres	
4011.003	C1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	4.08 ft	559.11 ft	- cy	23,865 cy	3.6 acres	561.6 ft	- cy	- cy	- acres	
4011.004	B2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	3.97 ft	558.58 ft	- cy	1,411 cy	0.2 acres	562.4 ft	- cy	- cy	- acres	
4011.005	B2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	2.54 ft	560.87 ft	- cy	1,546 cy	0.4 acres	564.9 ft	- cy	- cy	- acres	
4011.006	D_A2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	1.75 ft	6.0 ppm	2.19 ft	562.90 ft	1,093 cy	594 cy	0.5 acres	566.7 ft	- cy	- cy	- acres	0.8 ft
4011.007	D_A2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	1.75 ft	6.0 ppm	1.97 ft	560.33 ft	356 cy	1,216 cy	0.5 acres	564.3 ft	- cy	- cy	- acres	1.5 ft
4011.008	D_A2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	1.75 ft	6.0 ppm	3.80 ft	564.12 ft	540 cy	1,545 cy	0.4 acres	568.1 ft	- cy	- cy	- acres	2.7 ft
4011.009	D_B2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	1.75 ft	6.0 ppm	3.68 ft	563.72 ft	1,098 cy	2,156 cy	0.5 acres	568.1 ft	- cy	- cy	- acres	2.4 ft
4011.011	B2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	2.98 ft	559.17 ft	- cy	2,303 cy	0.5 acres	561.4 ft	- cy	- cy	- acres	
4011.012	A2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	1.65 ft	558.57 ft	- cy	1,280 cy	0.5 acres	559.3 ft	- cy	- cy	- acres	
4011.013	B2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	2.78 ft	558.86 ft	- cy	1,385 cy	0.3 acres	562.9 ft	- cy	- cy	- acres	
4012.001	SC1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	0.94 ft	571.99 ft	- cy	1,583 cy	1.0 acres	575.2 ft	- cy	- cy	- acres	
4012.002	D_B2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	1.75 ft	6.0 ppm	4.74 ft	566.41 ft	913 cy	3,074 cy	0.5 acres	569.3 ft	- cy	- cy	- acres	3.7 ft
4013.001	D	0.7	0.45 g/cc	0.50 ft	20%	60%	1.00 ft	0.00 ft	NA	0.34 ft	569.64 ft	215 cy	- cy	0.4 acres	571.9 ft	314 cy	126 cy	0.2 acres	
4015.001	SC1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	0.21 ft	574.86 ft	- cy	281 cy	0.8 acres	575.7 ft	- cy	- cy	- acres	
4015.003	CONFIRM	0.7	0.45 g/cc	0.00 ft	20%	60%	1.00 ft	0.00 ft	NA	0.51 ft	569.80 ft	- cy	8,937 cy	10.9 acres	575.2 ft	- cy	3,523 cy	6.6 acres	
4015.005	CONFIRM	0.7	0.45 g/cc	0.00 ft	20%	60%	1.00 ft	0.00 ft	NA	1.49 ft	560.18 ft	- cy	1,021 cy	0.4 acres	561.7 ft	- cy	137 cy	0.3 acres	
4015.006	D_A2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	1.75 ft	6.0 ppm	2.33 ft	558.96 ft	1,465 cy	4,585 cy	1.6 acres	560.3 ft	- cy	- cy	- acres	1.8 ft
4015.007	D_B2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	1.75 ft	6.0 ppm	2.09 ft	557.71 ft	738 cy	2,346 cy	0.9 acres	558.2 ft	- cy	- cy	- acres	1.6 ft
4015.008	D_A2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	1.75 ft	6.0 ppm	1.78 ft	557.61 ft	323 cy	1,374 cy	0.6 acres	558.4 ft	- cy	- cy	- acres	1.4 ft
4015.009	D_B2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	1.75 ft	6.0 ppm	2.26 ft	558.45 ft	1,149 cy	3,784 cy	1.4 acres	560.3 ft	- cy	- cy	- acres	1.7 ft
4015.011	SC1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	4.60 ft	560.78 ft	- cy	2,809 cy	0.4 acres	562.9 ft	- cy	- cy	- acres	
4015.012	CONFIRM	0.7	0.45 g/cc	0.00 ft	20%	60%	1.00 ft	0.00 ft	NA	0.97 ft	555.85 ft	- cy	614 cy	0.4 acres	556.5 ft	- cy	120 cy	0.2 acres	
4015.013	CONFIRM	0.7	0.45 g/cc	0.00 ft	20%	60%	1.00 ft	0.00 ft	NA	1.75 ft	560.07 ft	- cy	657 cy	0.2 acres	564.4 ft	- cy	75 cy	0.1 acres	
4016.001	SC1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	0.07 ft	576.40 ft	- cy	12 cy	0.1 acres	576.8 ft	- cy	- cy	- acres	
4017.002	D	0.7	0.45 g/cc	0.50 ft	20%	60%	1.00 ft	0.00 ft	NA	3.22 ft	555.55 ft	3,101 cy	- cy	0.8 acres	556.3 ft	482 cy	193 cy	0.4 acres	
4018.001	D	0.7	0.45 g/cc	0.50 ft	20%	60%	1.00 ft	0.00 ft	NA	2.09 ft	555.05 ft	2,630 cy	- cy	0.8 acres	555.8 ft	630 cy	252 cy	0.5 acres	
4018.002	SC1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	0.29 ft	576.26 ft	- cy	2,079 cy	4.4 acres	576.9 ft	- cy	- cy	- acres	
4018.003	CONFIRM	0.7	0.45 g/cc	0.00 ft	20%	60%	1.00 ft	0.00 ft	NA	0.36 ft	556.80 ft	- cy	256 cy	0.4 acres	562.7 ft	- cy	142 cy	0.3 acres	
4019.001	D	0.7	0.45 g/cc	0.50 ft	20%	60%	1.00 ft	0.00 ft	NA	0.17 ft	576.68 ft	214 cy	- cy	0.8 acres	577.3 ft	649 cy	259 cy	0.5 acres	
4020.001	D	0.7	0.45 g/cc	0.50 ft	20%	60%	1.00 ft	0.00 ft	NA	0.05 ft	556.37 ft	200 cy	- cy	0.1 acres	557.0 ft	106 cy	42 cy	0.1 acres	
4020.002	D	0.7	0.45 g/cc	0.50 ft	20%	60%	1.00 ft	0.00 ft	NA	3.25 ft	555.84 ft	7,872 cy	- cy	1.5 acres	556.3 ft	1,211 cy	484 cy	0.9 acres	
4020.003	D	0.7	0.45 g/cc	0.50 ft	20%	60%	1.00 ft	0.00 ft	NA	3.49 ft	557.91 ft	2,997 cy	- cy	0.5 acres	560.9 ft	373 cy	149 cy	0.3 acres	
4020.004	D	0.7	0.45 g/cc	0.50 ft	20%	60%	1.00 ft	0.00 ft	NA	3.15 ft	556.43 ft	1,405 cy	- cy	0.3 acres	558.4 ft	223 cy	89 cy	0.2 acres	
4021.001	D_LR	0.7	0.45 g/cc	0.00 ft	20%	60%	1.00 ft	0.00 ft	NA	0.44 ft	575.53 ft	2,169 cy	- cy	3.0 acres	576.1 ft	- cy	979 cy	1.8 acres	
4021.002	D_B2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	1.75 ft	6.0 ppm	3.31 ft	559.11 ft	1,716 cy	4,788 cy	1.2 acres	560.4 ft	- cy	- cy	- acres	2.4 ft
4022.001	B2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	1.30 ft	571.18 ft	- cy	3,865 cy	1.8 acres	575.8 ft	- cy	- cy	- acres	
4022.002	B2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	2.68 ft	558.84 ft	- cy	781 cy	0.2 acres	559.3 ft	- cy	- cy	- acres	
4022.003	B2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	2.47 ft	560.74 ft	- cy	538 cy	0.1 acres	562.1 ft	- cy	- cy	- acres	
4022.004	CONFIRM	0.7	0.45 g/cc	0.00 ft	20%	60%	1.00 ft	0.00 ft	NA	1.62 ft	558.88 ft	- cy	2,547 cy	1.0 acres	562.5 ft	- cy	315 cy	0.6 acres	
4022.005	CONFIRM	0.7	0.45 g/cc	0.00 ft	20%	60%	1.00 ft	0.00 ft	NA	0.16 ft	557.30 ft	- cy	16 cy	0.1 acres	557.9 ft	- cy	20 cy	0.0 acres	

Table 3
Scenario 130 Polygon Summary

Polygon_ID	RevRem_ABB	FRAC	In-situ dry density of Solids from 2007 Amended ROD	OverDredgeDepth	ResidDredgePct	ResidSandPct	ResidDredgeDepth	UcDimension	z_crit	meanNonZeroDoC2011	meanFinalMudLine	VolumeRemoved	VolumeRemaining	RalArea_ac	P95_FinalMudLine	Over Cut Volume	Residual Dredge Volume	Residual Dredge Area	Mean 'L' Dimension
4022.006	CONFIRM	0.7	0.45 g/cc	0.00 ft	20%	60%	1.00 ft	0.00 ft	NA	0.28 ft	559.97 ft	- cy	35 cy	0.1 acres	562.3 ft	- cy	25 cy	0.0 acres	
4023.001	D	0.7	0.45 g/cc	0.50 ft	20%	60%	1.00 ft	0.00 ft	NA	0.95 ft	553.53 ft	20,095 cy	- cy	1.8 acres	555.8 ft	1,445 cy	576 cy	1.1 acres	
4023.002	D	0.7	0.45 g/cc	0.50 ft	20%	60%	1.00 ft	0.00 ft	NA	1.70 ft	559.92 ft	1,457 cy	- cy	0.5 acres	567.1 ft	428 cy	171 cy	0.3 acres	
4023.003	CONFIRM	0.7	0.45 g/cc	0.00 ft	20%	60%	1.00 ft	0.00 ft	NA	0.27 ft	572.69 ft	- cy	2,974 cy	0.9 acres	575.5 ft	- cy	2,226 cy	4.1 acres	
4023.004	D	0.7	0.45 g/cc	0.50 ft	20%	60%	1.00 ft	0.00 ft	NA	2.95 ft	556.11 ft	14,890 cy	- cy	3.1 acres	561.7 ft	2,529 cy	1,010 cy	1.9 acres	
4023.005	B2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	4.89 ft	557.50 ft	- cy	9,042 cy	1.1 acres	556.4 ft	- cy	- cy	- acres	
4023.006	D_B2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	1.75 ft	6.0 ppm	3.87 ft	557.61 ft	1,738 cy	6,158 cy	1.3 acres	560.2 ft	- cy	- cy	- acres	3.0 ft
4023.007	CONFIRM	0.7	0.45 g/cc	0.00 ft	20%	60%	1.00 ft	0.00 ft	NA	2.39 ft	561.07 ft	- cy	864 cy	0.2 acres	566.0 ft	- cy	72 cy	0.1 acres	
4023.008	D_B2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	1.75 ft	6.0 ppm	1.68 ft	566.90 ft	152 cy	497 cy	0.2 acres	568.6 ft	- cy	- cy	- acres	1.3 ft
4023.009	A2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	3.97 ft	567.15 ft	- cy	8,699 cy	1.4 acres	569.8 ft	- cy	- cy	- acres	
4023.010	D_B2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	1.75 ft	6.0 ppm	9.31 ft	563.82 ft	1,368 cy	3,884 cy	0.3 acres	565.1 ft	- cy	- cy	- acres	8.9 ft
4023.011	D_B2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	1.75 ft	6.0 ppm	2.74 ft	562.47 ft	985 cy	3,675 cy	1.1 acres	566.5 ft	- cy	- cy	- acres	2.2 ft
4023.012	D_A2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	1.75 ft	6.0 ppm	4.68 ft	557.23 ft	3,282 cy	10,664 cy	1.8 acres	559.8 ft	- cy	- cy	- acres	3.0 ft
4023.013	A2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	2.27 ft	565.03 ft	- cy	4,149 cy	1.1 acres	570.0 ft	- cy	- cy	- acres	
4025.001	CONFIRM	0.7	0.45 g/cc	0.00 ft	20%	60%	1.00 ft	0.00 ft	NA	0.28 ft	568.31 ft	- cy	782 cy	1.7 acres	574.6 ft	- cy	553 cy	1.0 acres	
4026.001	SC1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	0.12 ft	575.42 ft	- cy	198 cy	1.0 acres	576.4 ft	- cy	- cy	- acres	
4027.001	SC1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	0.20 ft	566.55 ft	- cy	252 cy	0.8 acres	568.9 ft	- cy	- cy	- acres	
4027.002	CONFIRM	0.7	0.45 g/cc	0.00 ft	20%	60%	1.00 ft	0.00 ft	NA	0.12 ft	571.58 ft	- cy	434 cy	2.2 acres	573.8 ft	- cy	711 cy	1.3 acres	
4027.008	SC1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	0.87 ft	570.95 ft	- cy	2,405 cy	1.7 acres	574.1 ft	- cy	- cy	- acres	
4028.001	D_LR	0.7	0.45 g/cc	0.00 ft	20%	60%	1.00 ft	0.00 ft	NA	1.01 ft	570.69 ft	36,664 cy	- cy	22.5 acres	571.9 ft	- cy	7,263 cy	13.5 acres	
4028.002	D	0.7	0.45 g/cc	0.50 ft	20%	60%	1.00 ft	0.00 ft	NA	10.73 ft	558.21 ft	18,140 cy	- cy	1.0 acres	569.5 ft	845 cy	338 cy	0.6 acres	
4028.003	D	0.7	0.45 g/cc	0.50 ft	20%	60%	1.00 ft	0.00 ft	NA	10.61 ft	556.04 ft	19,337 cy	- cy	1.1 acres	556.3 ft	912 cy	365 cy	0.7 acres	
4028.004	D	0.7	0.45 g/cc	0.50 ft	20%	60%	1.00 ft	0.00 ft	NA	6.64 ft	559.87 ft	1,967 cy	- cy	0.2 acres	562.5 ft	148 cy	59 cy	0.1 acres	
4028.005	D	0.7	0.45 g/cc	0.50 ft	20%	60%	1.00 ft	0.00 ft	NA	1.76 ft	571.66 ft	64,067 cy	- cy	22.5 acres	575.2 ft	18,189 cy	7,276 cy	13.5 acres	
4028.006	SC1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	0.33 ft	571.12 ft	- cy	1,328 cy	2.5 acres	572.3 ft	- cy	- cy	- acres	
4028.007	SC1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	0.90 ft	575.00 ft	- cy	2,336 cy	1.6 acres	576.5 ft	- cy	- cy	- acres	
4028.008	CONFIRM	0.7	0.45 g/cc	0.00 ft	20%	60%	1.00 ft	0.00 ft	NA	1.80 ft	562.19 ft	- cy	6,352 cy	2.2 acres	565.7 ft	- cy	705 cy	1.3 acres	
4028.009	SC1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	0.69 ft	571.19 ft	- cy	1,426 cy	1.3 acres	572.7 ft	- cy	- cy	- acres	
4028.010	D	0.7	0.45 g/cc	0.50 ft	20%	60%	1.00 ft	0.00 ft	NA	7.43 ft	557.48 ft	4,591 cy	- cy	0.4 acres	559.2 ft	309 cy	124 cy	0.2 acres	
4028.011	D	0.7	0.45 g/cc	0.50 ft	20%	60%	1.00 ft	0.00 ft	NA	2.00 ft	570.19 ft	2,068 cy	- cy	0.7 acres	572.2 ft	525 cy	210 cy	0.4 acres	
4028.012	SC1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	0.55 ft	572.01 ft	- cy	986 cy	1.1 acres	574.6 ft	- cy	- cy	- acres	
4028.013	D	0.7	0.45 g/cc	0.50 ft	20%	60%	1.00 ft	0.00 ft	NA	0.80 ft	574.43 ft	5,509 cy	- cy	4.3 acres	576.2 ft	3,456 cy	1,382 cy	2.6 acres	
4029.001	D	0.7	0.45 g/cc	0.50 ft	20%	60%	1.00 ft	0.00 ft	NA	1.88 ft	572.19 ft	2,267 cy	- cy	0.7 acres	574.9 ft	604 cy	242 cy	0.4 acres	
4029.002	D	0.7	0.45 g/cc	0.50 ft	20%	60%	1.00 ft	0.00 ft	NA	0.47 ft	572.13 ft	1,201 cy	- cy	1.0 acres	572.8 ft	1,288 cy	515 cy	1.0 acres	
4030.001	D_C1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	1.75 ft	6.0 ppm	14.02 ft	568.51 ft	15,039 cy	73,667 cy	3.9 acres	569.3 ft	- cy	- cy	- acres	11.5 ft
4030.002	D_C1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	1.75 ft	6.0 ppm	13.04 ft	567.88 ft	12,226 cy	85,192 cy	4.4 acres	568.3 ft	- cy	- cy	- acres	11.9 ft
4030.003	D_B2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	1.75 ft	6.0 ppm	7.94 ft	567.68 ft	11,573 cy	55,944 cy	5.3 acres	569.3 ft	- cy	- cy	- acres	6.6 ft
4030.004	D_LR	0.7	0.45 g/cc	0.00 ft	20%	60%	1.00 ft	0.00 ft	NA	0.67 ft	575.80 ft	3,061 cy	- cy	2.6 acres	576.7 ft	- cy	908 cy	1.7 acres	
4030.005	SC1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	0.96 ft	571.52 ft	- cy	10,302 cy	6.7 acres	573.7 ft	- cy	- cy	- acres	
4030.006	SC1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	0.51 ft	576.09 ft	- cy	3,157 cy	3.8 acres	577.1 ft	- cy	- cy	- acres	
4030.007	D_LR	0.7	0.45 g/cc	0.00 ft	20%	60%	1.00 ft	0.00 ft	NA	0.06 ft	575.40 ft	1 cy	- cy	0.0 acres	577.2 ft	- cy	3 cy	0.0 acres	
4032.001	D_LR	0.7	0.45 g/cc	0.00 ft	20%	60%	1.00 ft	0.00 ft	NA	0.75 ft	569.35 ft	23,302 cy	- cy	19.4 acres	571.9 ft	- cy	6,267 cy	11.7 acres	
4032.002	SC1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	0.38 ft	569.82 ft	- cy	756 cy	1.2 acres	570.2 ft	- cy	- cy	- acres	
4032.003	SC1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	0.30 ft	575.00 ft	- cy	3,546 cy	7.2 acres	577.0 ft	- cy	- cy	- acres	
4032.004	SC1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	0.39 ft	570.95 ft	- cy	852 cy	1.3 acres	571.5 ft	- cy	- cy	- acres	
4036.001	D_B2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	1.75 ft	6.0 ppm	4.73 ft	568.08 ft	12,057 cy	40,655 cy	6.9 acres	569.3 ft	- cy	- cy	- acres	3.7 ft
4036.002	D_C1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	1.75 ft	6.0 ppm	15.23 ft	567.87 ft	2,811 cy	41,018 cy	1.8 acres	568.3 ft	- cy	- cy	- acres	14.2 ft
4036.003	D_C1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	1.75 ft	6.0 ppm	13.56 ft	564.43 ft	8,667 cy	23,662 cy	1.5 acres	567.9 ft	- cy	- cy	- acres	9.9 ft
4036.004	D_LR	0.7	0.45 g/cc	0.00 ft	20%	60%	1.00 ft	0.00 ft	NA	1.24 ft	567.39 ft	51,941 cy	- cy	26.0 acres	570.4 ft	- cy	6,375 cy	15.6 acres	
4036.005	SC1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	0.66 ft	568.55 ft	- cy	429 cy	0.4 acres	569.1 ft	- cy	- cy	- acres	
4036.006	SC1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	0.56 ft	567.82 ft	- cy	1,284 cy	1.4 acres	568.7 ft	- cy	- cy	- acres	
4036.007	SC1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	0.58 ft	568.33 ft	- cy	276 cy	0.3 acres	568.8 ft	- cy	- cy	- acres	
4036.008	SC1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	0.66 ft	568.49 ft	- cy	380 cy	0.4 acres	569.2 ft	- cy	- cy	- acres	
4036.009	D	0.7	0.45 g/cc	0.50 ft	20%	60%	1.00 ft	0.00 ft	NA	1.46 ft	569.68 ft	8,087 cy	- cy	3.4 acres	570.7 ft	2,732 cy	1,093 cy	2.0 acres	
4036.011	D_C1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	1.75 ft	6.0 ppm	11.20 ft	566.36 ft	3,825 cy	15,731 cy	1.1 acres	566.8 ft	- cy	- cy	- acres	9.0 ft
4037.001	D_LR	0.7	0.45 g/cc	0.00 ft	20%	60%	1.00 ft	0.00 ft	NA	0.32 ft	571.07 ft	42 cy	- cy	0.1 acres	571.4 ft	- cy	26 cy	0.0 acres	
4037.002	SC1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	1.52 ft	568.24 ft	- cy	1,496 cy	0.6 acres	569.0 ft	- cy	- cy	- acres	
4037.003	SC1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	0.46 ft	570.05 ft	- cy	1,789 cy	2.4 acres	570.9 ft	- cy	- cy	- acres	
4037.004	SC1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	1.33 ft	567.59 ft	- cy	1,302 cy	0.6 acres	568.4 ft	- cy	- cy	- acres	
4037.005	SC1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	0.25 ft	576.40 ft	- cy	24 cy	0.1 acres	576.5 ft	- cy	- cy	- acres	
4037.006	SC1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	1.38 ft	573.95 ft	- cy	11,041 cy	5.0 acres	576.2 ft	- cy	- cy	- acres	
4037.007	D_LR	0.7	0.45 g/cc	0.00 ft	20%	60%	1.00 ft	0.00 ft	NA	1.83 ft	571.49 ft	43,454 cy	- cy	14.7 acres	574.0 ft	- cy	4,741 cy	8.8 acres	
4038.001	D_C1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	1.75 ft	6.0 ppm	8.66 ft	566.04 ft	4,855 cy	10,990 cy	1.0 acres	566.3 ft	- cy	- cy	- acres	6.7 ft
4038.002	D_C1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	1.75 ft	6.0 ppm	7.67 ft	565.84 ft	3,668 cy	12,273 cy	1.3 acres	567.0 ft	- cy	- cy	- acres	6.1 ft
4039.001	SC1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	0.41 ft	571.00 ft	- cy	974 cy	1.5 acres	574.6 ft	- cy	- cy	- acres	
4039.002	D_A2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	1.75 ft	6.0 ppm	0.72 ft	568.99 ft	2,267 cy	1,950 cy	3.6 acres	569.4 ft	- cy	- cy	- acres	0.3 ft
4040.001	D_B2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	1.75 ft	6.0 ppm	0.39 ft	570.34 ft	945 cy	12 cy	1.5 acres	572.8 ft	- cy	- cy	- acres	0.0 ft
4040.002	D_C1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	1.75 ft	6.0 ppm	9.36 ft	559.33 ft	11,823 cy	7,828 cy	1.3 acres	565.5 ft	- cy	- cy	- acres	3.7 ft
4040.003	SC1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	0.59 ft	567.55 ft	- cy	5,199 cy	5.5 acres	569.9 ft	- cy	- cy	- acres	
4040.004	D_C1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	1.75 ft	6.0 ppm	9.42 ft	550.06 ft	19,380 cy	9,698 cy	1.9 acres	563.9 ft	- cy	- cy	- acres	3.1 ft
4040.005	D_B2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	1.75 ft	6.0 ppm	3.56 ft	564.15 ft	18,317 cy	15,844 cy	6.3 acres	567.8 ft	- cy	- cy	- acres	1.6 ft

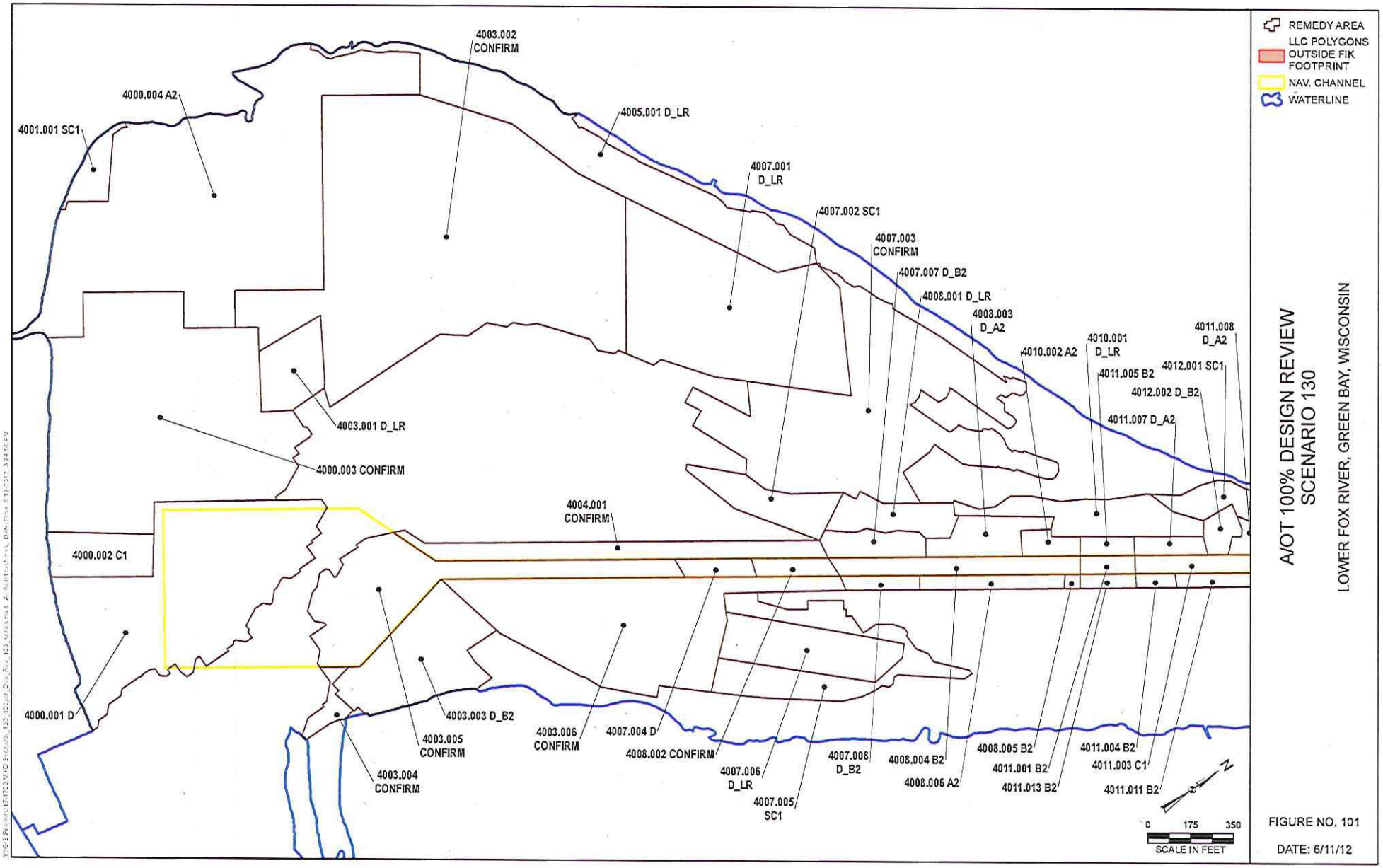
Table 3
Scenario 130 Polygon Summary

Polygon_ID	RevRem_ABB	FRAC	In-situ dry density of Solids from 2007 Amended ROD	OverDredgeDepth	ResidDredgePct	ResidSandPct	ResidDredgeDepth	UcDimension	z_crit	meanNonZeroDoC2011	meanFinalMudLine	VolumeRemoved	VolumeRemaining	RalArea_ac	P95_FinalMudLine	Over Cut Volume	Residual Dredge Volume	Residual Dredge Area	Mean L' Dimension
4040.000	D_B2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	1.75 ft	6.0 ppm	2.69 ft	566.26 ft	8,507 cy	1,164 cy	2.2 acres	568.4 ft	- cy	- cy	- acres	0.3 ft
4041.001	B2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	5.57 ft	559.09 ft	- cy	25,074 cy	2.6 acres	561.6 ft	- cy	- cy	- acres	
4041.002	SC1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	0.42 ft	566.20 ft	- cy	1,440 cy	2.1 acres	567.2 ft	- cy	- cy	- acres	
4042.001	SHC	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	4.12 ft	573.02 ft	- cy	13,736 cy	2.1 acres	575.6 ft	- cy	- cy	- acres	
4044.001	D_B2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	1.75 ft	6.0 ppm	4.22 ft	563.53 ft	42,961 cy	79,897 cy	18.1 acres	569.3 ft	- cy	- cy	- acres	2.7 ft
4044.002	D_B2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	1.75 ft	6.0 ppm	6.26 ft	559.85 ft	4,121 cy	14,393 cy	1.8 acres	563.5 ft	- cy	- cy	- acres	4.9 ft
4044.003	SC1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	2.96 ft	567.82 ft	- cy	4,664 cy	1.0 acres	571.0 ft	- cy	- cy	- acres	
4044.004	A2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	4.65 ft	565.01 ft	- cy	22,300 cy	3.0 acres	571.6 ft	- cy	- cy	- acres	
4046.001	D_C1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	1.75 ft	6.0 ppm	12.97 ft	567.90 ft	915 cy	5,835 cy	0.3 acres	567.9 ft	- cy	- cy	- acres	11.2 ft
4046.002	D_C1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	1.75 ft	6.0 ppm	11.72 ft	559.94 ft	3,344 cy	1,854 cy	0.3 acres	567.9 ft	- cy	- cy	- acres	4.2 ft
4046.003	D_A2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	1.75 ft	6.0 ppm	7.22 ft	566.69 ft	- cy	- cy	- acres	569.3 ft	- cy	- cy	- acres	
4046.004	A2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	8.75 ft	565.95 ft	- cy	8,038 cy	0.6 acres	566.4 ft	- cy	- cy	- acres	
4047.001	D_C1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	1.75 ft	6.0 ppm	8.74 ft	555.82 ft	8,080 cy	2,046 cy	0.7 acres	558.5 ft	- cy	- cy	- acres	1.8 ft
4047.002	D_C1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	1.75 ft	6.0 ppm	7.76 ft	560.55 ft	18,592 cy	6,240 cy	2.0 acres	567.9 ft	- cy	- cy	- acres	1.9 ft
4047.003	SHC	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	7.11 ft	573.95 ft	- cy	3,675 cy	0.3 acres	576.6 ft	- cy	- cy	- acres	
4047.004	D_A2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	1.75 ft	6.0 ppm	7.22 ft	566.69 ft	492 cy	791 cy	0.1 acres	569.3 ft	- cy	- cy	- acres	4.4 ft
4047.005	A2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	6.50 ft	567.33 ft	- cy	5,139 cy	0.5 acres	568.7 ft	- cy	- cy	- acres	
4047.006	D	0.7	0.45 g/cc	0.50 ft	20%	60%	1.00 ft	0.00 ft	NA	3.59 ft	559.20 ft	12,360 cy	- cy	2.1 acres	567.8 ft	1,721 cy	689 cy	1.3 acres	
4047.007	SC1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	1.23 ft	575.66 ft	- cy	2,071 cy	1.3 acres	577.3 ft	- cy	- cy	- acres	
4047.008	D_C1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	1.75 ft	6.0 ppm	2.64 ft	552.29 ft	1,882 cy	1,601 cy	0.8 acres	553.6 ft	- cy	- cy	- acres	1.3 ft
4048.001	D	0.7	0.45 g/cc	0.50 ft	20%	60%	1.00 ft	0.00 ft	NA	2.29 ft	562.93 ft	15,872 cy	- cy	4.3 acres	573.4 ft	3,459 cy	1,384 cy	2.0 acres	
4048.002	SC1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	1.93 ft	575.81 ft	- cy	6,218 cy	3.7 acres	576.6 ft	- cy	- cy	- acres	
4048.003	D_C1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	1.75 ft	6.0 ppm	5.95 ft	551.43 ft	41,778 cy	64,470 cy	13.0 acres	552.9 ft	- cy	- cy	- acres	3.1 ft
4048.004	D	0.7	0.45 g/cc	0.50 ft	20%	60%	1.00 ft	0.00 ft	NA	5.28 ft	555.57 ft	33,011 cy	- cy	3.9 acres	571.3 ft	3,125 cy	1,250 cy	2.3 acres	
4049.001	D	0.7	0.45 g/cc	0.50 ft	20%	60%	1.00 ft	0.00 ft	NA	3.38 ft	573.17 ft	2,032 cy	- cy	0.4 acres	576.3 ft	300 cy	120 cy	0.2 acres	
4049.002	D	0.7	0.45 g/cc	0.50 ft	20%	60%	1.00 ft	0.00 ft	NA	3.94 ft	559.07 ft	4,088 cy	- cy	0.7 acres	563.0 ft	595 cy	238 cy	0.4 acres	
4049.003	D	0.7	0.45 g/cc	0.50 ft	20%	60%	1.00 ft	0.00 ft	NA	6.47 ft	558.89 ft	134,840 cy	- cy	12.9 acres	564.3 ft	10,419 cy	4,168 cy	7.8 acres	
4049.004	SC1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	1.55 ft	568.90 ft	- cy	5,860 cy	2.3 acres	575.8 ft	- cy	- cy	- acres	
4050.001	D	0.7	0.45 g/cc	0.50 ft	20%	60%	1.00 ft	0.00 ft	NA	10.71 ft	560.57 ft	1,161 cy	- cy	0.1 acres	563.0 ft	54 cy	22 cy	0.0 acres	
4050.002	D_C1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	1.75 ft	6.0 ppm	5.19 ft	548.72 ft	72,450 cy	72,450 cy	15.3 acres	548.9 ft	- cy	- cy	- acres	2.9 ft
4051.001	D	0.7	0.45 g/cc	0.50 ft	20%	60%	1.00 ft	0.00 ft	NA	8.51 ft	561.72 ft	16,785 cy	- cy	1.2 acres	573.2 ft	686 cy	394 cy	0.7 acres	
4053.001	SC1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	1.17 ft	575.89 ft	- cy	1,151 cy	0.6 acres	577.1 ft	- cy	- cy	- acres	
4053.002	D	0.7	0.45 g/cc	0.50 ft	20%	60%	1.00 ft	0.00 ft	NA	1.62 ft	561.26 ft	15,329 cy	- cy	5.9 acres	573.3 ft	4,732 cy	1,893 cy	3.5 acres	
4053.003	SC1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	1.33 ft	567.20 ft	- cy	870 cy	0.4 acres	567.5 ft	- cy	- cy	- acres	
4054.001	D	0.7	0.45 g/cc	0.50 ft	20%	60%	1.00 ft	0.00 ft	NA	3.39 ft	555.96 ft	10,893 cy	- cy	2.0 acres	568.9 ft	1,807 cy	643 cy	1.2 acres	
4054.002	B2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	2.22 ft	566.43 ft	- cy	3,542 cy	1.0 acres	570.6 ft	- cy	- cy	- acres	
4054.003	B2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	7.13 ft	551.04 ft	- cy	8,896 cy	0.8 acres	552.1 ft	- cy	- cy	- acres	
4054.004	B2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	3.85 ft	556.26 ft	- cy	3,050 cy	0.5 acres	567.3 ft	- cy	- cy	- acres	
4054.005	B2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	3.23 ft	571.56 ft	- cy	1,434 cy	0.3 acres	573.5 ft	- cy	- cy	- acres	
4055.001	D	0.7	0.45 g/cc	0.50 ft	20%	60%	1.00 ft	0.00 ft	NA	2.26 ft	572.84 ft	26,155 cy	- cy	7.2 acres	574.8 ft	5,782 cy	2,313 cy	4.3 acres	
4055.002	D_C1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	1.75 ft	6.0 ppm	6.06 ft	549.08 ft	45,344 cy	33,023 cy	8.0 acres	550.3 ft	- cy	- cy	- acres	2.8 ft
4055.003	D	0.7	0.45 g/cc	0.50 ft	20%	60%	1.00 ft	0.00 ft	NA	4.19 ft	559.19 ft	37,158 cy	- cy	5.5 acres	569.5 ft	4,459 cy	1,778 cy	3.3 acres	
4055.004	SC1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	1.37 ft	571.45 ft	- cy	9,719 cy	3.0 acres	575.2 ft	- cy	- cy	- acres	
4055.005	D	0.7	0.45 g/cc	0.50 ft	20%	60%	1.00 ft	0.00 ft	NA	3.88 ft	560.07 ft	7,203 cy	- cy	1.2 acres	568.7 ft	928 cy	371 cy	0.7 acres	
4057.001	D	0.7	0.45 g/cc	0.50 ft	20%	60%	1.00 ft	0.00 ft	NA	2.61 ft	560.80 ft	9,917 cy	- cy	2.4 acres	568.9 ft	1,899 cy	759 cy	1.4 acres	
4057.002	D	0.7	0.45 g/cc	0.50 ft	20%	60%	1.00 ft	0.00 ft	NA	2.34 ft	540.69 ft	1,981 cy	- cy	0.5 acres	546.5 ft	423 cy	169 cy	0.3 acres	
4057.003	D	0.7	0.45 g/cc	0.50 ft	20%	60%	1.00 ft	0.00 ft	NA	8.51 ft	539.91 ft	19,118 cy	- cy	1.4 acres	547.5 ft	1,150 cy	460 cy	0.9 acres	
4057.004	D	0.7	0.45 g/cc	0.50 ft	20%	60%	1.00 ft	0.00 ft	NA	3.49 ft	545.33 ft	485 cy	- cy	0.1 acres	550.3 ft	69 cy	28 cy	0.1 acres	
4058.001	D_B2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	1.75 ft	6.0 ppm	3.77 ft	557.91 ft	4,618 cy	13,787 cy	3.0 acres	565.5 ft	- cy	- cy	- acres	2.8 ft
4058.002	D	0.7	0.45 g/cc	0.50 ft	20%	60%	1.00 ft	0.00 ft	NA	2.94 ft	548.43 ft	44,907 cy	- cy	9.5 acres	551.7 ft	7,632 cy	3,053 cy	5.7 acres	
4059.001	D	0.7	0.45 g/cc	0.50 ft	20%	60%	1.00 ft	0.00 ft	NA	1.60 ft	554.94 ft	2,776 cy	- cy	1.1 acres	557.4 ft	866 cy	346 cy	0.6 acres	
4060.001	A2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	3.01 ft	553.61 ft	- cy	7,449 cy	1.5 acres	557.3 ft	- cy	- cy	- acres	
4060.002	A2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	3.34 ft	552.72 ft	- cy	6,357 cy	1.2 acres	554.4 ft	- cy	- cy	- acres	
4060.003	A2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	6.14 ft	559.36 ft	- cy	13,128 cy	1.3 acres	562.0 ft	- cy	- cy	- acres	
4060.004	A2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	4.87 ft	563.10 ft	- cy	26,661 cy	3.4 acres	574.1 ft	- cy	- cy	- acres	
4060.005	D	0.7	0.45 g/cc	0.50 ft	20%	60%	1.00 ft	0.00 ft	NA	2.73 ft	571.70 ft	4,602 cy	- cy	1.0 acres	575.7 ft	843 cy	337 cy	0.6 acres	
4061.001	B2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	2.01 ft	554.53 ft	- cy	644 cy	0.2 acres	559.7 ft	- cy	- cy	- acres	
4061.002	B2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	2.99 ft	548.77 ft	- cy	1,966 cy	0.4 acres	553.4 ft	- cy	- cy	- acres	
4061.003	B2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	3.05 ft	558.13 ft	- cy	2,881 cy	0.6 acres	563.2 ft	- cy	- cy	- acres	
4062.001	SC1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	1.84 ft	554.11 ft	- cy	2,042 cy	0.9 acres	556.2 ft	- cy	- cy	- acres	
4062.002	D	0.7	0.45 g/cc	0.50 ft	20%	60%	1.00 ft	0.00 ft	NA	0.66 ft	558.93 ft	122 cy	- cy	0.1 acres	560.4 ft	63 cy	25 cy	0.0 acres	
4063.001	A2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	0.57 ft	557.55 ft	- cy	886 cy	1.0 acres	563.3 ft	- cy	- cy	- acres	
4063.002	D	0.7	0.45 g/cc	0.50 ft	20%	60%	1.00 ft	0.00 ft	NA	1.89 ft	548.04 ft	23,151 cy	- cy	7.8 acres	554.0 ft	8,120 cy	2,448 cy	4.0 acres	
4063.003	D_B2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	1.75 ft	6.0 ppm	2.13 ft	550.26 ft	602 cy	1,978 cy	0.7 acres	552.2 ft	- cy	- cy	- acres	1.6 ft
4063.004	D	0.7	0.45 g/cc	0.50 ft	20%	60%	1.00 ft	0.00 ft	NA	0.86 ft	560.24 ft	123 cy	- cy	0.1 acres	566.6 ft	71 cy	29 cy	0.1 acres	
4063.005	A2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	1.73 ft	560.46 ft	- cy	8,154 cy	2.2 acres	575.8 ft	- cy	- cy	- acres	
4063.006	SC1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	0.46 ft	555.61 ft	- cy	114 cy	0.2 acres	558.7 ft	- cy	- cy	- acres	
4063.007	D	0.7	0.45 g/cc	0.50 ft	20%	60%	1.00 ft	0.00 ft	NA	0.56 ft	554.34 ft	429 cy	- cy	0.5 acres	559.2 ft	385 cy	154 cy	0.3 acres	
4065.001	C1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	1.23 ft	550.73 ft	- cy	4,154 cy	2.1 acres	554.3 ft	- cy	- cy	- acres	
4065.002	SC1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	1.09 ft	563.20 ft	- cy	976 cy	0.6 acres	575.9 ft	- cy	- cy	- acres	
4066.001	SC1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	1.09 ft	553.71 ft	- cy	902 cy	0.6 acres	555.1 ft	- cy	- cy	- acres	

Table 3
Scenario 130 Polygon Summary

Polygon_ID	RevRem_ABB	FRAC	in-situ dry density of Solids from 2007 Amended ROD	OverDredgePct	ResidDredgePct	ResidSandPct	ResidDredgeDepth	UcDimension	z_crit	meanNonZeroDoC2011	meanFinalMudLine	VolumeRemoved	VolumeRemaining	RalArea_ac	P95_FinalMudLine	Over Cut Volume	Residual Dredge Volume	Residual Dredge Area	Mean L' Dimension
4066.002	D	0.7	0.45 g/cc	0.50 ft	20%	60%	1.00 ft	0.00 ft	NA	1.38 ft	559.21 ft	9,992 cy	- cy	4.5 acres	562.2 ft	3,632 cy	1,453 cy	2.7 acres	
4066.003	D	0.7	0.45 g/cc	0.50 ft	20%	60%	1.00 ft	0.00 ft	NA	1.12 ft	555.76 ft	926 cy	- cy	0.5 acres	559.5 ft	415 cy	166 cy	0.3 acres	
4066.004	SC1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	0.62 ft	562.48 ft	- cy	546 cy	0.5 acres	572.4 ft	- cy	- cy	- acres	
4068.002	A2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	0.86 ft	561.20 ft	- cy	7,077 cy	5.1 acres	571.3 ft	- cy	- cy	- acres	
4073.001	D	0.7	0.45 g/cc	0.50 ft	20%	60%	1.00 ft	0.00 ft	NA	3.02 ft	561.52 ft	19,142 cy	- cy	3.9 acres	568.9 ft	3,171 cy	1,268 cy	2.4 acres	
4074.001	D	0.7	0.45 g/cc	0.50 ft	20%	60%	1.00 ft	0.00 ft	NA	2.59 ft	553.23 ft	4,122 cy	- cy	1.0 acres	561.0 ft	795 cy	318 cy	0.6 acres	
4074.002	D	0.7	0.45 g/cc	0.50 ft	20%	60%	1.00 ft	0.00 ft	NA	2.42 ft	553.25 ft	38,984 cy	- cy	10.0 acres	557.7 ft	8,063 cy	3,225 cy	6.0 acres	
4074.003	D_B2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	1.75 ft	6.0 ppm	5.67 ft	567.62 ft	15,600 cy	18,150 cy	3.7 acres	569.5 ft	- cy	- cy	- acres	3.0 ft
4074.004	D_A2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	1.75 ft	6.0 ppm	5.83 ft	564.30 ft	12,198 cy	21,906 cy	3.6 acres	569.3 ft	- cy	- cy	- acres	3.7 ft
4081.001	D	0.7	0.45 g/cc	0.50 ft	20%	60%	1.00 ft	0.00 ft	NA	3.83 ft	556.02 ft	1,716 cy	- cy	0.3 acres	565.8 ft	237 cy	95 cy	0.2 acres	
4082.001	SC1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	0.89 ft	574.59 ft	- cy	2,599 cy	1.6 acres	576.6 ft	- cy	- cy	- acres	
4084.001	D	0.7	0.45 g/cc	0.50 ft	20%	60%	1.00 ft	0.00 ft	NA	2.61 ft	572.51 ft	12,084 cy	- cy	2.9 acres	575.7 ft	2,319 cy	927 cy	1.7 acres	
4084.003	SC1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	3.00 ft	567.59 ft	- cy	1,883 cy	0.4 acres	575.1 ft	- cy	- cy	- acres	
4084.004	D_A2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	1.75 ft	6.0 ppm	2.35 ft	559.53 ft	4,775 cy	12,540 cy	4.6 acres	569.3 ft	- cy	- cy	- acres	1.7 ft
4085.001	D	0.7	0.45 g/cc	0.50 ft	20%	60%	1.00 ft	0.00 ft	NA	3.78 ft	565.34 ft	5,425 cy	- cy	0.9 acres	574.8 ft	718 cy	287 cy	0.5 acres	
4086.002	SC1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	2.66 ft	568.64 ft	- cy	6,951 cy	1.6 acres	576.2 ft	- cy	- cy	- acres	
4087.001	D	0.7	0.45 g/cc	0.50 ft	20%	60%	1.00 ft	0.00 ft	NA	0.75 ft	552.14 ft	4,847 cy	- cy	4.0 acres	554.7 ft	3,226 cy	1,290 cy	2.4 acres	
4087.002	D_LR	0.7	0.45 g/cc	0.00 ft	20%	60%	1.00 ft	0.00 ft	NA	2.48 ft	555.72 ft	24,400 cy	- cy	6.1 acres	566.5 ft	- cy	1,960 cy	3.7 acres	
4087.003	D	0.7	0.45 g/cc	0.50 ft	20%	60%	1.00 ft	0.00 ft	NA	2.33 ft	549.44 ft	59,536 cy	- cy	15.9 acres	552.7 ft	12,802 cy	5,121 cy	9.5 acres	
4087.004	D_A2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	1.75 ft	6.0 ppm	5.24 ft	566.26 ft	19,189 cy	47,540 cy	7.9 acres	569.3 ft	- cy	- cy	- acres	3.7 ft
4087.005	D	0.7	0.45 g/cc	0.50 ft	20%	60%	1.00 ft	0.00 ft	NA	5.51 ft	551.33 ft	22,984 cy	- cy	2.6 acres	561.9 ft	2,082 cy	833 cy	1.5 acres	
4087.006	D	0.7	0.45 g/cc	0.50 ft	20%	60%	1.00 ft	0.00 ft	NA	3.49 ft	568.54 ft	10,021 cy	- cy	1.8 acres	574.0 ft	1,436 cy	574 cy	1.1 acres	
4089.001	D	0.7	0.45 g/cc	0.50 ft	20%	60%	1.00 ft	0.00 ft	NA	4.66 ft	567.87 ft	19,173 cy	- cy	2.6 acres	575.9 ft	2,058 cy	823 cy	1.5 acres	
4089.002	D	0.7	0.45 g/cc	0.50 ft	20%	60%	1.00 ft	0.00 ft	NA	3.93 ft	570.04 ft	20,176 cy	- cy	3.2 acres	573.4 ft	2,568 cy	1,027 cy	1.9 acres	
4090.003	A2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	6.52 ft	562.81 ft	- cy	87,260 cy	8.3 acres	567.0 ft	- cy	- cy	- acres	
4091.001	D	0.7	0.45 g/cc	0.50 ft	20%	60%	1.00 ft	0.00 ft	NA	2.41 ft	570.08 ft	12,238 cy	- cy	3.1 acres	572.5 ft	2,539 cy	1,016 cy	1.9 acres	
5001.001	SC1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	0.74 ft	573.37 ft	- cy	9,502 cy	8.0 acres	574.1 ft	- cy	- cy	- acres	
5001.002	D	0.7	0.45 g/cc	0.50 ft	20%	60%	1.00 ft	0.00 ft	NA	0.17 ft	548.15 ft	97,757 cy	- cy	0.8 acres	552.3 ft	7,922 cy	3,169 cy	5.9 acres	
5001.003	D_B2	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	1.75 ft	6.0 ppm	5.32 ft	563.27 ft	4,344 cy	17,154 cy	2.5 acres	566.3 ft	- cy	- cy	- acres	4.2 ft
5002.001	D	0.7	0.45 g/cc	0.50 ft	20%	60%	1.00 ft	0.00 ft	NA	3.96 ft	566.36 ft	32,612 cy	- cy	5.1 acres	571.4 ft	4,118 cy	1,647 cy	3.1 acres	
5002.002	SC1	0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	1.32 ft	568.47 ft	- cy	14,437 cy	6.8 acres	570.4 ft	- cy	- cy	- acres	
blamk		0.7	0.45 g/cc	0.00 ft	NA	NA	NA	0.00 ft	NA	2.22 ft	567.69 ft	- cy	54,293 cy	15.1 acres	577.4 ft	- cy	- cy	- acres	
Polygon Total within 2011 FIK Model												1,733,431 cy	1,480,311 cy	686.7 acres		162,341 cy	118,557 cy	280,897.8 acres	
Phase I	A2			0.00 ft	NA	NA	NA	0.00 ft	NA			- cy	33,959 cy	21.0 acres		- cy	- cy	- acres	
D114-PRISM	D			0.50 ft	20%	60%	1.00 ft	0.00 ft	NA			1,296 cy		0.5 acres		403 cy	161 cy	0.3 acres	
D119A-PRISM	D			0.50 ft	20%	60%	1.00 ft	0.00 ft	NA			1,737 cy		0.9 acres		720 cy	290 cy	0.5 acres	
D35M	D			0.50 ft	20%	60%	1.00 ft	0.00 ft	NA			- cy		0.1 acres		40 cy	16 cy	0.0 acres	
D86C	D			0.50 ft	20%	60%	1.00 ft	0.00 ft	NA			- cy		0.1 acres		81 cy	32 cy	0.1 acres	
D86D	D			0.50 ft	20%	60%	1.00 ft	0.00 ft	NA			- cy		0.2 acres		161 cy	65 cy	0.1 acres	
D75	D			0.50 ft	20%	60%	1.00 ft	0.00 ft	NA			- cy		0.2 acres		161 cy	65 cy	0.1 acres	
D136C	D			0.50 ft	20%	60%	1.00 ft	0.00 ft	NA			- cy		0.1 acres		40 cy	16 cy	0.0 acres	
D136D	D			0.50 ft	20%	60%	1.00 ft	0.00 ft	NA			- cy		0.1 acres		81 cy	32 cy	0.1 acres	
D140A-PRISM	D			0.50 ft	20%	60%	1.00 ft	0.00 ft	NA			- cy		0.9 acres		720 cy	288 cy	0.5 acres	
D140B-PRISM	D			0.50 ft	20%	60%	1.00 ft	0.00 ft	NA			- cy		1.1 acres		887 cy	355 cy	0.7 acres	
D90	D			0.50 ft	20%	60%	1.00 ft	0.00 ft	NA			- cy		0.1 acres		40 cy	16 cy	0.0 acres	
Production Dredge Area Outside of 2011FIK	CONFIRM			0.00 ft	20%	60%	1.00 ft	0.00 ft	NA			- cy		115.7 acres		- cy	37,333 cy	69.4 acres	
												1,736,463 cy	1,514,270 cy	827.6 acres		165,588 cy	157,229 cy	322,917.0 acres	

List of Polygons OUTSIDE of the 2011 FIK MODEL -
D-402-A, D-402-Q, D-402-R, D-402-S,
D-406-T,
D-407-N, D-407-Q,
D-408-C, D-408-D, D-408-E,
D-409-C, D-409-D, D-409-E,
Phase I
115.7 Acres of Production Dredging (2008FIK RAL Area Minus 2011FIK RAL Area)

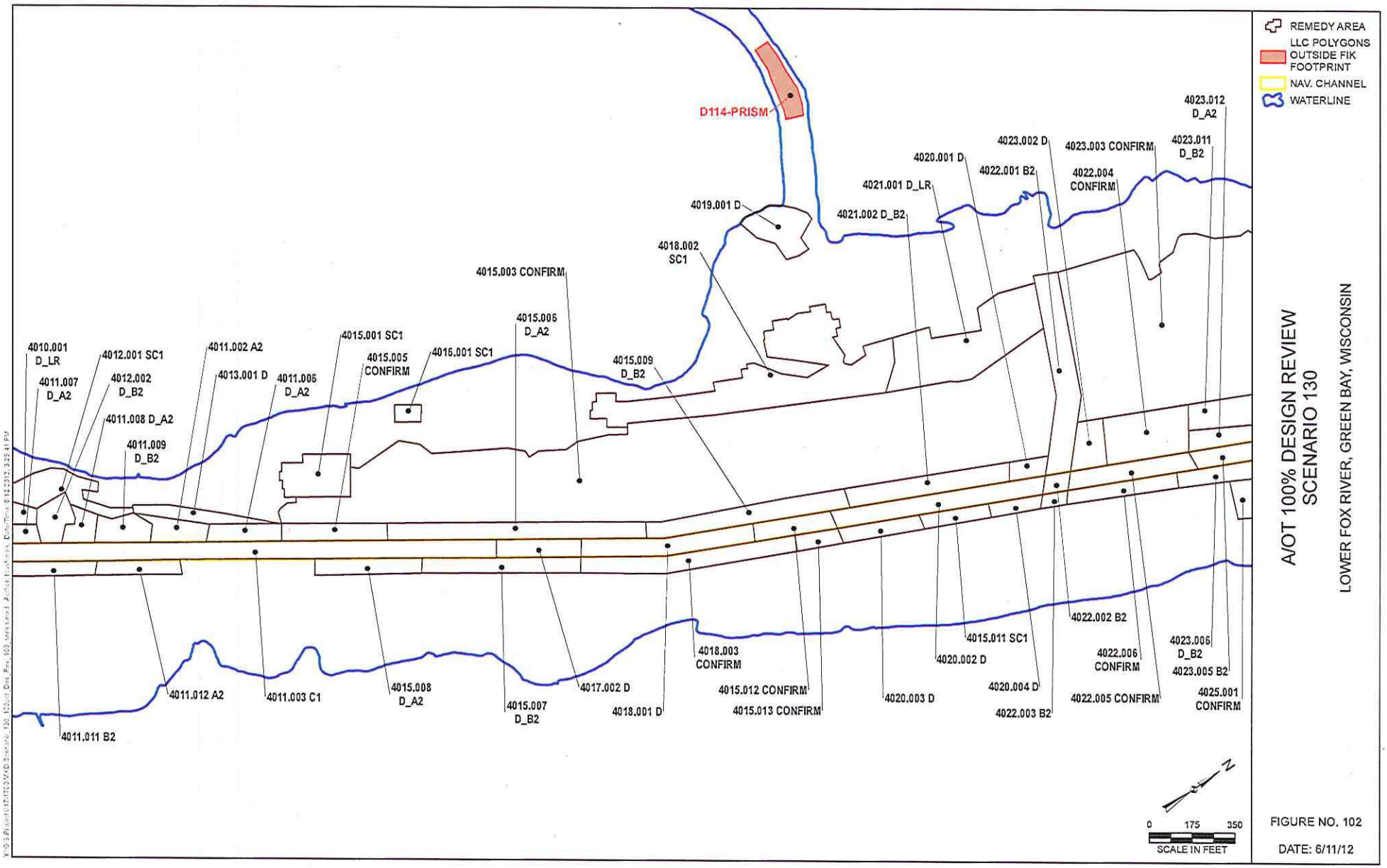


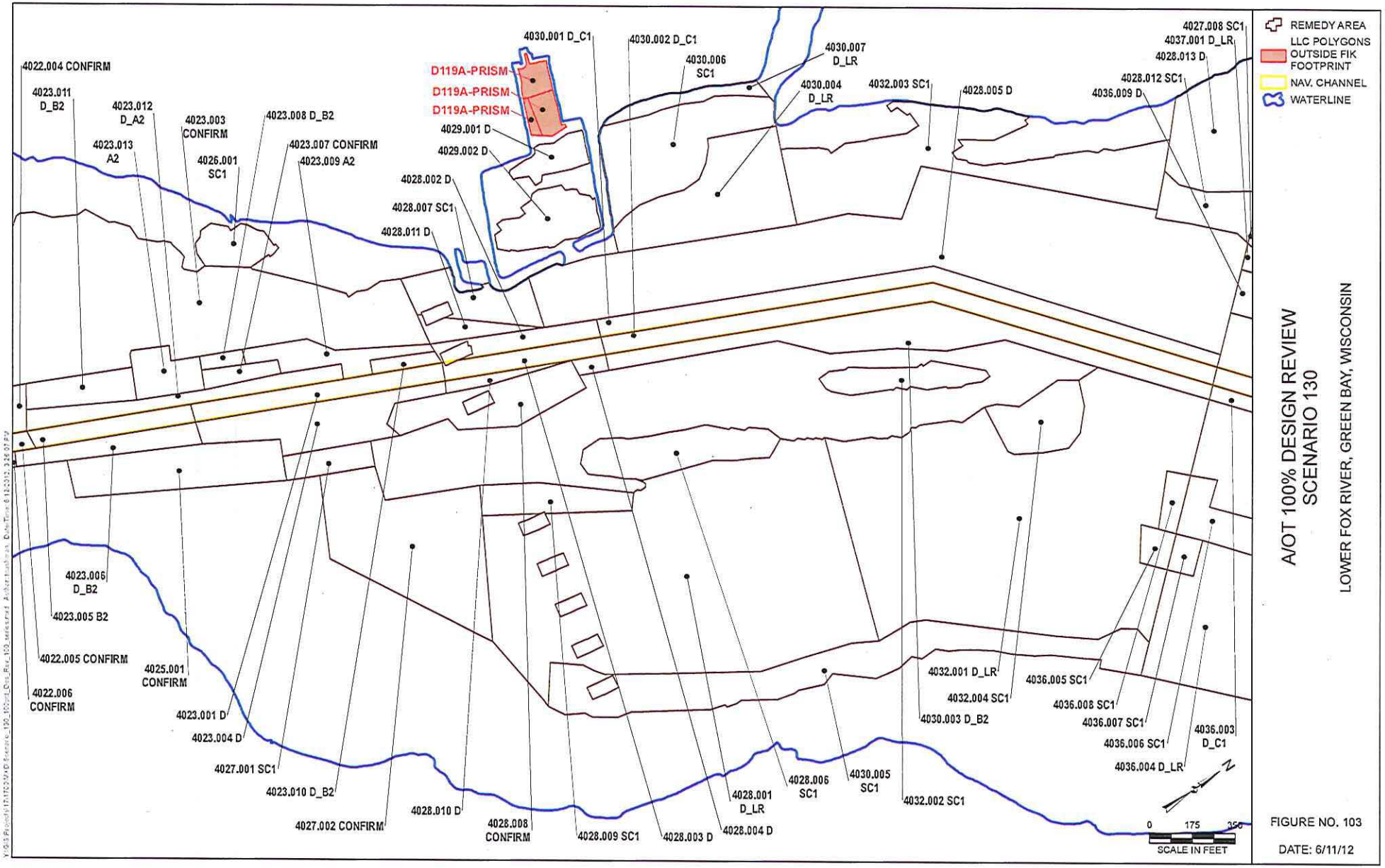
A/OT 100% DESIGN REVIEW
SCENARIO 130

LOWER FOX RIVER, GREEN BAY, WISCONSIN

FIGURE NO. 101

DATE: 6/11/12


REMEDY AREA
LLC POLYGONS OUTSIDE FIK FOOTPRINT
NAV. CHANNEL
WATERLINE
D114-PRISM
4010.001 D_LR
4011.007 D_A2
4012.001 SC1
4012.002 D_B2
4011.008 D_A2
4011.009 D_B2
4011.002 A2
4013.001 D
4011.006 D_A2
4015.001 SC1
4015.005 CONFIRM
4016.001 SC1
4015.003 CONFIRM
4015.006 D_A2
4015.009 D_B2
4018.002 SC1
4019.001 D
4021.002 D_B2
4021.001 D_LR
4020.001 D
4023.002 D
4022.001 B2
4023.003 CONFIRM
4022.004 CONFIRM
4023.011 D_B2
4023.012 D_A2
4011.011 B2
4011.012 A2
4011.003 C1
4015.008 D_A2
4015.007 D_B2
4017.002 D
4018.001 D
4018.003 CONFIRM
4015.012 CONFIRM
4015.013 CONFIRM
4020.003 D
4020.002 D
4015.011 SC1
4020.004 D
4022.003 B2
4022.002 B2
4022.006 CONFIRM
4022.005 CONFIRM
4023.006 D_B2
4023.005 B2
4025.001 CONFIRM
0
175
350
SCALE IN FEET
A/OT 100% DESIGN REVIEW
SCENARIO 130
LOWER FOX RIVER, GREEN BAY, WISCONSIN
FIGURE NO. 102
DATE: 6/11/12

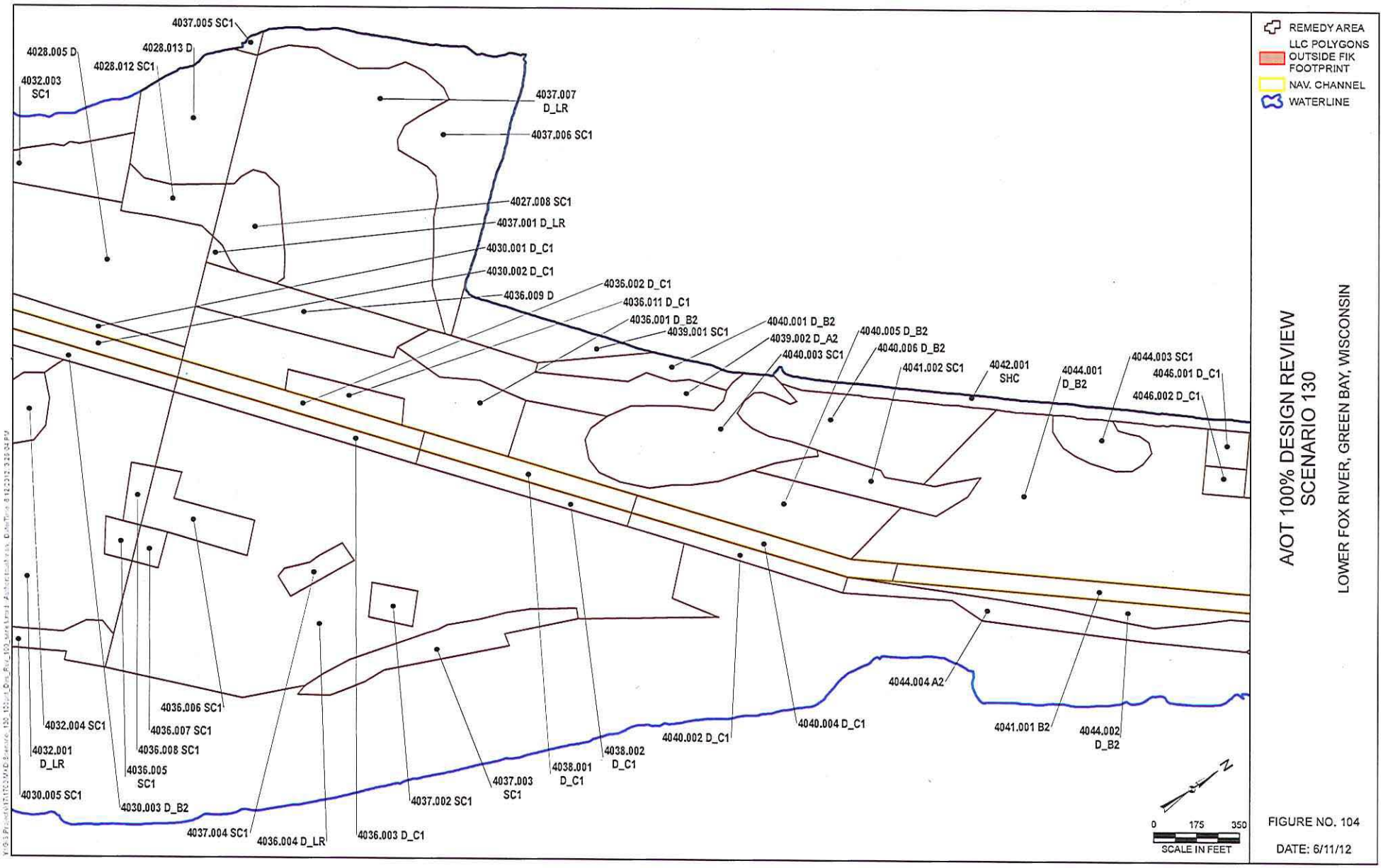


A/OT 100% DESIGN REVIEW
SCENARIO 130

LOWER FOX RIVER, GREEN BAY, WISCONSIN

FIGURE NO. 103

DATE: 6/11/12

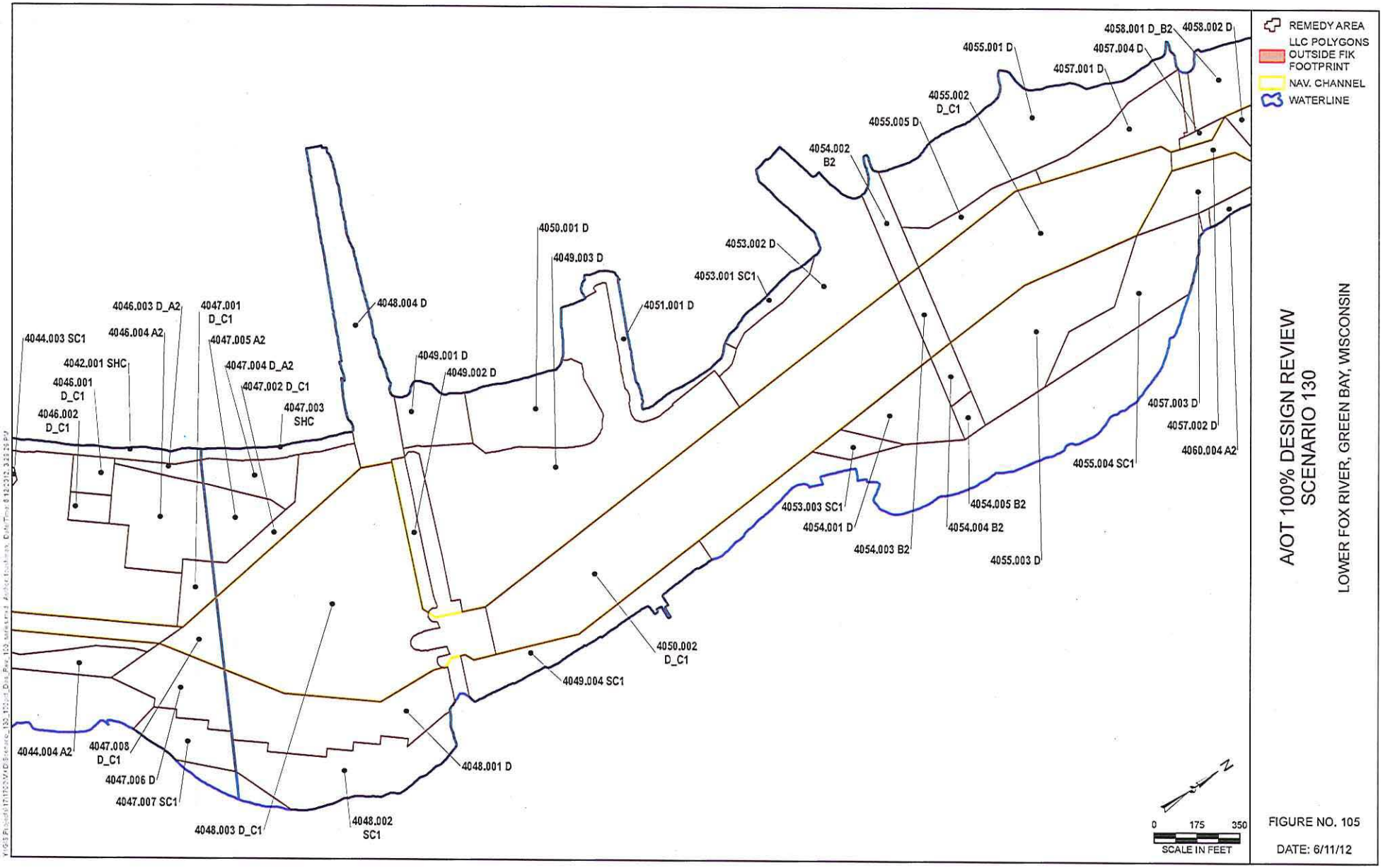


A/OT 100% DESIGN REVIEW
SCENARIO 130

LOWER FOX RIVER, GREEN BAY, WISCONSIN

FIGURE NO. 104

DATE: 6/11/12

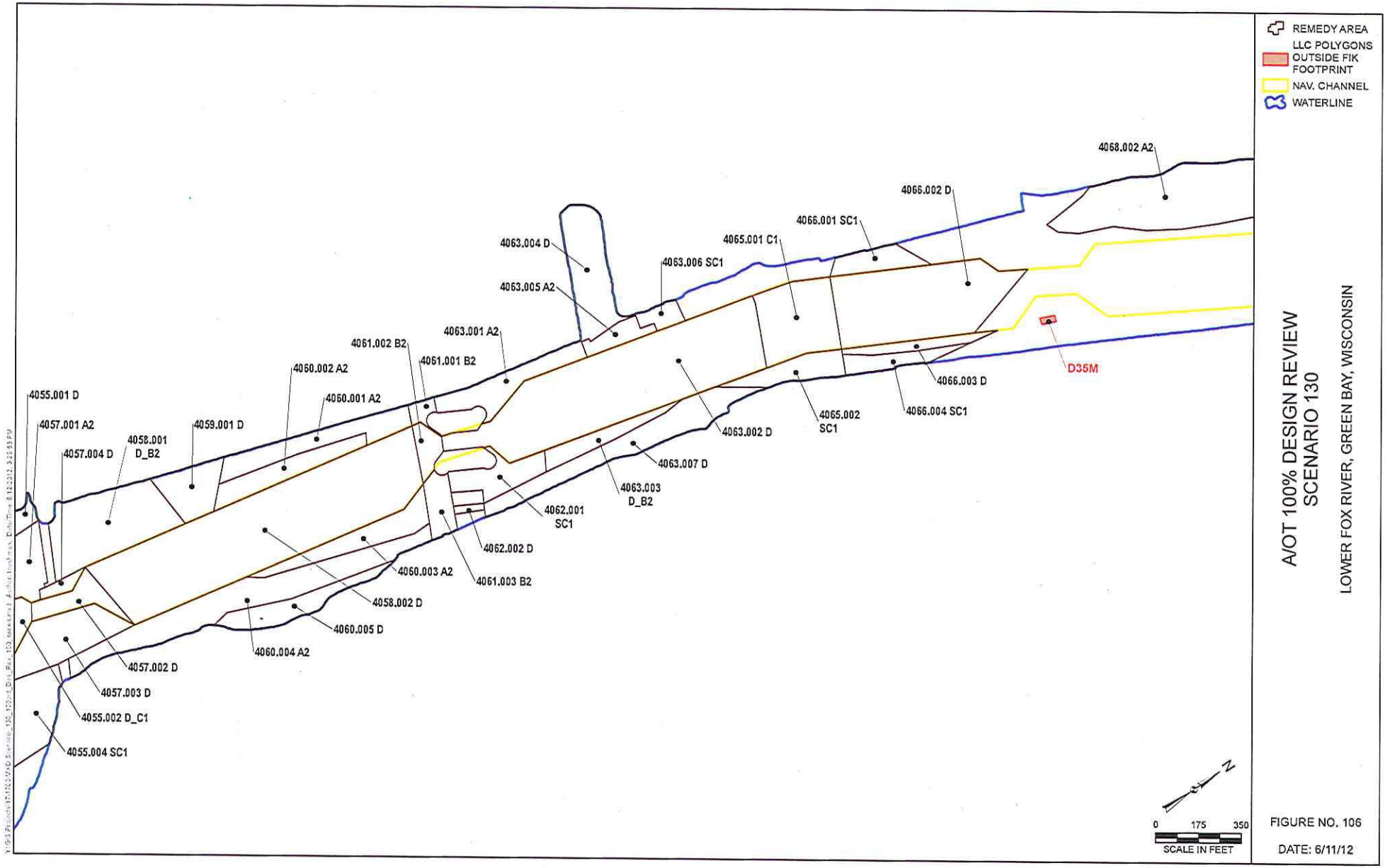


A/OT 100% DESIGN REVIEW
SCENARIO 130

LOWER FOX RIVER, GREEN BAY, WISCONSIN

FIGURE NO. 105

DATE: 6/11/12

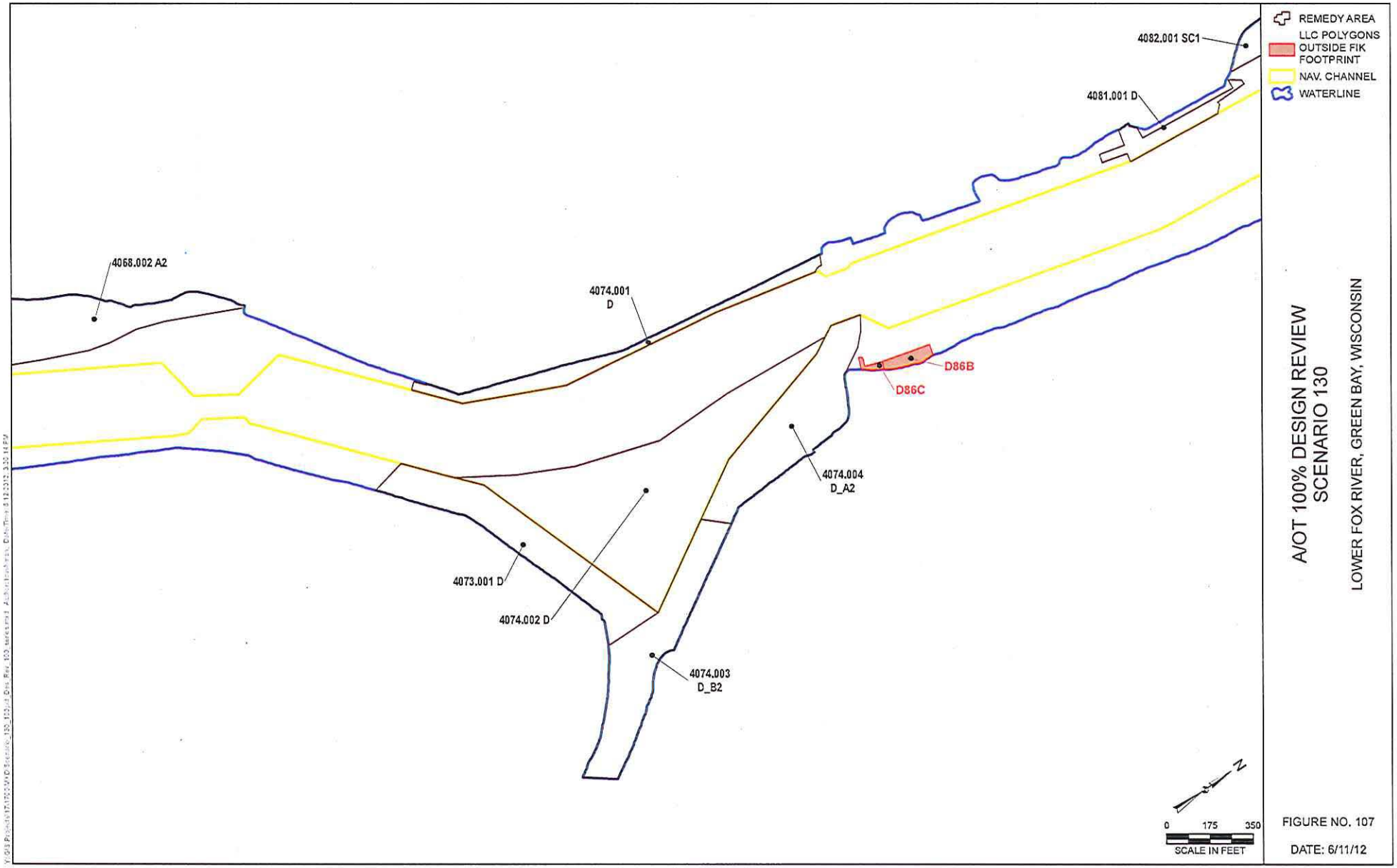


A/OT 100% DESIGN REVIEW
SCENARIO 130

LOWER FOX RIVER, GREEN BAY, WISCONSIN

FIGURE NO. 106

DATE: 6/11/12

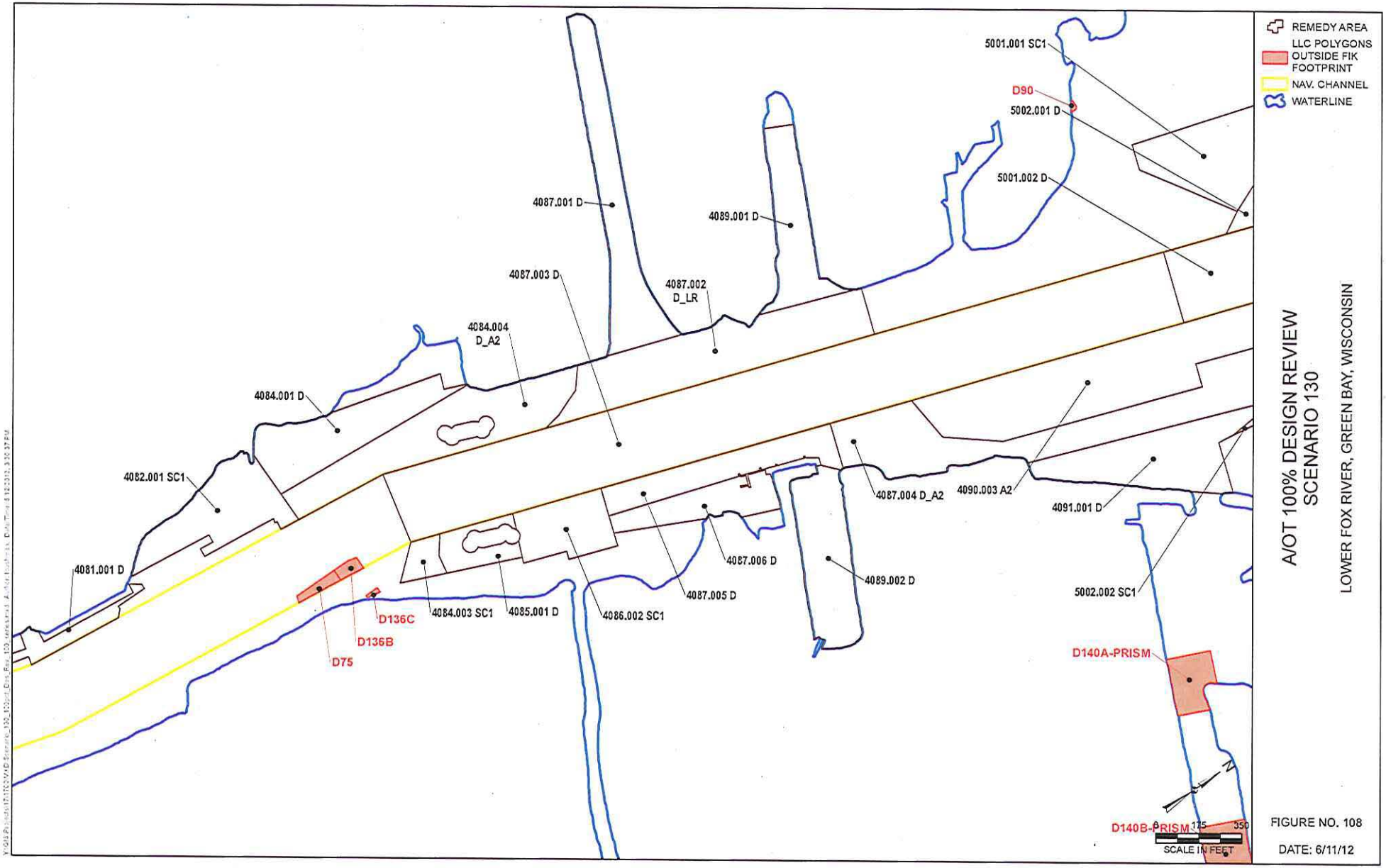


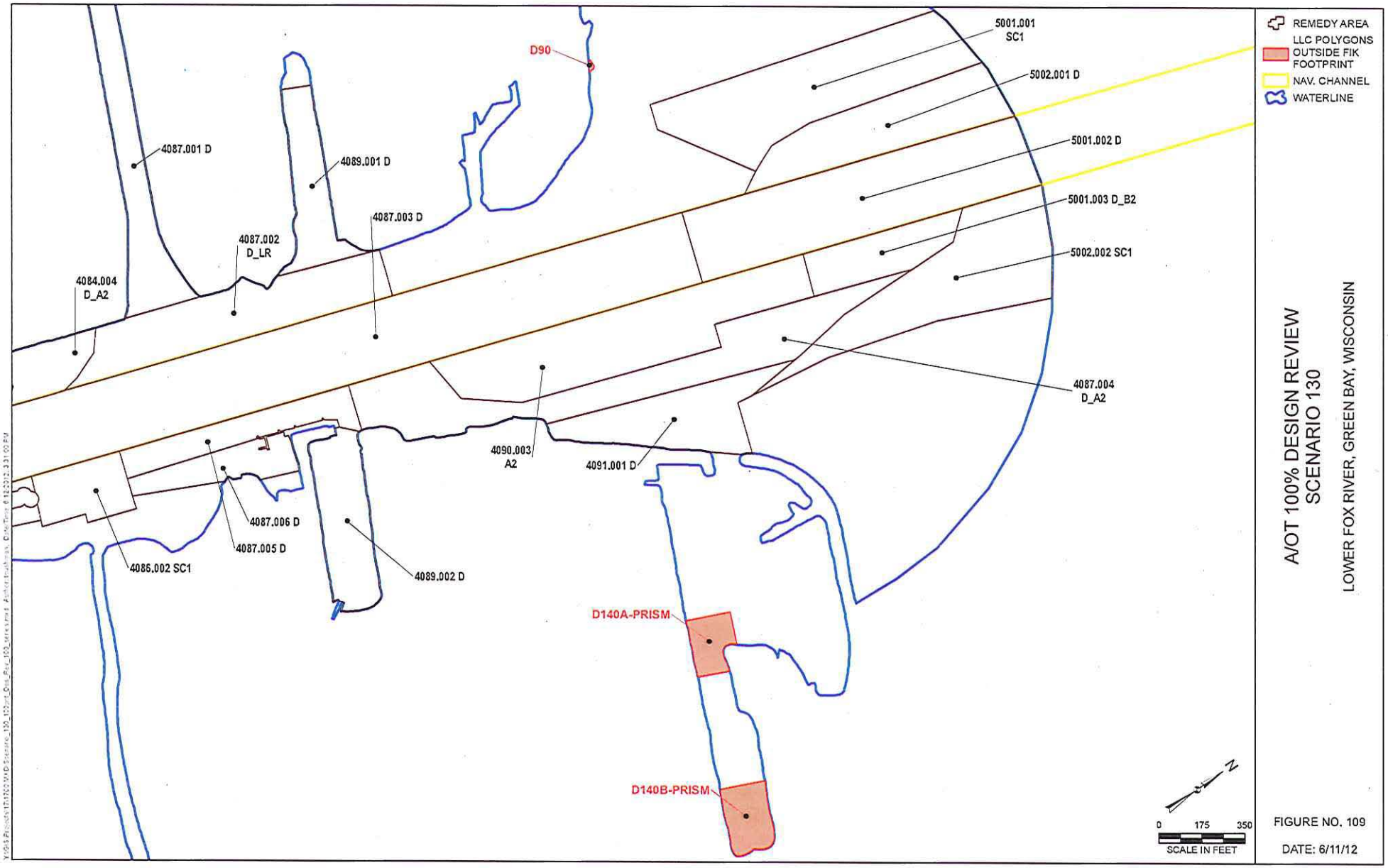
A/OT 100% DESIGN REVIEW
SCENARIO 130

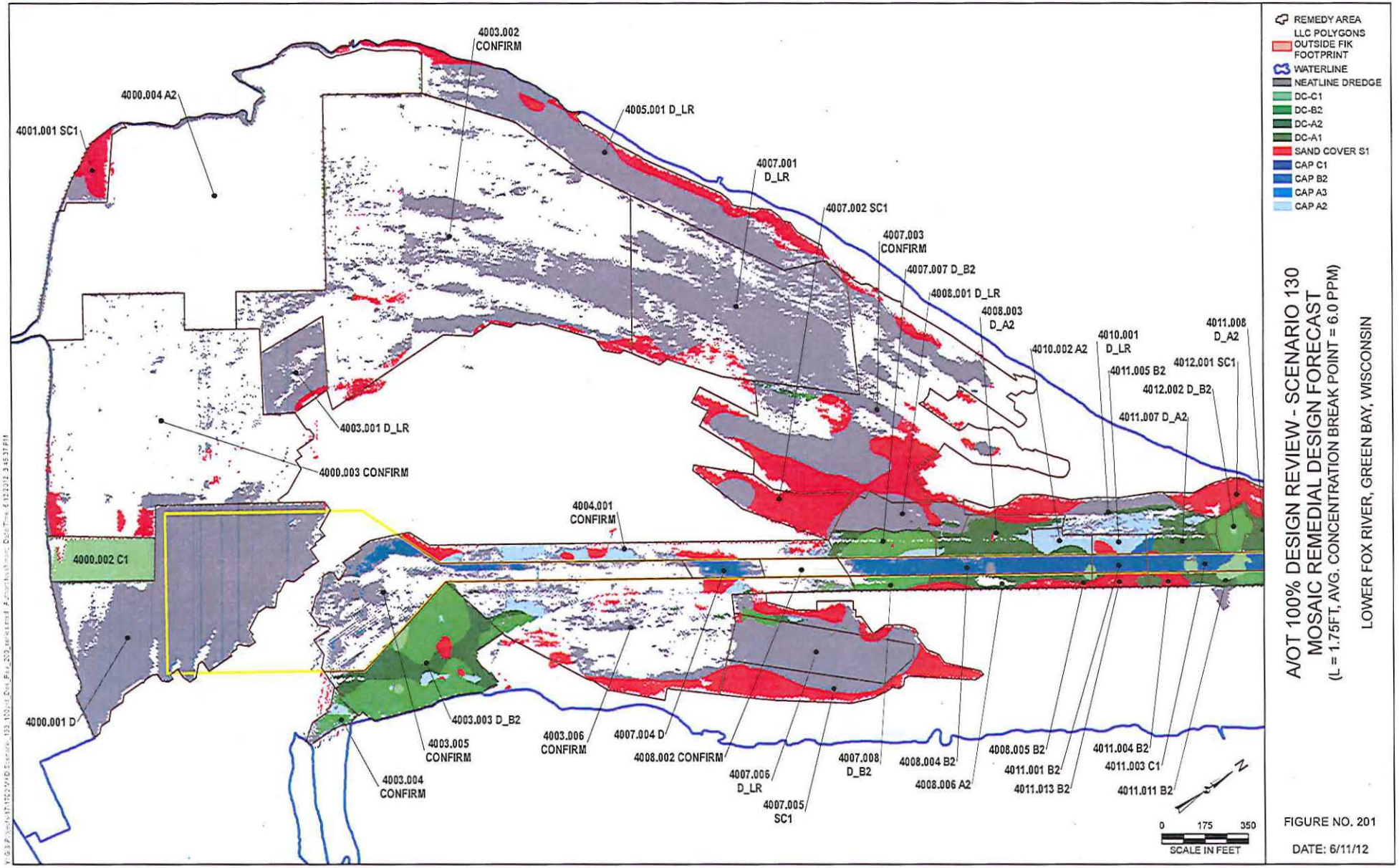
LOWER FOX RIVER, GREEN BAY, WISCONSIN

FIGURE NO. 107

DATE: 6/11/12


REMEDY AREA
LLC POLYGONS OUTSIDE FIK FOOTPRINT
NAV. CHANNEL
WATERLINE
5001.001 SC1
D90
5002.001 D
5001.002 D
4087.001 D
4089.001 D
4087.003 D
4087.002 D_LR
4084.004 D_A2
4084.001 D
4082.001 SC1
4081.001 D
4087.004 D_A2
4090.003 A2
4091.001 D
4087.006 D
4089.002 D
4087.005 D
5002.002 SC1
D136C
D136B
D75
4084.003 SC1
4085.001 D
4086.002 SC1
D140A-PRISM
D140B-PRISM
0
175
350
SCALE IN FEET
A/OT 100% DESIGN REVIEW
SCENARIO 130
LOWER FOX RIVER, GREEN BAY, WISCONSIN
FIGURE NO. 108
DATE: 6/11/12


D90
5001.001 SC1
5002.001 D
5001.002 D
5001.003 D_B2
5002.002 SC1
4087.004 D_A2
4087.001 D
4089.001 D
4087.003 D
4087.002 D_LR
4084.004 D_A2
4090.003 A2
4091.001 D
4087.006 D
4087.005 D
4086.002 SC1
4089.002 D
D140A-PRISM
D140B-PRISM
REMEDY AREA
LLC POLYGONS OUTSIDE FIK FOOTPRINT
NAV. CHANNEL
WATERLINE
0
175
350
SCALE IN FEET
A/OT 100% DESIGN REVIEW
SCENARIO 130
LOWER FOX RIVER, GREEN BAY, WISCONSIN
FIGURE NO. 109
DATE: 6/11/12

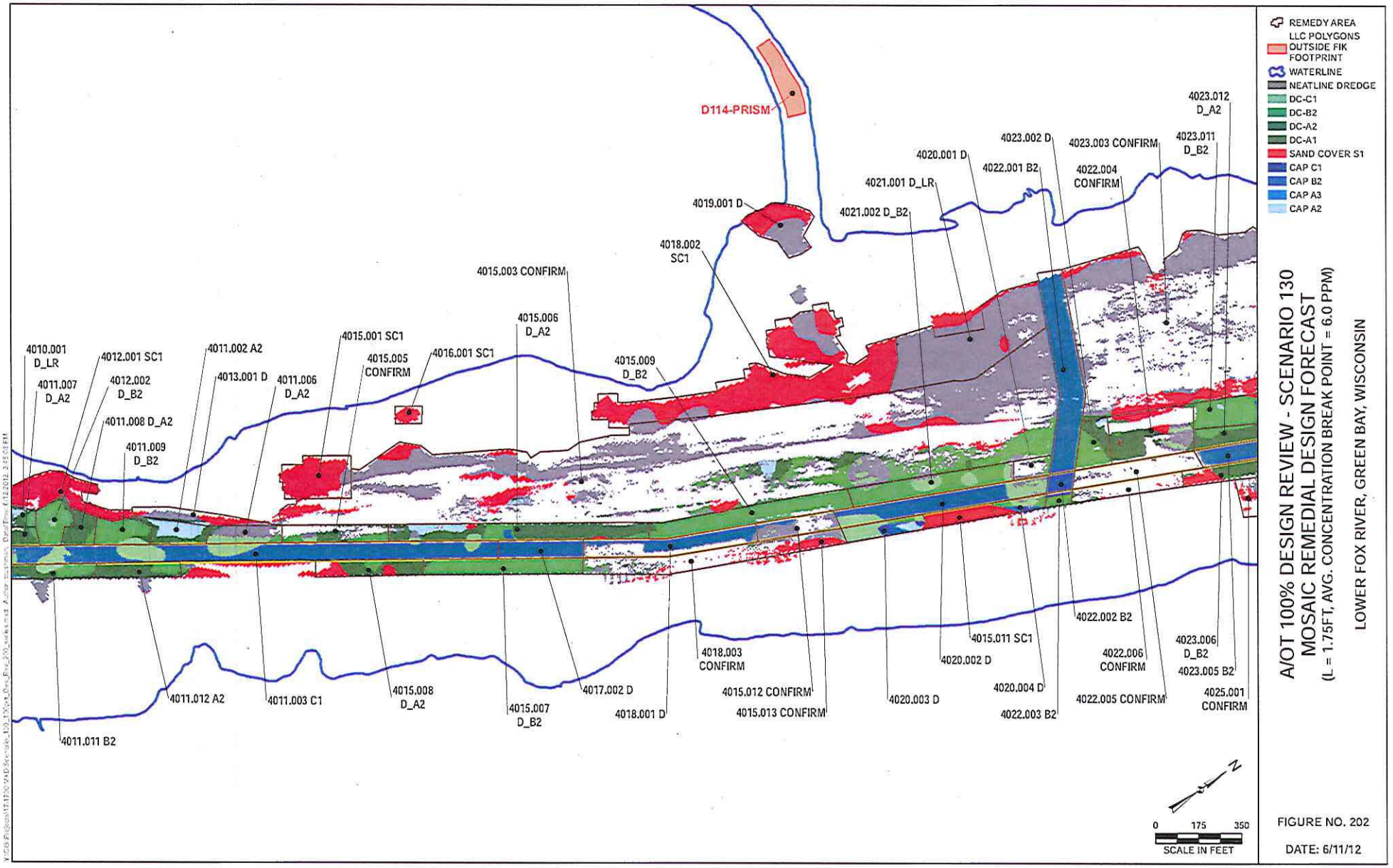


A/OT 100% DESIGN REVIEW - SCENARIO 130
MOSAIC REMEDIAL DESIGN FORECAST
(L = 1.75FT, AVG. CONCENTRATION BREAK POINT = 6.0 PPM)

LOWER FOX RIVER, GREEN BAY, WISCONSIN

FIGURE NO. 201

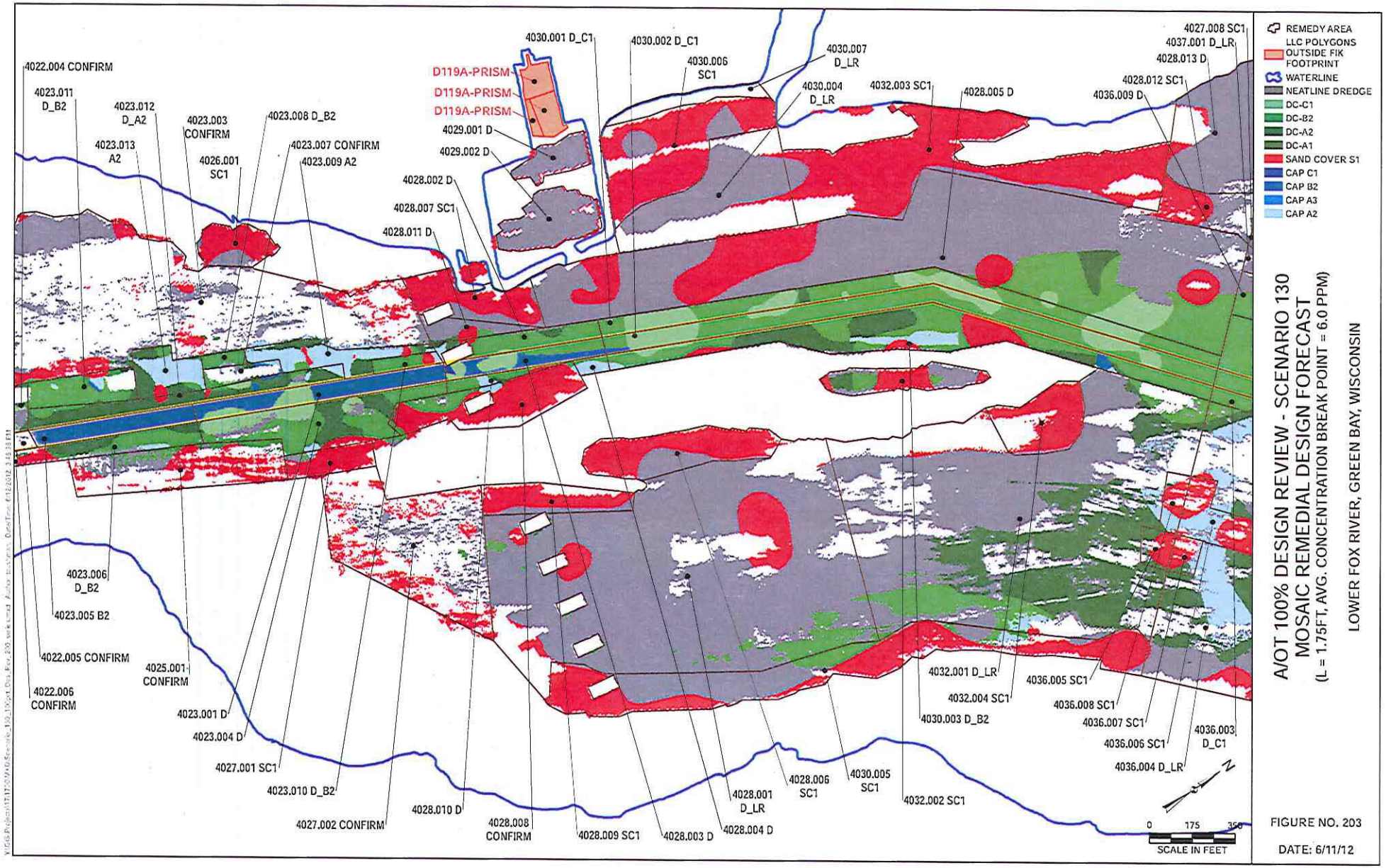
DATE: 6/11/12



A/OT 100% DESIGN REVIEW - SCENARIO 130
MOSAIC REMEDIAL DESIGN FORECAST
(L = 1.75FT, AVG. CONCENTRATION BREAK POINT = 6.0 PPM)
LOWER FOX RIVER, GREEN BAY, WISCONSIN

FIGURE NO. 202

DATE: 6/11/12

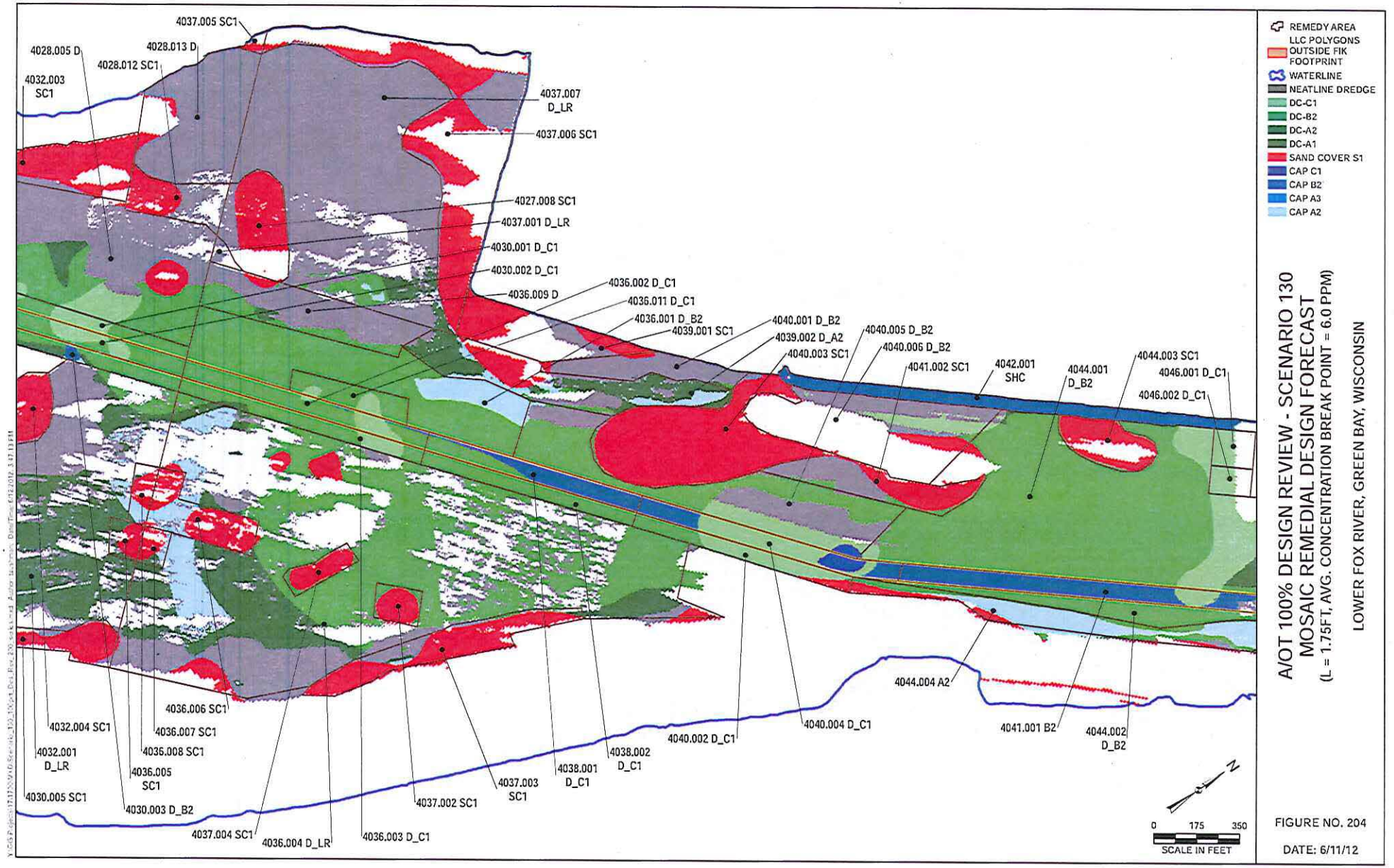


A/OT 100% DESIGN REVIEW - SCENARIO 130
MOSAIC REMEDIAL DESIGN FORECAST
(L = 1.75FT, AVG. CONCENTRATION BREAK POINT = 6.0 PPM)

LOWER FOX RIVER, GREEN BAY, WISCONSIN

FIGURE NO. 203

DATE: 6/11/12

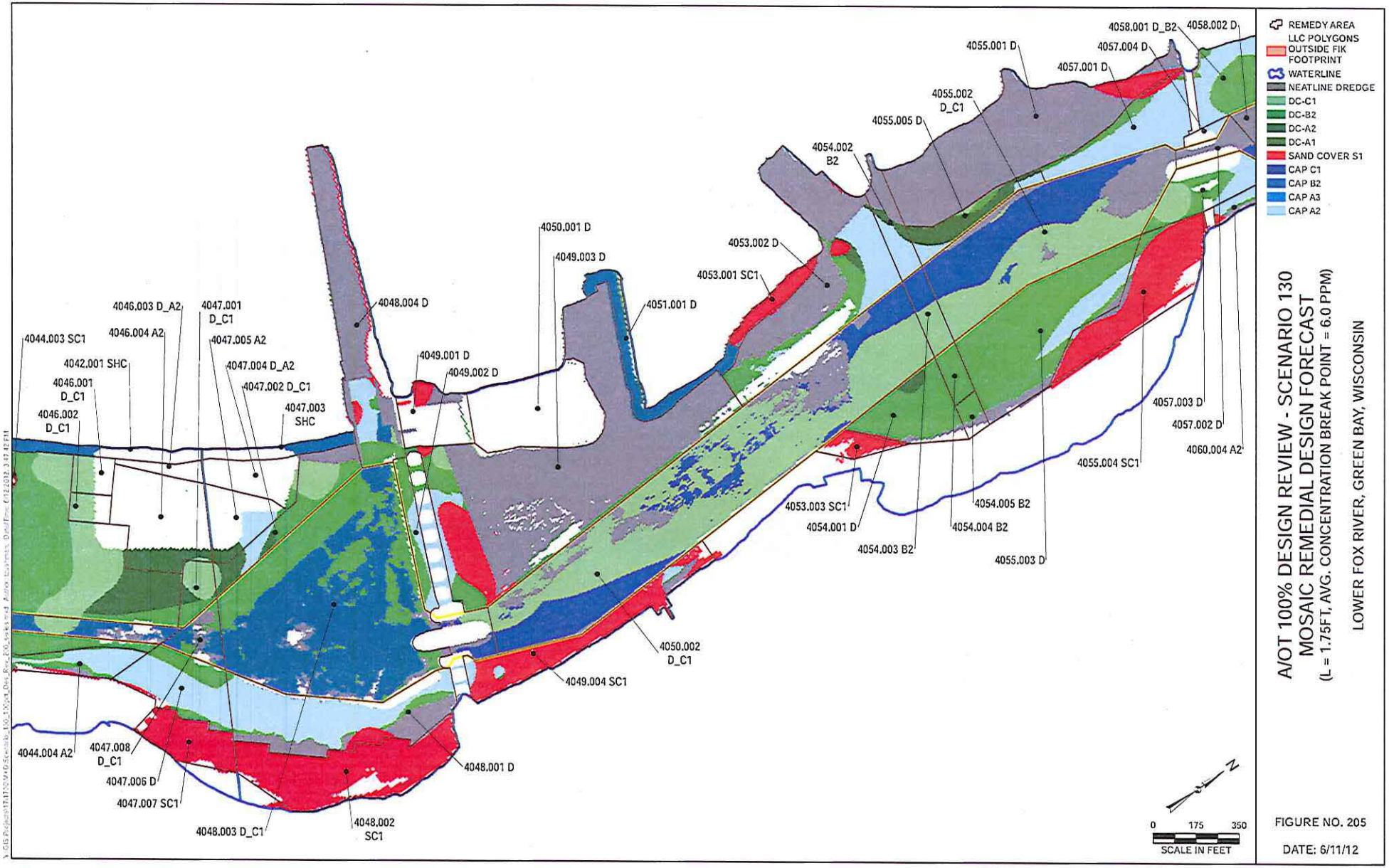


A/OT 100% DESIGN REVIEW - SCENARIO 130
MOSAIC REMEDIAL DESIGN FORECAST
(L = 1.75FT, AVG. CONCENTRATION BREAK POINT = 6.0 PPM)

LOWER FOX RIVER, GREEN BAY, WISCONSIN

FIGURE NO. 204

DATE: 6/11/12

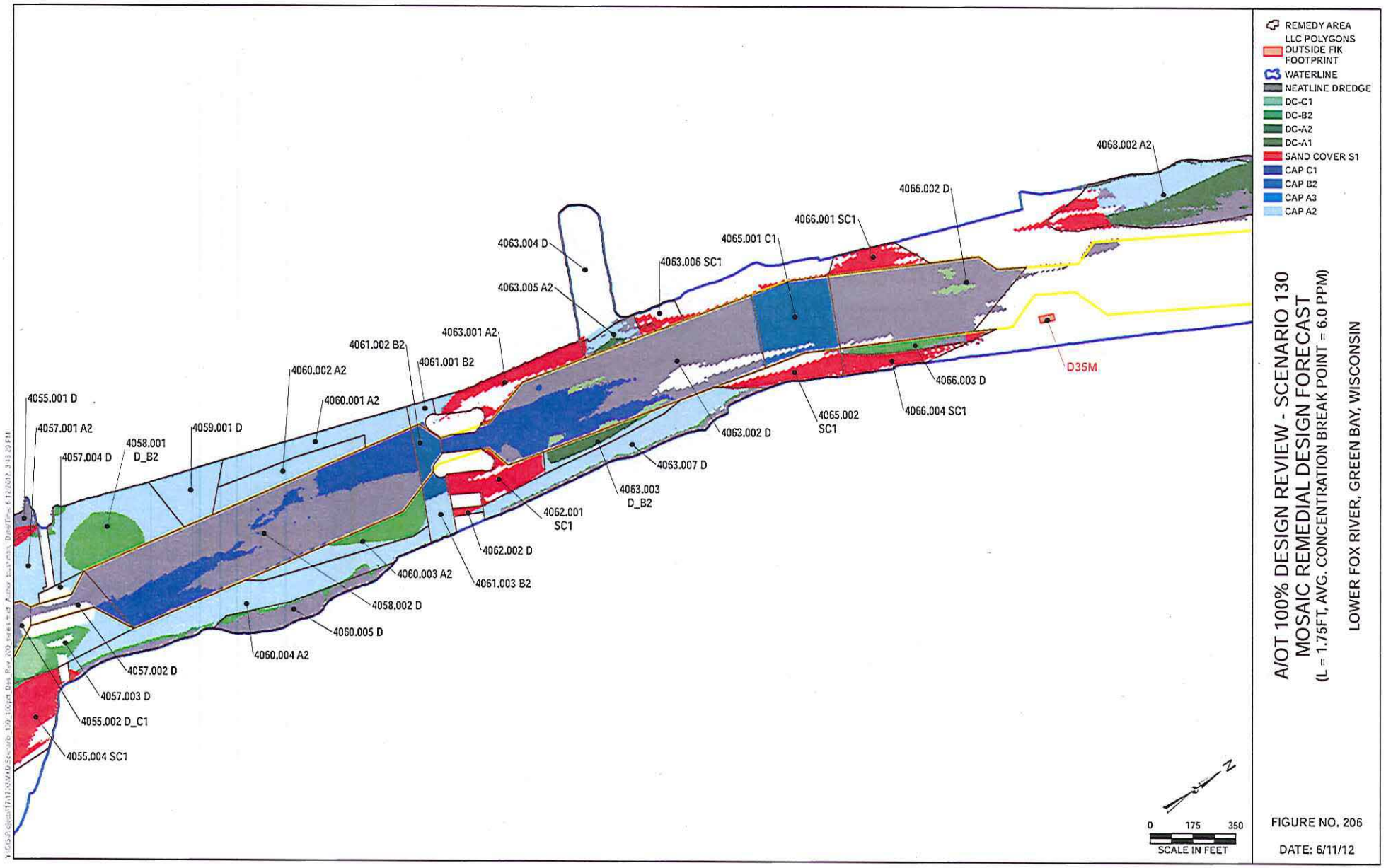


A/OT 100% DESIGN REVIEW - SCENARIO 130
MOSAIC REMEDIAL DESIGN FORECAST
(L = 1.75FT, AVG. CONCENTRATION BREAK POINT = 6.0 PPM)

LOWER FOX RIVER, GREEN BAY, WISCONSIN

FIGURE NO. 205

DATE: 6/11/12

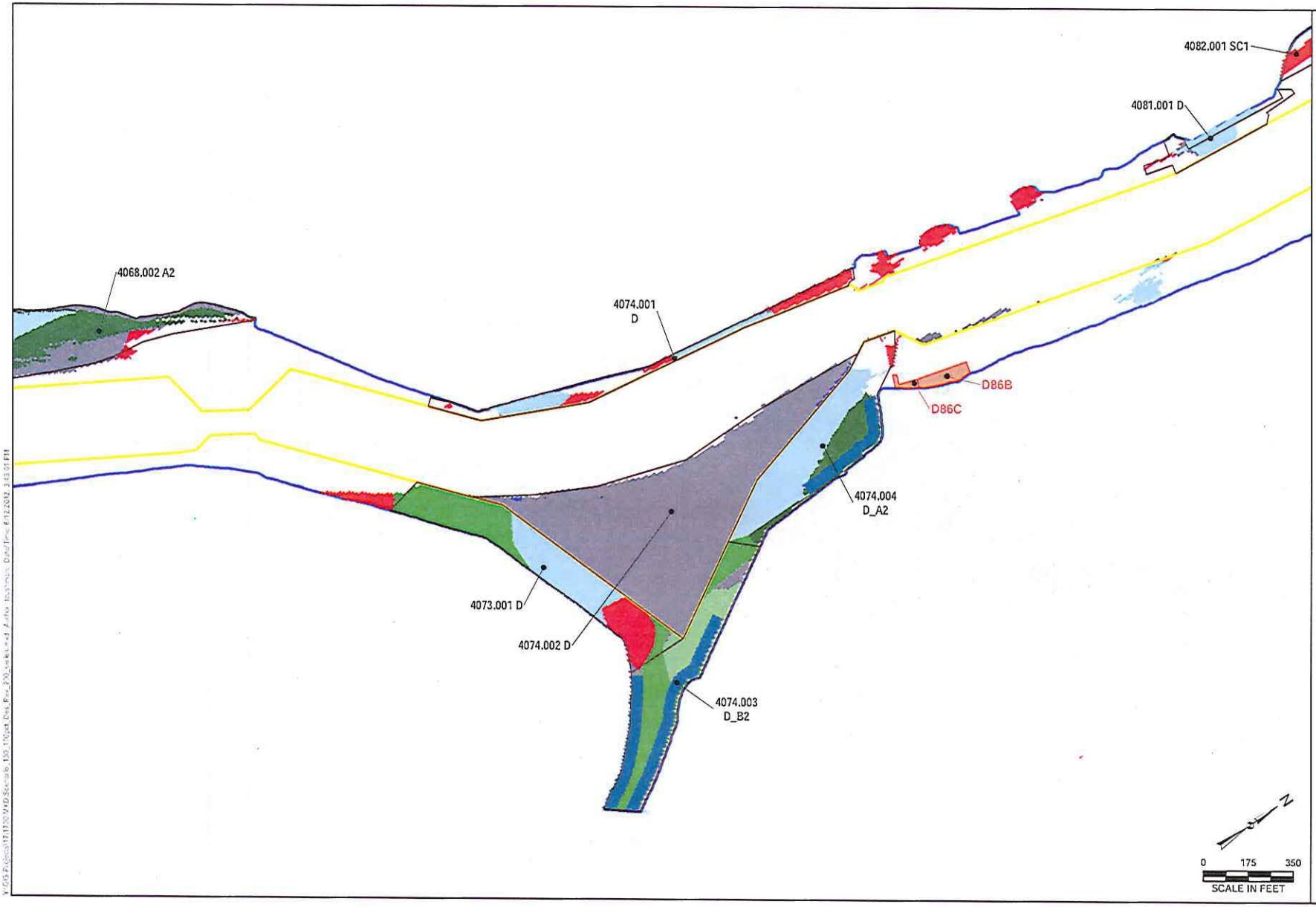


A/OT 100% DESIGN REVIEW - SCENARIO 130
MOSAIC REMEDIAL DESIGN FORECAST
(L = 1.75FT, AVG. CONCENTRATION BREAK POINT = 6.0 PPM)

LOWER FOX RIVER, GREEN BAY, WISCONSIN

FIGURE NO. 206

DATE: 6/11/12

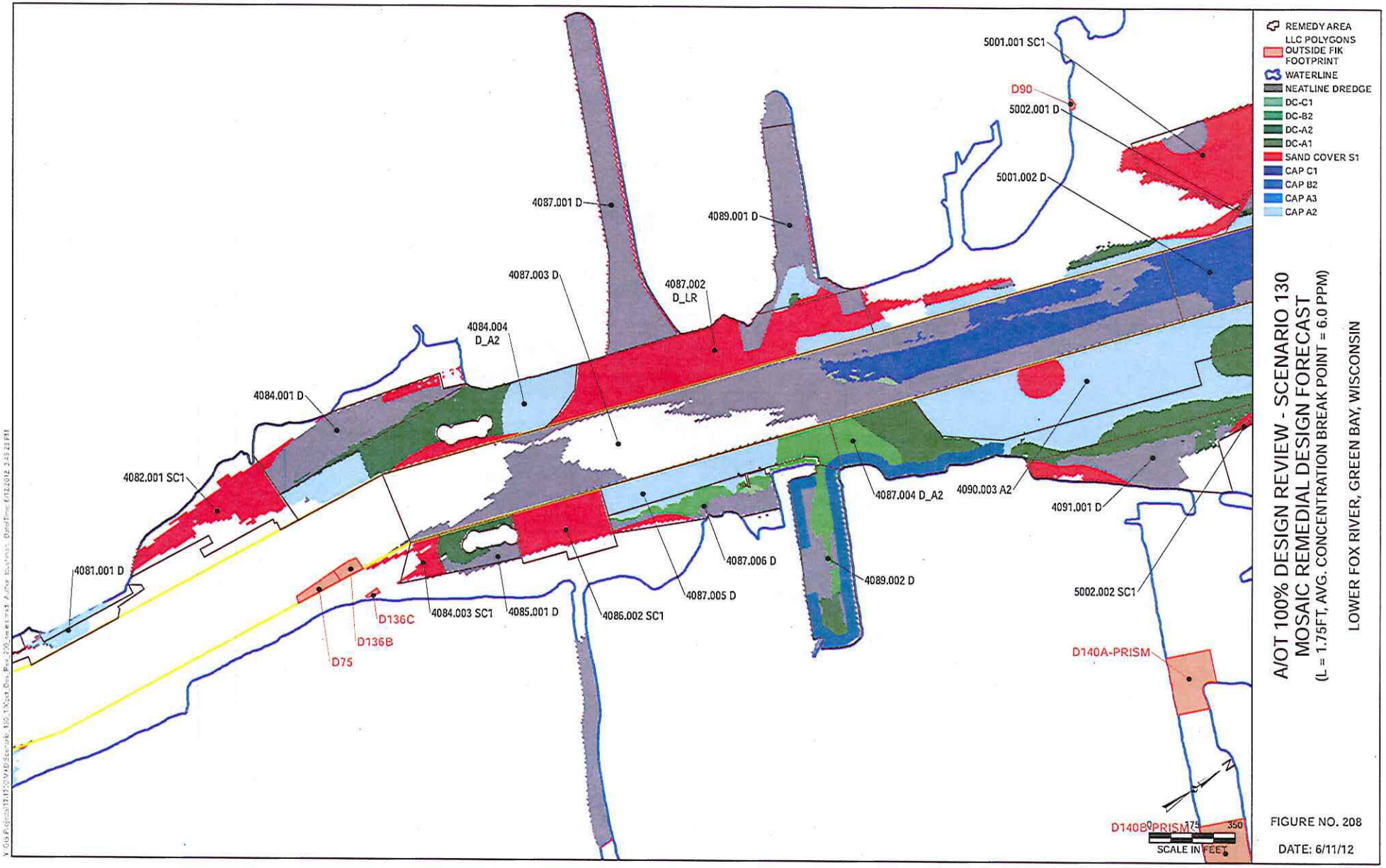


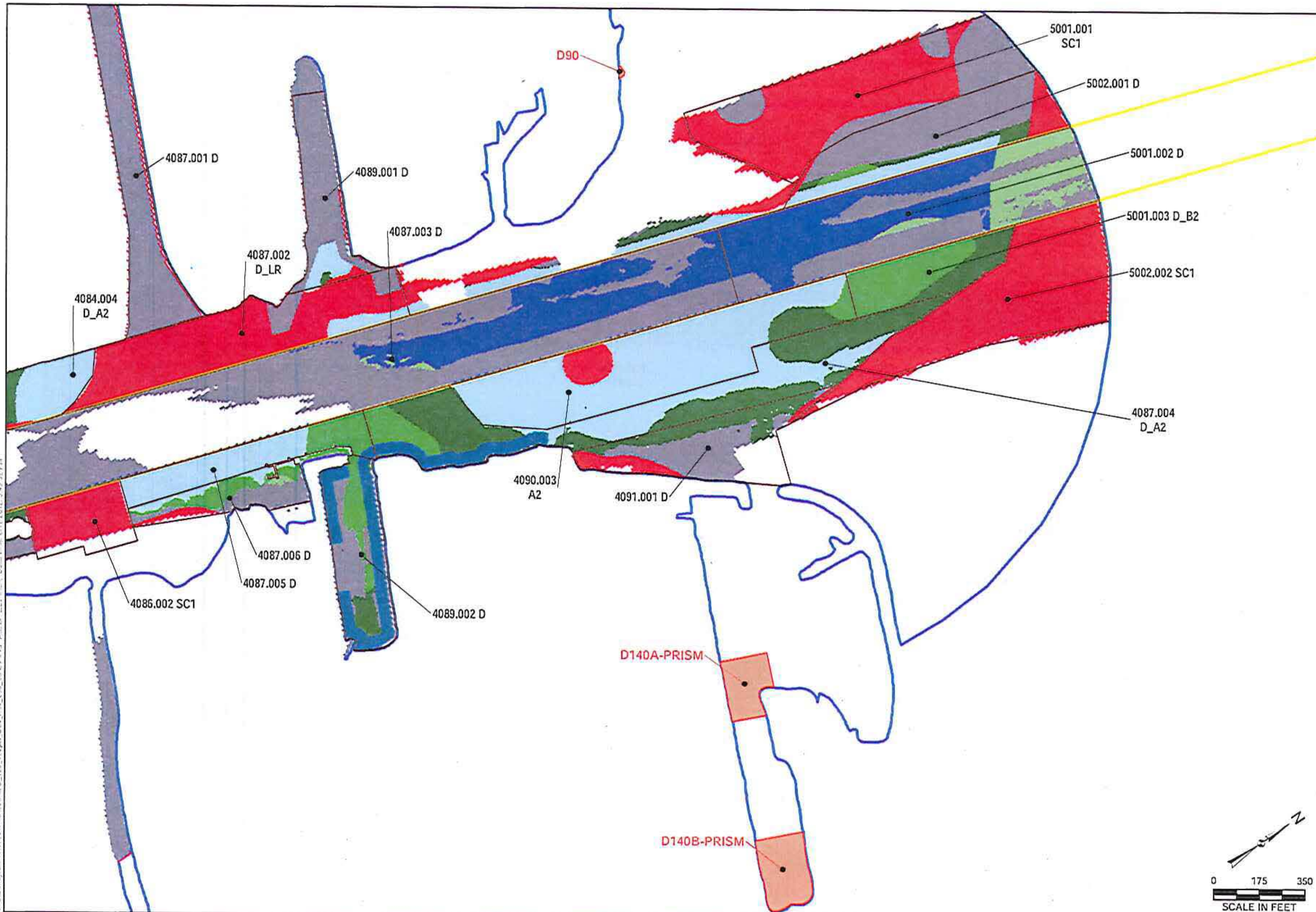
A/OT 100% DESIGN REVIEW - SCENARIO 130
MOSAIC REMEDIAL DESIGN FORECAST
(L = 1.75FT, AVG. CONCENTRATION BREAK POINT = 6.0 PPM)

LOWER FOX RIVER, GREEN BAY, WISCONSIN

FIGURE NO. 207

DATE: 6/11/12


REMEDY AREA
LLC POLYGONS OUTSIDE FIK FOOTPRINT
WATERLINE
NEATLINE DREDGE
DC-C1
DC-B2
DC-A2
DC-A1
SAND COVER S1
CAP C1
CAP B2
CAP A3
CAP A2
5001.001 SC1
D90
5002.001 D
5001.002 D
4087.001 D
4089.001 D
4087.003 D
4087.002 D_LR
4084.004 D_A2
4084.001 D
4082.001 SC1
4081.001 D
4087.004 D_A2
4090.003 A2
4091.001 D
4087.006 D
4089.002 D
4087.005 D
5002.002 SC1
4084.003 SC1
4085.001 D
4086.002 SC1
D136C
D136B
D75
D140A-PRISM
D140B-PRISM
0
175
350
SCALE IN FEET
A/OT 100% DESIGN REVIEW - SCENARIO 130
MOSAIC REMEDIAL DESIGN FORECAST
(L = 1.75FT, AVG. CONCENTRATION BREAK POINT = 6.0 PPM)
LOWER FOX RIVER, GREEN BAY, WISCONSIN
FIGURE NO. 208
DATE: 6/11/12

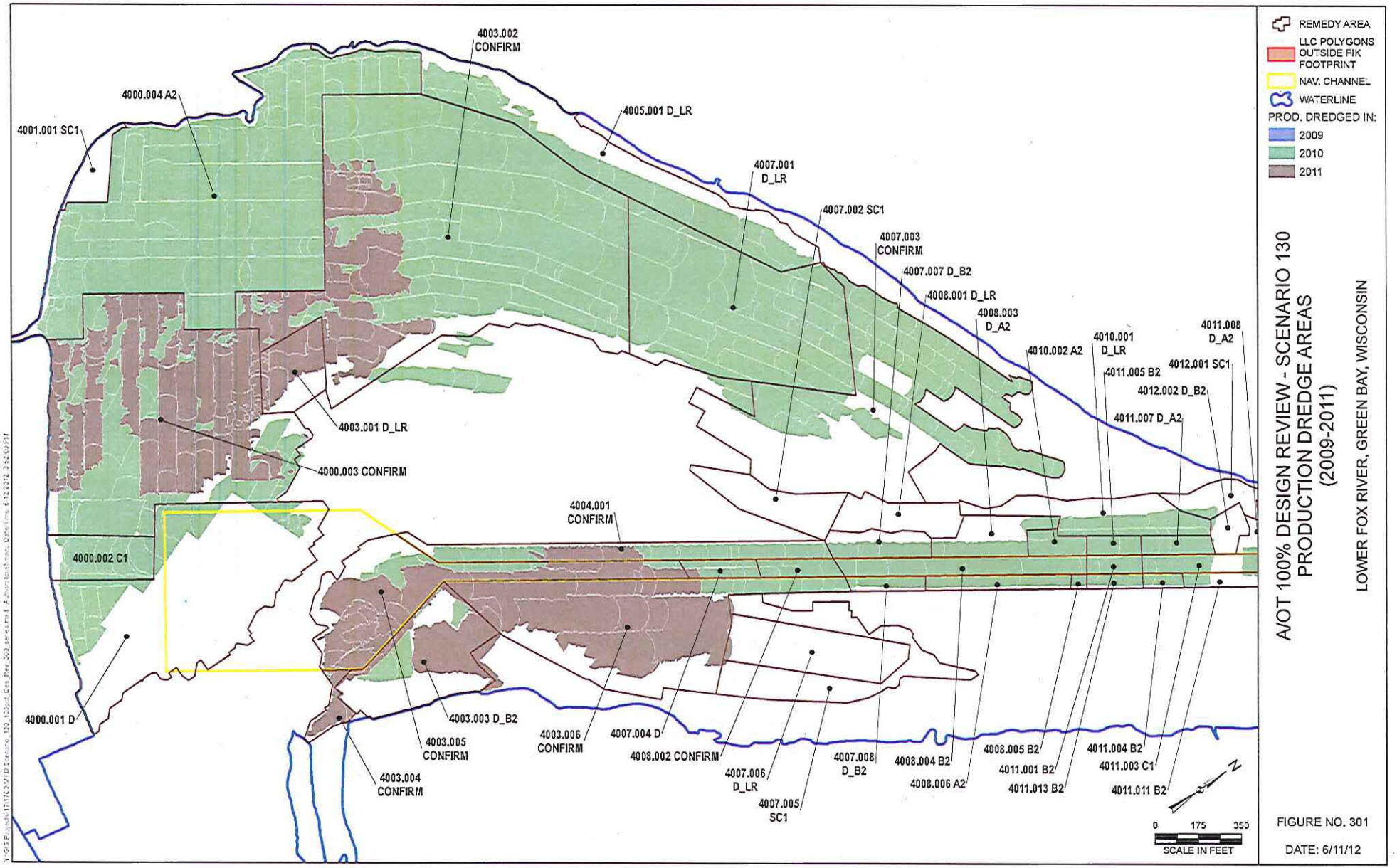


A/OT 100% DESIGN REVIEW - SCENARIO 130
MOSAIC REMEDIAL DESIGN FORECAST
(L = 1.75FT, AVG. CONCENTRATION BREAK POINT = 6.0 PPM)

LOWER FOX RIVER, GREEN BAY, WISCONSIN

FIGURE NO. 209

DATE: 6/11/12

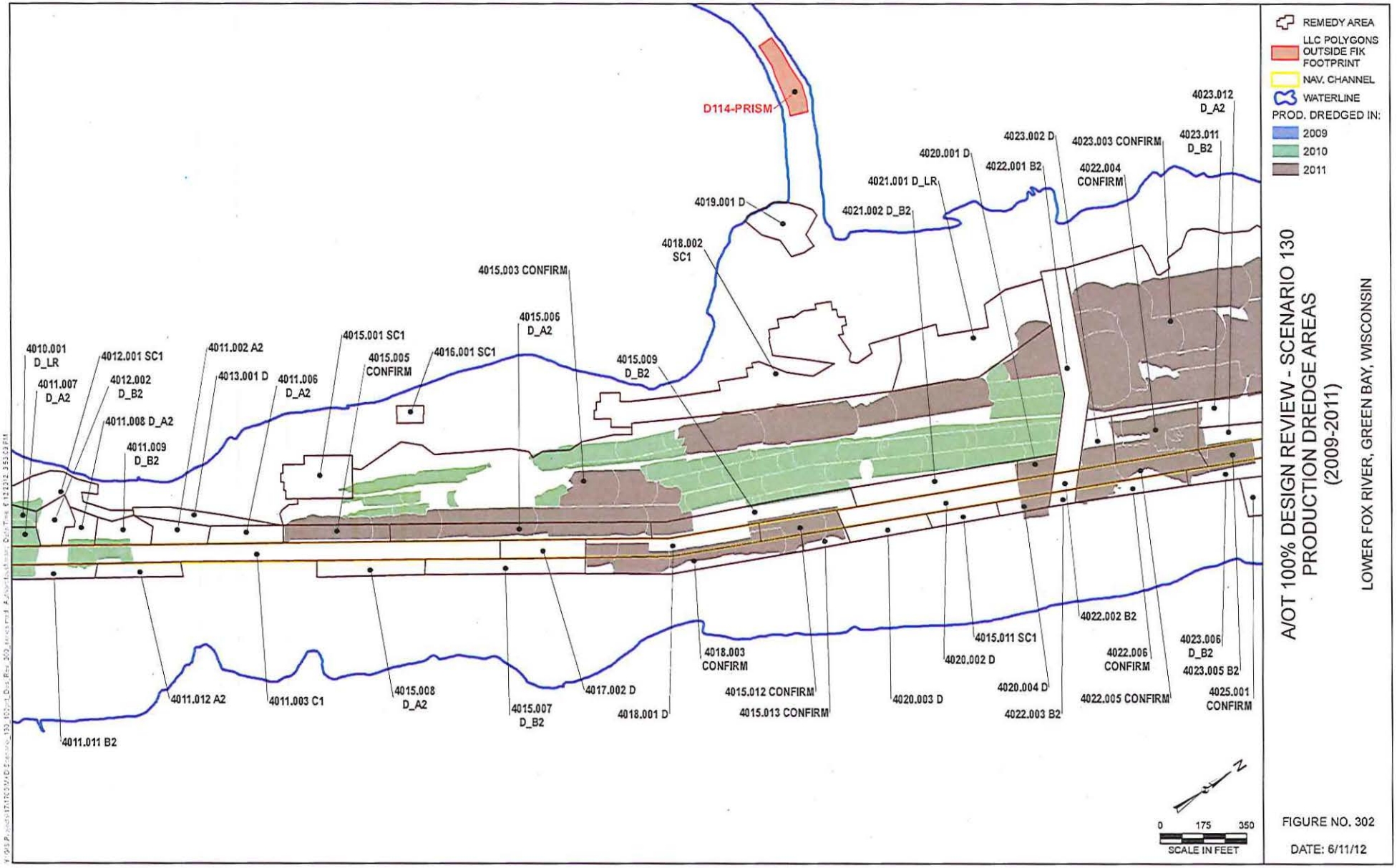


A/OT 100% DESIGN REVIEW - SCENARIO 130 PRODUCTION DREDGE AREAS (2009-2011)

LOWER FOX RIVER, GREEN BAY, WISCONSIN

FIGURE NO. 301

DATE: 6/11/12

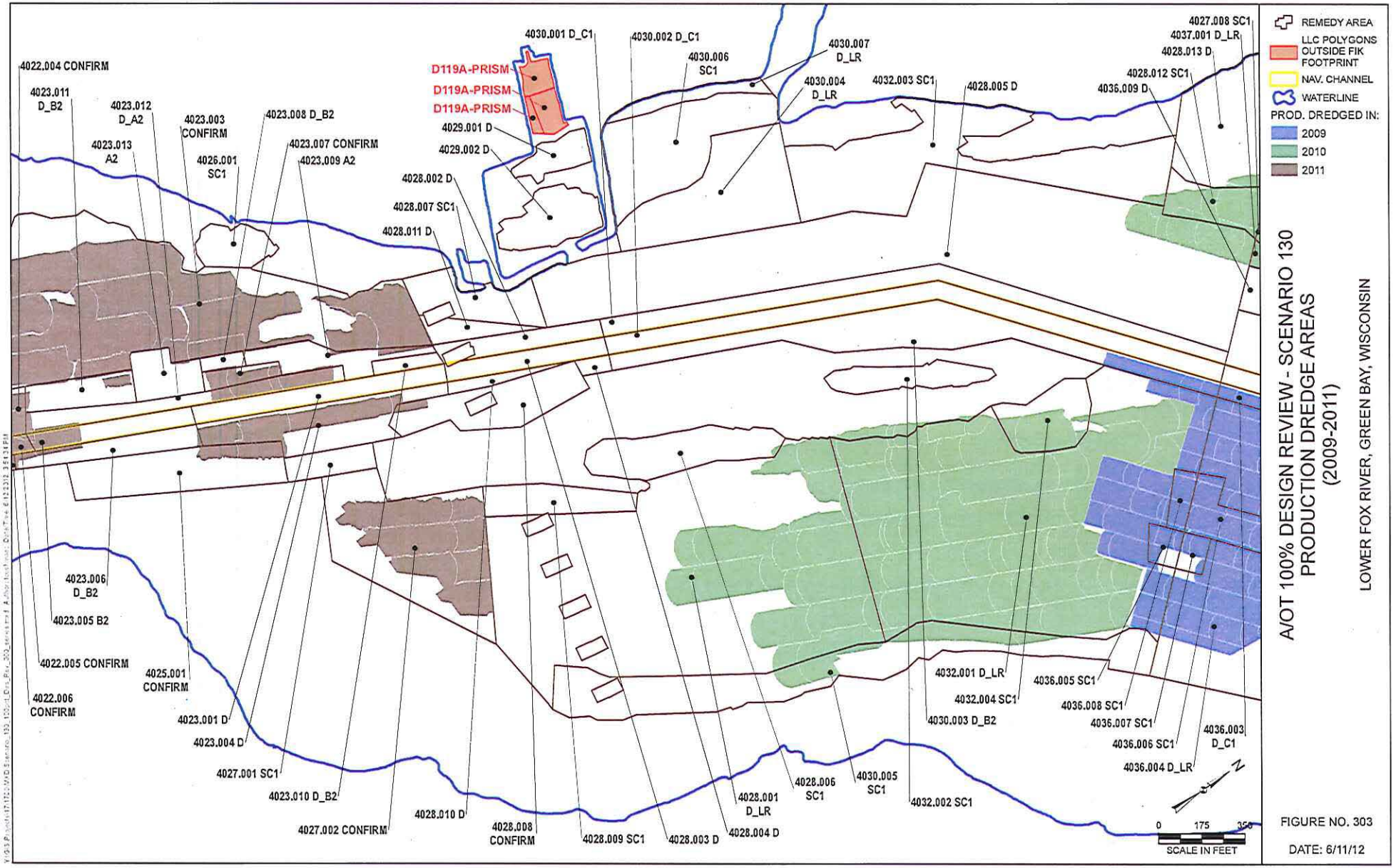


A/OT 100% DESIGN REVIEW - SCENARIO 130
PRODUCTION DREDGE AREAS
(2009-2011)

LOWER FOX RIVER, GREEN BAY, WISCONSIN

FIGURE NO. 302

DATE: 6/11/12

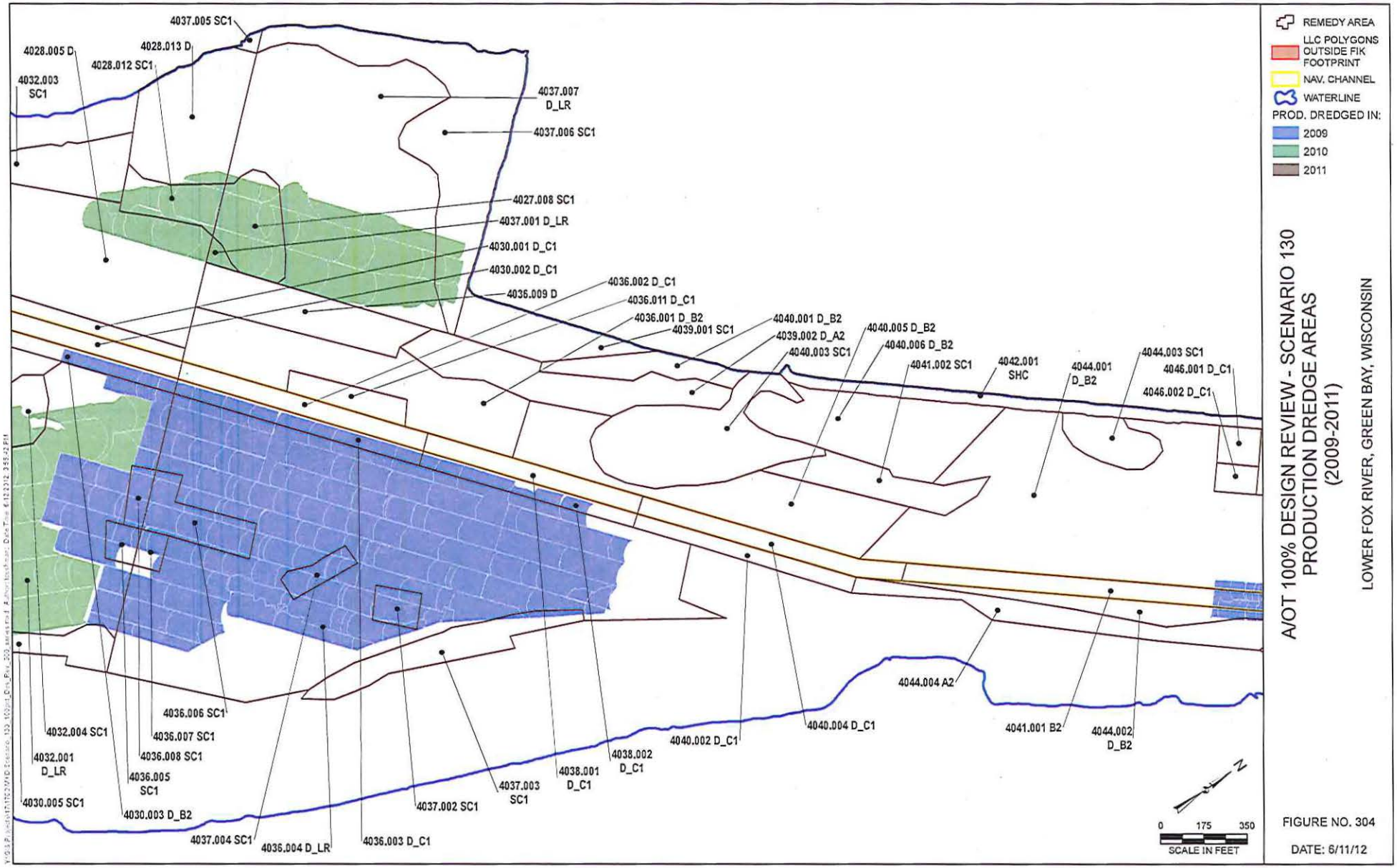


A/OT 100% DESIGN REVIEW - SCENARIO 130
PRODUCTION DREDGE AREAS
(2009-2011)

LOWER FOX RIVER, GREEN BAY, WISCONSIN

FIGURE NO. 303

DATE: 6/11/12

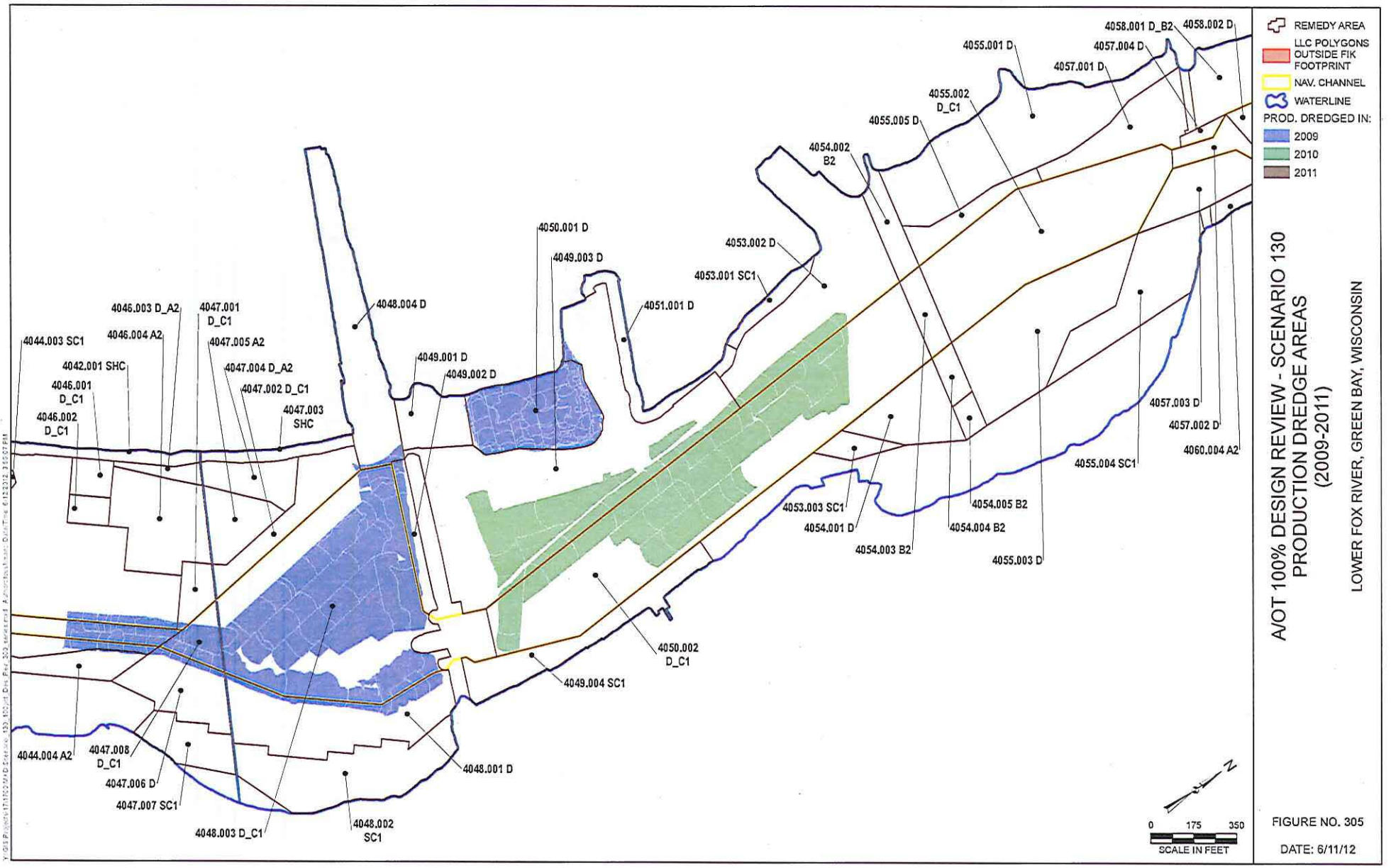


A/OT 100% DESIGN REVIEW - SCENARIO 130
PRODUCTION DREDGE AREAS
(2009-2011)

LOWER FOX RIVER, GREEN BAY, WISCONSIN

FIGURE NO. 304

DATE: 6/11/12

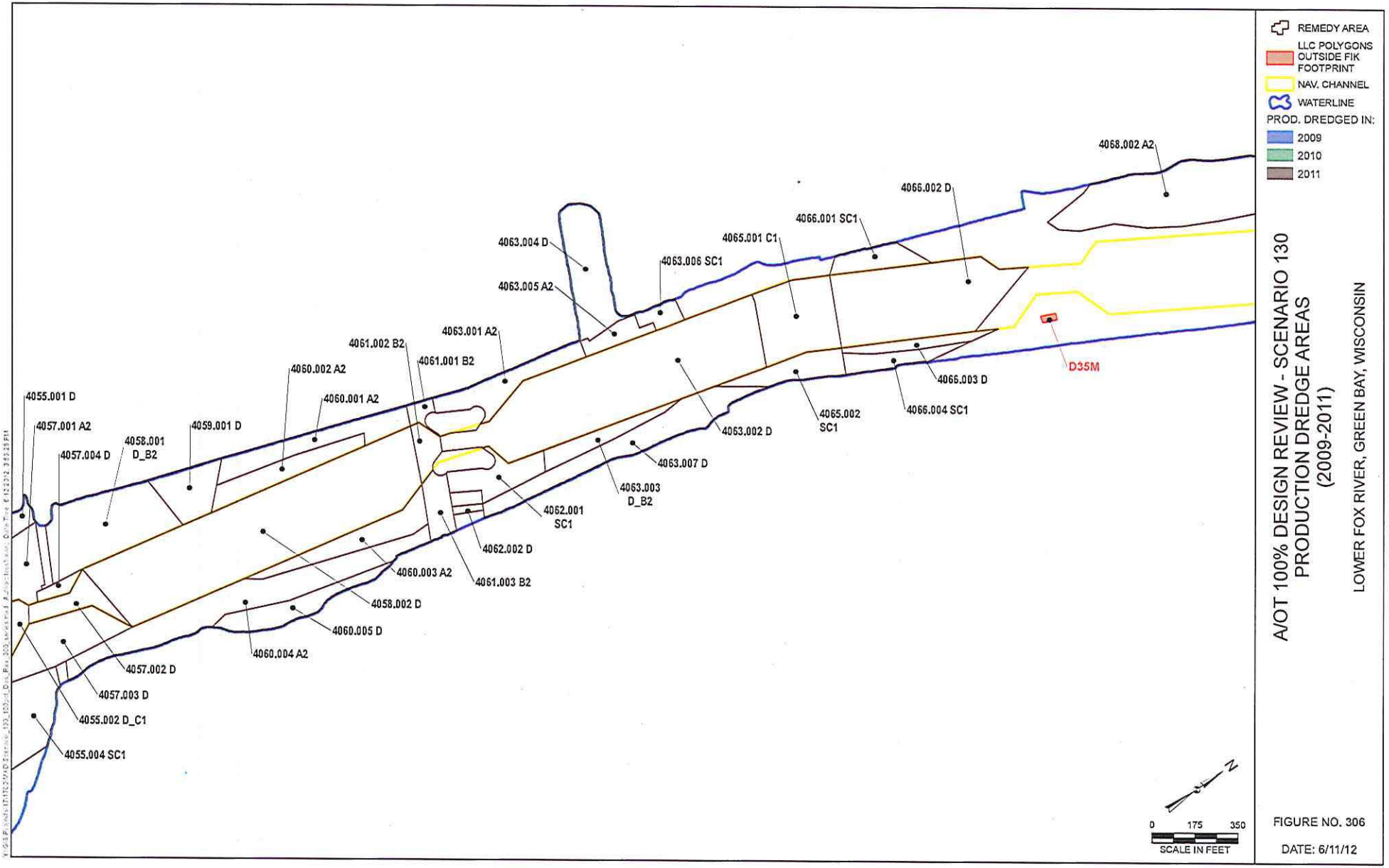


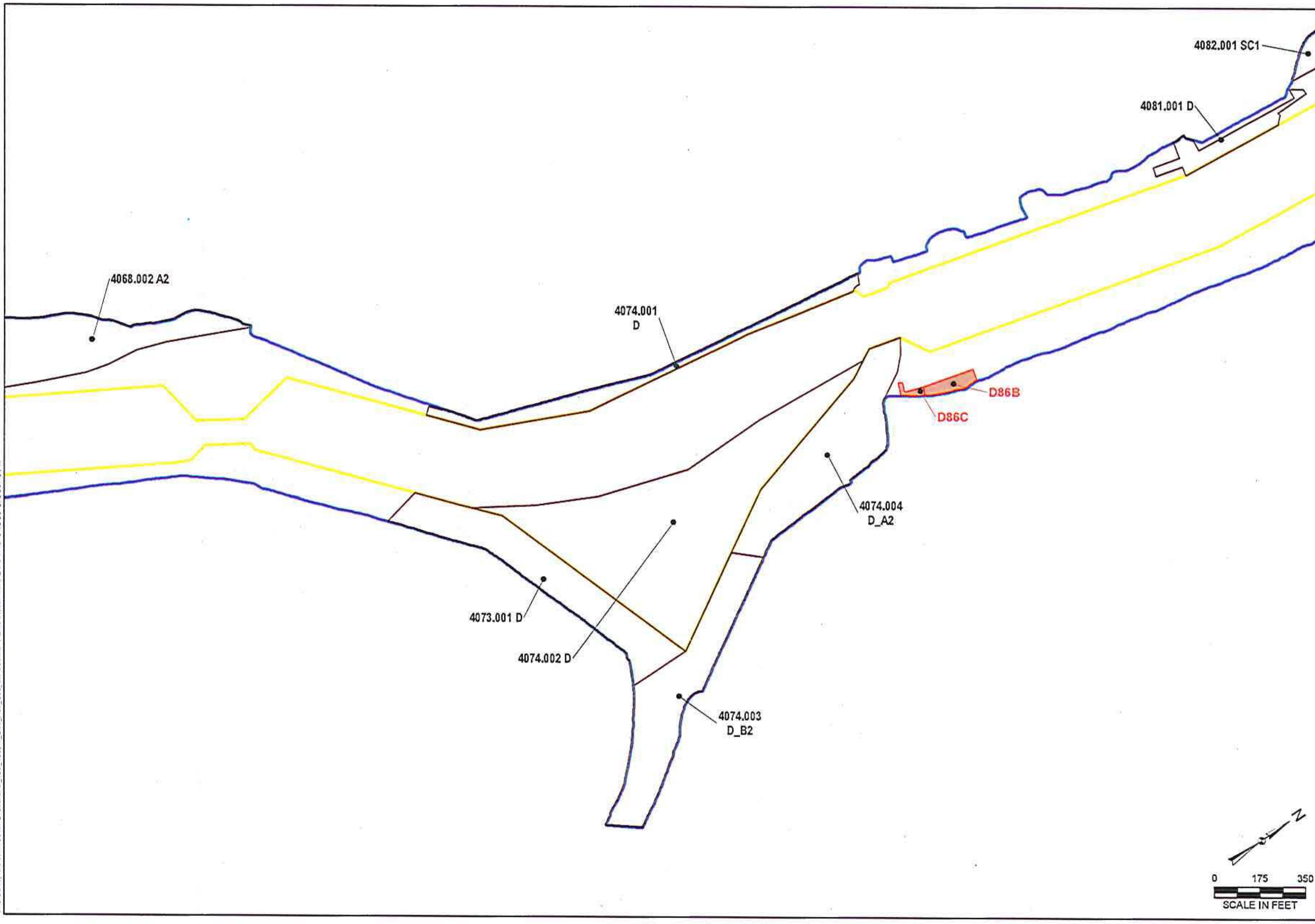
A/OT 100% DESIGN REVIEW - SCENARIO 130 PRODUCTION DREDGE AREAS (2009-2011)

LOWER FOX RIVER, GREEN BAY, WISCONSIN

FIGURE NO. 305

DATE: 6/11/12


REMEDY AREA
LLC POLYGONS OUTSIDE FIK FOOTPRINT
NAV. CHANNEL
WATERLINE
PROD. DREDGED IN:
2009
2010
2011
4068.002 A2
4066.002 D
4066.001 SC1
4065.001 C1
4063.004 D
4063.006 SC1
4063.005 A2
4063.001 A2
4061.002 B2
4061.001 B2
4060.002 A2
4060.001 A2
4059.001 D
4058.001 D_B2
4057.004 D
4057.001 A2
4055.001 D
D35M
4066.003 D
4066.004 SC1
4065.002 SC1
4063.002 D
4063.007 D
4063.003 D_B2
4062.001 SC1
4062.002 D
4061.003 B2
4060.003 A2
4058.002 D
4060.005 D
4060.004 A2
4057.002 D
4057.003 D
4055.002 D_C1
4055.004 SC1
0
175
350
SCALE IN FEET
A/OT 100% DESIGN REVIEW - SCENARIO 130
PRODUCTION DREDGE AREAS
(2009-2011)
LOWER FOX RIVER, GREEN BAY, WISCONSIN
FIGURE NO. 306
DATE: 6/11/12



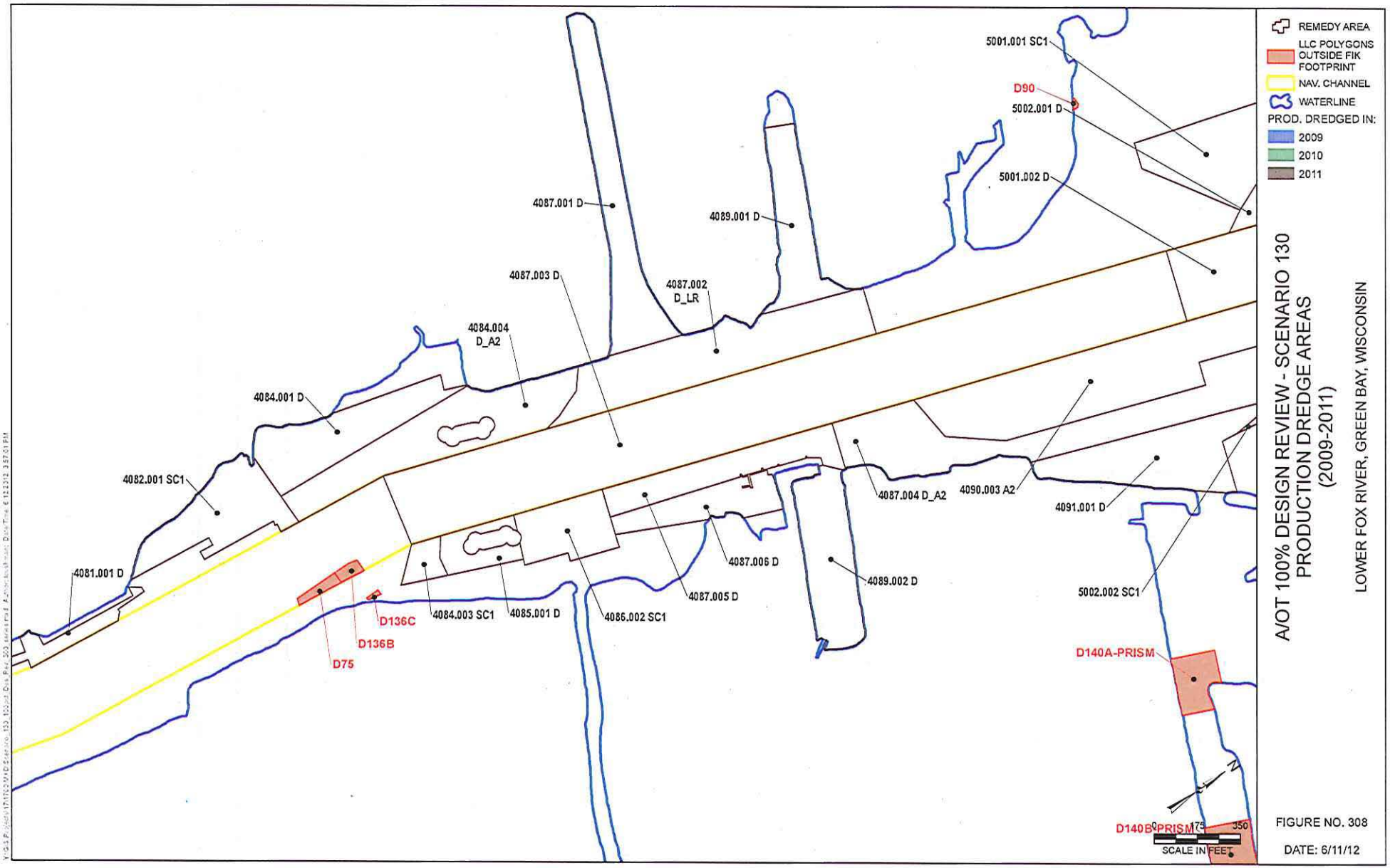
REMEDY AREA
LLC POLYGONS OUTSIDE FIK FOOTPRINT
NAV. CHANNEL
WATERLINE
PROD. DREDGED IN:
2009
2010
2011

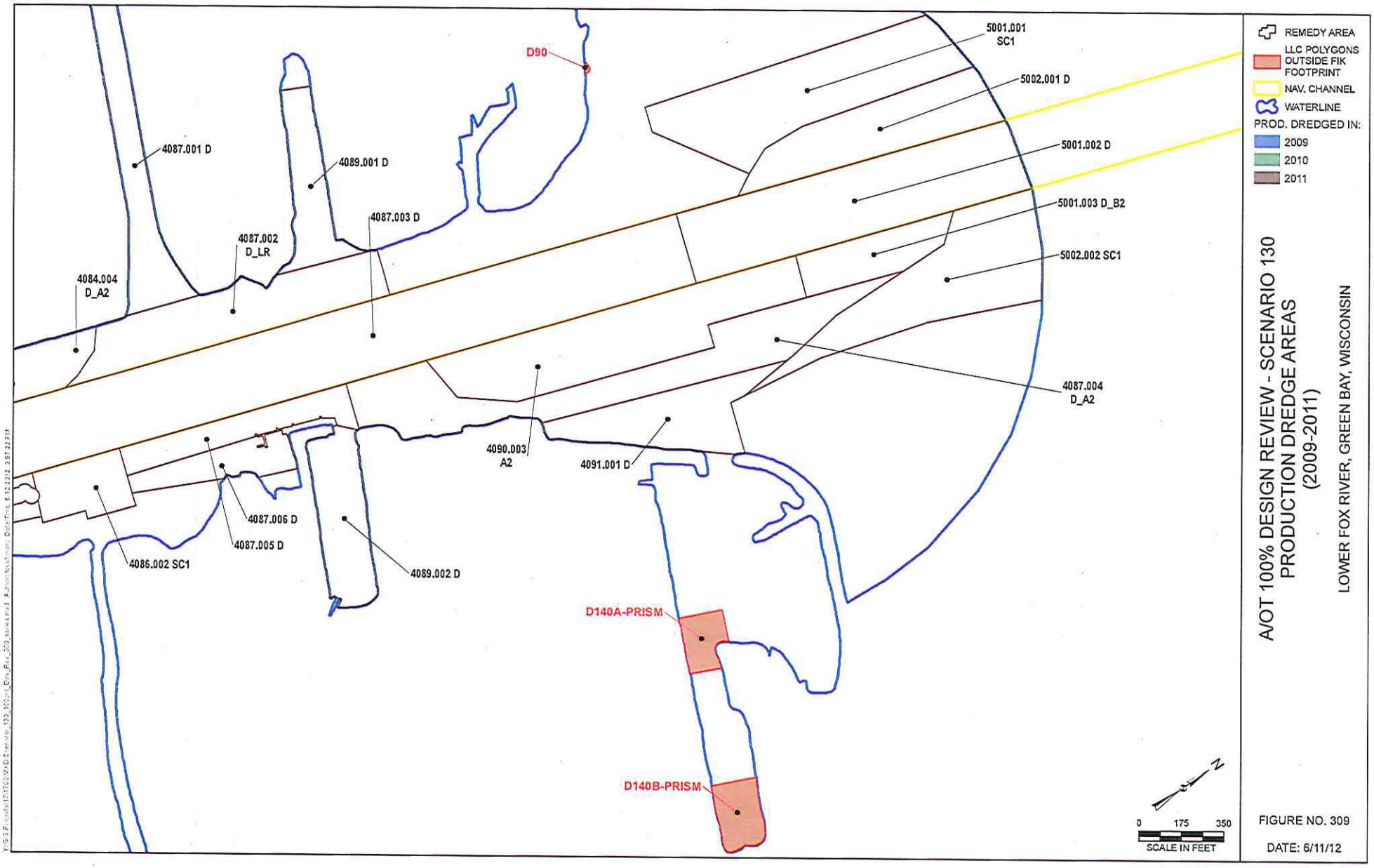
A/OT 100% DESIGN REVIEW - SCENARIO 130
PRODUCTION DREDGE AREAS
(2009-2011)

LOWER FOX RIVER, GREEN BAY, WISCONSIN

FIGURE NO. 307

DATE: 6/11/12


REMEDY AREA
LLC POLYGONS OUTSIDE FIK FOOTPRINT
NAV. CHANNEL
WATERLINE
PROD. DREDGED IN:
2009
2010
2011
5001.001 SC1
D90
5002.001 D
5001.002 D
4087.001 D
4089.001 D
4087.003 D
4087.002 D_LR
4084.004 D_A2
4084.001 D
4082.001 SC1
4081.001 D
4087.004 D_A2
4090.003 A2
4091.001 D
4087.006 D
4089.002 D
4087.005 D
5002.002 SC1
D136C
D136B
D75
4084.003 SC1
4085.001 D
4086.002 SC1
D140A-PRISM
D140B-PRISM
0
175
350
SCALE IN FEET
A/OT 100% DESIGN REVIEW - SCENARIO 130
PRODUCTION DREDGE AREAS
(2009-2011)
LOWER FOX RIVER, GREEN BAY, WISCONSIN
FIGURE NO. 308
DATE: 6/11/12



A/OT 100% DESIGN REVIEW - SCENARIO 130
PRODUCTION DREDGE AREAS
(2009-2011)

LOWER FOX RIVER, GREEN BAY, WISCONSIN

FIGURE NO. 309

DATE: 6/11/12