

**OU4
2014 DREDGE AREAS AND
RESIDUAL DREDGE AREAS 1 OF 7**

LEGEND

- 2014 DREDGE AREA
- 2014 RESIDUAL DREDGE AREA
- 2014 DREDGE AREA
- DMU BOUNDARY
- DMU NUMBER

SCALE (1" = 300')



SITE NOTES

1. HORIZONTAL CONTROL IS REFERENCED TO THE NAD83 WISCONSIN STATE PLANE COORDINATE SYSTEM (WISCONSIN CENTRAL ZONE)
2. VERTICAL DATUM IS REFERENCED TO NAVD 88.
3. AREAS SHOWN REPRESENT THE DREDGE LIMITS DERIVED FROM THE DESIGN FILES FROM ANCHOR QEA.

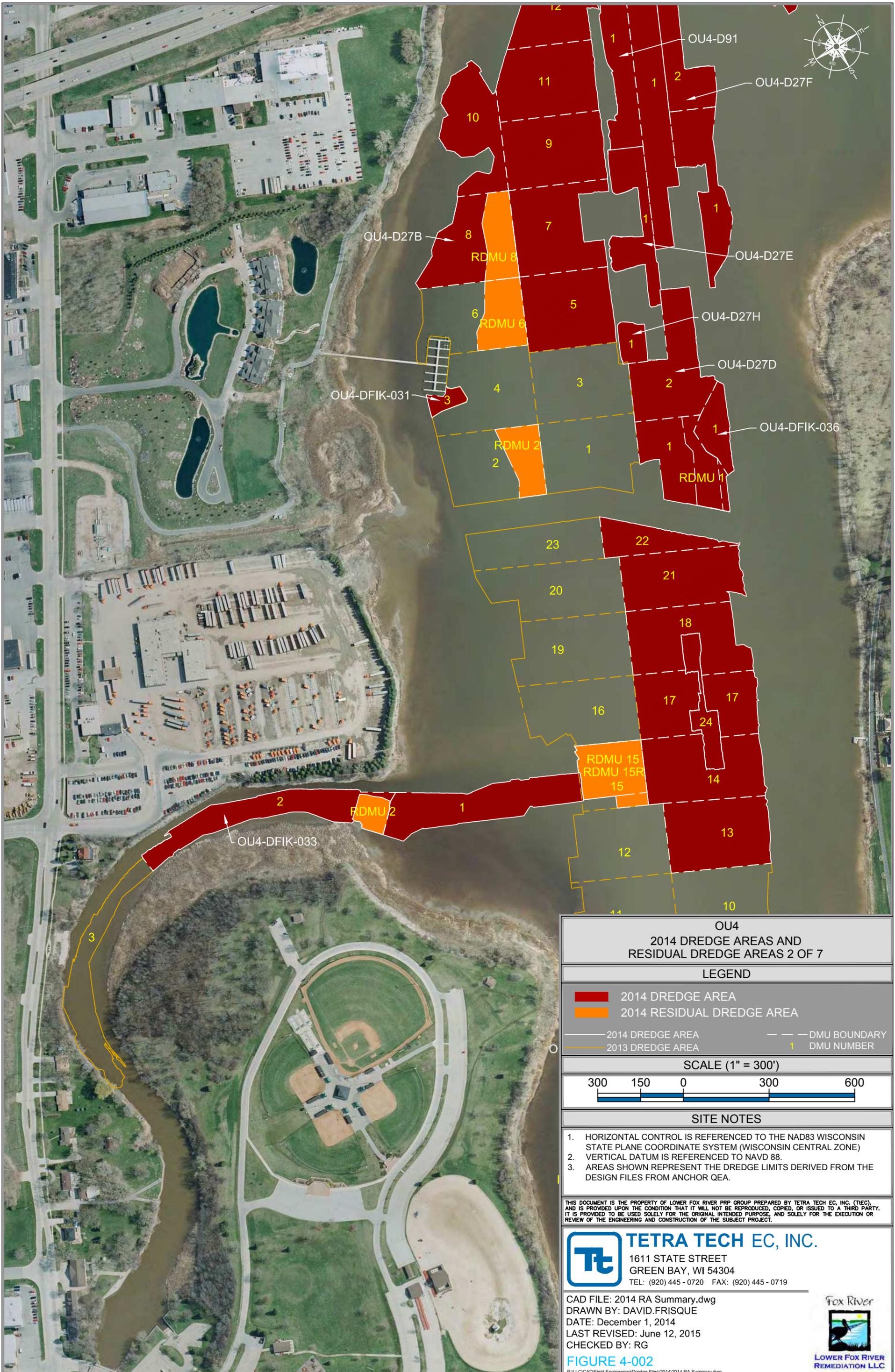
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TETRA TECH EC, INC.
 1611 STATE STREET
 GREEN BAY, WI 54304
 TEL: (920) 445 - 0720 FAX: (920) 445 - 0719

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 DRAWN BY: DAVID.FRISQUE
 DATE: December 1, 2014
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FIGURE 4-001





**OU4
2014 DREDGE AREAS AND
RESIDUAL DREDGE AREAS 2 OF 7**

LEGEND

- 2014 DREDGE AREA
- 2014 RESIDUAL DREDGE AREA
- 2014 DREDGE AREA
- DMU BOUNDARY
- DMU NUMBER

SCALE (1" = 300')



SITE NOTES

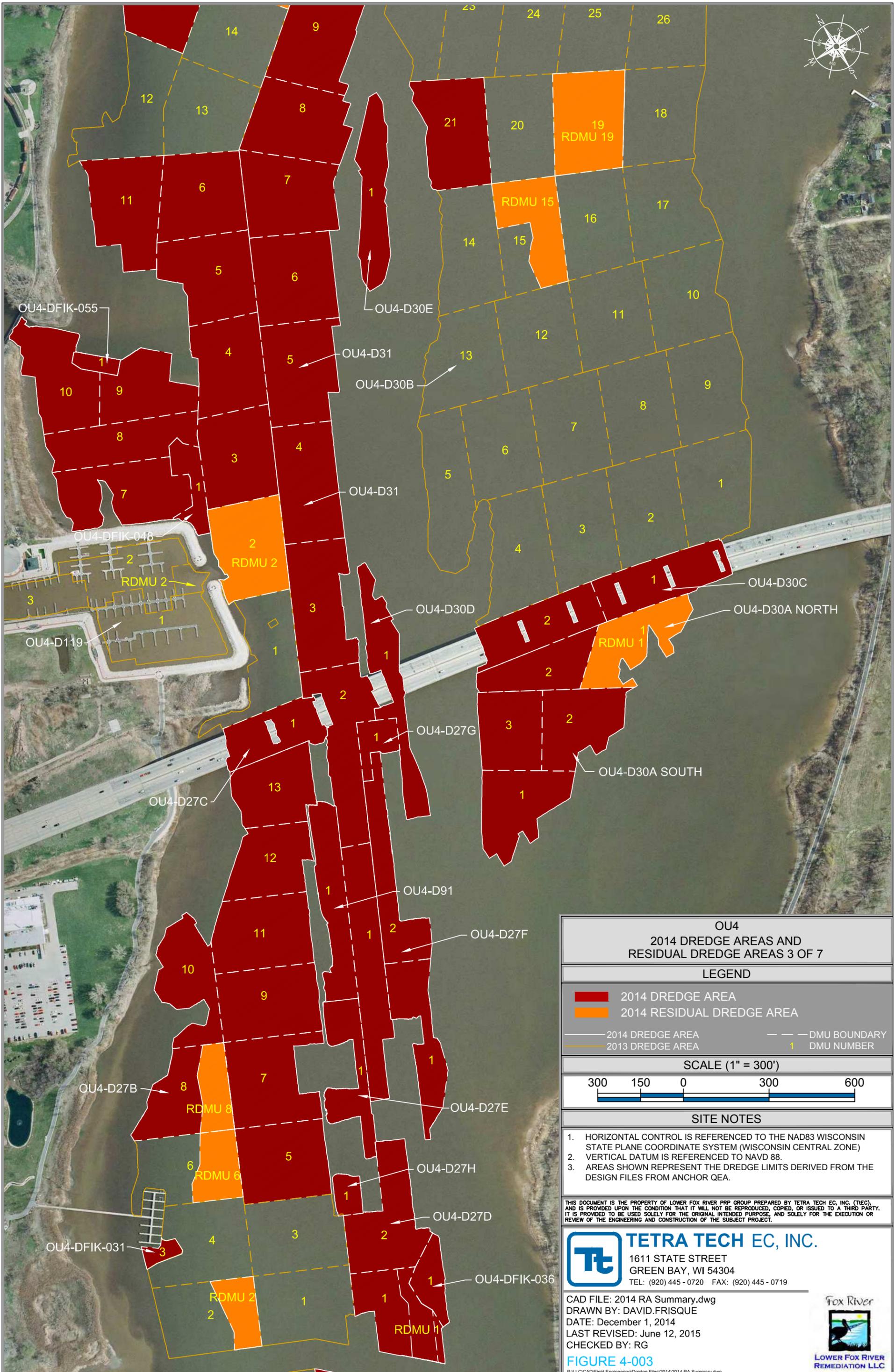
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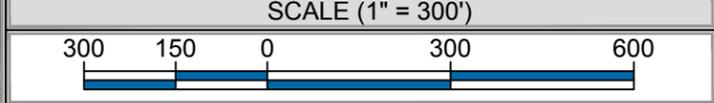
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**OU4
2014 DREDGE AREAS AND
RESIDUAL DREDGE AREAS 3 OF 7**

LEGEND	
	2014 DREDGE AREA
	2014 RESIDUAL DREDGE AREA
	2014 DREDGE AREA DMU BOUNDARY
	2013 DREDGE AREA DMU BOUNDARY
1	DMU NUMBER



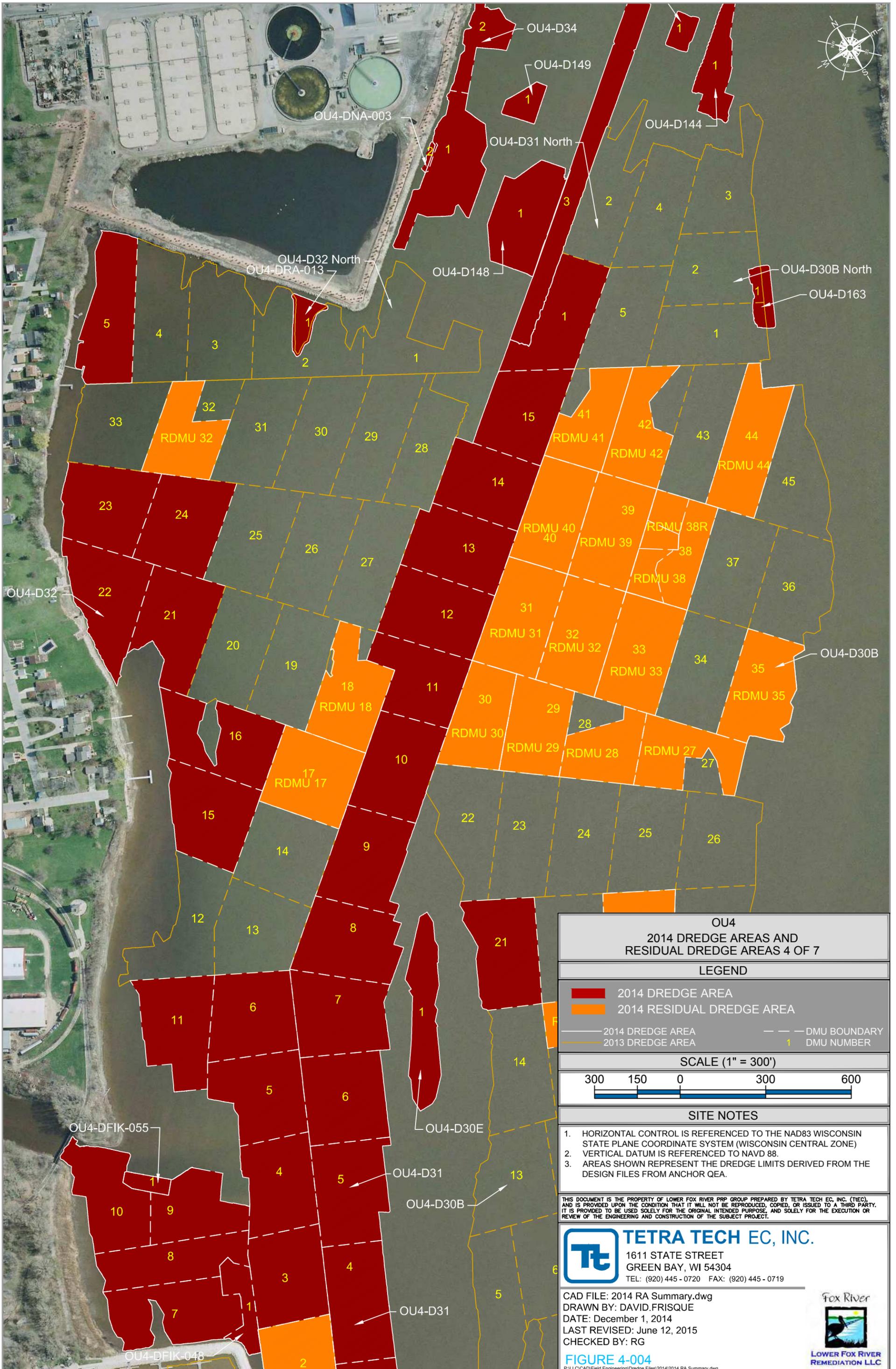
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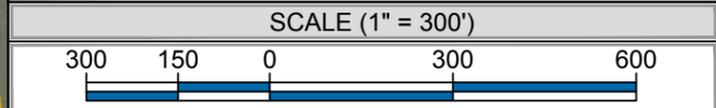
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**OU4
2014 DREDGE AREAS AND
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LEGEND	
	2014 DREDGE AREA
	2014 RESIDUAL DREDGE AREA
	2014 DREDGE AREA
	2013 DREDGE AREA
	DMU BOUNDARY
1	DMU NUMBER



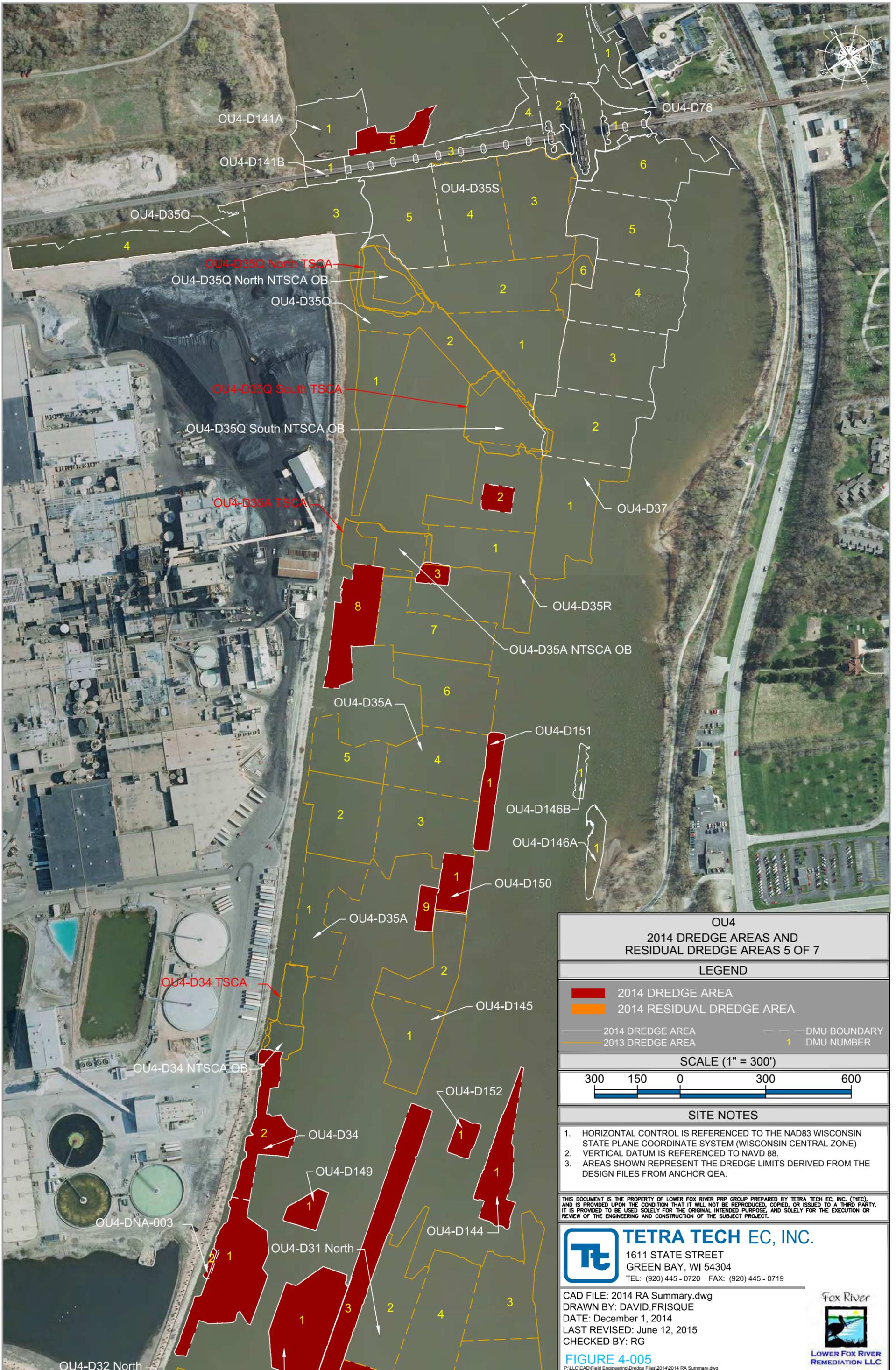
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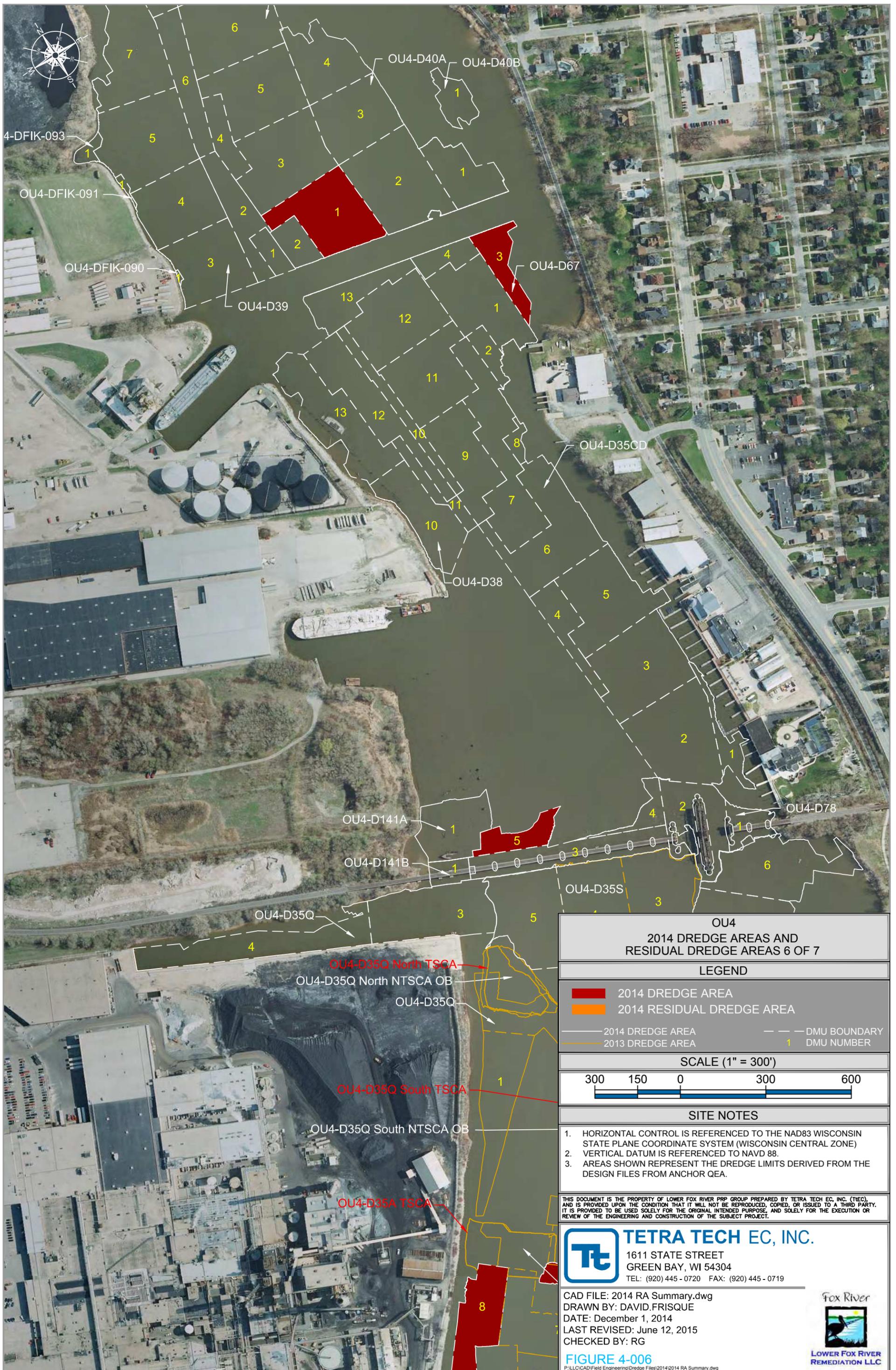
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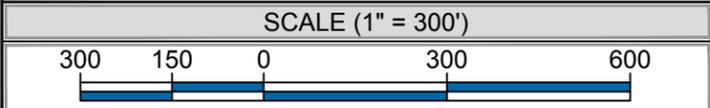






**OU4
2014 DREDGE AREAS AND
RESIDUAL DREDGE AREAS 6 OF 7**

LEGEND	
	2014 DREDGE AREA
	2014 RESIDUAL DREDGE AREA
	2014 DREDGE AREA
	2013 DREDGE AREA
	DMU BOUNDARY
	DMU NUMBER



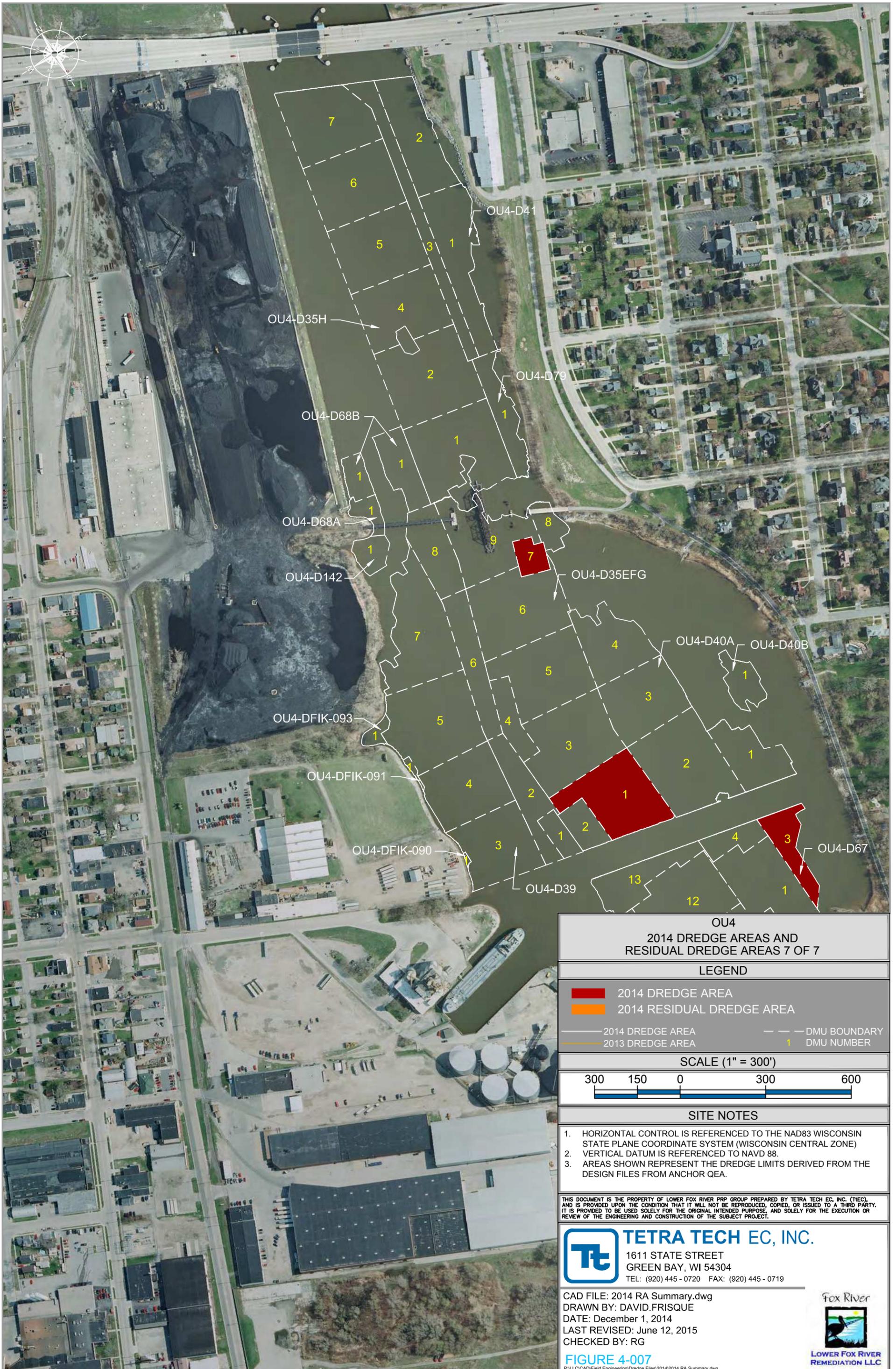
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**OU4
2014 DREDGE AREAS AND
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LEGEND

- 2014 DREDGE AREA
- 2014 RESIDUAL DREDGE AREA
- 2014 DREDGE AREA
- 2013 DREDGE AREA
- DMU BOUNDARY
- DMU NUMBER

SCALE (1" = 300')



SITE NOTES

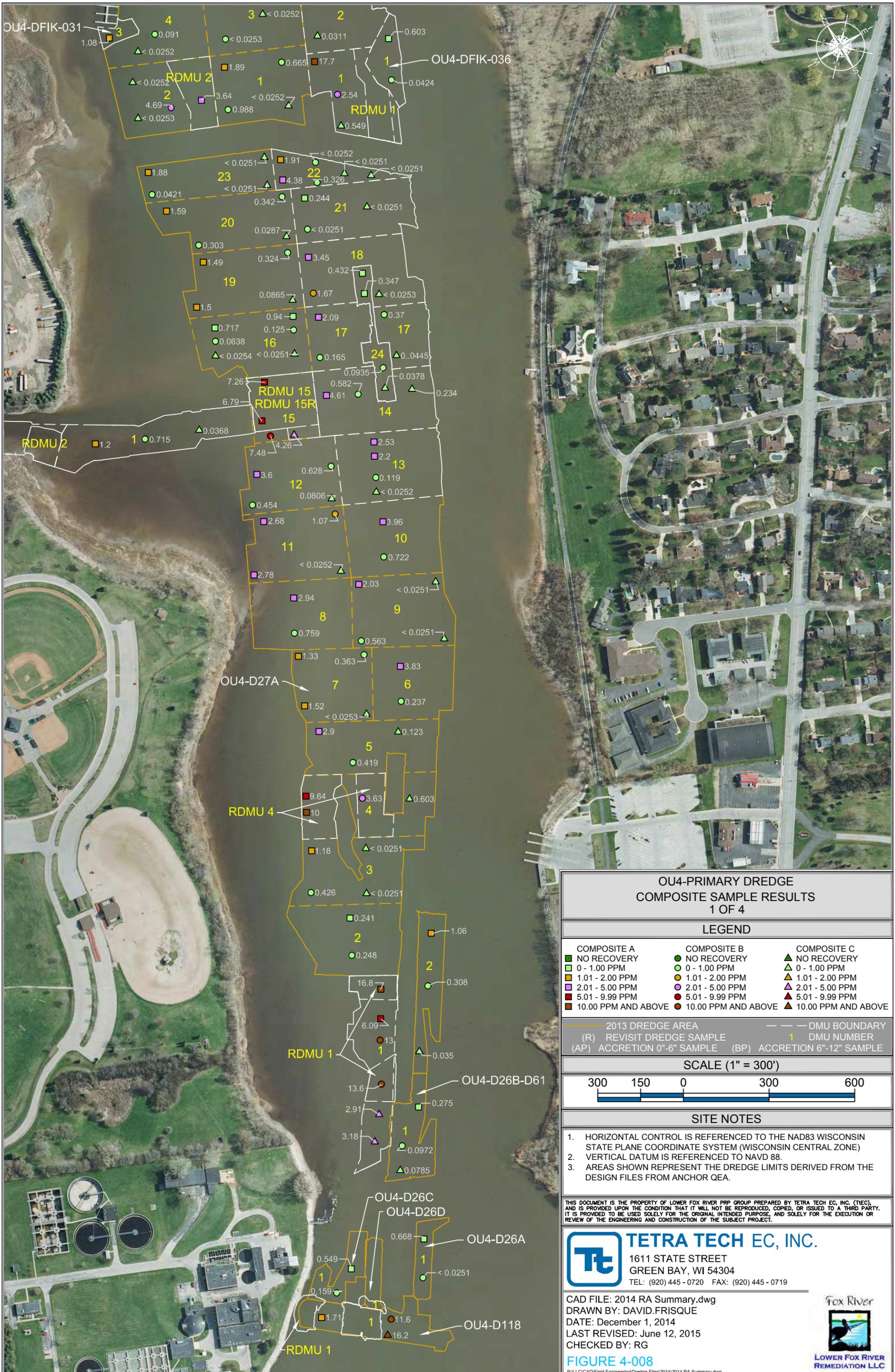
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**OU4-PRIMARY DREDGE
COMPOSITE SAMPLE RESULTS
1 OF 4**

LEGEND

COMPOSITE A	COMPOSITE B	COMPOSITE C
■ NO RECOVERY	● NO RECOVERY	▲ NO RECOVERY
■ 0 - 1.00 PPM	● 0 - 1.00 PPM	▲ 0 - 1.00 PPM
■ 1.01 - 2.00 PPM	● 1.01 - 2.00 PPM	▲ 1.01 - 2.00 PPM
■ 2.01 - 5.00 PPM	● 2.01 - 5.00 PPM	▲ 2.01 - 5.00 PPM
■ 5.01 - 9.99 PPM	● 5.01 - 9.99 PPM	▲ 5.01 - 9.99 PPM
■ 10.00 PPM AND ABOVE	● 10.00 PPM AND ABOVE	▲ 10.00 PPM AND ABOVE

— 2013 DREDGE AREA	— DMU BOUNDARY
(R) REVISIT DREDGE SAMPLE	1 DMU NUMBER
(AP) ACCRETION 0"-6" SAMPLE	(BP) ACCRETION 6"-12" SAMPLE

SCALE (1" = 300')



SITE NOTES

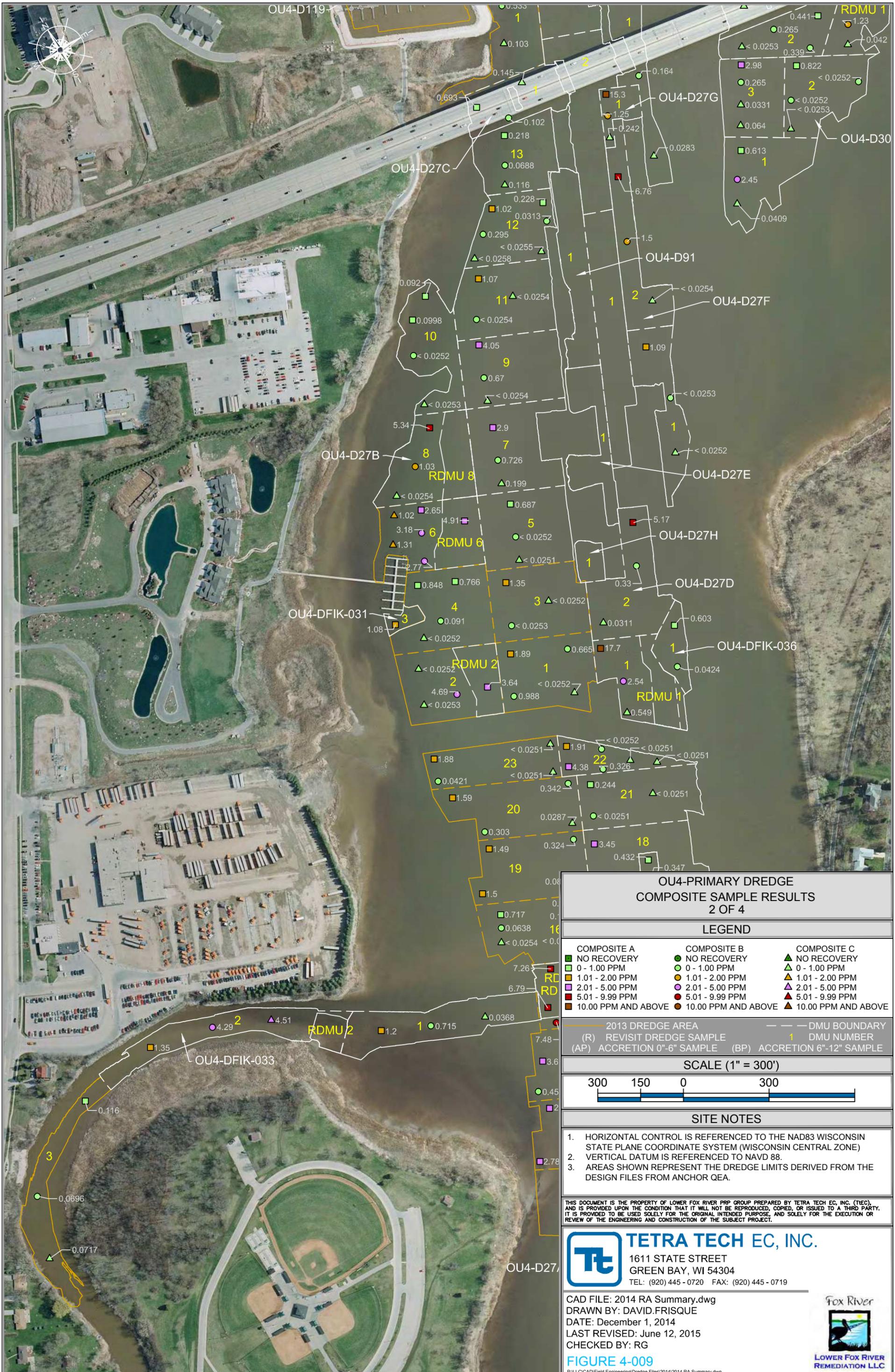
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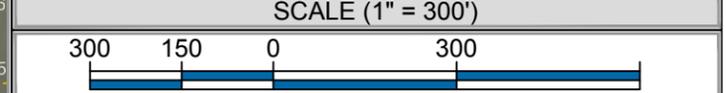


**OU4-PRIMARY DREDGE
COMPOSITE SAMPLE RESULTS
2 OF 4**

LEGEND

COMPOSITE A	COMPOSITE B	COMPOSITE C
NO RECOVERY	NO RECOVERY	NO RECOVERY
0 - 1.00 PPM	0 - 1.00 PPM	0 - 1.00 PPM
1.01 - 2.00 PPM	1.01 - 2.00 PPM	1.01 - 2.00 PPM
2.01 - 5.00 PPM	2.01 - 5.00 PPM	2.01 - 5.00 PPM
5.01 - 9.99 PPM	5.01 - 9.99 PPM	5.01 - 9.99 PPM
10.00 PPM AND ABOVE	10.00 PPM AND ABOVE	10.00 PPM AND ABOVE

(R) REVISIT DREDGE SAMPLE	(BP) ACCRETION 6"-12" SAMPLE
(AP) ACCRETION 0"-6" SAMPLE	



SITE NOTES

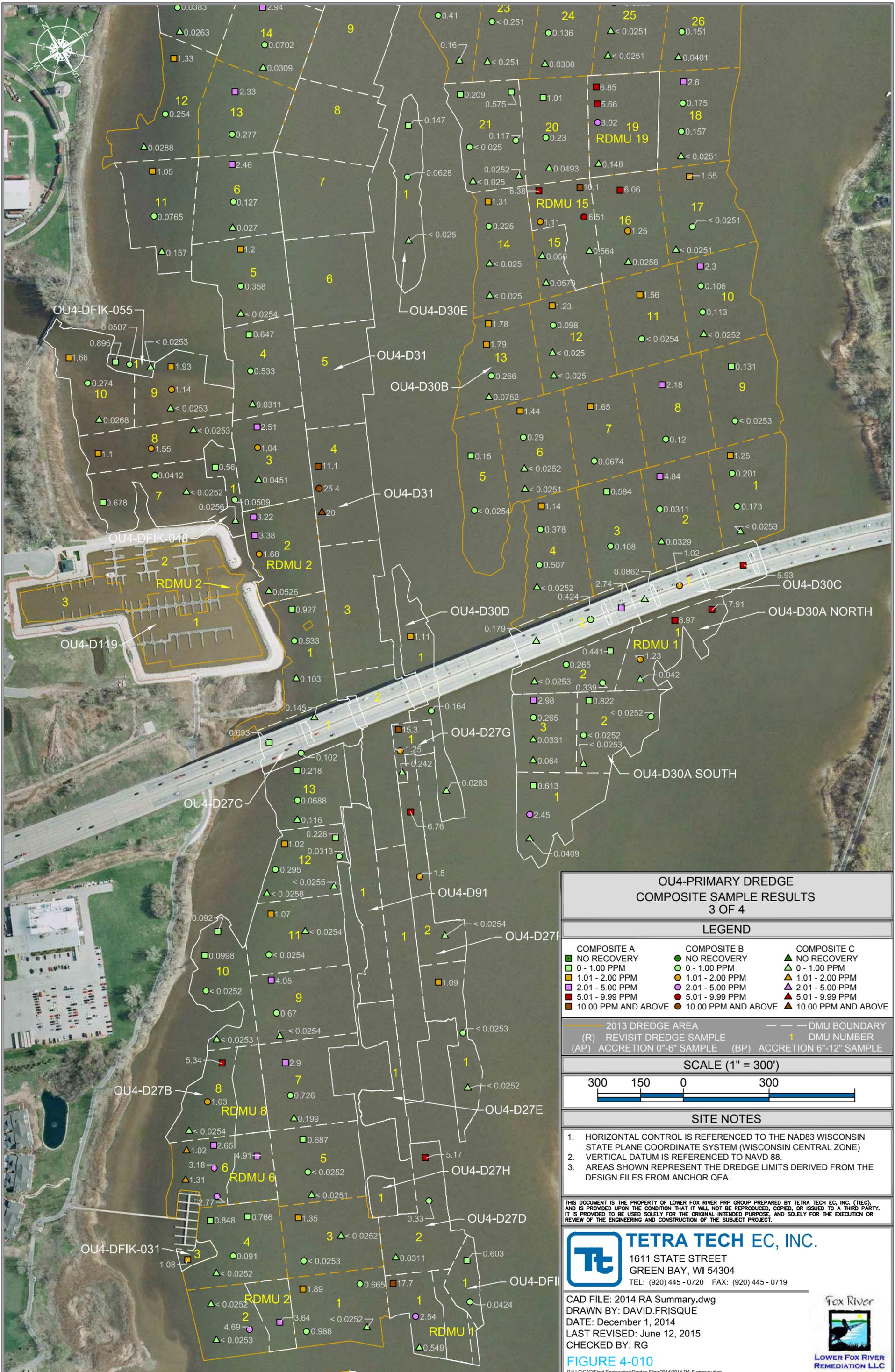
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FIGURE 4-009
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**OU4-PRIMARY DREDGE
COMPOSITE SAMPLE RESULTS
3 OF 4**

LEGEND

COMPOSITE A	COMPOSITE B	COMPOSITE C
■ NO RECOVERY	● NO RECOVERY	▲ NO RECOVERY
■ 0 - 1.00 PPM	● 0 - 1.00 PPM	▲ 0 - 1.00 PPM
■ 1.01 - 2.00 PPM	● 1.01 - 2.00 PPM	▲ 1.01 - 2.00 PPM
■ 2.01 - 5.00 PPM	● 2.01 - 5.00 PPM	▲ 2.01 - 5.00 PPM
■ 5.01 - 9.99 PPM	● 5.01 - 9.99 PPM	▲ 5.01 - 9.99 PPM
■ 10.00 PPM AND ABOVE	● 10.00 PPM AND ABOVE	▲ 10.00 PPM AND ABOVE

— 2013 DREDGE AREA
(R) REVISIT DREDGE SAMPLE
(AP) ACCRETION 0"-6" SAMPLE (BP) ACCRETION 6"-12" SAMPLE

SCALE (1" = 300')



SITE NOTES

- HORIZONTAL CONTROL IS REFERENCED TO THE NAD83 WISCONSIN STATE PLANE COORDINATE SYSTEM (WISCONSIN CENTRAL ZONE)
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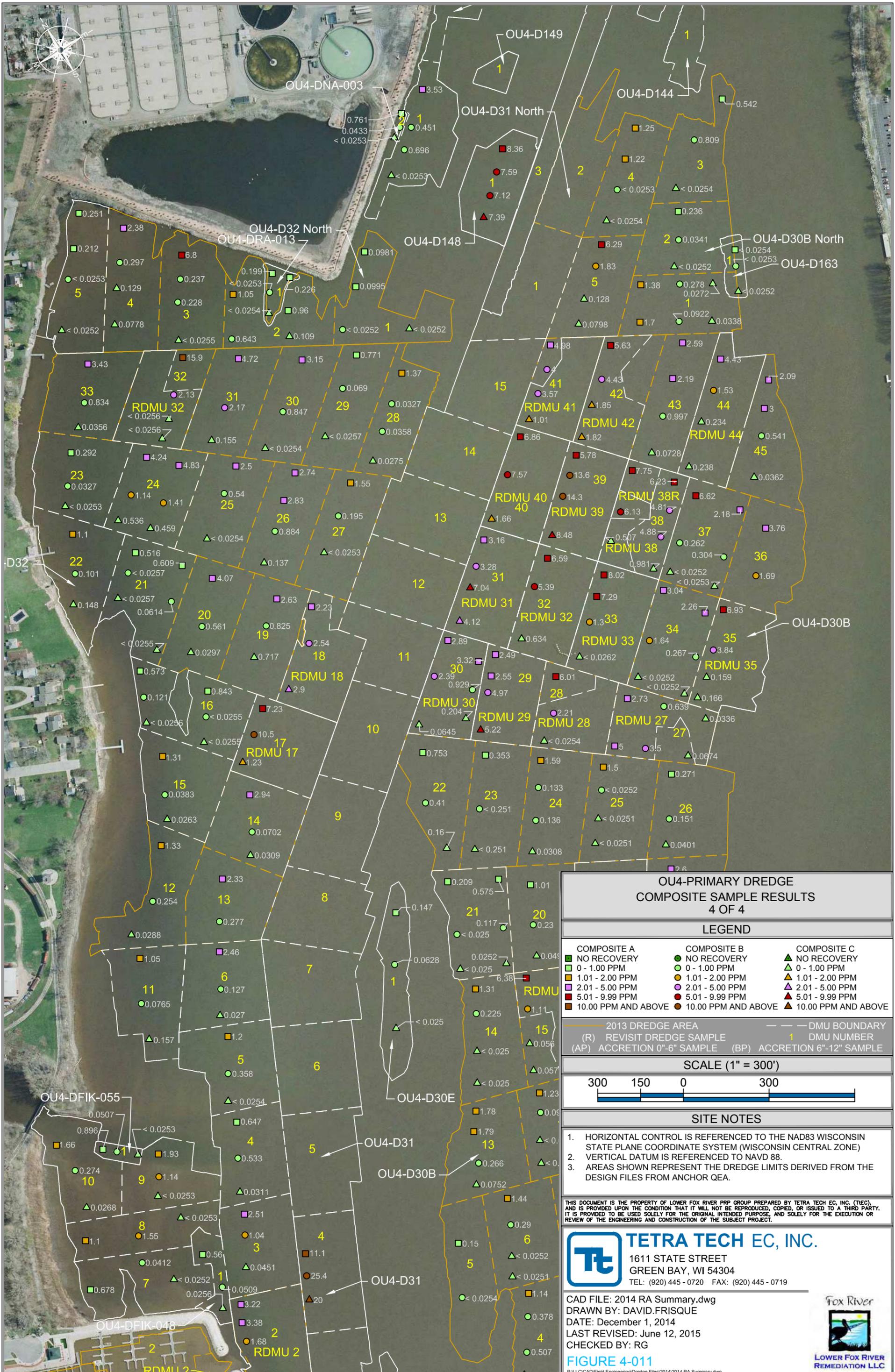
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FIGURE 4-010





**OU4-PRIMARY DREDGE
COMPOSITE SAMPLE RESULTS
4 OF 4**

LEGEND

COMPOSITE A	COMPOSITE B	COMPOSITE C
■ NO RECOVERY	● NO RECOVERY	▲ NO RECOVERY
■ 0 - 1.00 PPM	● 0 - 1.00 PPM	▲ 0 - 1.00 PPM
■ 1.01 - 2.00 PPM	● 1.01 - 2.00 PPM	▲ 1.01 - 2.00 PPM
■ 2.01 - 5.00 PPM	● 2.01 - 5.00 PPM	▲ 2.01 - 5.00 PPM
■ 5.01 - 9.99 PPM	● 5.01 - 9.99 PPM	▲ 5.01 - 9.99 PPM
■ 10.00 PPM AND ABOVE	● 10.00 PPM AND ABOVE	▲ 10.00 PPM AND ABOVE

— 2013 DREDGE AREA	— DMU BOUNDARY
(R) REVISIT DREDGE SAMPLE	1 DMU NUMBER
(AP) ACCRETION 0"-6" SAMPLE	(BP) ACCRETION 6"-12" SAMPLE

SCALE (1" = 300')



SITE NOTES

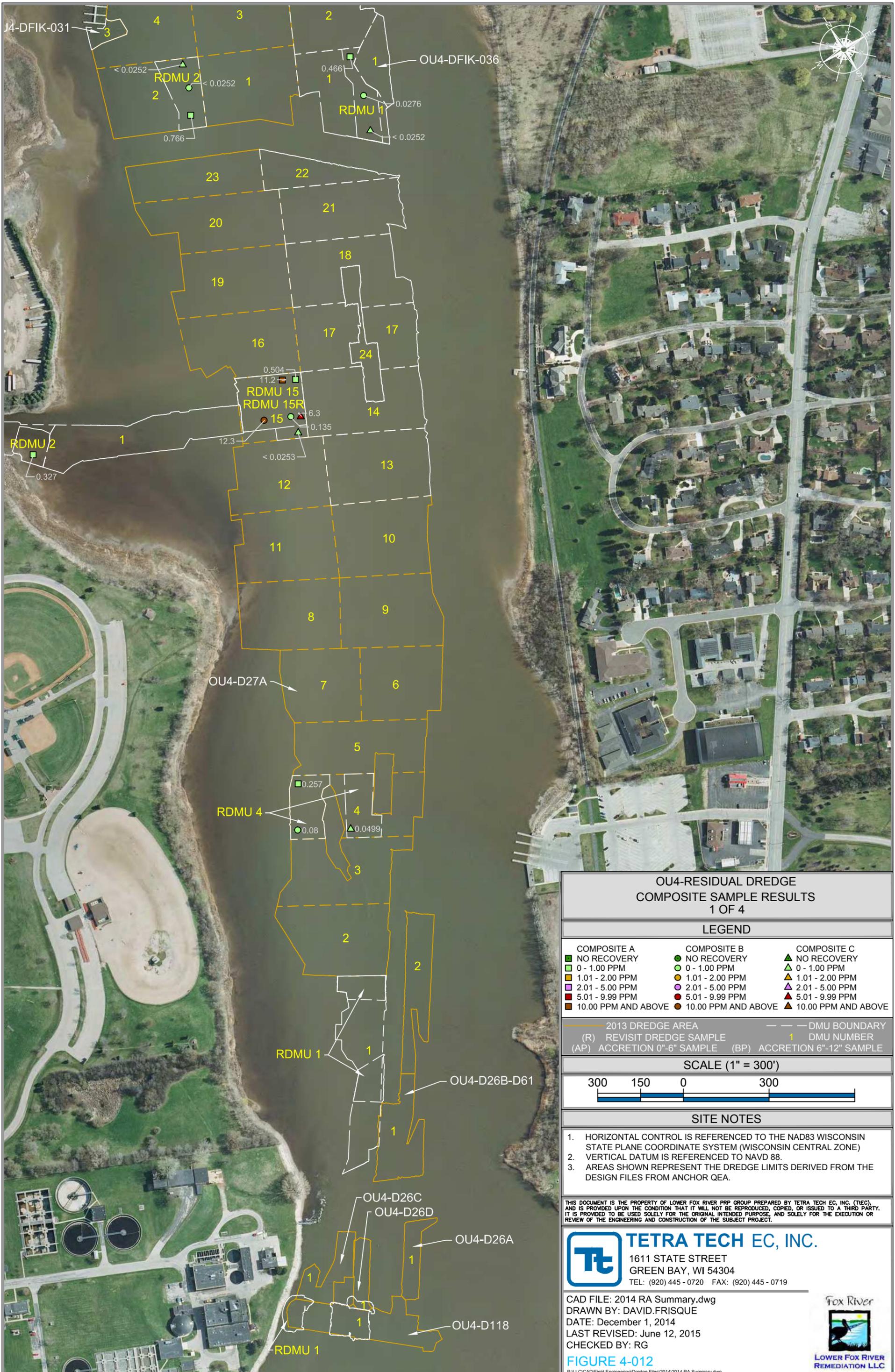
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**OU4-RESIDUAL DREDGE
COMPOSITE SAMPLE RESULTS
1 OF 4**

LEGEND

COMPOSITE A	COMPOSITE B	COMPOSITE C
■ NO RECOVERY	● NO RECOVERY	▲ NO RECOVERY
■ 0 - 1.00 PPM	● 0 - 1.00 PPM	▲ 0 - 1.00 PPM
■ 1.01 - 2.00 PPM	● 1.01 - 2.00 PPM	▲ 1.01 - 2.00 PPM
■ 2.01 - 5.00 PPM	● 2.01 - 5.00 PPM	▲ 2.01 - 5.00 PPM
■ 5.01 - 9.99 PPM	● 5.01 - 9.99 PPM	▲ 5.01 - 9.99 PPM
■ 10.00 PPM AND ABOVE	● 10.00 PPM AND ABOVE	▲ 10.00 PPM AND ABOVE

— 2013 DREDGE AREA	— DMU BOUNDARY
(R) REVISIT DREDGE SAMPLE	1 DMU NUMBER
(AP) ACCRETION 0"-6" SAMPLE	(BP) ACCRETION 6"-12" SAMPLE

SCALE (1" = 300')



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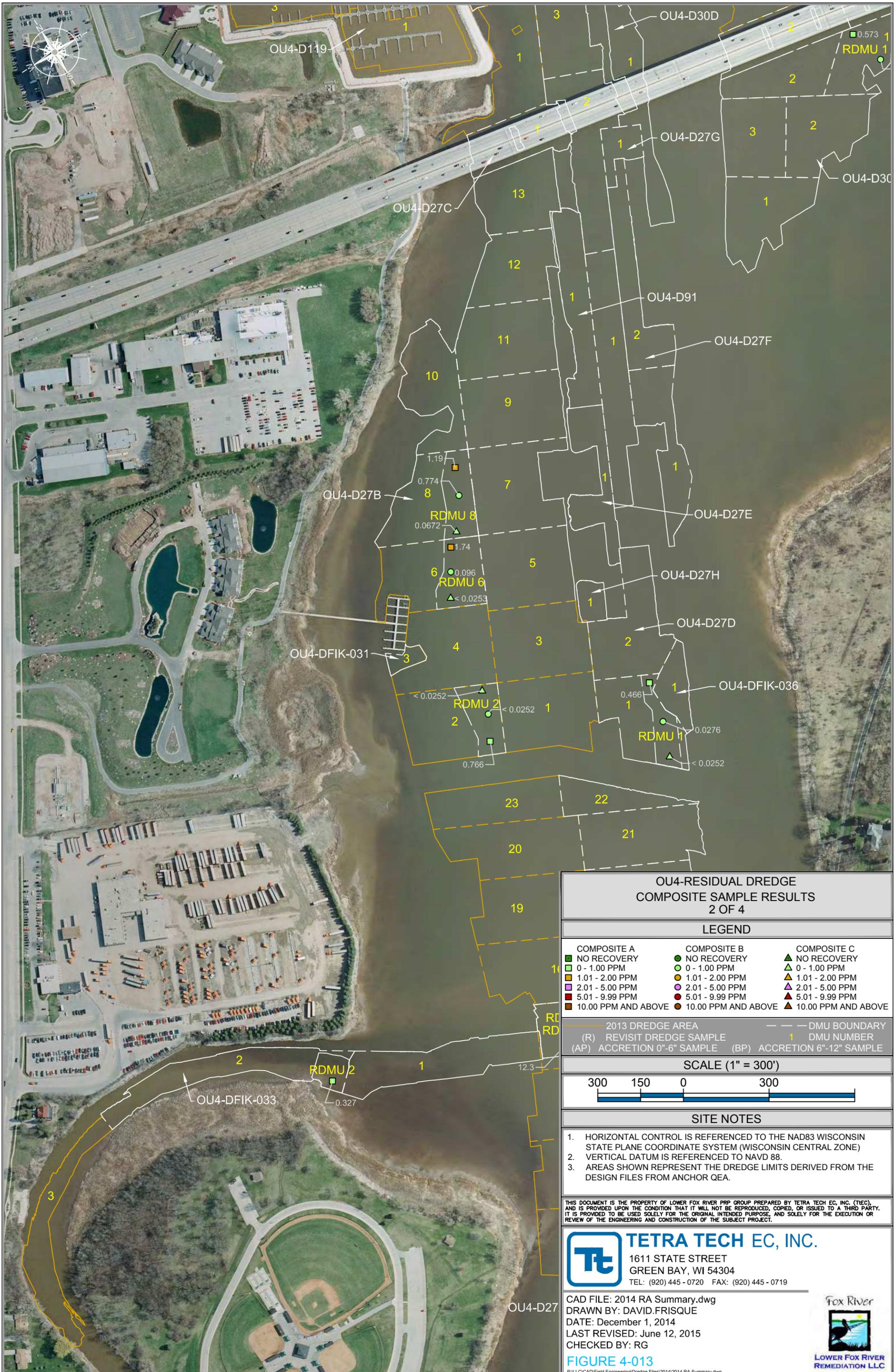
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FIGURE 4-012





**OU4-RESIDUAL DREDGE
COMPOSITE SAMPLE RESULTS
2 OF 4**

LEGEND

COMPOSITE A	COMPOSITE B	COMPOSITE C
■ NO RECOVERY	● NO RECOVERY	▲ NO RECOVERY
■ 0 - 1.00 PPM	● 0 - 1.00 PPM	▲ 0 - 1.00 PPM
■ 1.01 - 2.00 PPM	● 1.01 - 2.00 PPM	▲ 1.01 - 2.00 PPM
■ 2.01 - 5.00 PPM	● 2.01 - 5.00 PPM	▲ 2.01 - 5.00 PPM
■ 5.01 - 9.99 PPM	● 5.01 - 9.99 PPM	▲ 5.01 - 9.99 PPM
■ 10.00 PPM AND ABOVE	● 10.00 PPM AND ABOVE	▲ 10.00 PPM AND ABOVE

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(R) REVISIT DREDGE SAMPLE	1 DMU NUMBER
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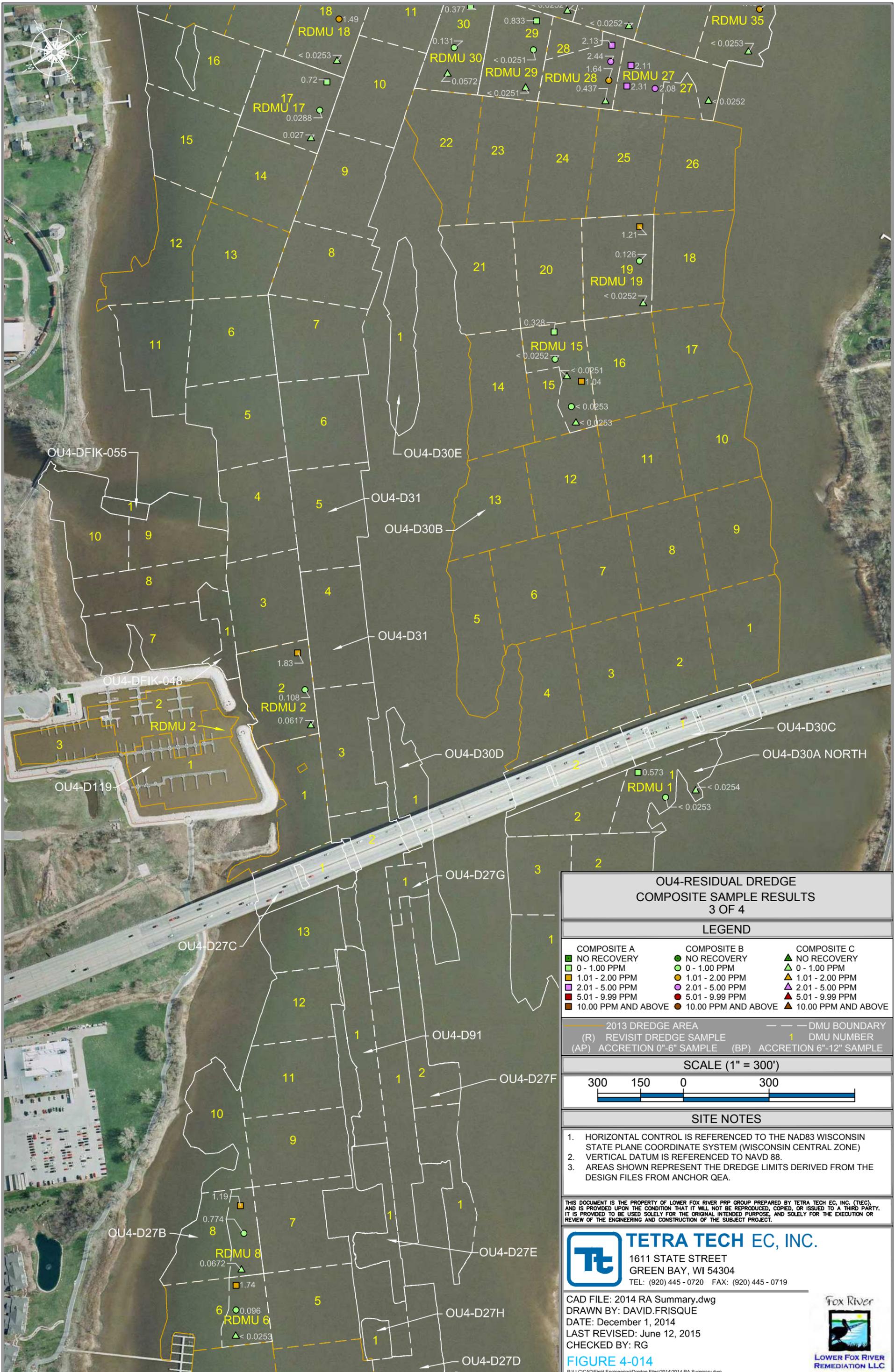
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LEGEND

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(R) REVISIT DREDGE SAMPLE	1 DMU NUMBER
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SCALE (1" = 300')



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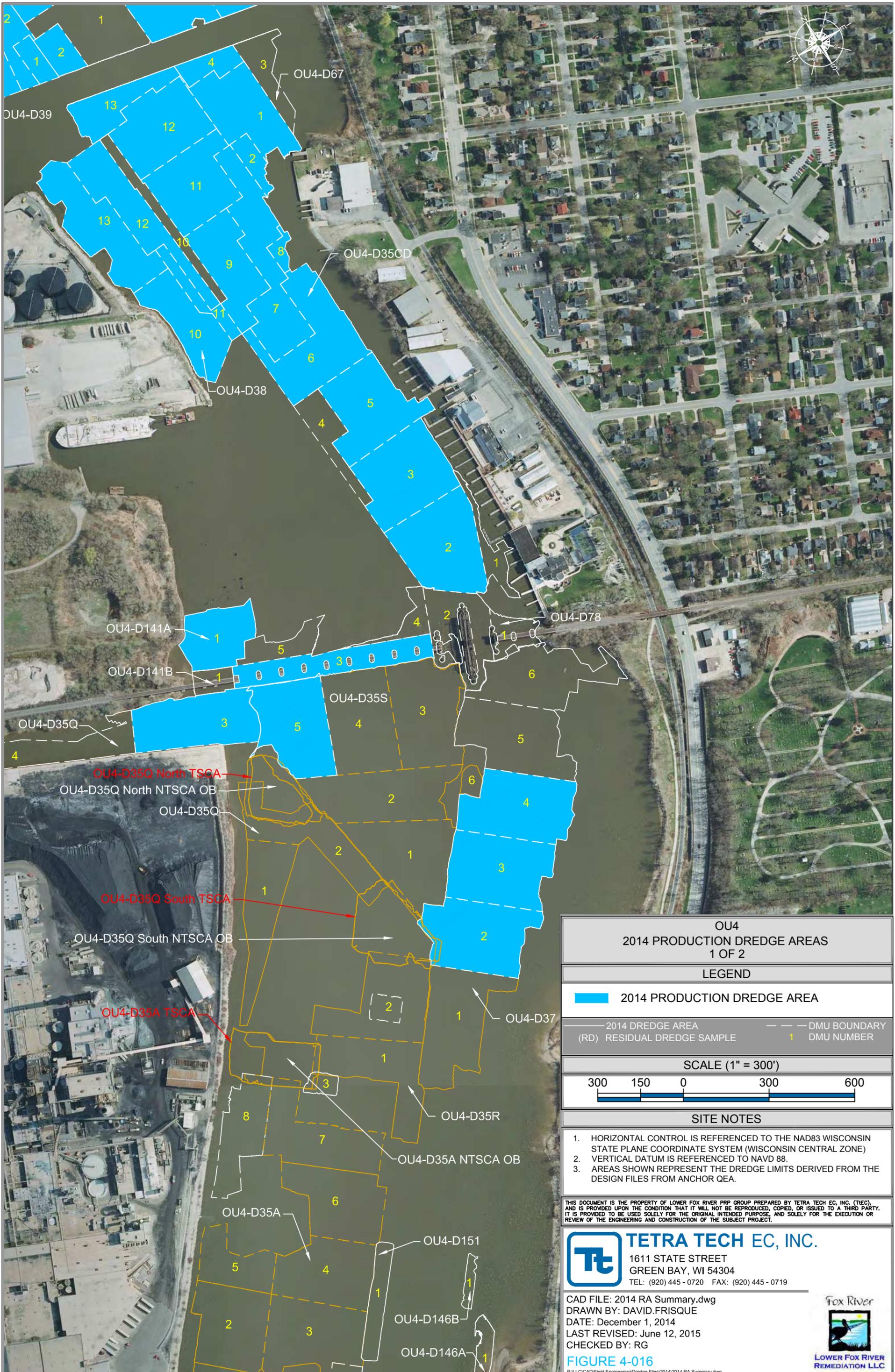
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**OU4
2014 PRODUCTION DREDGE AREAS
1 OF 2**

LEGEND

- 2014 PRODUCTION DREDGE AREA
- 2014 DREDGE AREA
- (RD) RESIDUAL DREDGE SAMPLE
- DMU BOUNDARY
- DMU NUMBER

SCALE (1" = 300')



SITE NOTES

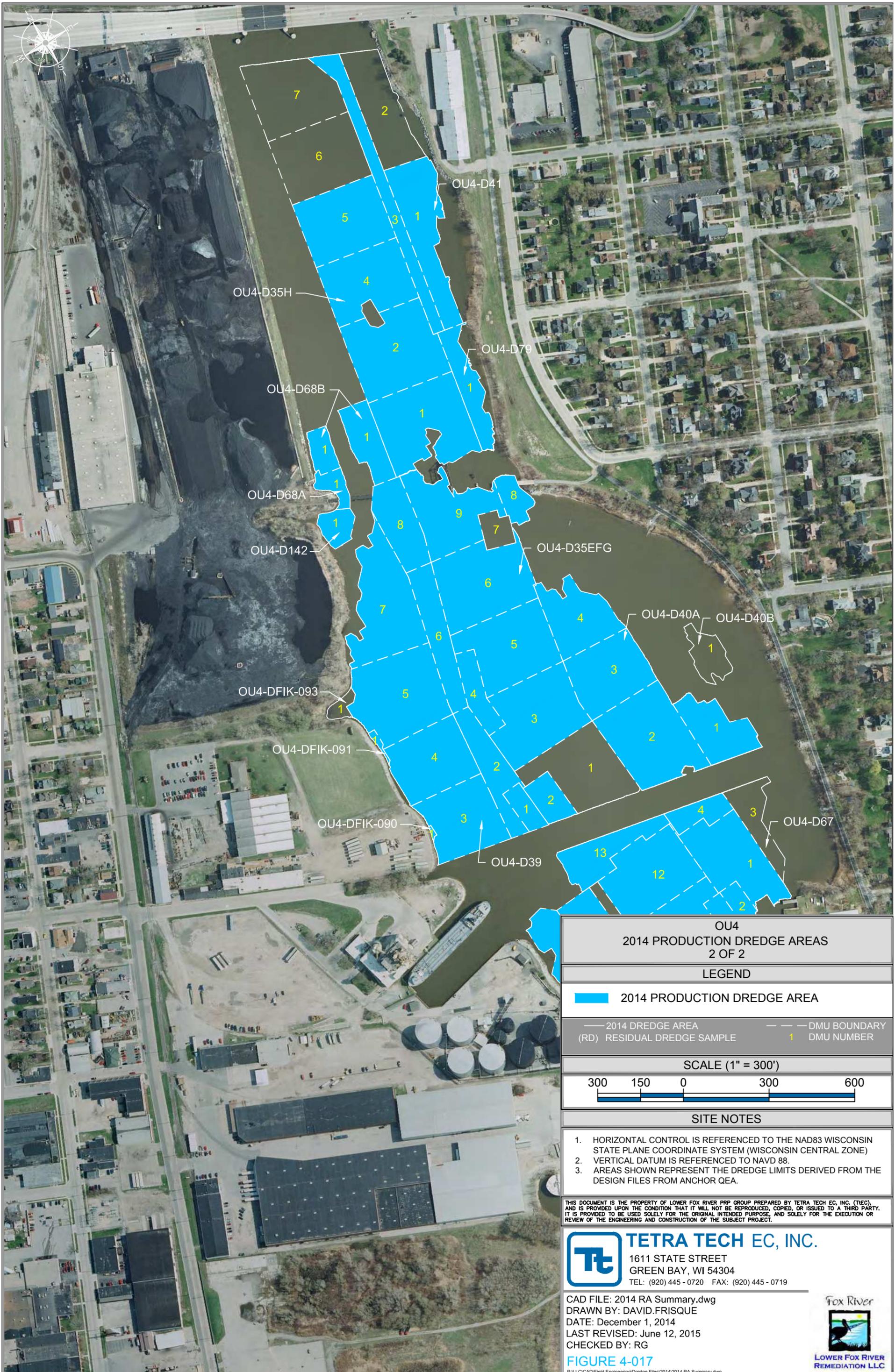
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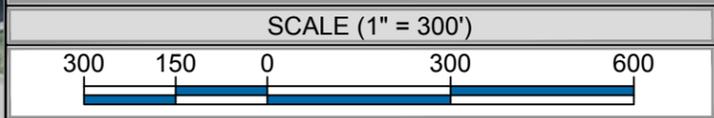




**OU4
2014 PRODUCTION DREDGE AREAS
2 OF 2**

LEGEND

- 2014 PRODUCTION DREDGE AREA
- 2014 DREDGE AREA (RD) RESIDUAL DREDGE SAMPLE
- DMU BOUNDARY
- DMU NUMBER



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OU4-SCD24-18
 OU4-SCD25-2
 OU4-FIK-015-1
 OU4-SCD24-12
 OU4-SCD25-1
 OU4-FIK-014-1
 OU4-SCD25 S-1
 OU4-SCD24-16
 OU4-SCD24-15
 OU4-FIK-013-1
 OU4-SC37B-1
 OU4-SCD24-11
 OU4-SCD24-10

OU4-SC37A-1

OU4-SCD24-3

OU4-SCD23-1

**OU4
 2014 SAND COVER AND
 RESIDUAL SAND COVER AREAS 1 OF 5**

LEGEND

- 2014 SAND COVER AREAS
- 2014 RESIDUAL SAND COVER AREAS

SCALE (1" = 300')



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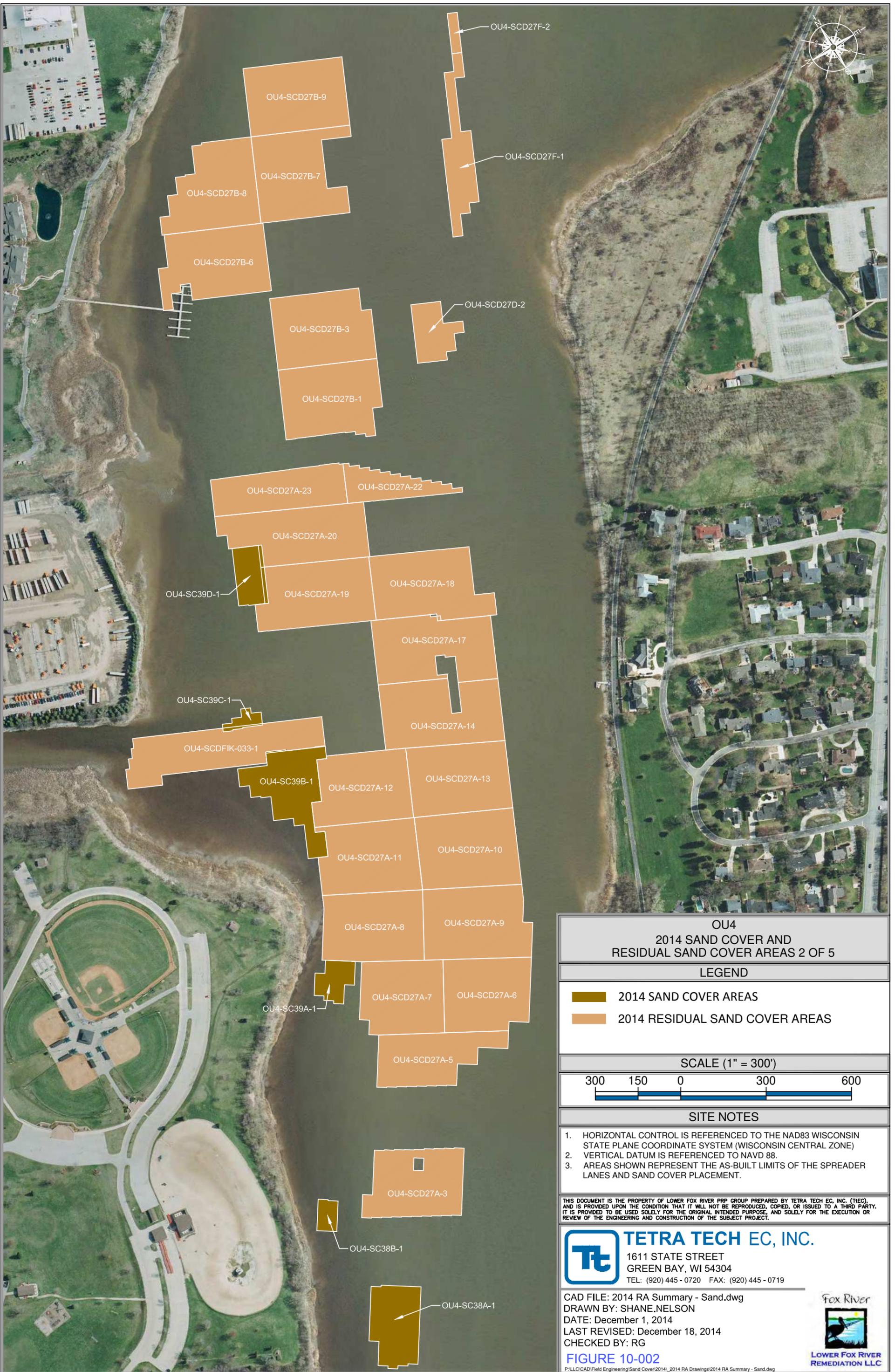
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FIGURE 10-001

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**OU4
2014 SAND COVER AND
RESIDUAL SAND COVER AREAS 2 OF 5**

LEGEND

- 2014 SAND COVER AREAS
- 2014 RESIDUAL SAND COVER AREAS

SCALE (1" = 300')



SITE NOTES

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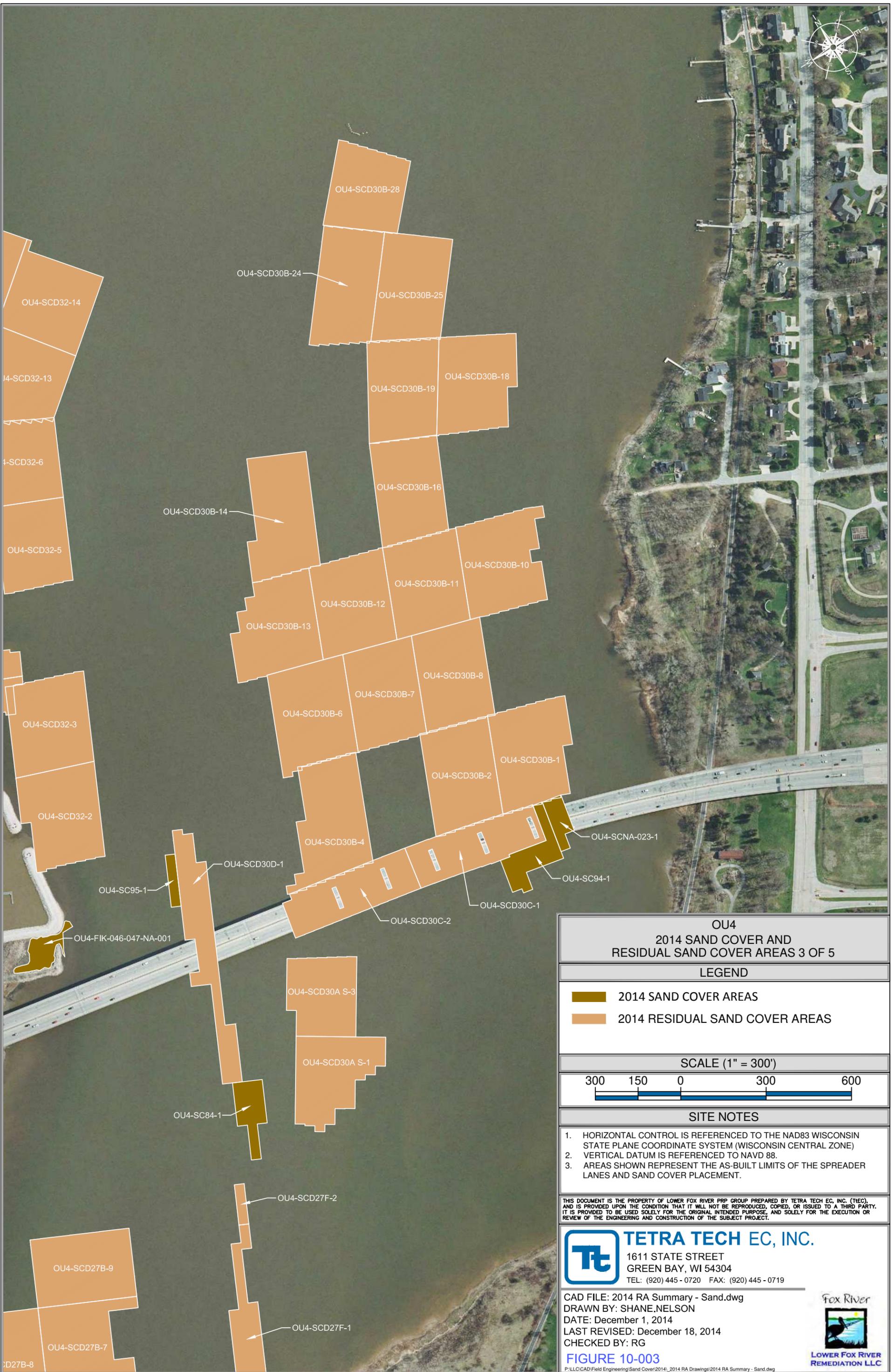
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FIGURE 10-002

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**OU4
2014 SAND COVER AND
RESIDUAL SAND COVER AREAS 3 OF 5**

LEGEND

- 2014 SAND COVER AREAS
- 2014 RESIDUAL SAND COVER AREAS

SCALE (1" = 300')



SITE NOTES

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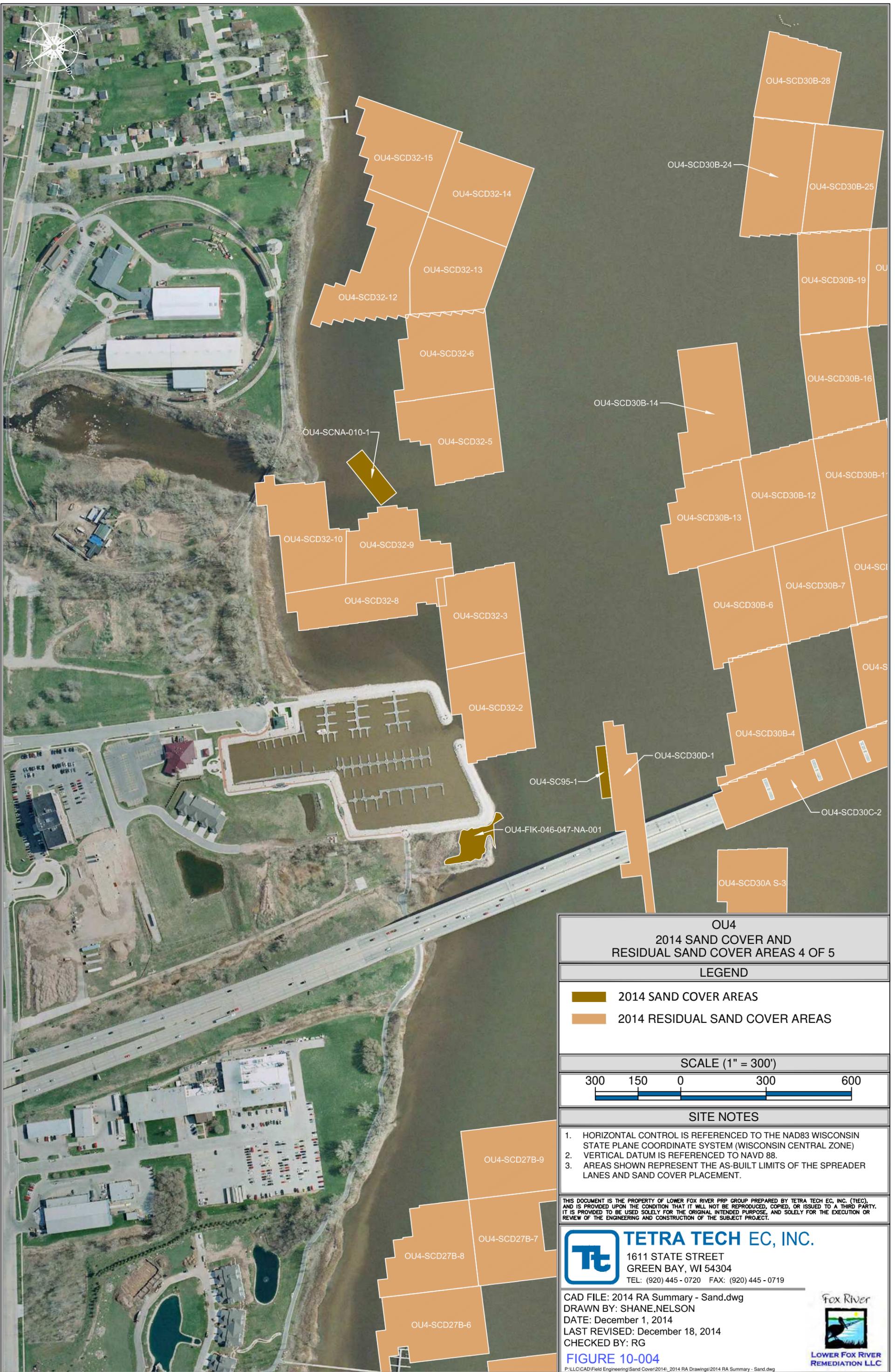
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FIGURE 10-003



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**OU4
2014 SAND COVER AND
RESIDUAL SAND COVER AREAS 4 OF 5**

LEGEND

- 2014 SAND COVER AREAS
- 2014 RESIDUAL SAND COVER AREAS

SCALE (1" = 300')



SITE NOTES

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OU4-SCD35Q-1

OU4-SCD35A-2

**OU4
2014 SAND COVER AND
RESIDUAL SAND COVER AREAS 5 OF 5**

LEGEND

- 2014 SAND COVER AREAS
- 2014 RESIDUAL SAND COVER AREAS

SCALE (1" = 300')



SITE NOTES

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FIGURE 10-005

P:\LLC\CAD\Field Engineering\Sand Cover\2014_2014 RA Drawings\2014 RA Summary - Sand.dwg





OU4
2014 CAP TYPE "A", "B" AND "C" AREAS
1 OF 4

LEGEND

- 2014 CAP TYPE "A" AREAS
- 2014 CAP TYPE "B" AREAS
- 2014 CAP TYPE "C" AREAS

SCALE (1" = 300')



SITE NOTES

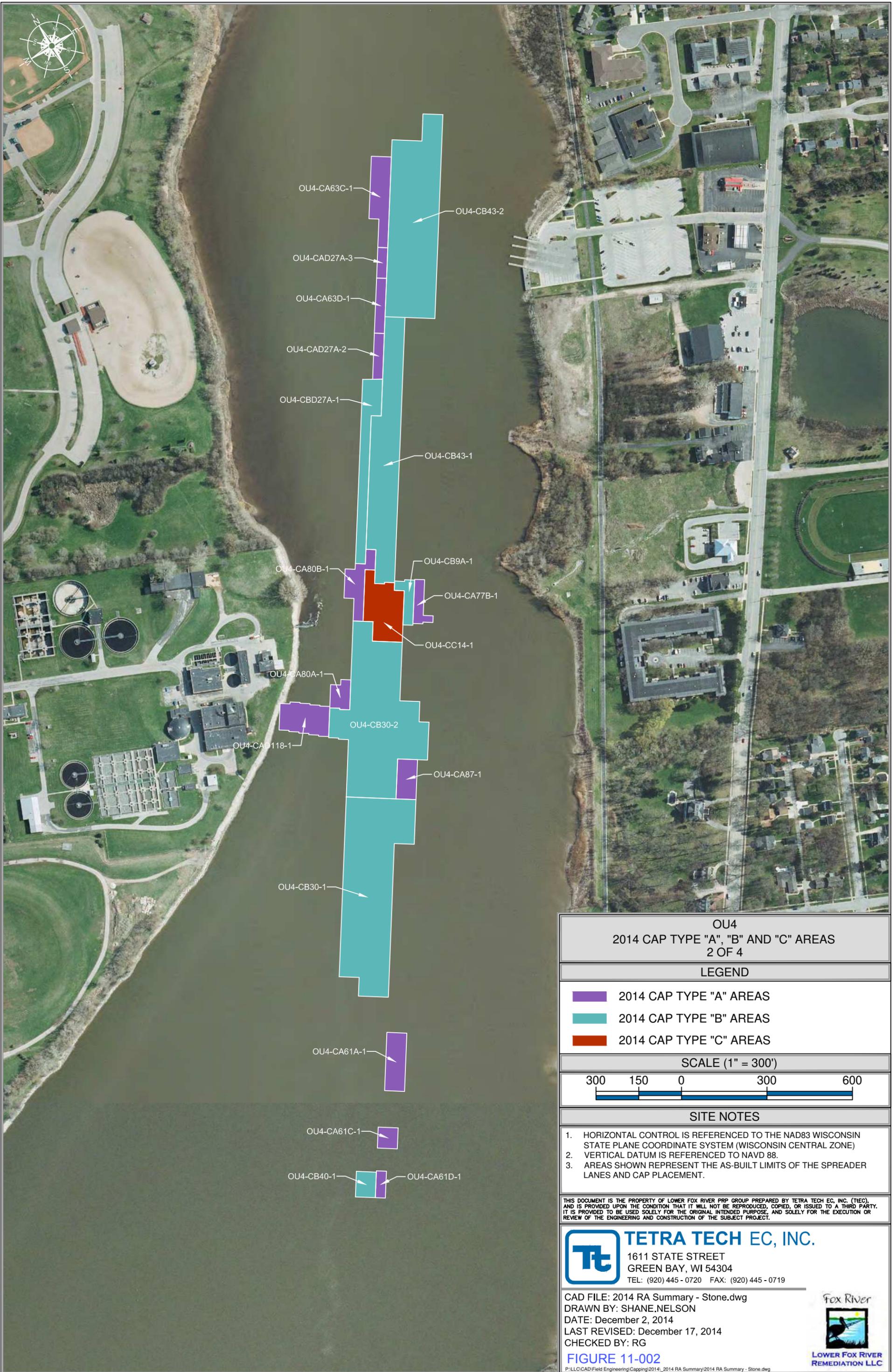
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OU4
2014 CAP TYPE "A", "B" AND "C" AREAS
2 OF 4

LEGEND

- 2014 CAP TYPE "A" AREAS
- 2014 CAP TYPE "B" AREAS
- 2014 CAP TYPE "C" AREAS

SCALE (1" = 300')



SITE NOTES

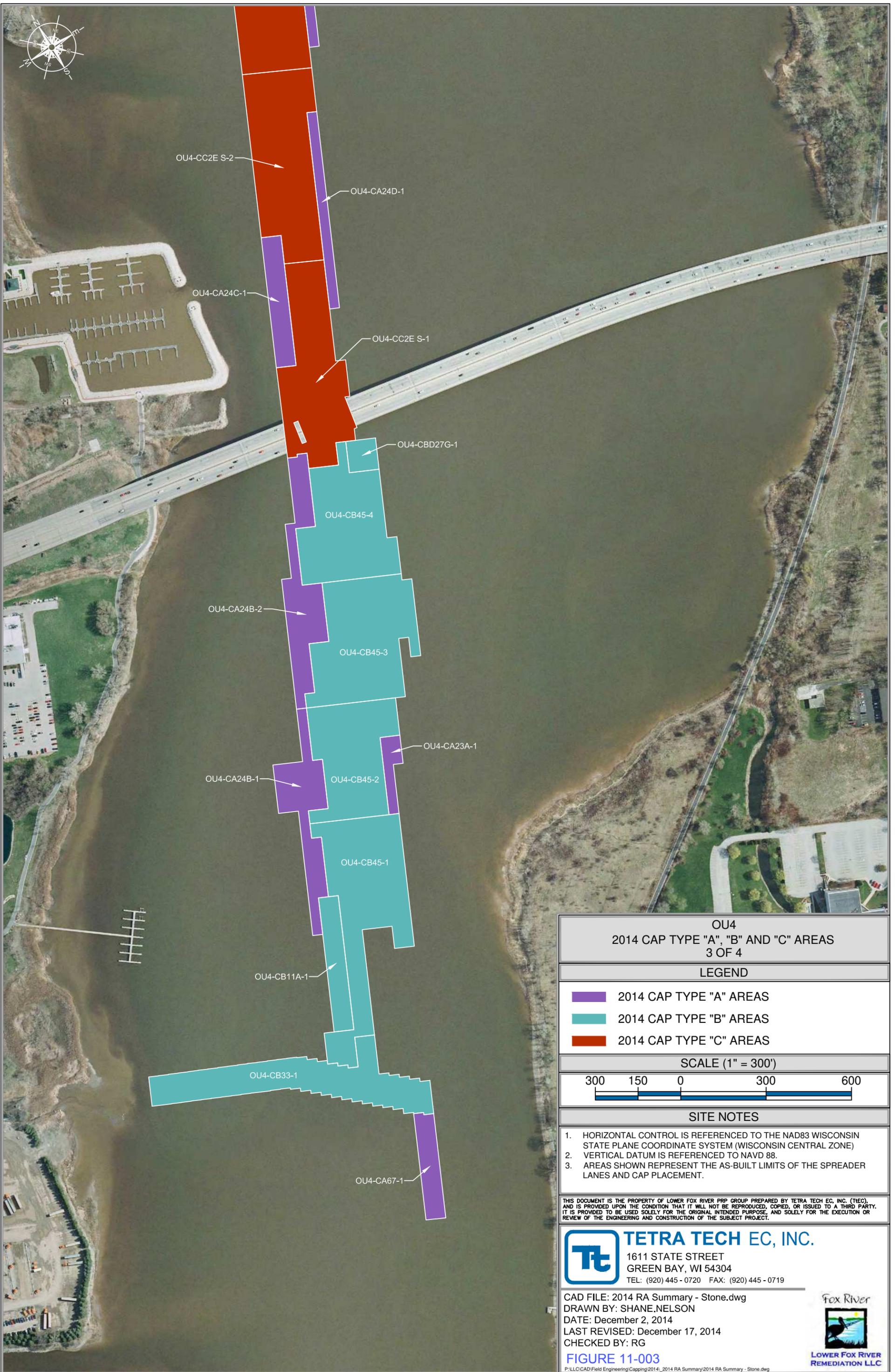
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OU4
2014 CAP TYPE "A", "B" AND "C" AREAS
3 OF 4

LEGEND

- 2014 CAP TYPE "A" AREAS
- 2014 CAP TYPE "B" AREAS
- 2014 CAP TYPE "C" AREAS

SCALE (1" = 300')



SITE NOTES

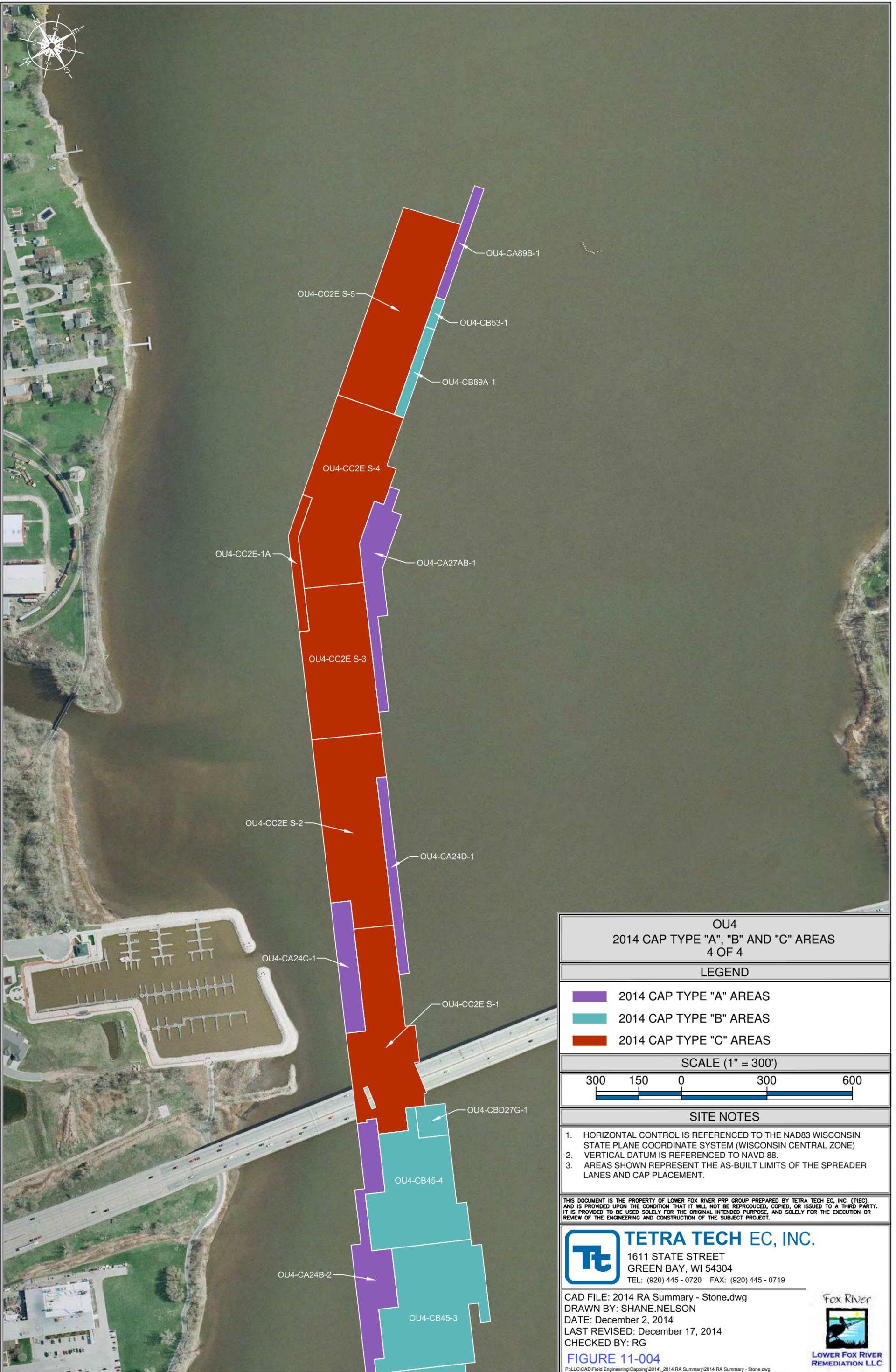
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OU4
2014 CAP TYPE "A", "B" AND "C" AREAS
4 OF 4

LEGEND

- 2014 CAP TYPE "A" AREAS
- 2014 CAP TYPE "B" AREAS
- 2014 CAP TYPE "C" AREAS

SCALE (1" = 300')



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Table 4-3 presents a summary of all areas dredged in 2014, as well as post-dredge bathymetric survey volumes.

Table 4-3. 2014 QA Survey Volume Dredged by Area

Area	Total Volume Dredged ^{1,2} (<i>in situ</i> cy)	RAL Volume and 6-Inch Design Overcut Volume (<i>in situ</i> cy)	Dredge Area Completed to Required Grade?
D118	1,580.3	1,470.5	Yes
D141A	5,290.2	5,184.7	Yes
D142	391.1	340.9	Yes
D144	1,062.7	863.0	Yes
D148	2,722.0	2,328.0	Yes
D149	673.8	631.7	Yes
D150	1,161.1	1,034.3	Yes
D151	2,255.4	2,106.4	Yes
D152	881.7	811.5	Yes
D163	1,427.7	1,322.2	Yes
D26D	222.2	197.1	Yes
D27A	14,767.7	13,325.2	Yes
D27B	11,795.4	10,210.7	Yes
D27C	4,268.1	3,440.7	Yes
D27D	2,791.3	2,530.4	Yes
D27E	3,659.4	3,385.5	Yes
D27F	1,646.1	1,372.9	Yes
D27G	1,412.4	1,323.1	Yes
D27H	1,619.8	1,543.3	Yes
D30A North	6,391.4	5,848.6	Yes
D30A South	878.9	741.5	Yes
D30B	74,739.8	69,038.5	Yes
D30C	6,886.3	5,711.7	Yes
D30D	1,165.2	1,028.6	Yes
D30E	1,924.1	1,743.3	Yes
D31	47,801.9	44,070.8	Yes
D31 North	3,392.5	2,938.3	Yes
D32	47,121.0	41,709.3	Yes
D32 North	1,572.0	1,478.2	Yes
D34	4,583.8	4,133.1	Yes
D35A	875.3	740.6	Yes
D35CD	44,634.8	43,551.1	No
D35EFG	67,422.0	64,268.2	No
D35H	32,962.8	31,033.3	No
D35Q	1,549.6	1,474.8	No
D35R	1,287.1	1,100.3	Yes
D35S	1,547.7	1,359.0	No
D37	2,279.8	1,886.8	No

Table 4-3 (Cont.). 2014 QA Survey Volume Dredged by Area

Area	Total Volume Dredged ² (<i>in situ</i> cy)	RAL Volume and 6-Inch Design Overcut Volume (<i>in situ</i> cy)	Dredge Area Completed to Required Grade?
D38	10,203.4	10,024.5	No
D39	44,577.6	41,497.2	No
D40A	34,660.9	33,408.1	No
D41	6,029.7	5,769.9	No
D67	14,050.3	13,199.8	No
D68A	784.0	739.9	No
D68B	2,116.2	2,034.0	No
D78	7,176.5	7,013.4	No
D79	1,155.7	988.1	No
D91	6,352.6	6,030.9	Yes
DFIK031	265.4	256.1	Yes
DFIK033	6,002.5	5,406.5	Yes
DFIK036	966.6	945.8	Yes
DFIK048	1,055.6	1,004.1	Yes
DFIK055	793.9	770.5	Yes
DFIK090	32.5	32.4	No
DFIK091	179.9	156.7	No
DNA003	186.7	176.7	Yes
DRA013	1,241.2	1,136.6	Yes
Total	546,475.6	507,869.2	

Notes:

¹ Total Volume Dredged is the sum of the RAL volume dredged and total overcut volume dredged.

² Includes residual dredge volumes.

Acronyms and Abbreviations:

FIK – full indicator kriging

OU – Operable Unit

RAL – remedial action level

Charts and drawings detailing each individual dredge area are included in a separate figures file. As in all previous years of the project, the calculation of *in situ* cy of sediment dredged is based on a comparison of pre-dredging bathymetry and post-dredging bathymetry over the DMUs where dredging occurred in 2014. Estimates of *in situ* volume dredged include the effects of accretion or scour that may have occurred in the relevant DMUs between the two bathymetric surveys. Accretion lowers reported dredging volume, and scour increases it.

As one example, in some DMUs within a dredge area, dredging occurred in a portion of the DMUs during the year but not in the entire DMU. (This is because the other parts of these DMUs had been dredged in previous years.) Although there were areas within individual DMUs where no dredging occurred during the year, the comparison of the two bathymetric surveys showed cy dredged from those areas for the year. This is an example of net scour occurring in these areas. The Tetra Tech team calculated approximately 7,912 cy displaced (net scour) from portions of DMUs in which dredging did not occur in 2014.