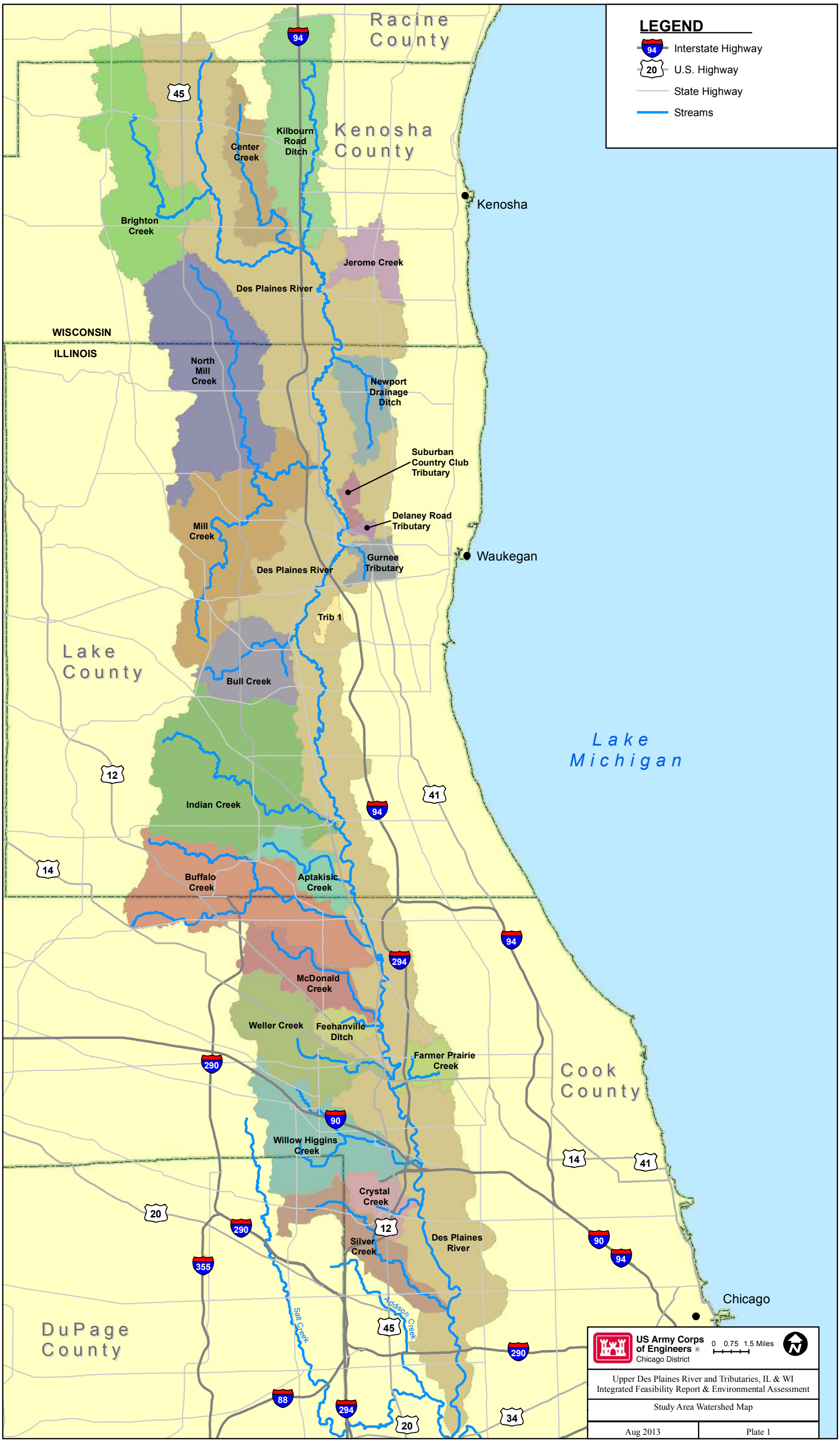
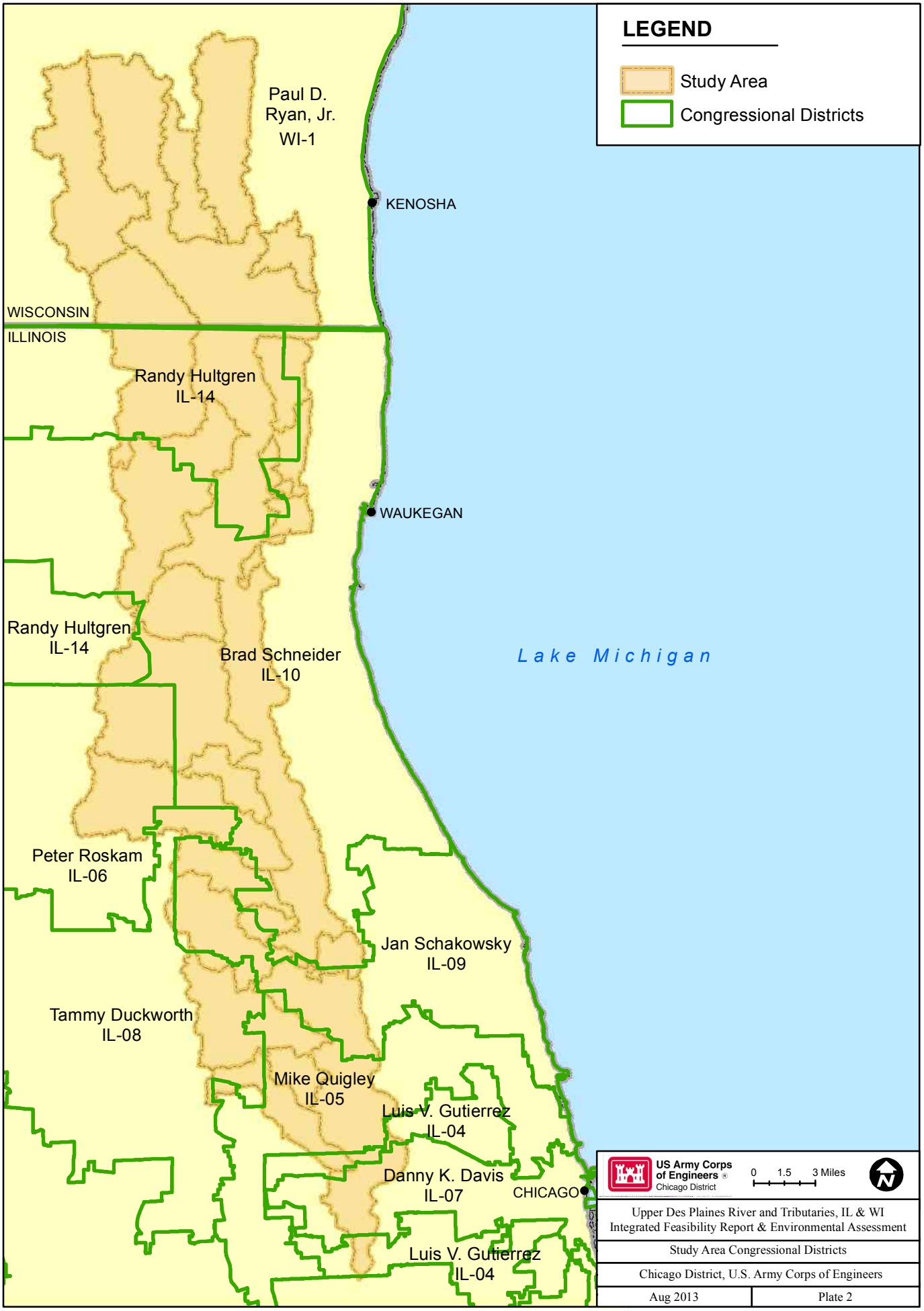
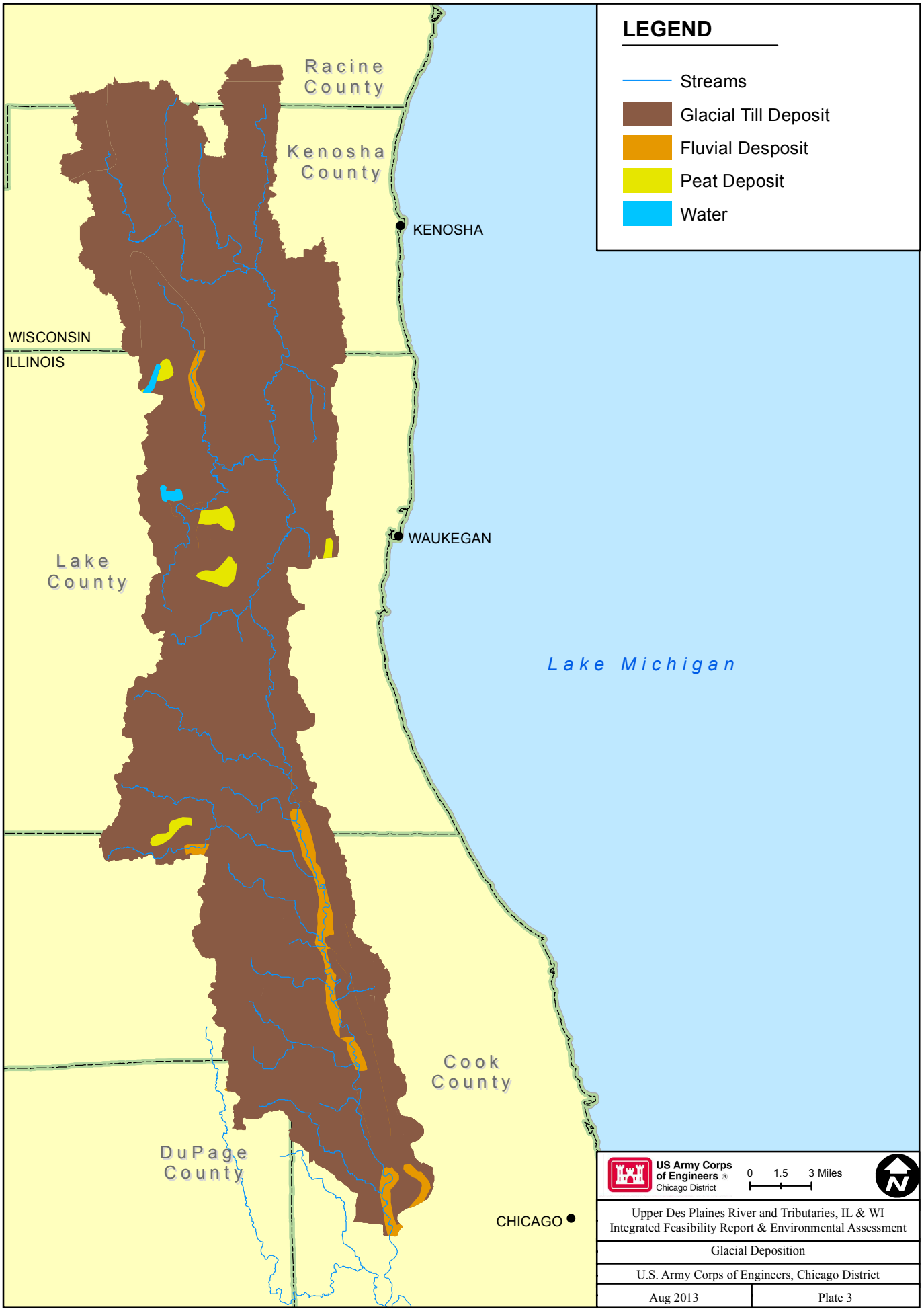

LEGEND
Interstate Highway
U.S. Highway
State Highway
Streams
Racine County
Kenosha County
Lake County
DuPage County
Cook County
Lake Michigan
Kenosha
Waukegan
Chicago
WISCONSIN
ILLINOIS
Kilbourn Road Ditch
Center Creek
Brighton Creek
Jerome Creek
Des Plaines River
North Mill Creek
Newport Drainage Ditch
Suburban Country Club Tributary
Delaney Road Tributary
Mill Creek
Gurnee Tributary
Trib 1
Bull Creek
Indian Creek
Buffalo Creek
Aptakisic Creek
McDonald Creek
Weller Creek
Feehanville Ditch
Farmer Prairie Creek
Willow Higgins Creek
Crystal Creek
Silver Creek
Salt Creek
Addison Creek
US Army Corps of Engineers
Chicago District
0 0.75 1.5 Miles
Upper Des Plaines River and Tributaries, IL & WI
Integrated Feasibility Report & Environmental Assessment
Study Area Watershed Map
Aug 2013
Plate 1


LEGEND
Study Area
Congressional Districts
Paul D. Ryan, Jr. WI-1
KENOSHA
WISCONSIN
ILLINOIS
Randy Hultgren IL-14
WAUKEGAN
Randy Hultgren IL-14
Brad Schneider IL-10
Lake Michigan
Peter Roskam IL-06
Jan Schakowsky IL-09
Tammy Duckworth IL-08
Mike Quigley IL-05
Luis V. Gutierrez IL-04
Danny K. Davis IL-07
CHICAGO
Luis V. Gutierrez IL-04
US Army Corps of Engineers
Chicago District
0 1.5 3 Miles
Upper Des Plaines River and Tributaries, IL & WI
Integrated Feasibility Report & Environmental Assessment
Study Area Congressional Districts
Chicago District, U.S. Army Corps of Engineers
Aug 2013
Plate 2

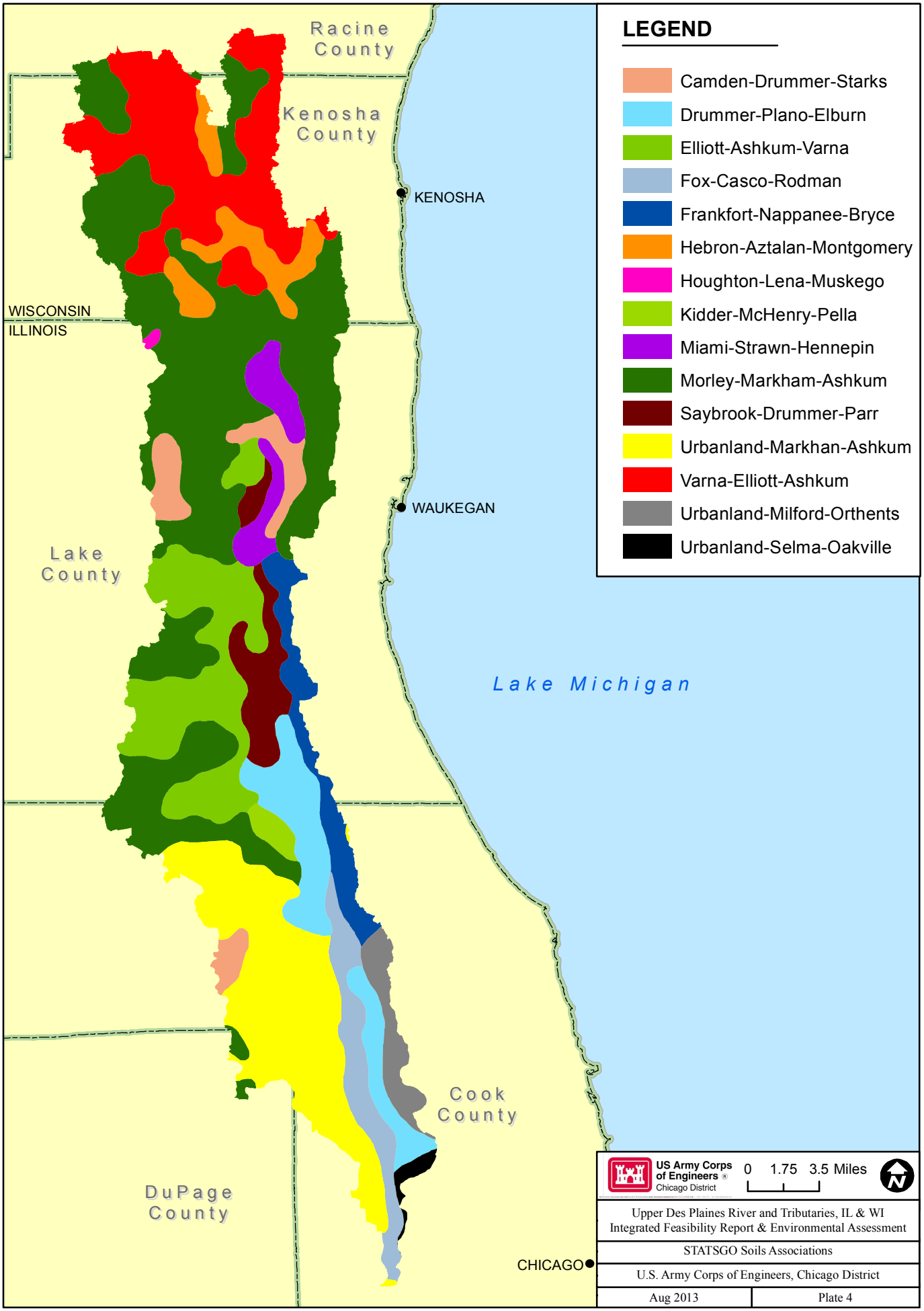


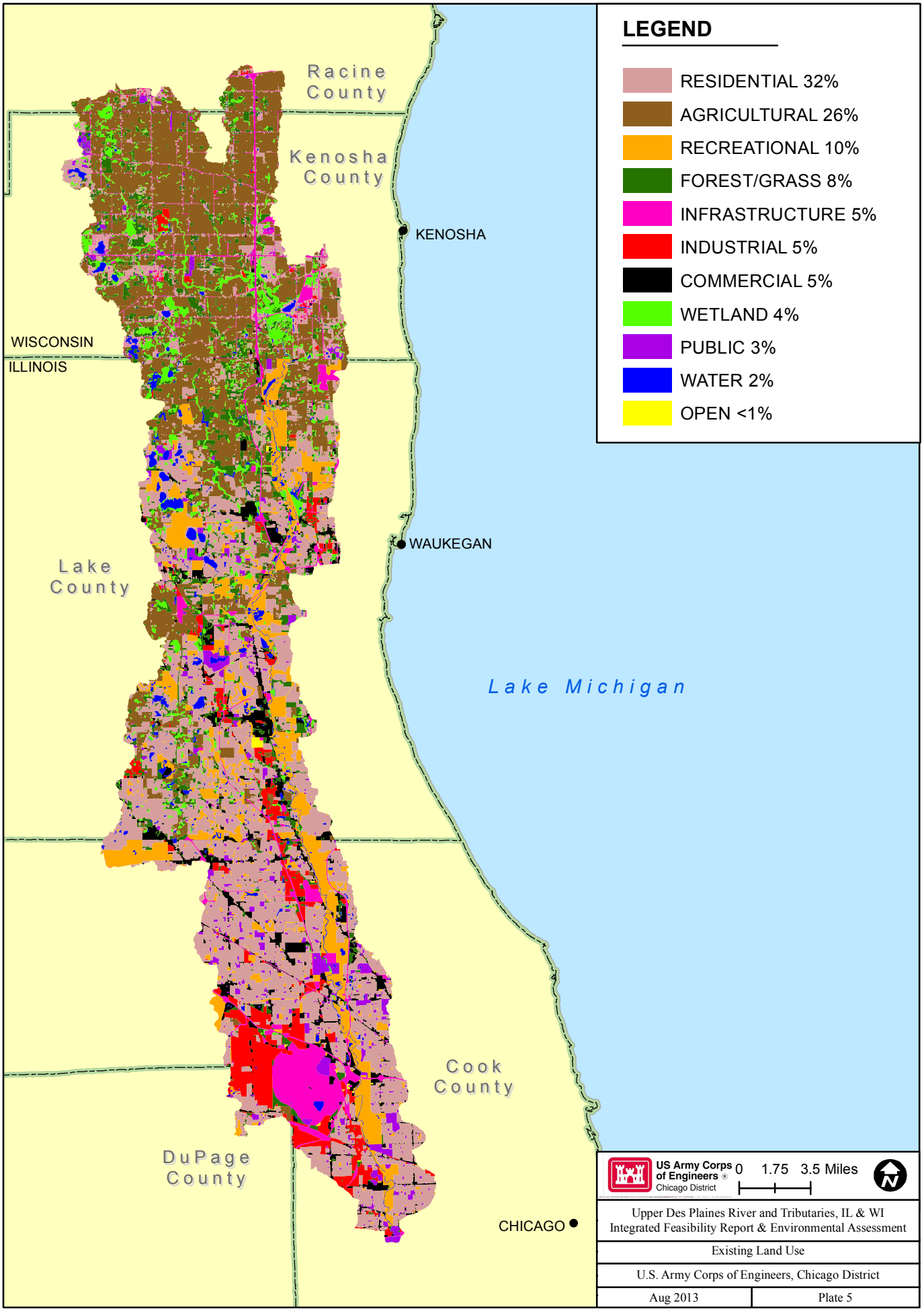
Upper Des Plaines River and Tributaries, IL & WI
Integrated Feasibility Report & Environmental Assessment

Glacial Deposition

U.S. Army Corps of Engineers, Chicago District

Aug 2013 | Plate 3


LEGEND
Camden-Drummer-Starks
Drummer-Plano-Elburn
Elliott-Ashkum-Varna
Fox-Casco-Rodman
Frankfort-Nappanee-Bryce
Hebron-Aztalan-Montgomery
Houghton-Lena-Muskego
Kidder-McHenry-Pella
Miami-Strawn-Hennepin
Morley-Markham-Ashkum
Saybrook-Drummer-Parr
Urbanland-Markhan-Ashkum
Varna-Elliott-Ashkum
Urbanland-Milford-Orthents
Urbanland-Selma-Oakville
Racine County
Kenosha County
KENOSHA
WISCONSIN
ILLINOIS
WAUKEGAN
Lake County
Lake Michigan
Cook County
DuPage County
CHICAGO
US Army Corps of Engineers
Chicago District
0 1.75 3.5 Miles
Upper Des Plaines River and Tributaries, IL & WI
Integrated Feasibility Report & Environmental Assessment
STATSGO Soils Associations
U.S. Army Corps of Engineers, Chicago District
Aug 2013
Plate 4



Upper Des Plaines River and Tributaries, IL & WI
Integrated Feasibility Report & Environmental Assessment

Existing Land Use

U.S. Army Corps of Engineers, Chicago District

Aug 2013 | Plate 5

Upper Des Plaines River and Tributaries, IL & WI
Integrated Feasibility Report & Environmental Assessment

USGS Stream Gages

U.S. Army Corps of Engineers, Chicago District

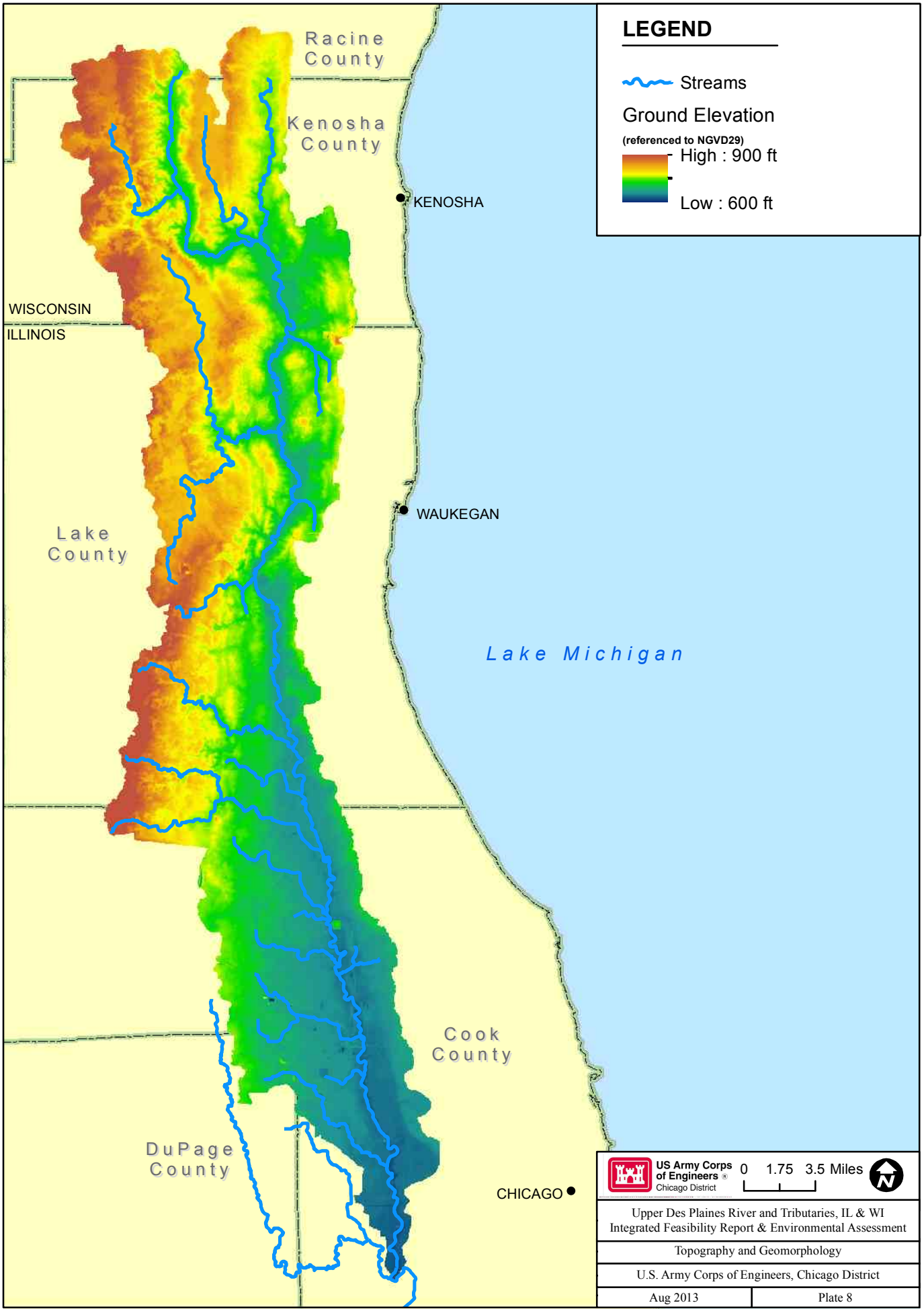
Aug 2013 | Plate 6

Upper Des Plaines River and Tributaries, IL & WI
Integrated Feasibility Report & Environmental Assessment

Existing Watershed Modifications

U.S. Army Corps of Engineers, Chicago District

Aug 2013 | Plate 7


LEGEND
Streams
Ground Elevation
(referenced to NGVD29)
High : 900 ft
Low : 600 ft
Racine County
Kenosha County
KENOSHA
WISCONSIN
ILLINOIS
WAUKEGAN
Lake County
Lake Michigan
Cook County
DuPage County
CHICAGO
US Army Corps of Engineers
Chicago District
0 1.75 3.5 Miles
Upper Des Plaines River and Tributaries, IL & WI
Integrated Feasibility Report & Environmental Assessment
Topography and Geomorphology
U.S. Army Corps of Engineers, Chicago District
Aug 2013
Plate 8

Upper Des Plaines River and Tributaries, IL & WI
Integrated Feasibility Report & Environmental Assessment

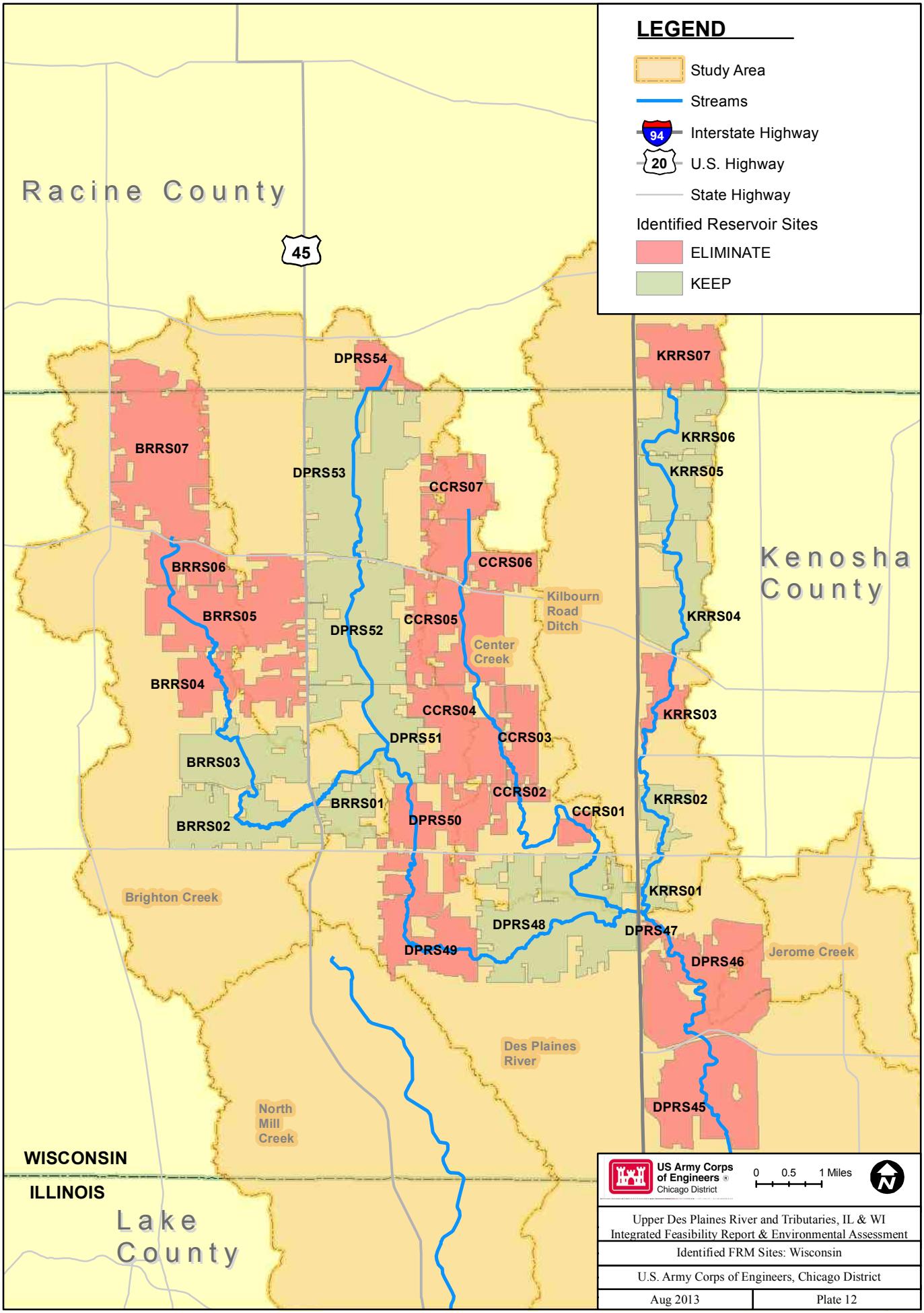
Existing Recreation

U.S. Army Corps of Engineers, Chicago District

May 2013 | Plate 9

LEGEND
Study Area
Streams
Phase I Projects
Racine County
Kenosha County
KENOSHA
WISCONSIN
ILLINOIS
Van Patten Woods Lateral Storage Area
North Fork Mill Creek Dam Modification
WAUKEGAN
Lake County
Lake Michigan
Buffalo Creek Reservoir Expansion
Levee 37
Big Bend Lake Reservoir Expansion
Levee 50
Cook County
DuPage County
CHICAGO
US Army Corps of Engineers
Chicago District
0 1.75 3.5 Miles
Upper Des Plaines River and Tributaries, IL & WI
Integrated Feasibility Report & Environmental Assessment
Phase I Projects
U.S. Army Corps of Engineers, Chicago District
Aug 2013
Plate 10

LEGEND
Study Area
Streams
Existing FEMA Floodplain
Interstate Highway
U.S. Highway
State Highway
Racine County
Kenosha County
Lake County
DuPage County
Cook County
Lake Michigan
WISCONSIN
ILLINOIS
Kenosha
Waukegan
Kilbourn Road Ditch
Center Creek
Brighton Creek
Jerome Creek
Des Plaines River
North Mill Creek
Newport Drainage Ditch
Suburban Country Club Tributary
Delaney Road Tributary
Mill Creek
Gurnee Tributary
Trib 1
Bull Creek
Indian Creek
Aptakisic Creek
Buffalo Creek
McDonald Creek
Weller Creek
Feehanville Ditch
Farmer Prairie Creek
Willow Higgins Creek
Crystal Creek
Silver Creek
Salt Creek
Addison Creek
US Army Corps of Engineers
Chicago District
0 1 2 Miles
Upper Des Plaines River and Tributaries, IL & WI
Integrated Feasibility Report & Environmental Assessment
Existing Floodplain
U.S. Army Corps of Engineers, Chicago District
Aug 2013
Plate 11

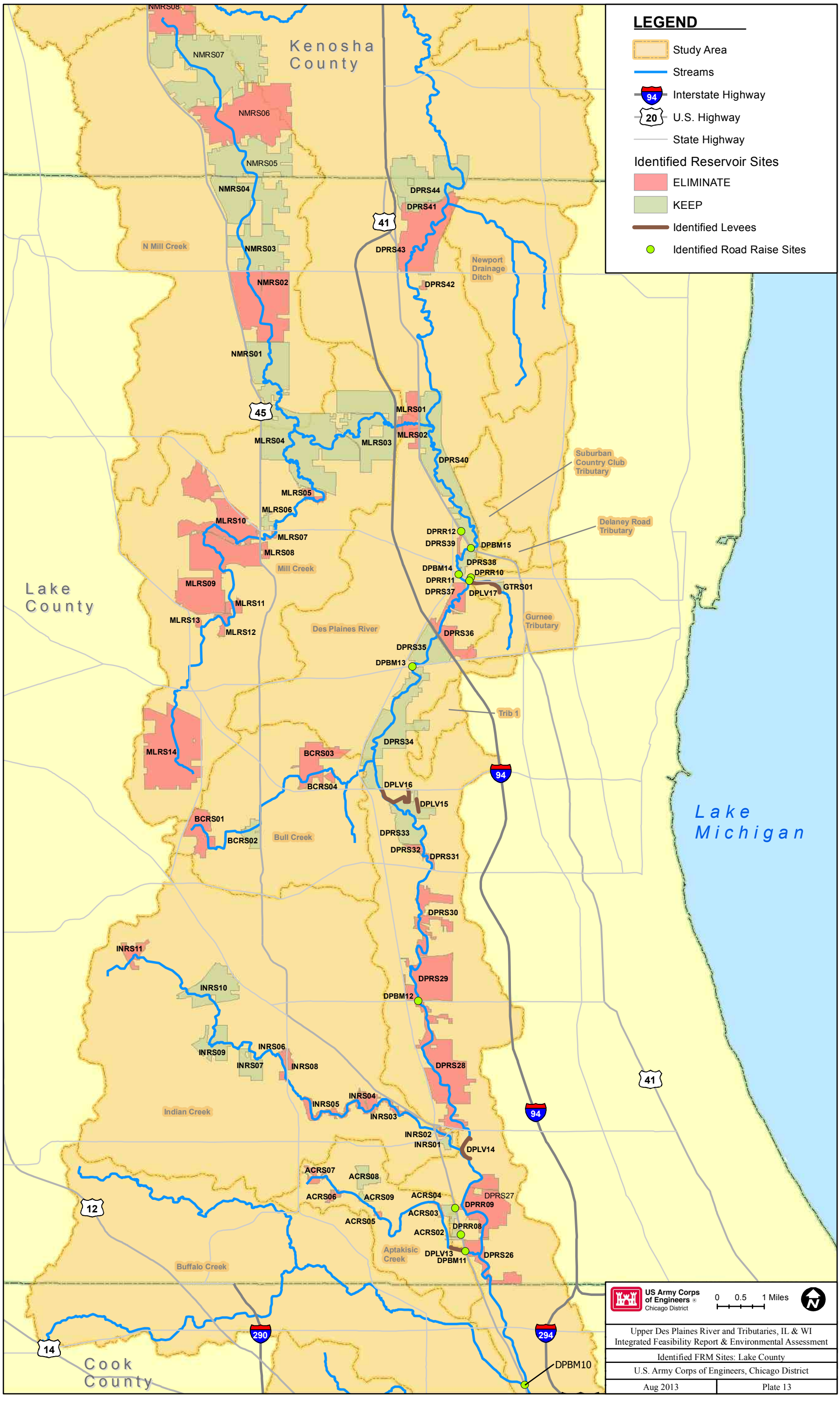


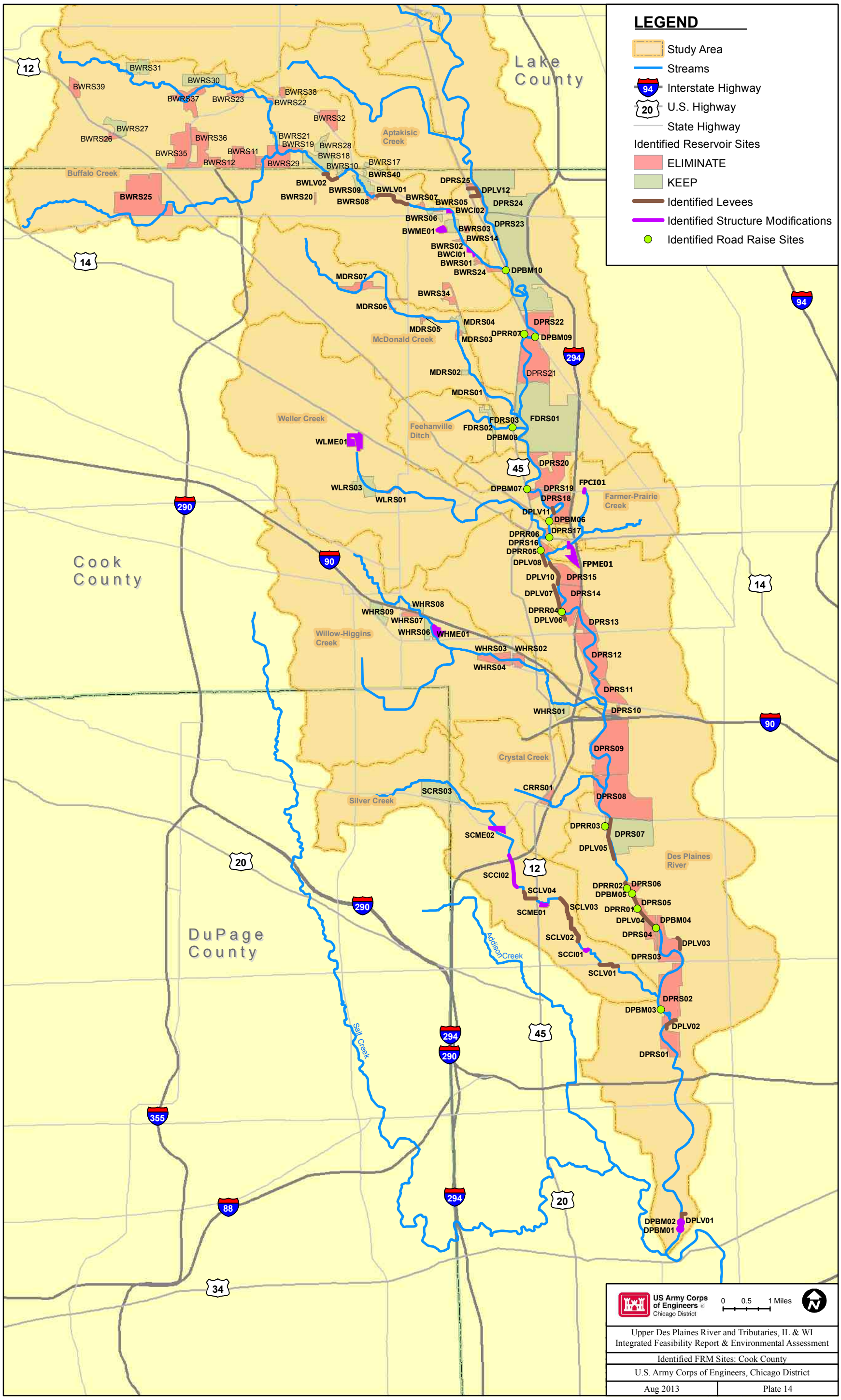
Upper Des Plaines River and Tributaries, IL & WI
Integrated Feasibility Report & Environmental Assessment

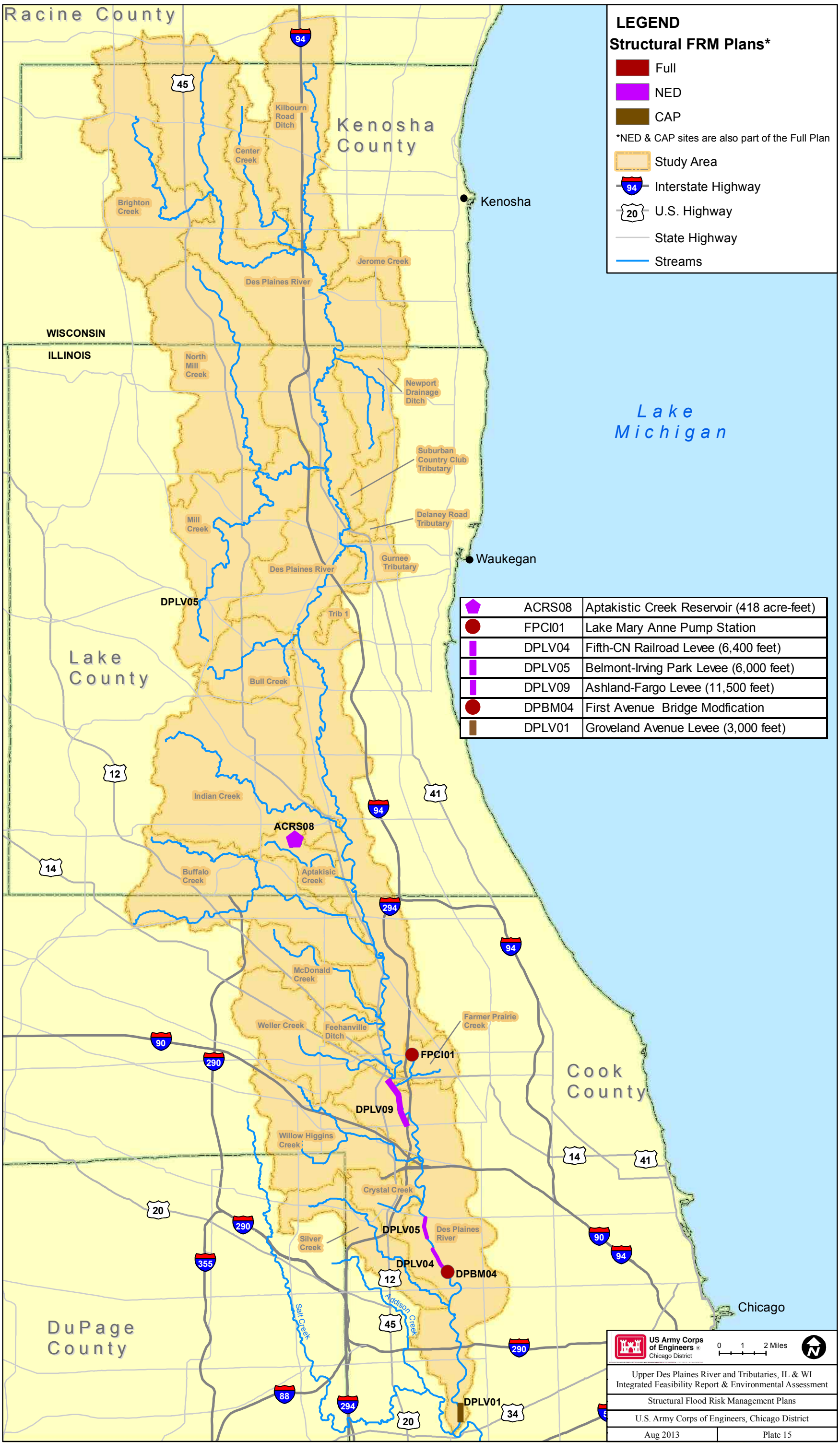
Identified FRM Sites: Wisconsin

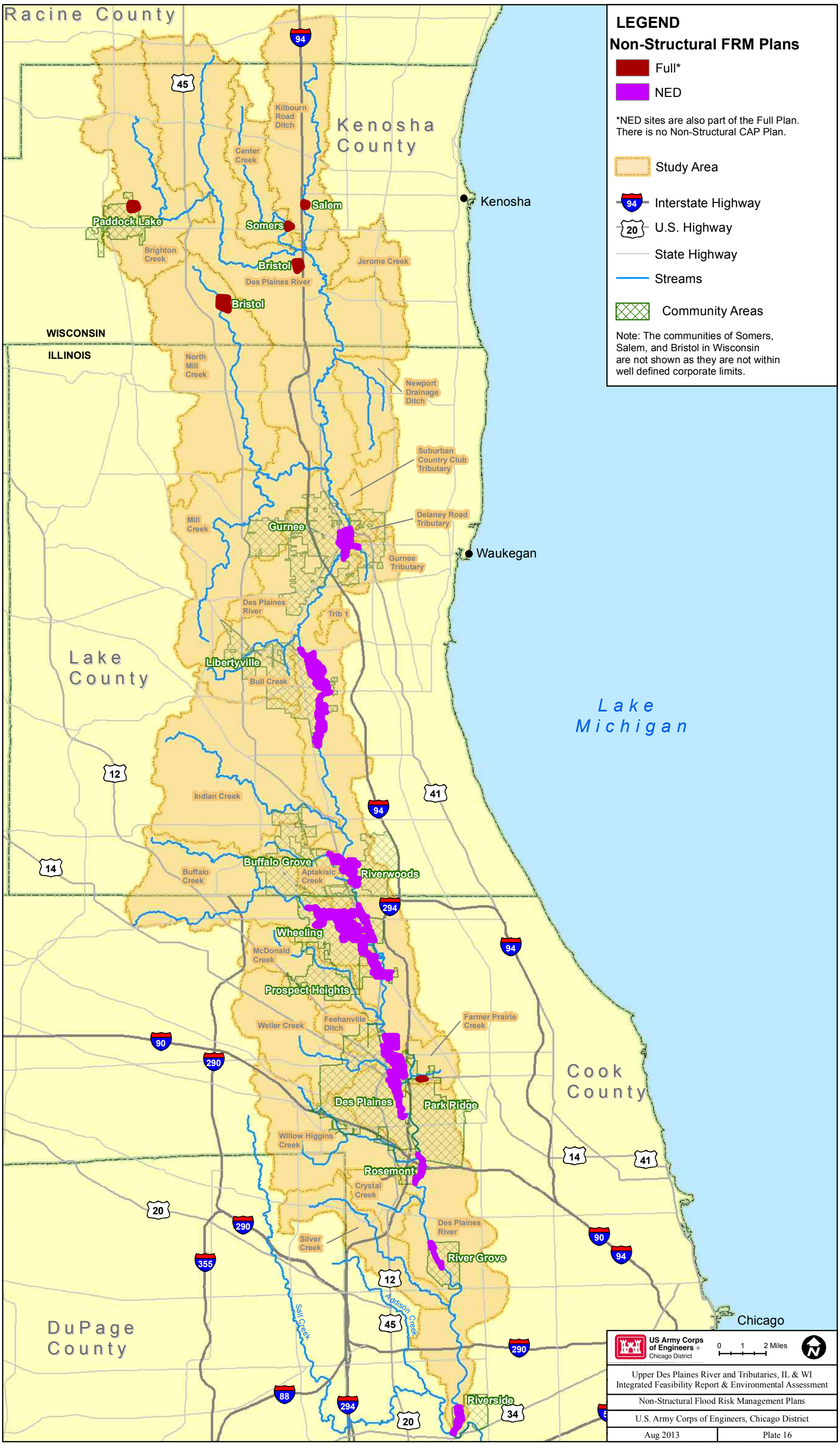
U.S. Army Corps of Engineers, Chicago District

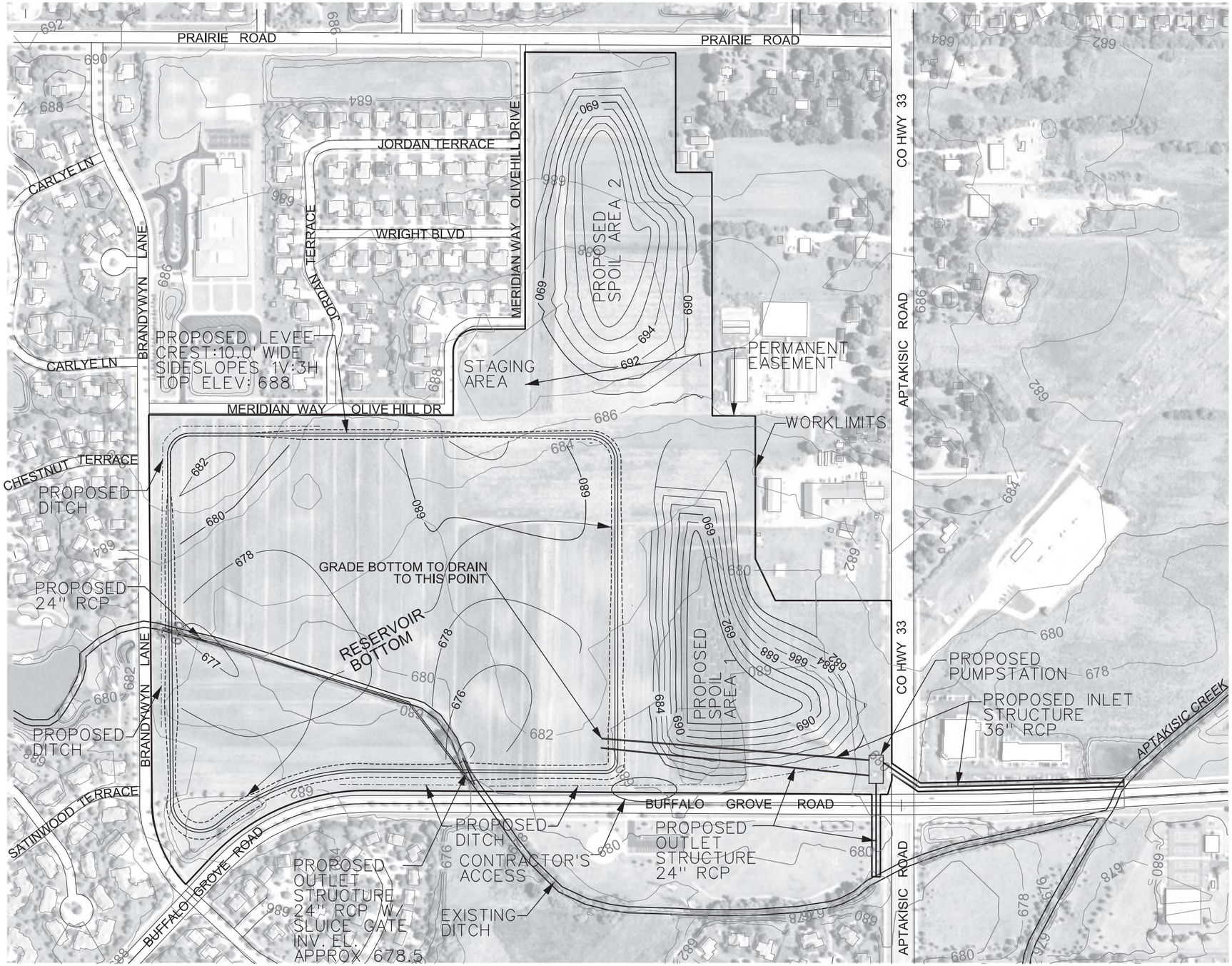
Aug 2013 | Plate 12

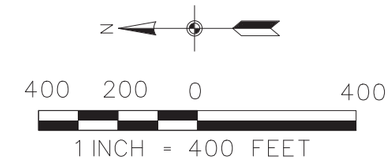

LEGEND
Study Area
Streams
Interstate Highway
U.S. Highway
State Highway
Identified Reservoir Sites
ELIMINATE
KEEP
Identified Levees
Identified Road Raise Sites
Kenosha County
Lake County
Cook County
Lake Michigan
N Mill Creek
Mill Creek
Des Plaines River
Bull Creek
Indian Creek
Buffalo Creek
Aptakisic Creek
Newport Drainage Ditch
Suburban Country Club Tributary
Delaney Road Tributary
Gurnee Tributary
Trib 1
NMRS08
NMRS07
NMRS06
NMRS05
NMRS04
NMRS03
NMRS02
NMRS01
MLRS01
MLRS02
MLRS03
MLRS04
MLRS05
MLRS06
MLRS07
MLRS08
MLRS09
MLRS10
MLRS11
MLRS12
MLRS13
MLRS14
DPRS44
DPRS41
DPRS43
DPRS42
DPRS40
DPRR12
DPRS39
DPBM15
DPRS38
DPBM14
DPRR10
DPRR11
DPRS37
DPLV17
GTRS01
DPRS36
DPRS35
DPBM13
DPRS34
BCRS03
BCRS04
DPLV16
DPLV15
BCRS01
BCRS02
DPRS33
DPRS32
DPRS31
DPRS30
INRS11
INRS10
DPRS29
DPBM12
INRS09
INRS06
INRS07
INRS08
DPRS28
INRS05
INRS04
INRS03
INRS02
INRS01
DPLV14
ACRS07
ACRS08
ACRS06
ACRS09
ACRS04
DPRS27
DPRR09
ACRS03
ACRS05
DPRR08
ACRS02
DPLV13
DPBM11
DPRS26
DPBM10
41
45
94
12
14
290
294
US Army Corps of Engineers
Chicago District
0 0.5 1 Miles
Upper Des Plaines River and Tributaries, IL & WI
Integrated Feasibility Report & Environmental Assessment
Identified FRM Sites: Lake County
U.S. Army Corps of Engineers, Chicago District
Aug 2013
Plate 13


LEGEND
Study Area
Streams
Interstate Highway
U.S. Highway
State Highway
Identified Reservoir Sites
ELIMINATE
KEEP
Identified Levees
Identified Structure Modifications
Identified Road Raise Sites
Lake County
Cook County
DuPage County
Buffalo Creek
Aptakisic Creek
McDonald Creek
Weller Creek
Feehanville Ditch
Farmer-Prairie Creek
Willow-Higgins Creek
Crystal Creek
Silver Creek
Des Plaines River
Addison Creek
Salt Creek
US Army Corps of Engineers
Chicago District
0 0.5 1 Miles
Upper Des Plaines River and Tributaries, IL & WI
Integrated Feasibility Report & Environmental Assessment
Identified FRM Sites: Cook County
U.S. Army Corps of Engineers, Chicago District
Aug 2013
Plate 14


LEGEND
Structural FRM Plans*
Full
NED
CAP
*NED & CAP sites are also part of the Full Plan
Study Area
Interstate Highway
U.S. Highway
State Highway
Streams
ACRS08 Aptakistic Creek Reservoir (418 acre-feet)
FPCI01 Lake Mary Anne Pump Station
DPLV04 Fifth-CN Railroad Levee (6,400 feet)
DPLV05 Belmont-Irving Park Levee (6,000 feet)
DPLV09 Ashland-Fargo Levee (11,500 feet)
DPBM04 First Avenue Bridge Modfication
DPLV01 Groveland Avenue Levee (3,000 feet)
Racine County
Kenosha County
Lake County
Cook County
DuPage County
WISCONSIN
ILLINOIS
Lake Michigan
Kenosha
Waukegan
Chicago
Kilbourn Road Ditch
Center Creek
Brighton Creek
Jerome Creek
Des Plaines River
North Mill Creek
Newport Drainage Ditch
Suburban Country Club Tributary
Mill Creek
Delaney Road Tributary
Gurnee Tributary
Trib 1
Bull Creek
Indian Creek
Buffalo Creek
Aptakisic Creek
McDonald Creek
Weller Creek
Feehanville Ditch
Farmer Prairie Creek
Willow Higgins Creek
Crystal Creek
Silver Creek
Des Plaines River
Salt Creek
Addison Creek
DPLV05
ACRS08
FPCI01
DPLV09
DPLV05
DPLV04
DPBM04
DPLV01
US Army Corps of Engineers
Chicago District
0 1 2 Miles
Upper Des Plaines River and Tributaries, IL & WI
Integrated Feasibility Report & Environmental Assessment
Structural Flood Risk Management Plans
U.S. Army Corps of Engineers, Chicago District
Aug 2013
Plate 15


LEGEND
Non-Structural FRM Plans
Full*
NED
*NED sites are also part of the Full Plan.
There is no Non-Structural CAP Plan.
Study Area
Interstate Highway
U.S. Highway
State Highway
Streams
Community Areas
Note: The communities of Somers, Salem, and Bristol in Wisconsin are not shown as they are not within well defined corporate limits.
Racine County
Kenosha County
Lake County
DuPage County
Cook County
WISCONSIN
ILLINOIS
Lake Michigan
Kenosha
Waukegan
Chicago
Paddock Lake
Salem
Somers
Bristol
Bristol
Gurnee
Libertyville
Buffalo Grove
Riverwoods
Wheeling
Prospect Heights
Des Plaines
Park Ridge
Rosemont
River Grove
Riverside
Kilbourn Road Ditch
Center Creek
Brighton Creek
Jerome Creek
Des Plaines River
North Mill Creek
Newport Drainage Ditch
Suburban Country Club Tributary
Delaney Road Tributary
Mill Creek
Gurnee Tributary
Des Plaines River
Trib 1
Bull Creek
Indian Creek
Buffalo Creek
Aptakisic Creek
McDonald Creek
Weller Creek
Feehanville Ditch
Farmer Prairie Creek
Willow Higgins Creek
Crystal Creek
Silver Creek
Des Plaines River
Salt Creek
Addison Creek
US Army Corps of Engineers
Chicago District
0 1 2 Miles
Upper Des Plaines River and Tributaries, IL & WI
Integrated Feasibility Report & Environmental Assessment
Non-Structural Flood Risk Management Plans
U.S. Army Corps of Engineers, Chicago District
Aug 2013
Plate 16





RESERVOIR DATA

TOP AREA = 42 AC
BOTTOM AREA = 40.2 AC
STORAGE = 406 AC-FT
INFLOW = 200 CFS
FEE AREA = 93.1 AC
TEMPORARY EASEMENT AREA = 1.7 AC

NOTES:

1. THE SURVEY CONDITIONS SHOWN ON THESE DRAWINGS ARE FROM A LOCAL GIS DATA AND REPRESENTS CONDITIONS EXISTING AT THAT TIME. REFER TO THE CIVIL APPENDIX FOR THE SURVEY DATA SOURCES.
2. ALL COORDINATES SHOWN ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83) U.S. FEET.)
3. ALL ELEVATIONS SHOWN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) U.S. FEET.

U.S. Army Corps of Engineers
Chicago District

UPPER DES PLAINES RIVER AND TRIBUTARIES
FEASIBILITY REPORT
AND ENVIRONMENTAL ASSESSMENT
VOLUME 2 – NED PLAN

ACRS08 RESERVOIR
CONCEPTUAL SITE PLAN
BUFFALO GROVE, LAKE CTY, IL

SCALE:	DATE:	DRAWING CODE:
1 IN:400FT	AUG 2013	ACRS08_SITEPLAN.DGN

NOTES:

1. THE SURVEY CONDITIONS SHOWN ON THESE DRAWINGS ARE FROM A LOCAL GIS DATA AND REPRESENTS CONDITIONS EXISTING AT THAT TIME.

2. ALL COORDINATES SHOWN ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD 83) U.S. FEET.

3. ALL ELEVATIONS SHOWN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) U.S. FEET.

4. THE PROPOSED FLOOD WALL LENGTH IS 3020 FEET, WHICH INCLUDES 500 OF RAISING AN EXISTING RETAINING WALL (STA. 2+00 TO 7+00). THE FLOODWALL TOP ELEVATION IS 633.7.

5. THE PERMANENT EASEMENT AREA IS 2.1 ACRES. THE TEMPORARY EASEMENT AREA IS 1.0 ACRES.

6. ONE ROAD CLOSURE STRUCTURES WILL BE NECESSARY TO COMPLETE THE LINE OF PROTECTION.

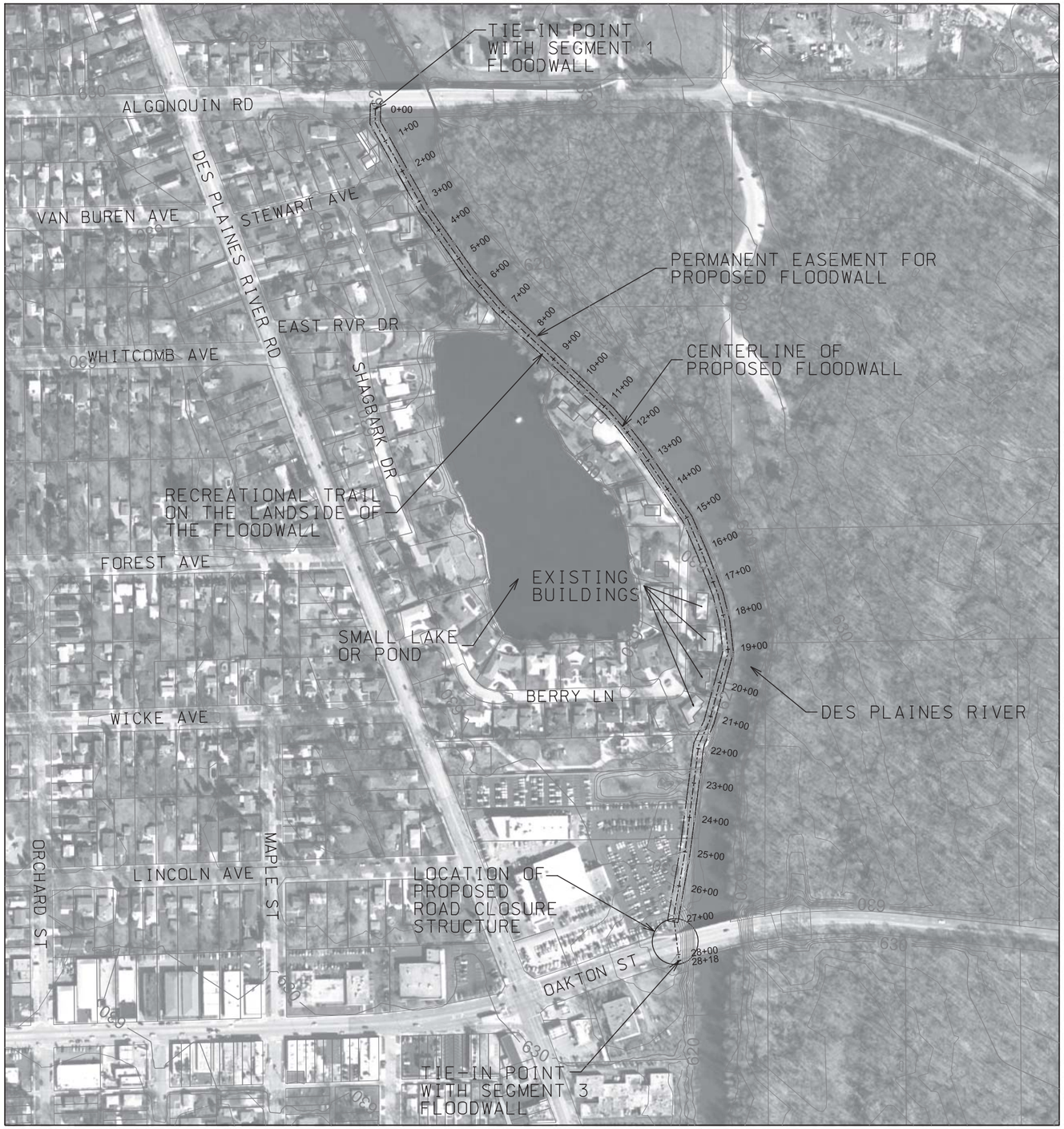
0 300' 600'

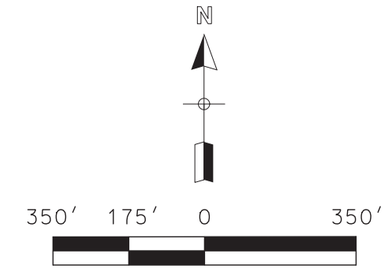
U.S. Army Corps of Engineers
Chicago District

UPPER DES PLAINES RIVER AND TRIBUTARIES
FEASIBILITY REPORT
AND EVIRONMENT ASSESSMENT
VOLUME 2 - NED PLAN

DPLV09SEG1 LEVEE
CONCEPTUAL SITE PLAN
DES PLAINES, COOK COUNTY, IL

SCALE:	DATE:	DRAWING CODE:
AS SHOWN	AUG 2013	DPLV09SEG1-CS101.dgn





SCALE: 1′′= 350′-0″

NOTES:

1. THE SURVEY CONDITIONS SHOWN ON THESE DRAWINGS ARE FROM A LOCAL GIS DATA AND REPRESENTS CONDITIONS EXISTING AT THAT TIME.

2. ALL COORDINATES SHOWN ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83) U.S. FEET.

3. ALL ELEVATIONS SHOWN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) U.S. FEET.

4. THE PROPOSED FLOODWALL IS 2,718 LF WITH AN ELEVATION OF 635.0 FT.

5. THE PERMANENT EASMENT AREA TOTALS 2.1 ACRES.

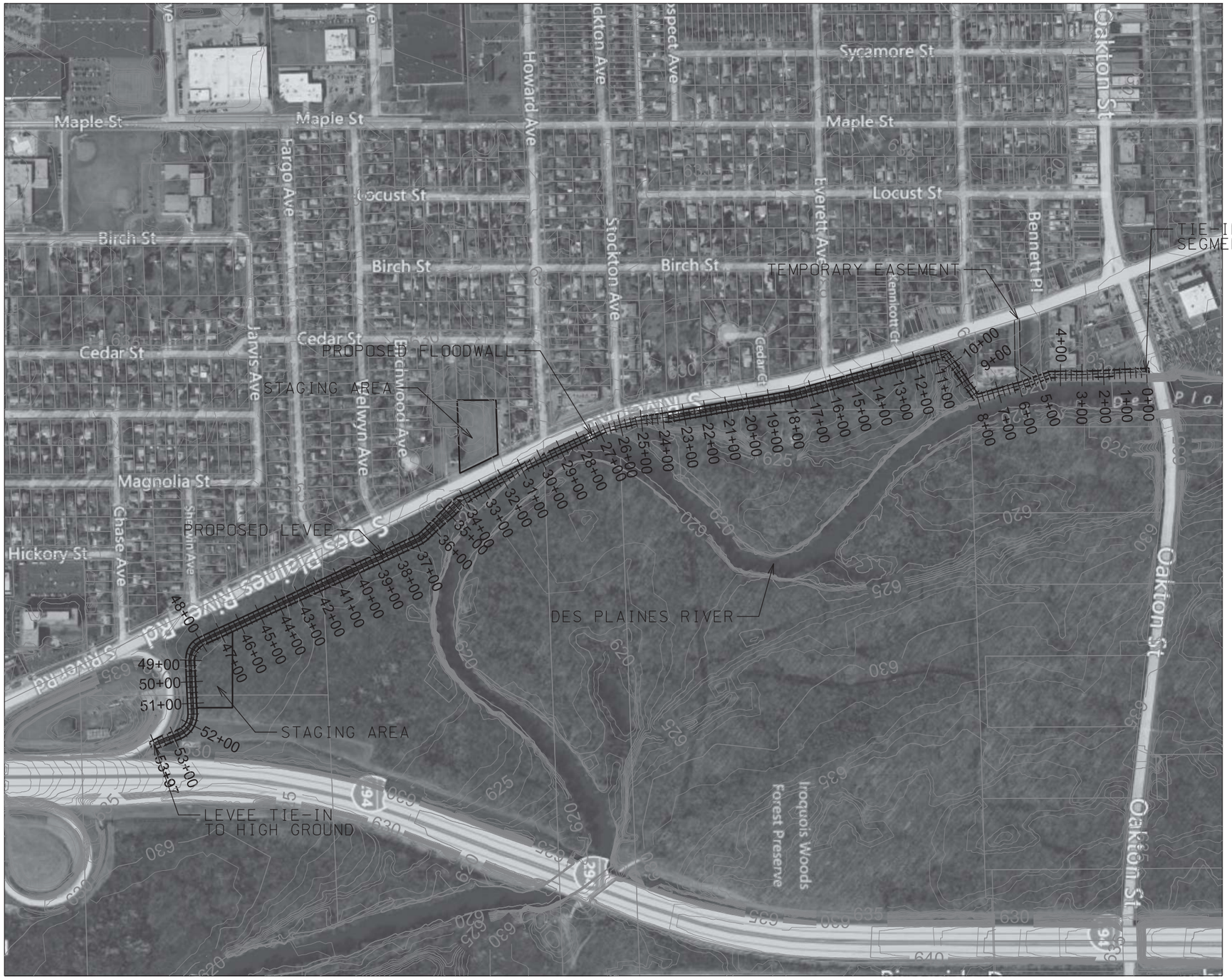
6. ONE ROAD CLOSURE STRUCTURE WILL BE NECESSARY TO COMPLETE THE LINE OF PROTECTION.

7. THIS SEGMENT OF FLOODWALL SHALL HAVE A PAVED RECREATIONAL TRAIL ALONG ITS ENTIRE LENGTH.

U.S. Army Corps of Engineers Chicago District	UPPER DES PLAINES RIVER AND TRIBUTARIES FEASIBILITY REPORT AND ENVIRONMENTAL ASSESSMENT

DPLV09 – SEGMENT 2
FLOODWALL SITE PLAN
DES PLAINES, COOK COUNTY, IL

SCALE:	DATE:	DRAWING CODE:
AS-SHOWN	AUG 2013	DPLV09_S2_Siteplan.dgn



NOTES:

1. THE SURVEY CONDITIONS SHOWN ON THESE DRAWINGS ARE FROM A LOCAL GIS DATA AND REPRESENTS CONDITIONS EXISTING AT THAT TIME.

2. ALL COORDINATES SHOWN ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD 83) U.S. FEET.

3. ALL ELEVATIONS SHOWN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) U.S. FEET.

4. THE PROPOSED FLOOD WALL LENGTH IS 2250 FEET, AND LEVEE LENGTH IS 3197 FEET. TOP OF FLOODWALL/LEVEE: STA. 0+00 TO STA. 16+00, EL. 633.7; STA. 16+00 TO 53.97, EL. 633.4.

5. THE PERMANENT EASEMENT AREA IS 4.82 ACRES. THE TEMPORARY EASEMENT AREA IS 2.44 ACRES.

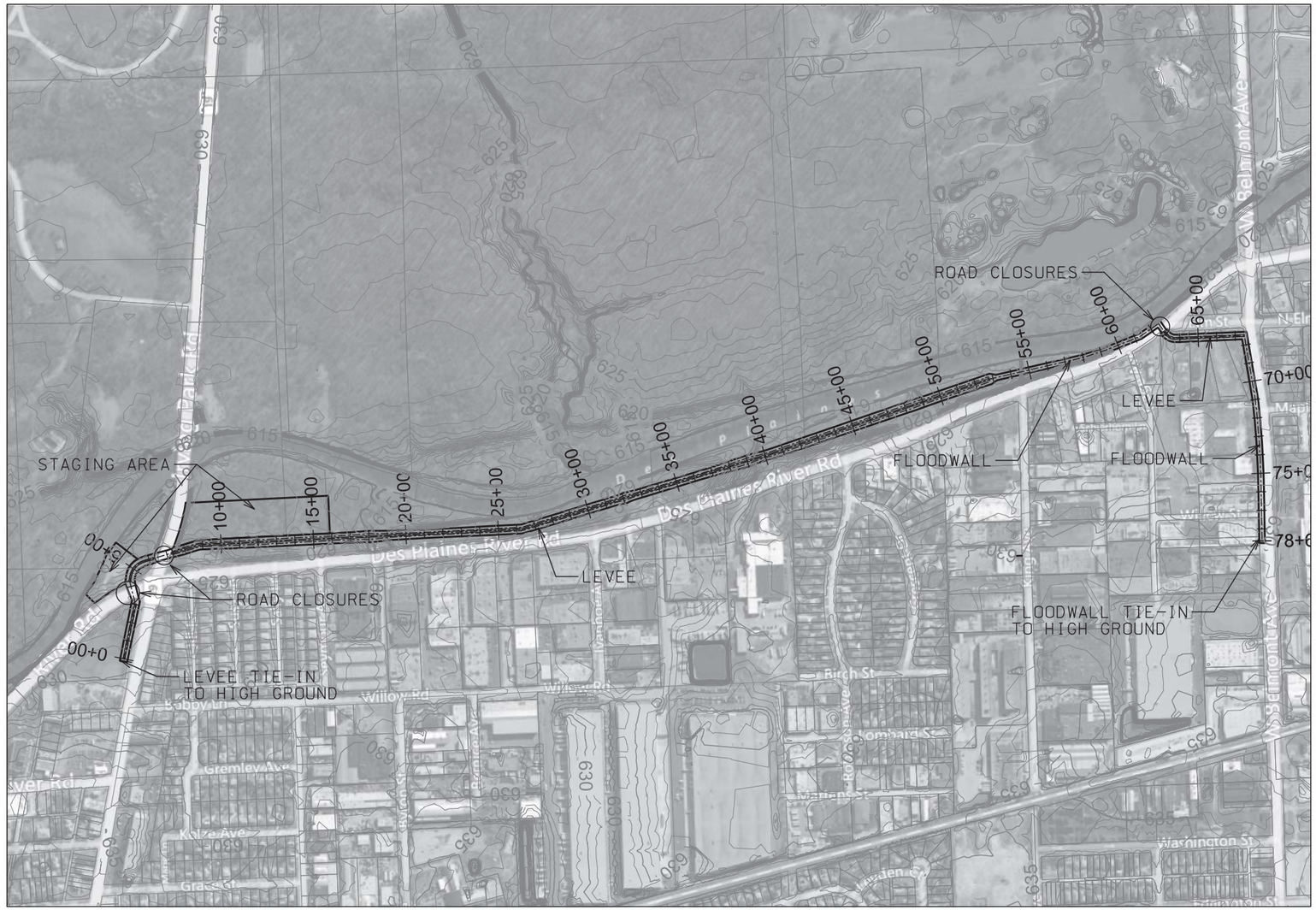
0 500' 1000'

U.S. Army Corps of Engineers
Chicago District

UPPER DES PLAINES RIVER AND TRIBUTARIES
FEASIBILITY REPORT
AND EVIRONMENT ASSESSMENT
VOLUME 2 - NED PLAN

DPLV09SEG3 LEVEE
CONCEPTUAL SITE PLAN
DES PLAINES, COOK COUNTY, IL

SCALE:	DATE:	DRAWING CODE:
AS SHOWN	AUG 2013	DPLV09SEG3-CS101.dgn



PLAN VIEW

NOTES:

1. THE SURVEY CONDITIONS SHOWN ON THESE DRAWINGS ARE FROM A LOCAL GIS DATA AND REPRESENTS CONDITIONS EXISTING AT THAT TIME.

2. ALL COORDINATES SHOWN ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD 83) U.S. FEET.

3. ALL ELEVATIONS SHOWN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) U.S. FEET.

4. THE PROPOSED FLOOD WALL LENGTH IS 1782 FEET AND LEVEE LENGTH IS 5576 FEET. THE LEVEE/FLOODWALL CREST ELEVATION IS 629.31.

5. THE PERMANENT EASEMENT AREA IS 8.2 ACRES. THE TEMPORARY EASEMENT AREA IS 4.7 ACRES.

6. THREE ROAD CLOSURE STRUCTURES WILL BE NECESSARY TO COMPLETE THE LINE OF PROTECTION.

7. THE EXISTING RETAINING WALL SUPPORTING RIVER RD AT THE RIVER SIDE BETWEEN APPROXIMATELY STA. 62+22 AND STA. 63+44 (122 FEET) SHALL BE RAISED TO THE DESIGN ELEVATION AND ALSO ACT AS A FLOODWALL.

0 700' 1400'

U.S. Army Corps of Engineers
Chicago District

UPPER DES PLAINES RIVER AND TRIBUTARIES
FEASIBILITY REPORT
AND EVIRONMENT ASSESSMENT
VOLUME 2 - NED PLAN

DPLV05 LEVEE
CONCEPTUAL SITE PLAN
SCHILLER PARK, COOK COUNTY, IL

SCALE:	DATE:	DRAWING CODE:
AS SHOWN	AUG 2013	DPLV05-CS101.DGN

PLAN VIEW

NOTES:

1. THE SURVEY CONDITIONS SHOWN ON THESE DRAWINGS ARE FROM A LOCAL GIS DATA AND REPRESENTS CONDITIONS EXISTING AT THAT TIME.

2. ALL COORDINATES SHOWN ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD 83) U.S. FEET.

3. ALL ELEVATIONS SHOWN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) U.S. FEET.

4. THE PROPOSED FLOOD WALL LENGTH IS 2190 FEET AND LEVEE LENGTH IS 4240 FEET. THE FLOODWALL/LEVEE CREST ELEVATION IS 628.39.

5. THE PERMANENT EASEMENT AREA IS 6.8 ACRES. THE TEMPORARY EASEMENT AREA IS 4.6 ACRES.

6. TWO ROAD CLOSURE STRUCTURES WILL BE NECESSARY TO COMPLETE THE LINE OF PROTECTION. THE ROAD WILL BE RAISED AT 5TH AVE.

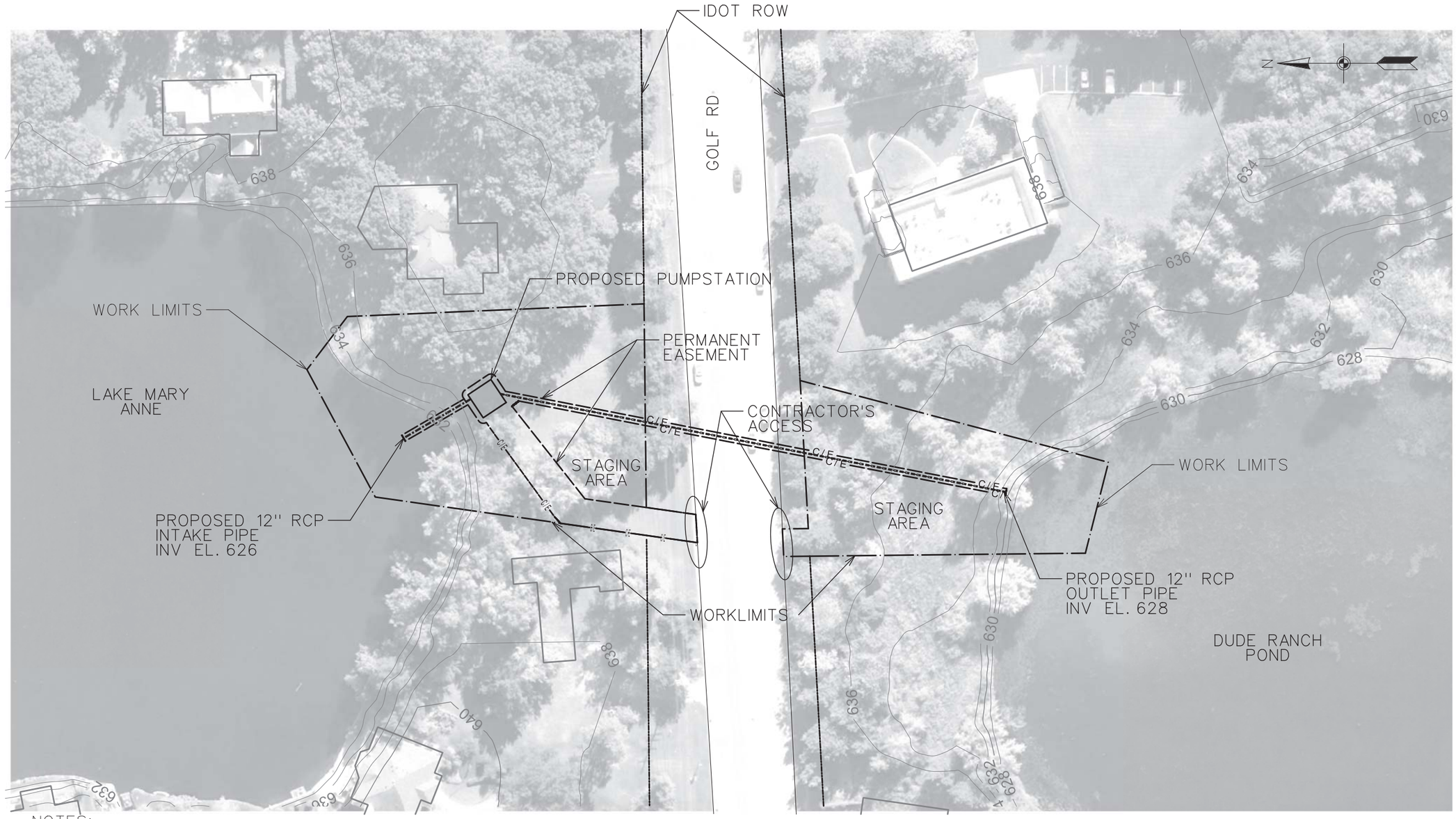
0 600' 1200'

U.S. Army Corps of Engineers
Chicago District

UPPER DES PLAINES RIVER AND TRIBUTARIES
FEASIBILITY REPORT
AND EVIRONMENT ASSESSMENT
VOLUME 2 - NED PLAN

DPLV04 LEVEE
CONCEPTUAL SITE PLAN
RIVER GROVE, COOK COUNTY, IL

SCALE:	DATE:	DRAWING CODE:
AS SHOWN	AUG 2013	DPLV04-CS101.DGN



NOTES:

1. THE SURVEY CONDITIONS SHOWN ON THESE DRAWINGS ARE FROM A LOCAL GIS DATA AND REPRESENTS CONDITIONS EXISTING AT THAT TIME. REFER TO THE CIVIL APPENDIX FOR THE SURVEY DATA SOURCES.

2. ALL COORDINATES SHOWN ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83) U.S. FEET.)

3. ALL ELEVATIONS SHOWN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) U.S. FEET.

4. THE 12" RCP UNDER GOLF RD. WILL BE PLACED BY PIPE JACKING.

FEE AREA = 0.018 AC

STAGING AREA = 0.179

TEMPORARY EASEMENT = 1.021 AC

UTILITY AREA = 0.049 AC

80 40 0 80 160

1 INCH = 80 FEET

U.S. Army Corps of Engineers
Chicago District

UPPER DES PLAINES RIVER AND TRIBUTARIES
FEASIBILITY REPORT
AND ENVIRONMENTAL ASSESSMENT
VOLUME 2 - NED PLAN

FPCI01 PUMPSTATION
CONCEPTUAL SITE PLAN
DES PLAINES, COOK COUNTY, IL

SCALE:	DATE:	DRAWING CODE:
AS SHOWN	AUG 2013	FPCI01_Site Plan.DGN

NOTES:

1. THE SURVEY CONDITIONS SHOWN ON THESE DRAWINGS ARE FROM A LOCAL GIS DATA AND REPRESENTS CONDITIONS EXISTING AT THAT TIME.
2. ALL COORDINATES SHOWN ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83) U.S. FEET.
3. ALL ELEVATIONS SHOWN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) U.S. FEET.
4. STEEL SHEET PILE WILL BE DRIVEN INTO THE EXISTING LEVEE ALONG GROVELAND AVE. TO RAISE THE TOP ELEVATION TO 618. THE LENGTH OF SHEET PILE IS 867 LF.
5. THE PROPOSED FLOODWALL ON THE SOUTH SIDE OF FOREST AVE HAS A LENGTH OF 699 LF AND TOP ELEVATION OF 618.
6. THE PROPOSED ROADRAISE HAS A TOP ELEVATION OF 618 AND SIDE SLOPES OF 1(V):2(H).
7. ONE ROAD CLOSURE STRUCTURE WILL BE REQUIRED AT FOREST AVE TO CONTINUE THE LINE OF FLOOD PROTECTION.
8. FEE AREA TOTALS 2.5 ACRE.
9. THE TEMPORARY EASMENT AREA TOTALS 1.0 ACRE.

N

200′ 100′ 0 200′

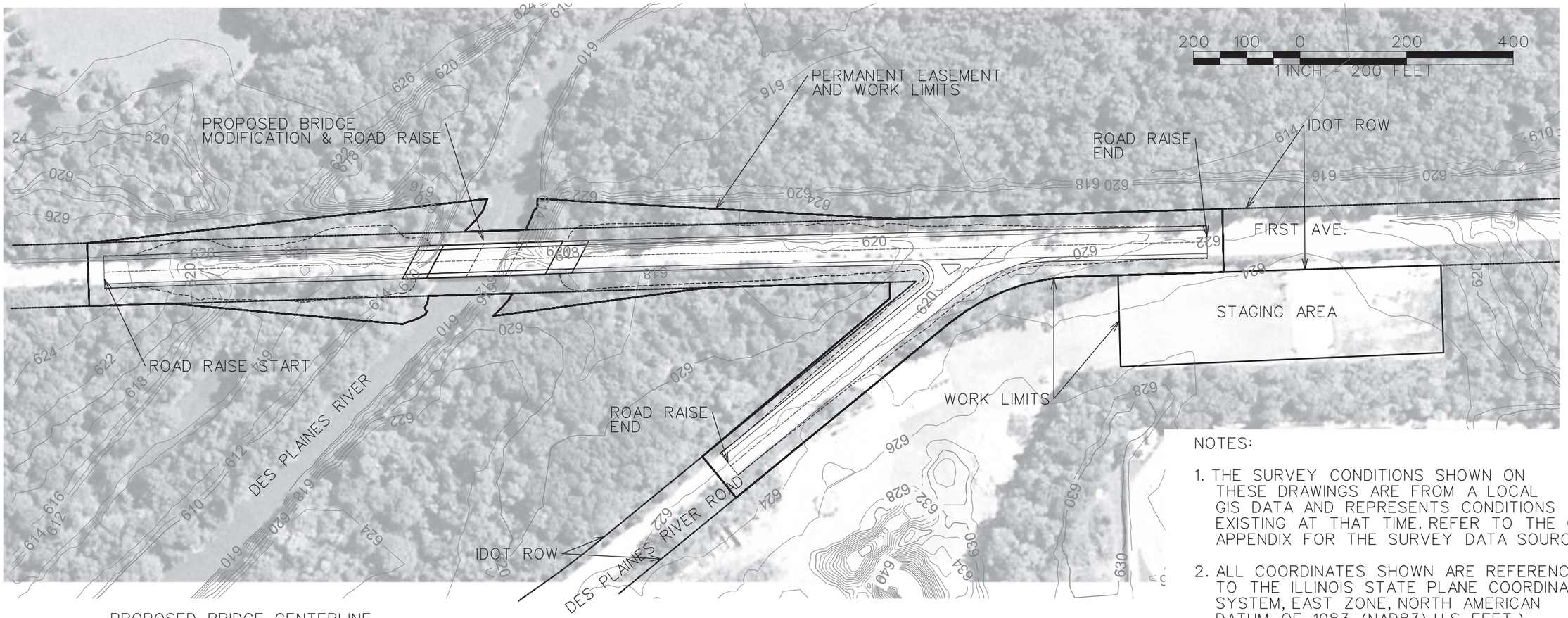
SCALE: 1′′= 200′-0″

U.S. Army Corps of Engineers
Chicago District

UPPER DES PLAINES RIVER AND TRIBUTARIES
FEASIBILITY REPORT
AND ENVIRONMENTAL ASSESSMENT
VOLUME 2 - NED PLAN

DPLV01 FLOODWALL
CONCEPTUAL SITE PLAN
RIVERSIDE , COOK COUNTY, IL

SCALE:	DATE:	DRAWING CODE:
1″ = 200′	AUG 2013	DPLV01_Siteplan.dgn

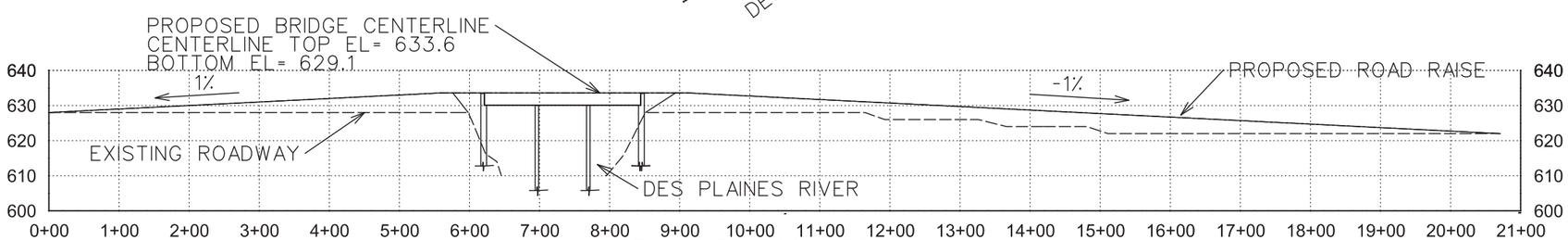


NOTES:

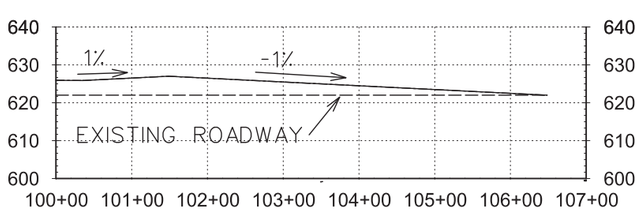
1. THE SURVEY CONDITIONS SHOWN ON THESE DRAWINGS ARE FROM A LOCAL GIS DATA AND REPRESENTS CONDITIONS EXISTING AT THAT TIME. REFER TO THE CIVIL APPENDIX FOR THE SURVEY DATA SOURCES.
2. ALL COORDINATES SHOWN ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83) U.S. FEET.)
3. ALL ELEVATIONS SHOWN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) U.S. FEET.

FEE AREA= 8.7 AC

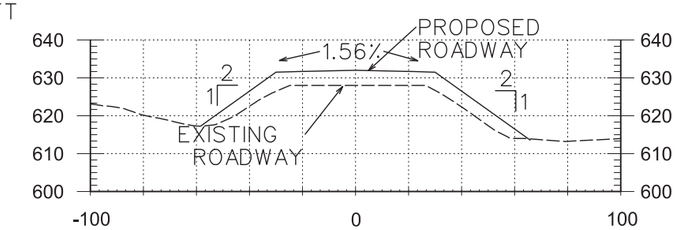
TEMPORARY EASEMENT AREA= 2.3 AC



1ST AVE PROPOSAL ROAD RAISE CENTERLINE PROFILE
VERTICAL SCALE: 1IN = 40 FT



RIVER ROAD PROPOSED ROAD RAISE CENTERLINE PROFILE
VERTICAL SCALE: 1IN = 40FT



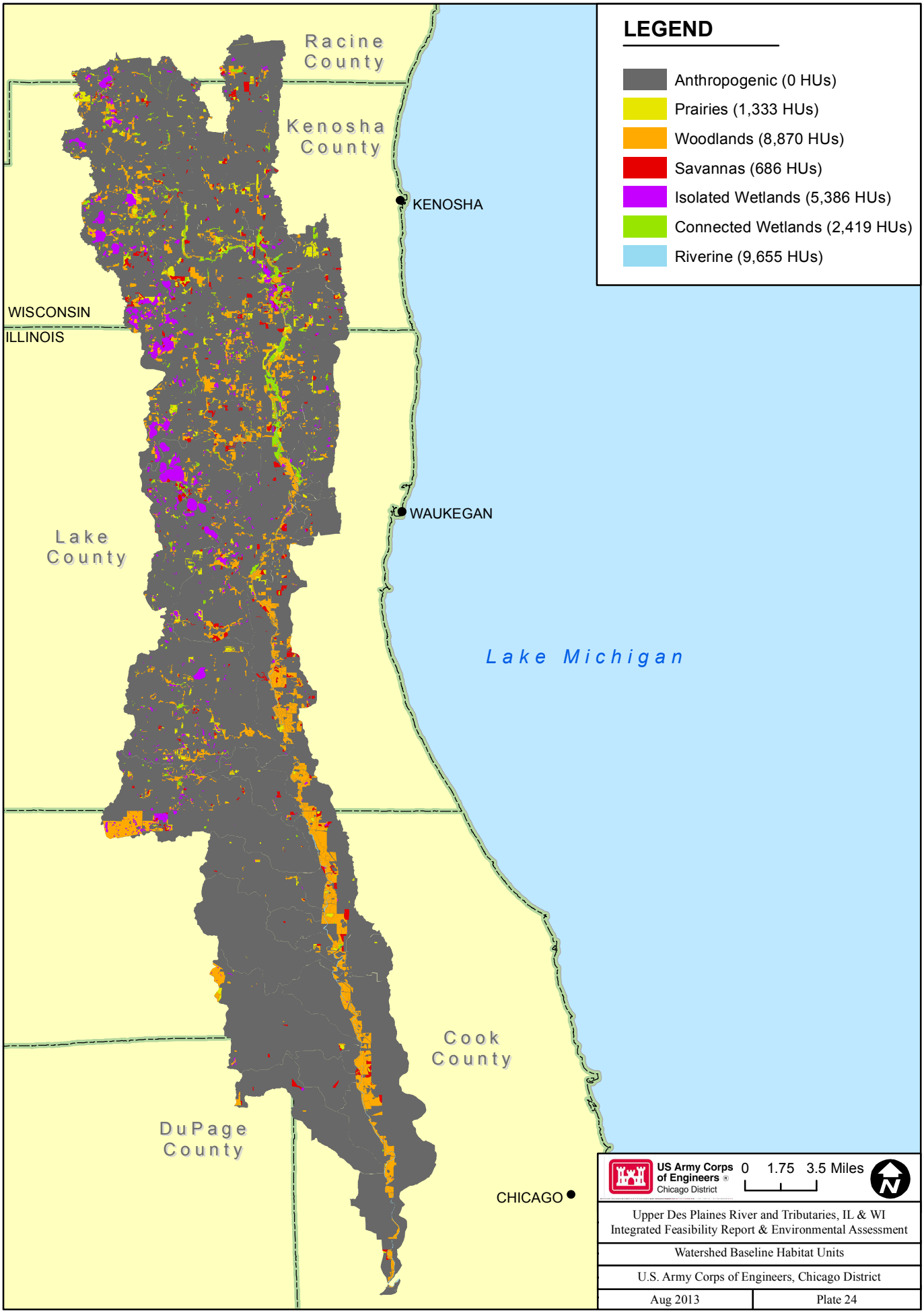
PROPOSED ROAD RAISE TYPICAL SECTION
NTS

U.S. Army Corps of Engineers
Chicago District

UPPER DES PLAINES RIVER AND TRIBUTARIES
FEASIBILITY REPORT
AND ENVIRONMENTAL ASSESSMENT
VOLUME 2 - NED PLAN

DPBM04 BRIDGE & ROAD RAISE
CONCEPTUAL SITE PLAN
LEYDEN, COOK COUNTY IL

SCALE:	DATE:	DRAWING CODE:
AS-SHOWN	AUG 2013	DPBM04_Siteplan.dgn



Upper Des Plaines River and Tributaries, IL & WI
Integrated Feasibility Report & Environmental Assessment

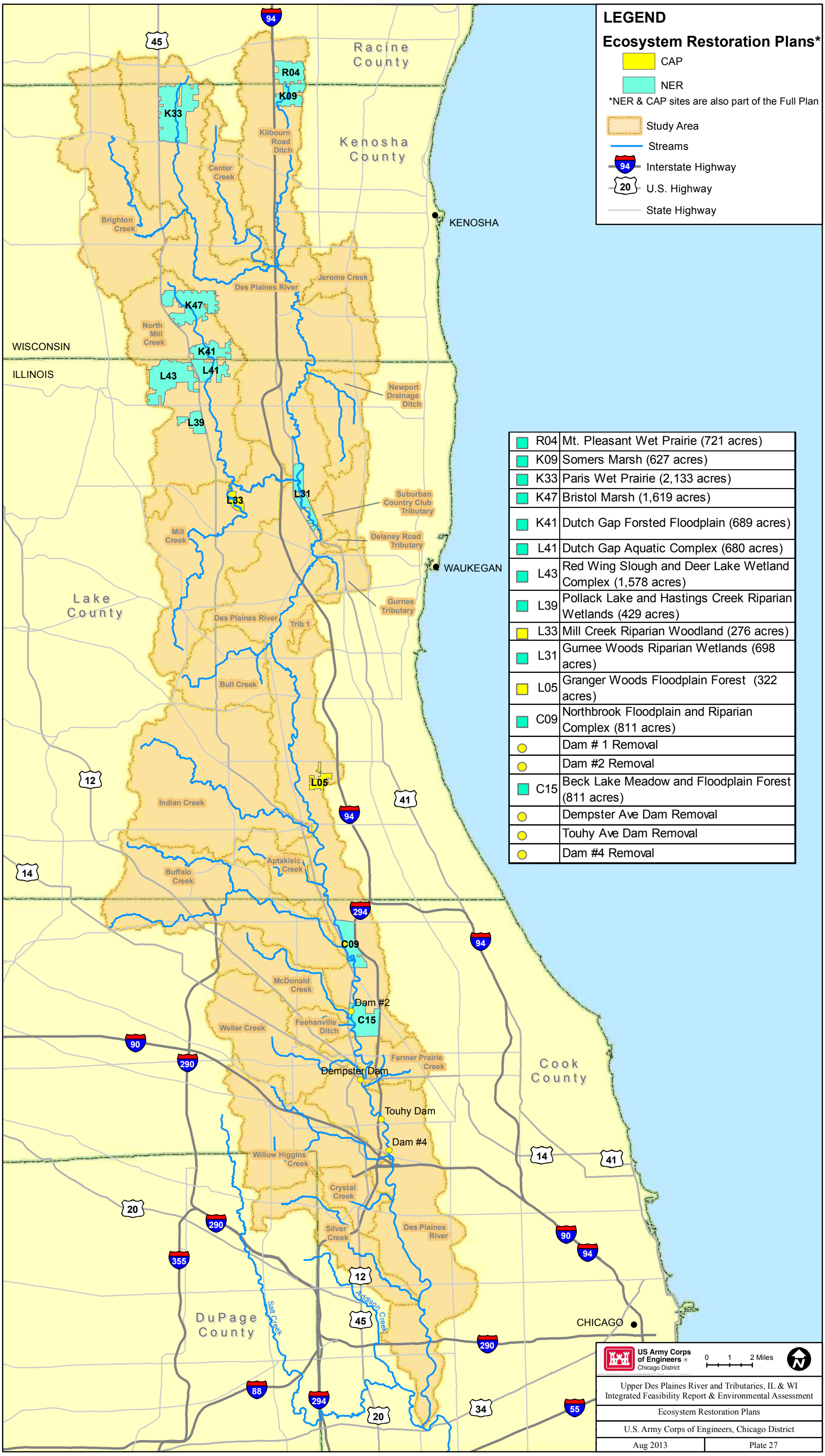
Watershed Baseline Habitat Units

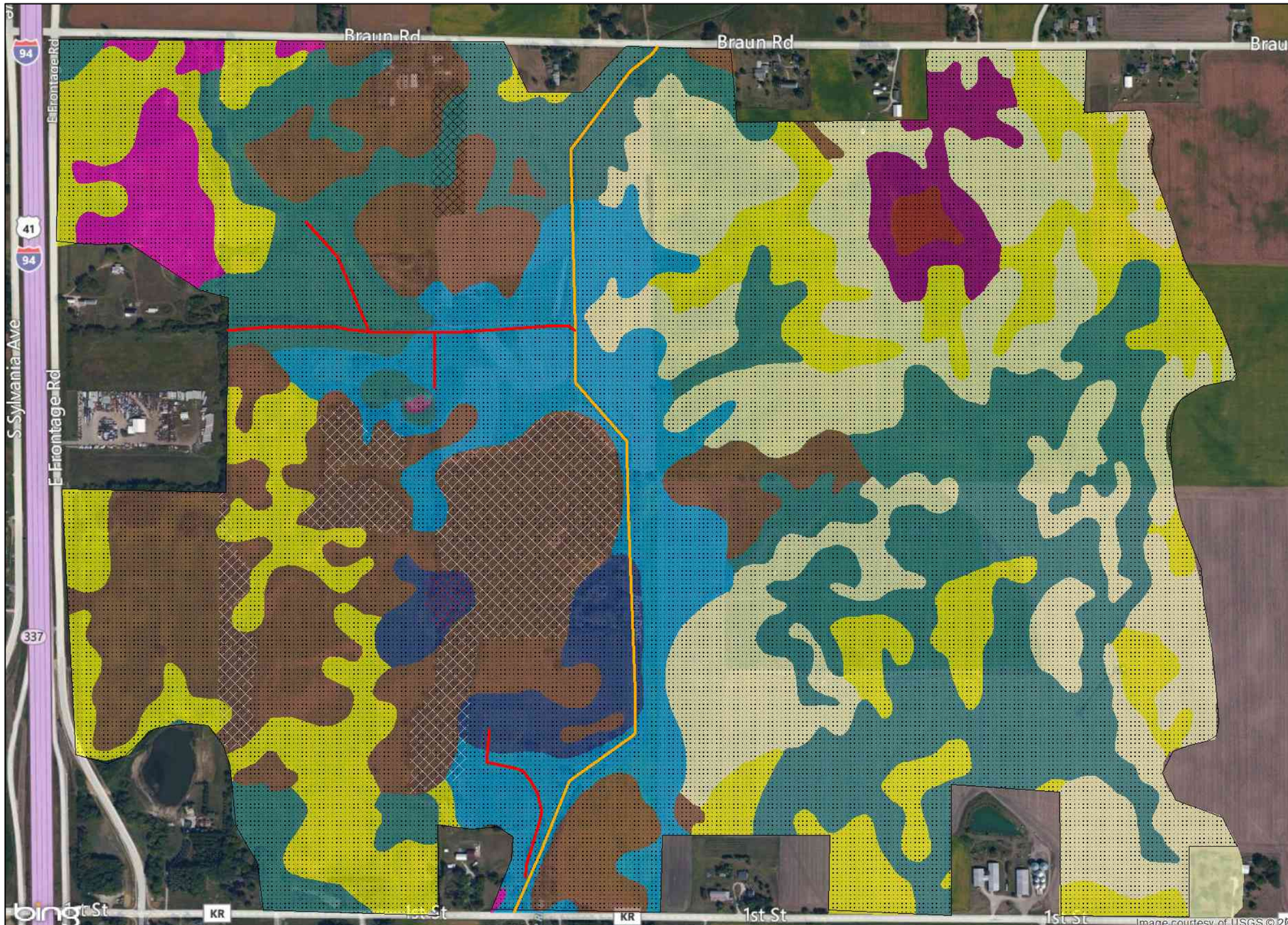
U.S. Army Corps of Engineers, Chicago District

Aug 2013 | Plate 24

LEGEND
Study Area
Streams
Interstate Highway
U.S. Highway
State Highway
713 Sites Assessed
Racine County
Kenosha County
Lake County
DuPage County
Cook County
WISCONSIN
ILLINOIS
KENOSHA
WAUKEGAN
CHICAGO
Lake Michigan
Center Creek
Kilbourn Road Ditch
Brighton Creek
Jerome Creek
Des Plaines River
North Mill Creek
Newport Drainage Ditch
Suburban Country Club Tributary
Mill Creek
Delaney Road Tributary
Gurnee Tributary
Trib 1
Des Plaines River
Bull Creek
Indian Creek
Aptakisic Creek
Buffalo Creek
McDonald Creek
Weller Creek
Feehanville Ditch
Farmer Prairie Creek
Willow Higgins Creek
Crystal Creek
Silver Creek
Des Plaines River
Salt Creek
Addison Creek
US Army Corps of Engineers
Chicago District
0 1 2 Miles
Upper Des Plaines River and Tributaries, IL & WI
Integrated Feasibility Report & Environmental Assessment
Identified ER Sites
U.S. Army Corps of Engineers, Chicago District
Aug 2013
Plate 25

LEGEND
131 Retained Sites by Score
11
12
13
14
15
16
18
Study Area
Interstate Highway
U.S. Highway
State Highway
Streams
Racine County
Kenosha County
Lake County
DuPage County
Cook County
WISCONSIN
ILLINOIS
KENOSHA
WAUKEGAN
CHICAGO
Lake Michigan
Center Creek
Kilbourn Road Ditch
Brighton Creek
Jerome Creek
Des Plaines River
North Mill Creek
Newport Drainage Ditch
Suburban Country Club Tributary
Delaney Road Tributary
Gurnee Tributary
Mill Creek
Trib 1
Bull Creek
Indian Creek
Aptakisic Creek
Buffalo Creek
McDonald Creek
Feehanville Ditch
Weller Creek
Farmer Prairie Creek
Willow Higgins Creek
Crystal Creek
Silver Creek
Addison Creek
Salt Creek
US Army Corps of Engineers
Chicago District
0 1 2 Miles
Upper Des Plaines River and Tributaries, IL & WI
Integrated Feasibility Report & Environmental Assessment
Retained ER Sites
U.S. Army Corps of Engineers, Chicago District
Aug 2013
Plate 26


LEGEND
Ecosystem Restoration Plans*
CAP
NER
*NER & CAP sites are also part of the Full Plan
Study Area
Streams
Interstate Highway
U.S. Highway
State Highway
R04 Mt. Pleasant Wet Prairie (721 acres)
K09 Somers Marsh (627 acres)
K33 Paris Wet Prairie (2,133 acres)
K47 Bristol Marsh (1,619 acres)
K41 Dutch Gap Forsted Floodplain (689 acres)
L41 Dutch Gap Aquatic Complex (680 acres)
L43 Red Wing Slough and Deer Lake Wetland Complex (1,578 acres)
L39 Pollack Lake and Hastings Creek Riparian Wetlands (429 acres)
L33 Mill Creek Riparian Woodland (276 acres)
L31 Gurnee Woods Riparian Wetlands (698 acres)
L05 Granger Woods Floodplain Forest (322 acres)
C09 Northbrook Floodplain and Riparian Complex (811 acres)
Dam # 1 Removal
Dam #2 Removal
C15 Beck Lake Meadow and Floodplain Forest (811 acres)
Dempster Ave Dam Removal
Touhy Ave Dam Removal
Dam #4 Removal
Racine County
Kenosha County
Lake County
DuPage County
Cook County
WISCONSIN
ILLINOIS
KENOSHA
WAUKEGAN
CHICAGO
Kilbourn Road Ditch
Center Creek
Brighton Creek
Jerome Creek
Des Plaines River
North Mill Creek
Newport Drainage Ditch
Suburban Country Club Tributary
Delaney Road Tributary
Mill Creek
Gurnee Tributary
Trib 1
Bull Creek
Indian Creek
Aptakisic Creek
Buffalo Creek
McDonald Creek
Feehanville Ditch
Weller Creek
Farmer Prairie Creek
Dam #2
Dempster Dam
Touhy Dam
Dam #4
Willow Higgins Creek
Crystal Creek
Silver Creek
Salt Creek
Addison Creek
US Army Corps of Engineers
Chicago District
0 1 2 Miles
Upper Des Plaines River and Tributaries, IL & WI
Integrated Feasibility Report & Environmental Assessment
Ecosystem Restoration Plans
U.S. Army Corps of Engineers, Chicago District
Aug 2013
Plate 27



LEGEND

- Fill Ditch
- Meander
- Drain Tiles
- Herbaceous Removal
- Tree Removal
- Understory & Tree Thin
- FORFLPLWET
- FORFUPLWET
- FORNFLATS
- FORUPLWET
- MARSHBASIN
- MARSHSTRMS
- MEADOW
- PRAIRIEDRY
- PRAIRIEWET
- SAVANNADRY
- SAVANNAWET
- URBAN
- WATER
- WOODLNDDRY

US Army Corps of Engineers
Chicago District

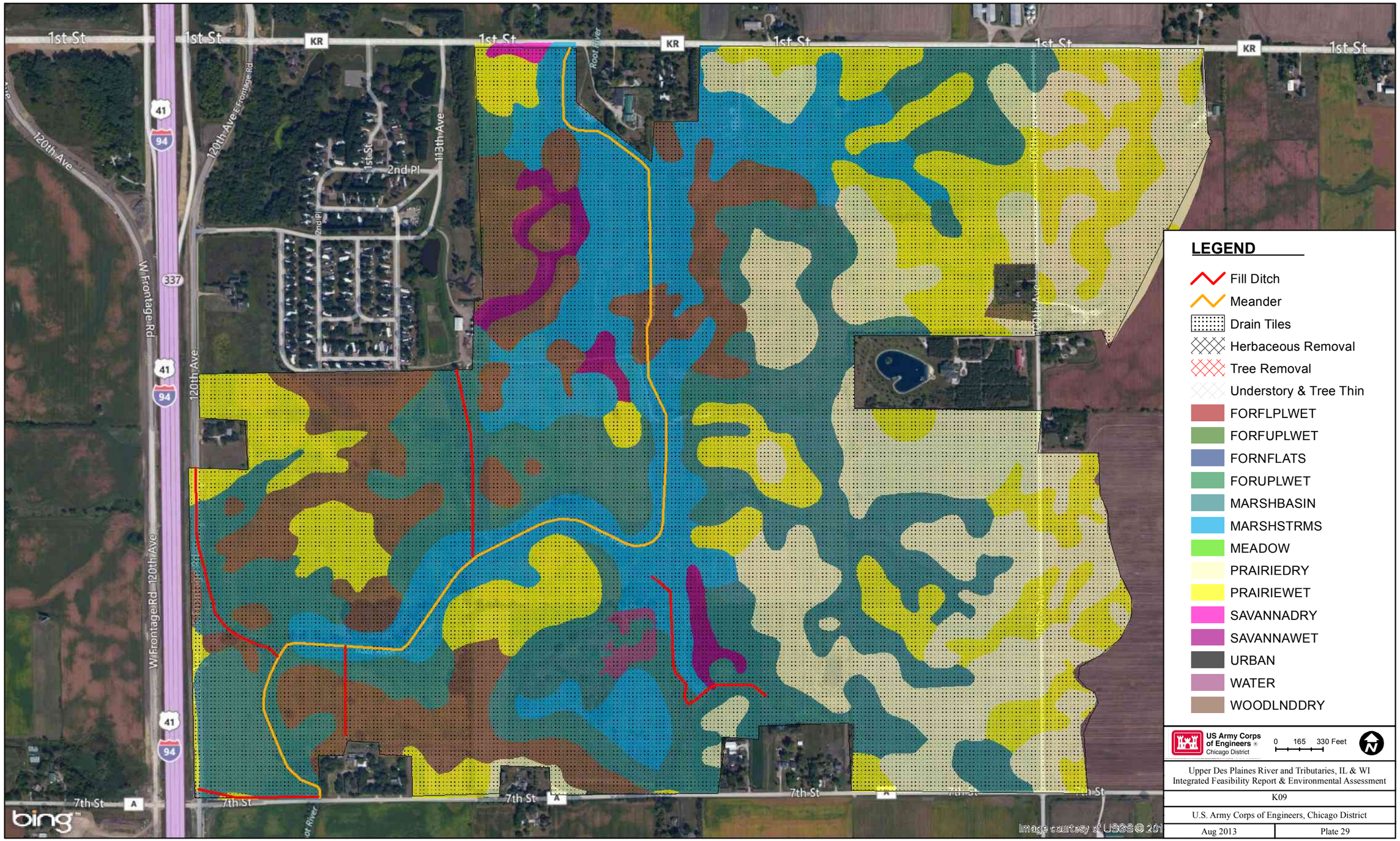
0 0.025 0.05 Miles

Upper Des Plaines River and Tributaries, IL & WI
Integrated Feasibility Report & Environmental Assessment

R04

U.S. Army Corps of Engineers, Chicago District

Aug 2013	Plate 28

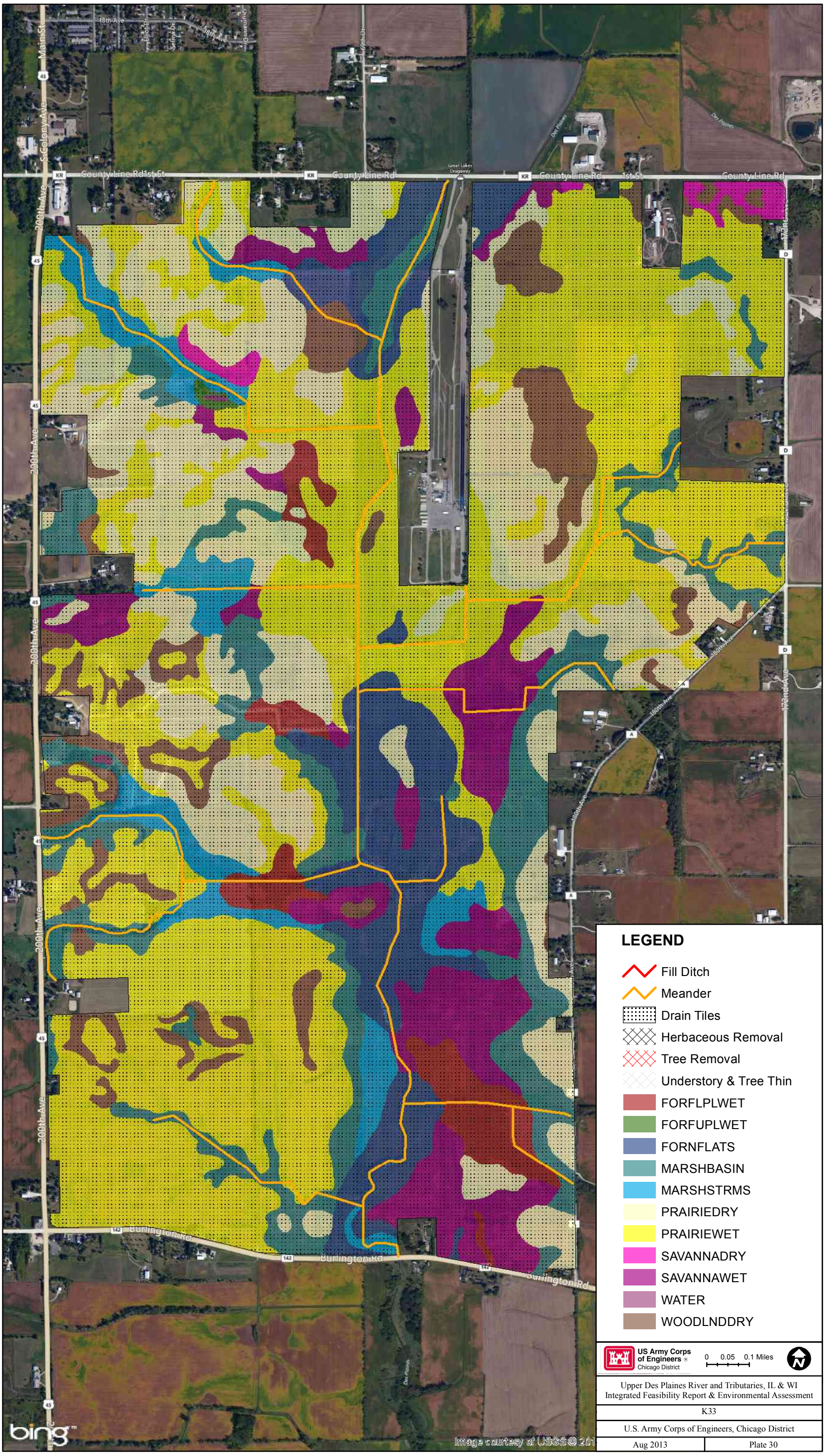


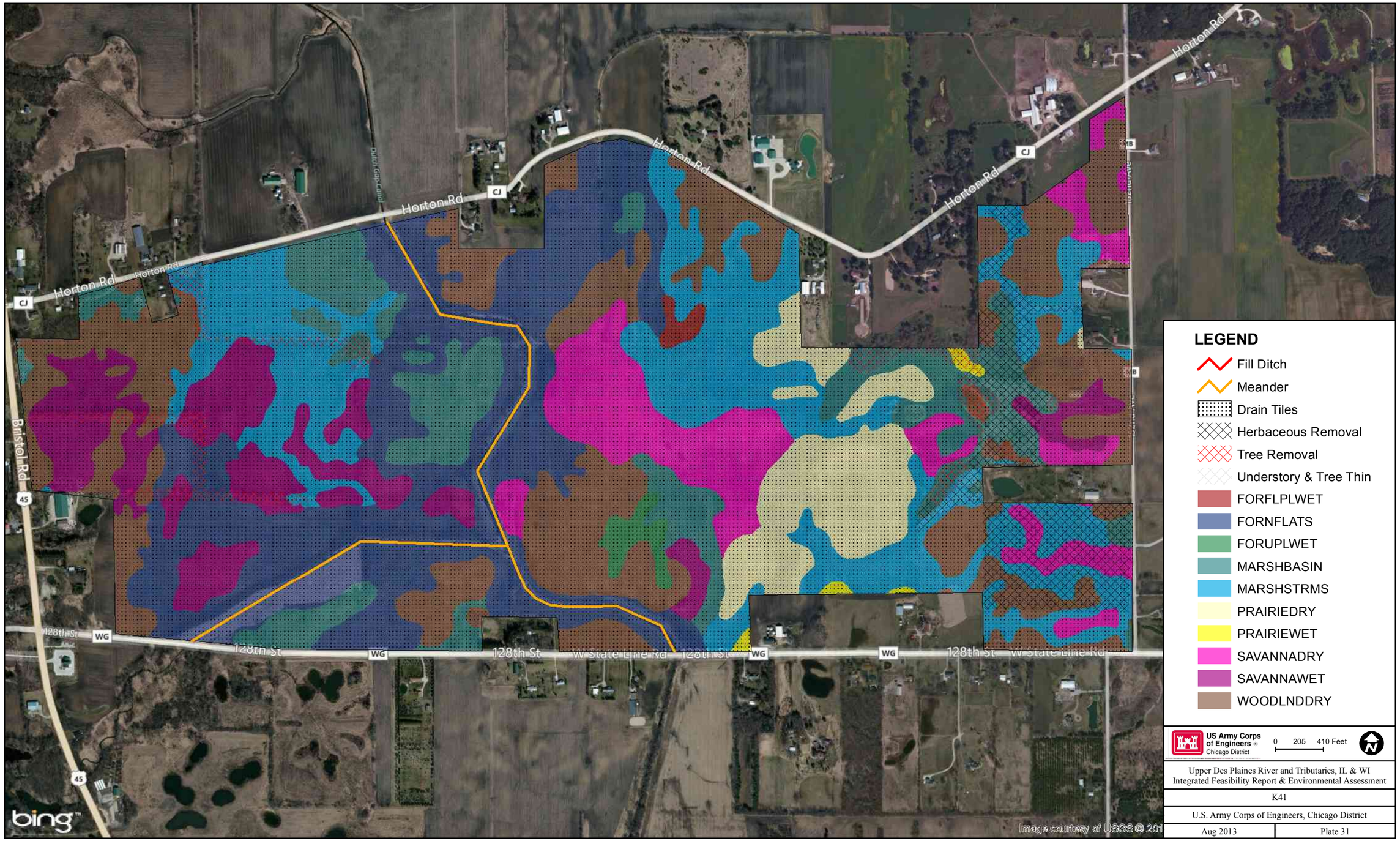
Upper Des Plaines River and Tributaries, IL & WI
Integrated Feasibility Report & Environmental Assessment

K09

U.S. Army Corps of Engineers, Chicago District

Aug 2013	Plate 29


LEGEND
Fill Ditch
Meander
Drain Tiles
Herbaceous Removal
Tree Removal
Understory & Tree Thin
FORFLPLWET
FORFUPLWET
FORNFLATS
MARSHBASIN
MARSHSTRMS
PRAIRIEDRY
PRAIRIEWET
SAVANNADRY
SAVANNAWET
WATER
WOODLNDDRY
US Army Corps of Engineers
Chicago District
0 0.05 0.1 Miles
Upper Des Plaines River and Tributaries, IL & WI
Integrated Feasibility Report & Environmental Assessment
K33
U.S. Army Corps of Engineers, Chicago District
Aug 2013
Plate 30
County Line Rd
1st St
Main St
S Colony Ave
200th Ave
Burlington Rd
bing

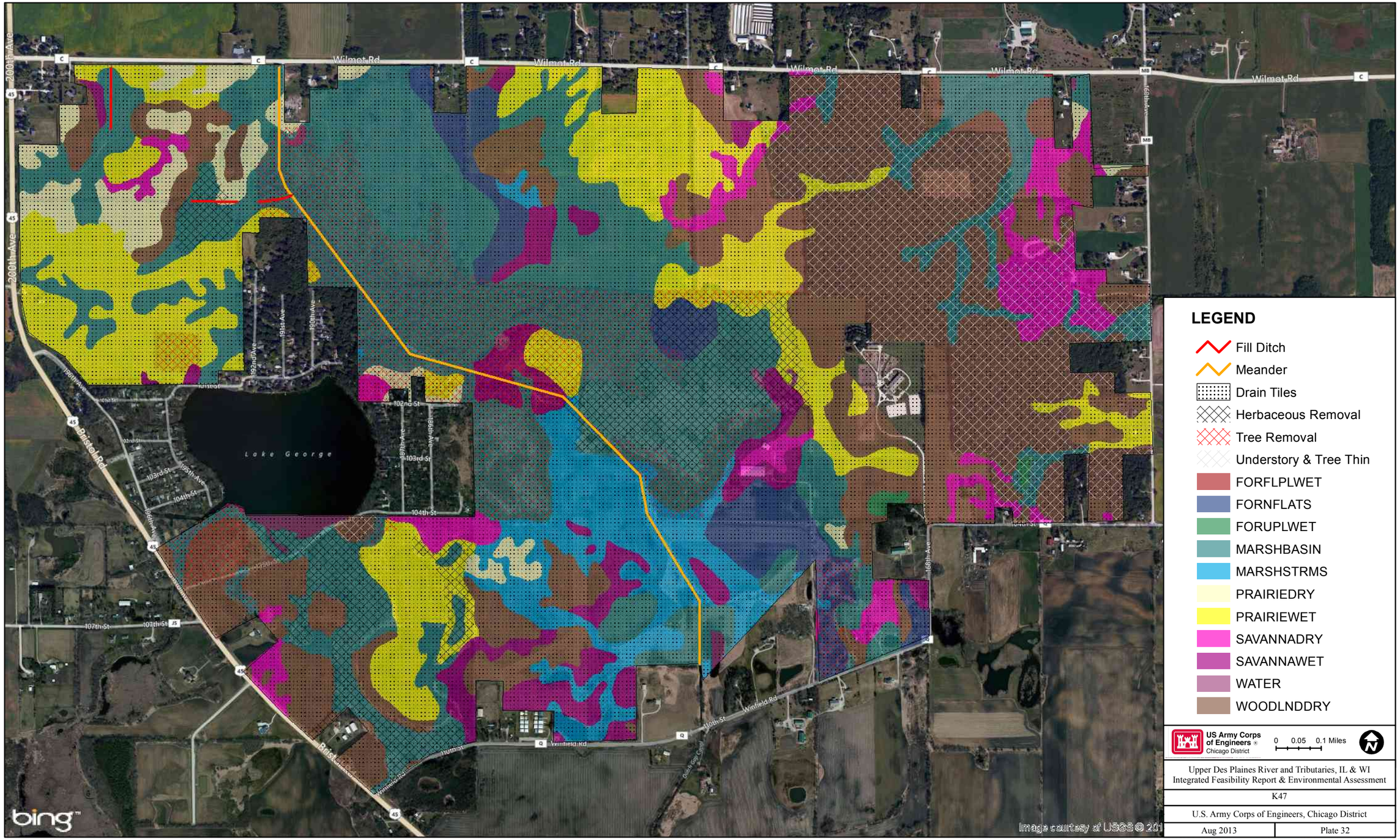


Upper Des Plaines River and Tributaries, IL & WI
Integrated Feasibility Report & Environmental Assessment

K41

U.S. Army Corps of Engineers, Chicago District

Aug 2013	Plate 31

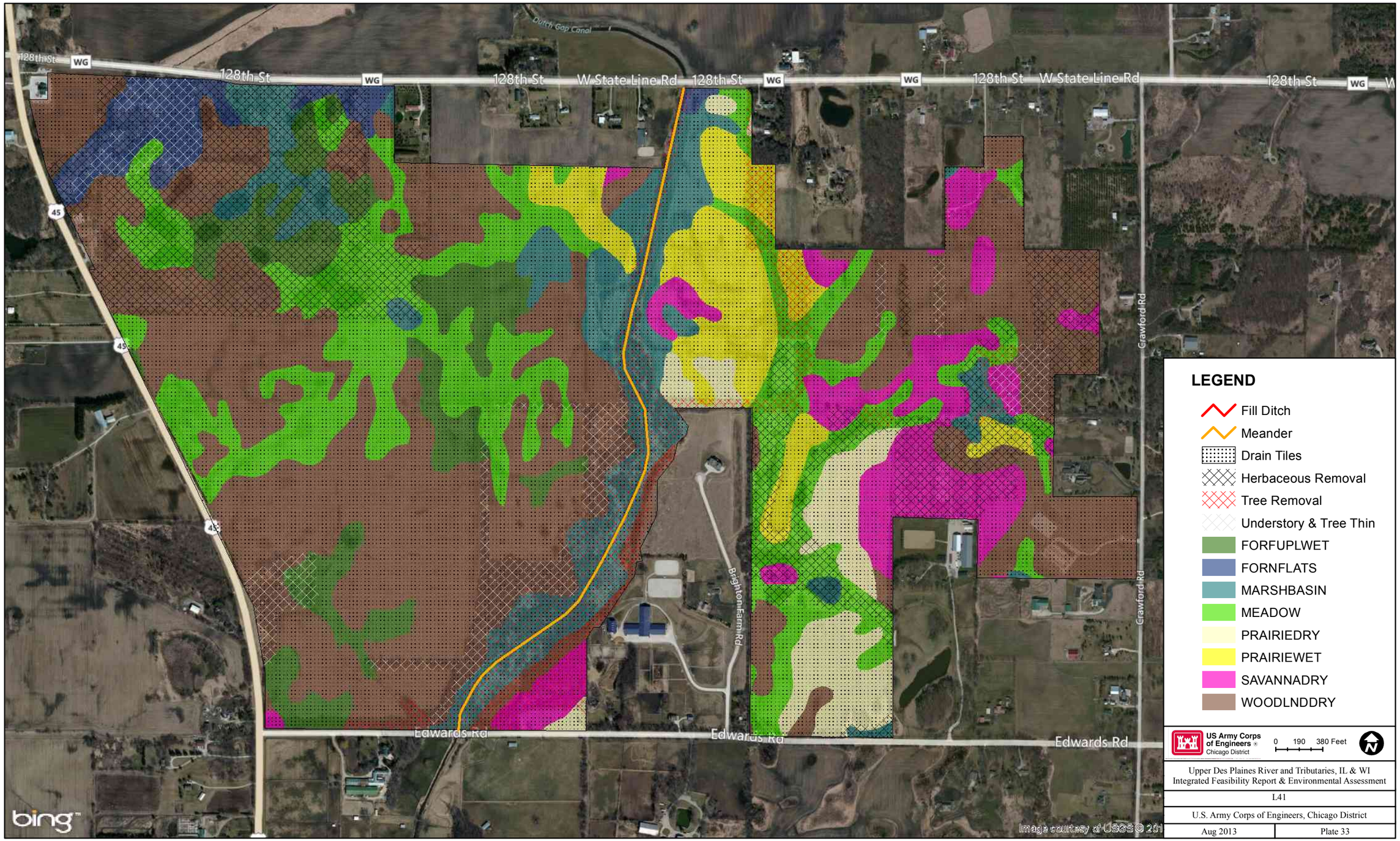


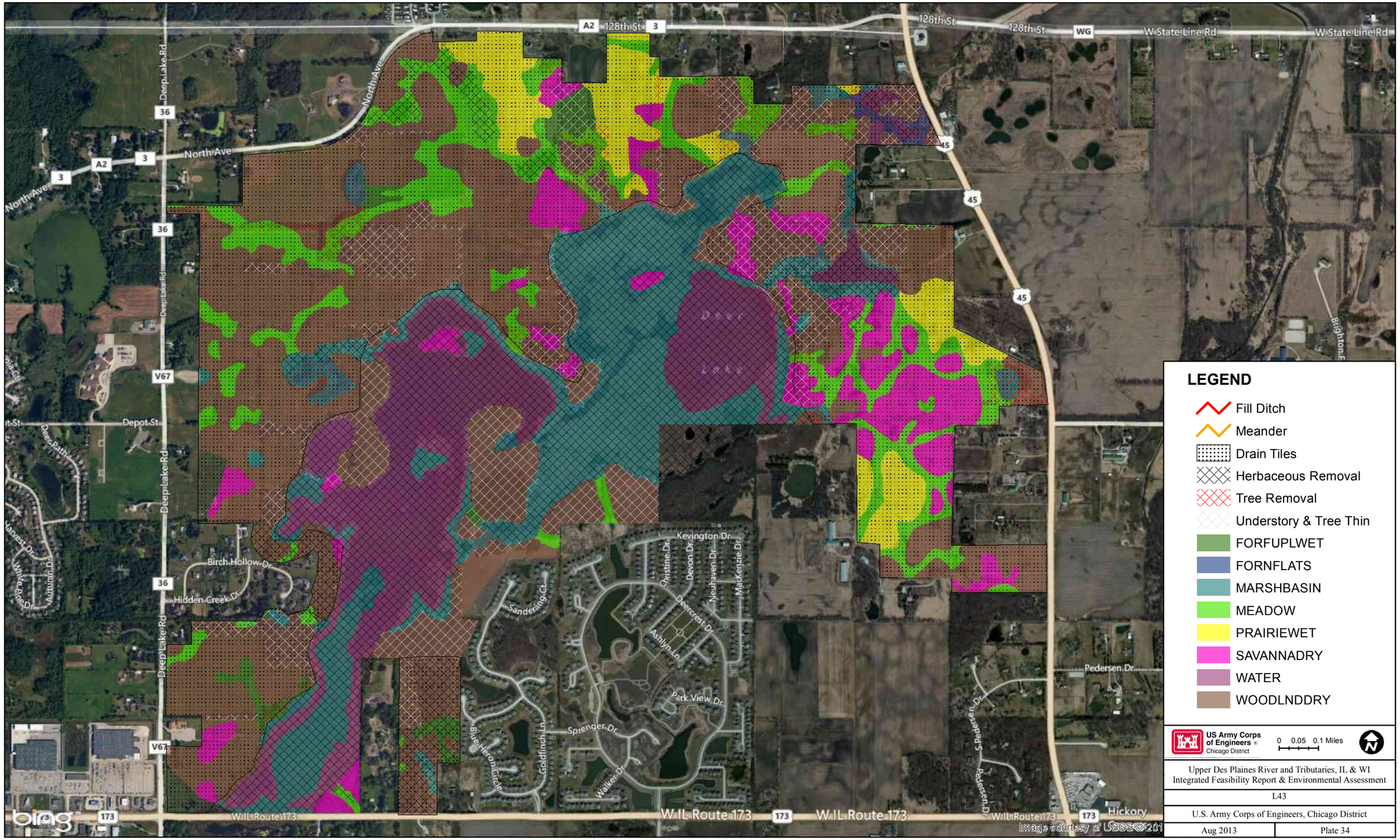
Upper Des Plaines River and Tributaries, IL & WI
Integrated Feasibility Report & Environmental Assessment

K47

U.S. Army Corps of Engineers, Chicago District

Aug 2013 | Plate 32


128th St
WG
W State Line Rd
Dutch Gap Canal
45
Brighton Farm Rd
Crawford Rd
Edwards Rd
bing
Image courtesy of USGS © 201
LEGEND
Fill Ditch
Meander
Drain Tiles
Herbaceous Removal
Tree Removal
Understory & Tree Thin
FORFUPLWET
FORNFLATS
MARSHBASIN
MEADOW
PRAIRIEDRY
PRAIRIEWET
SAVANNADRY
WOODLNDDRY
US Army Corps of Engineers
Chicago District
0 190 380 Feet
Upper Des Plaines River and Tributaries, IL & WI
Integrated Feasibility Report & Environmental Assessment
L41
U.S. Army Corps of Engineers, Chicago District
Aug 2013
Plate 33



LEGEND

- Fill Ditch
- Meander
- Drain Tiles
- Herbaceous Removal
- Tree Removal
- Understory & Tree Thin
- FORFUPLWET
- FORNFLATS
- MARSHBASIN
- MEADOW
- PRAIRIEWET
- SAVANNADRY
- WATER
- WOODLNDDRY

US Army Corps of Engineers
Chicago District

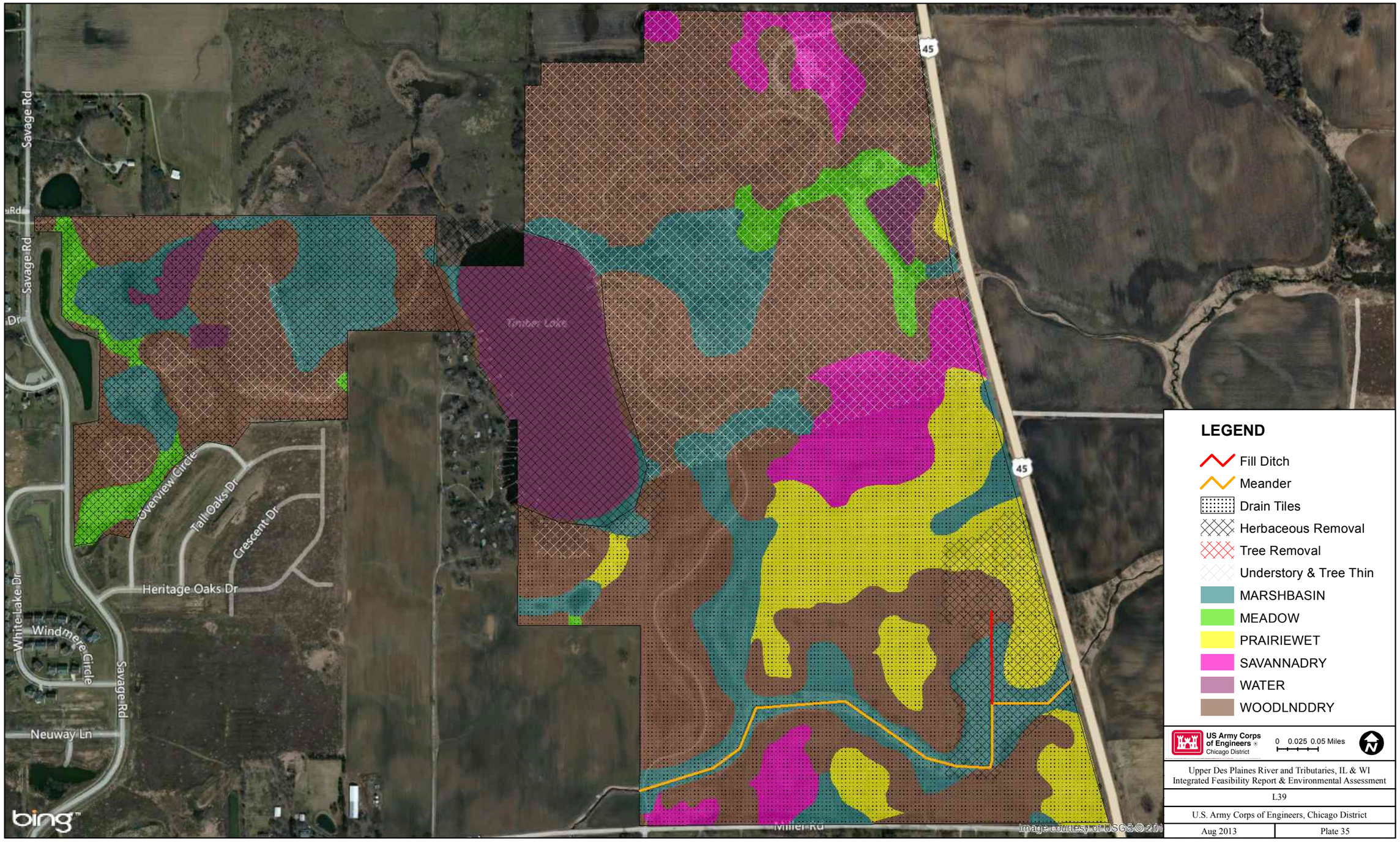
0 0.05 0.1 Miles

Upper Des Plaines River and Tributaries, IL & WI
Integrated Feasibility Report & Environmental Assessment

L43

U.S. Army Corps of Engineers, Chicago District

Aug 2013 | Plate 34

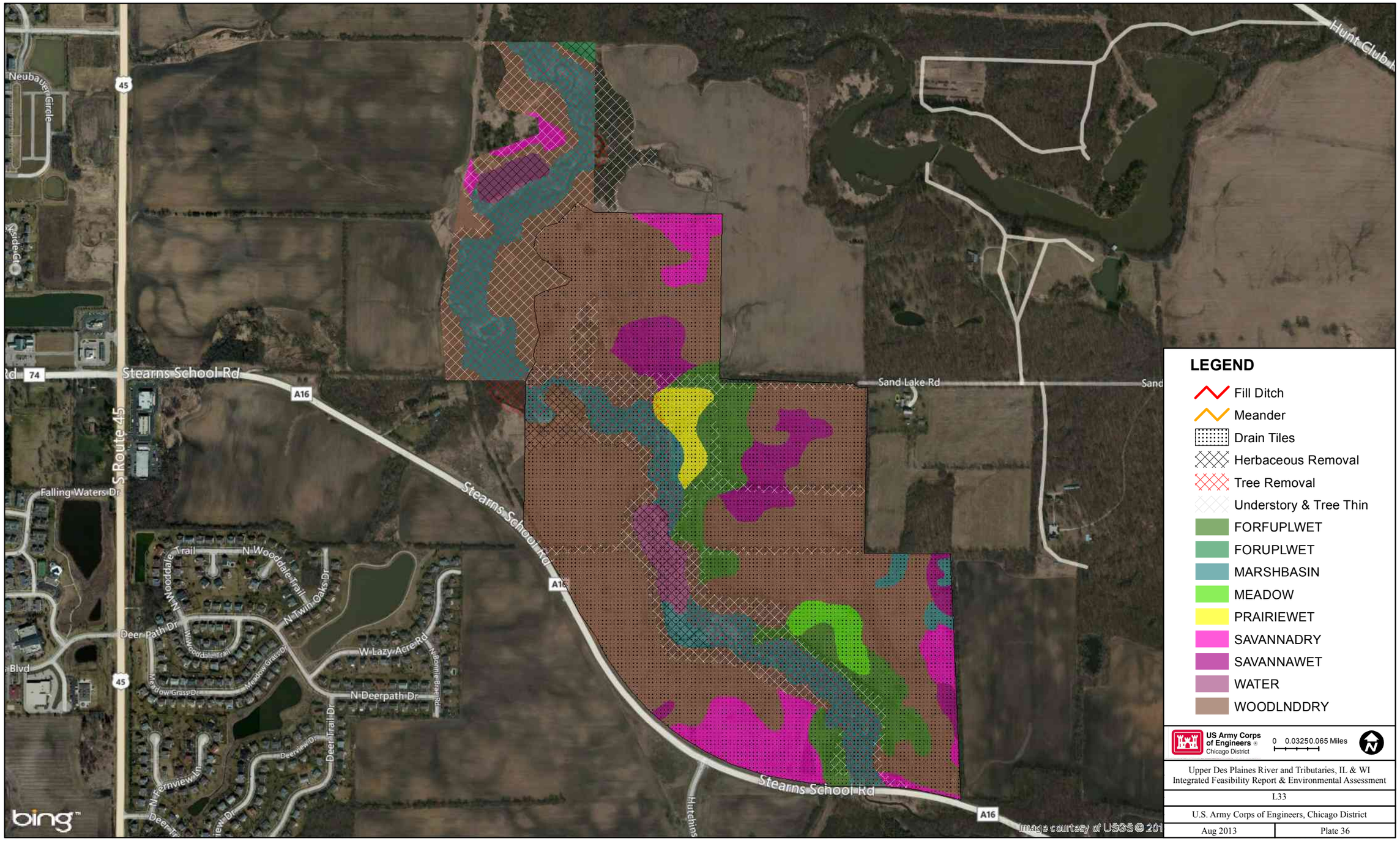


Upper Des Plaines River and Tributaries, IL & WI
Integrated Feasibility Report & Environmental Assessment

L39

U.S. Army Corps of Engineers, Chicago District

Aug 2013 | Plate 35

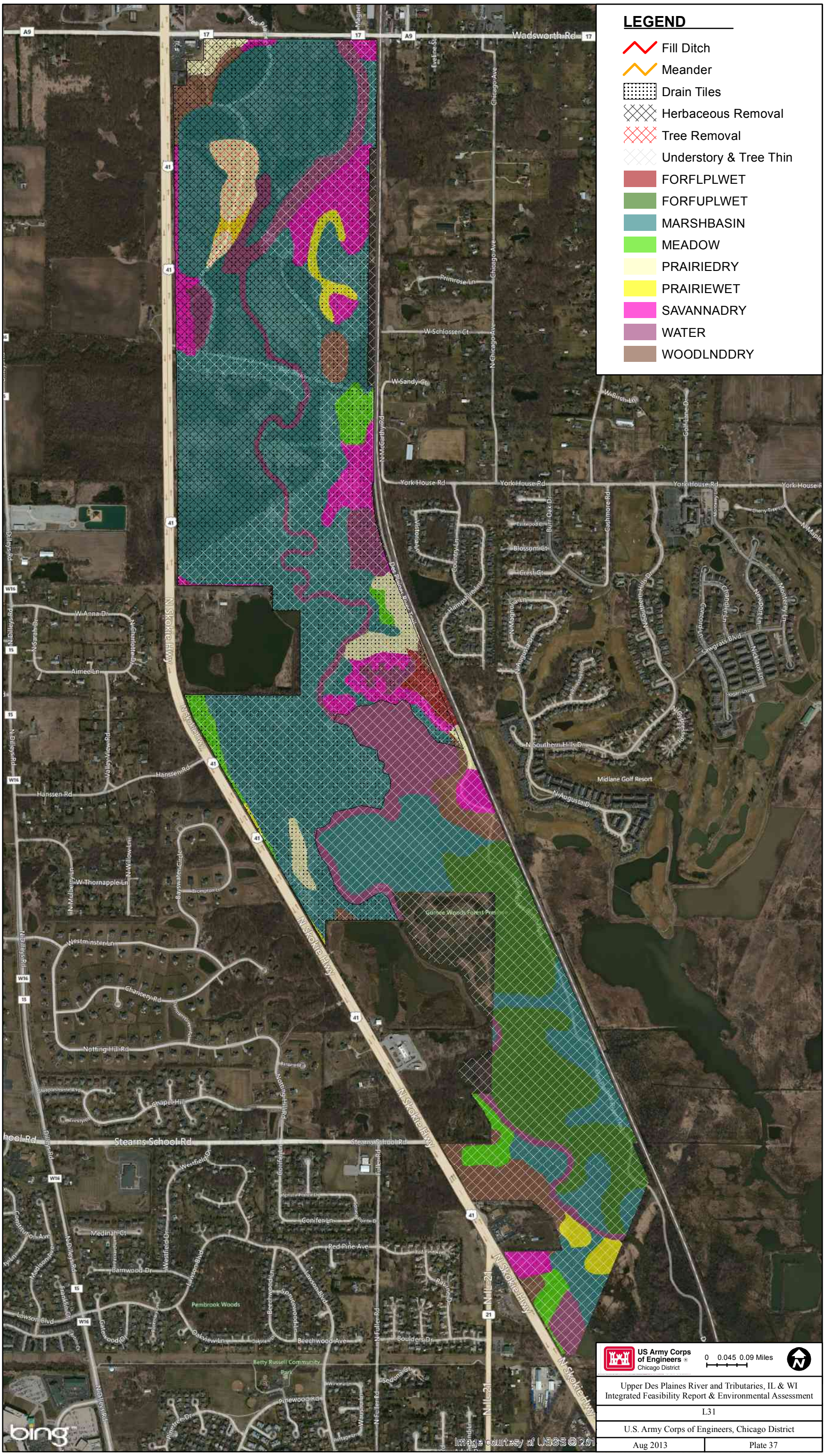


Upper Des Plaines River and Tributaries, IL & WI
Integrated Feasibility Report & Environmental Assessment

L33

U.S. Army Corps of Engineers, Chicago District

Aug 2013	Plate 36



US Army Corps of Engineers®
Chicago District

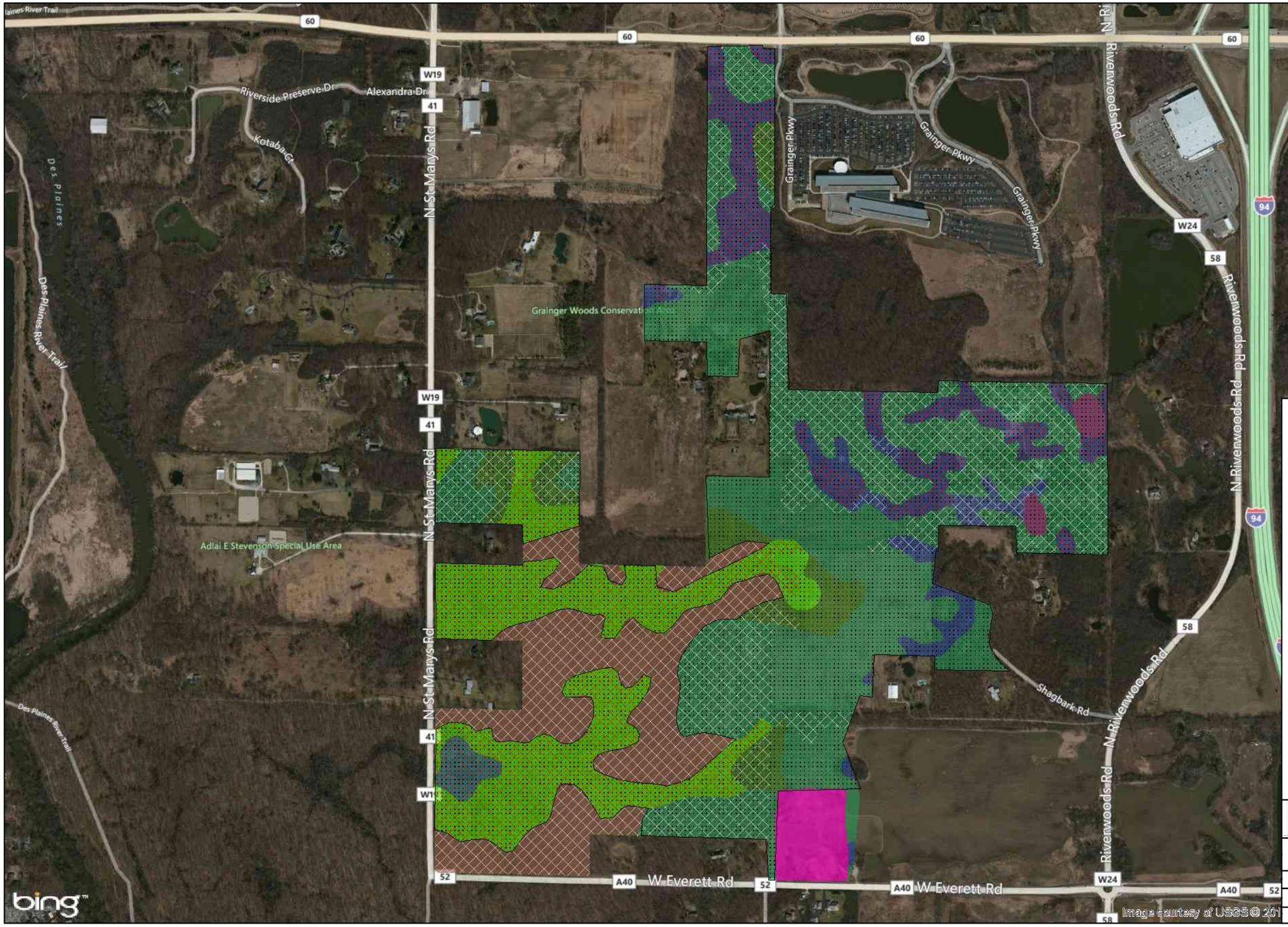
0 0.045 0.09 Miles

Upper Des Plaines River and Tributaries, IL & WI
Integrated Feasibility Report & Environmental Assessment

L31

U.S. Army Corps of Engineers, Chicago District

Aug 2013 | Plate 37



LEGEND

- Fill Ditch
- Meander
- Drain Tiles
- Herbaceous Removal
- Tree Removal
- Understory & Tree Thin
- FORFUPLWET
- FORNFLATS
- FORUPLWET
- MARSHBASIN
- MEADOW
- SAVANNADRY
- WATER
- WOODLNDDRY

US Army Corps of Engineers
Chicago District

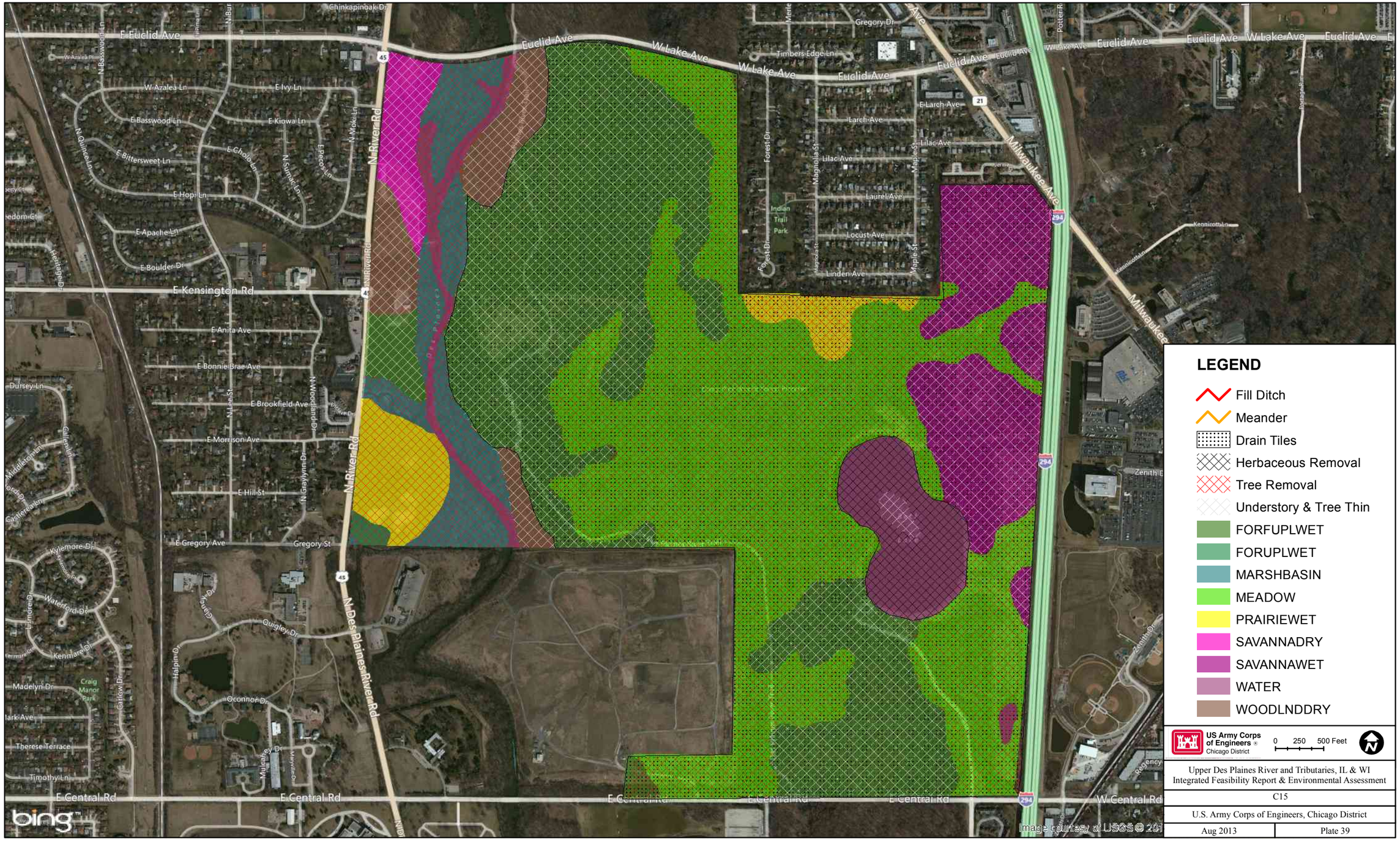
0 0.0325 0.065 Miles

Upper Des Plaines River and Tributaries, IL & WI
Integrated Feasibility Report & Environmental Assessment

L05

U.S. Army Corps of Engineers, Chicago District

Aug 2013 | Plate 38

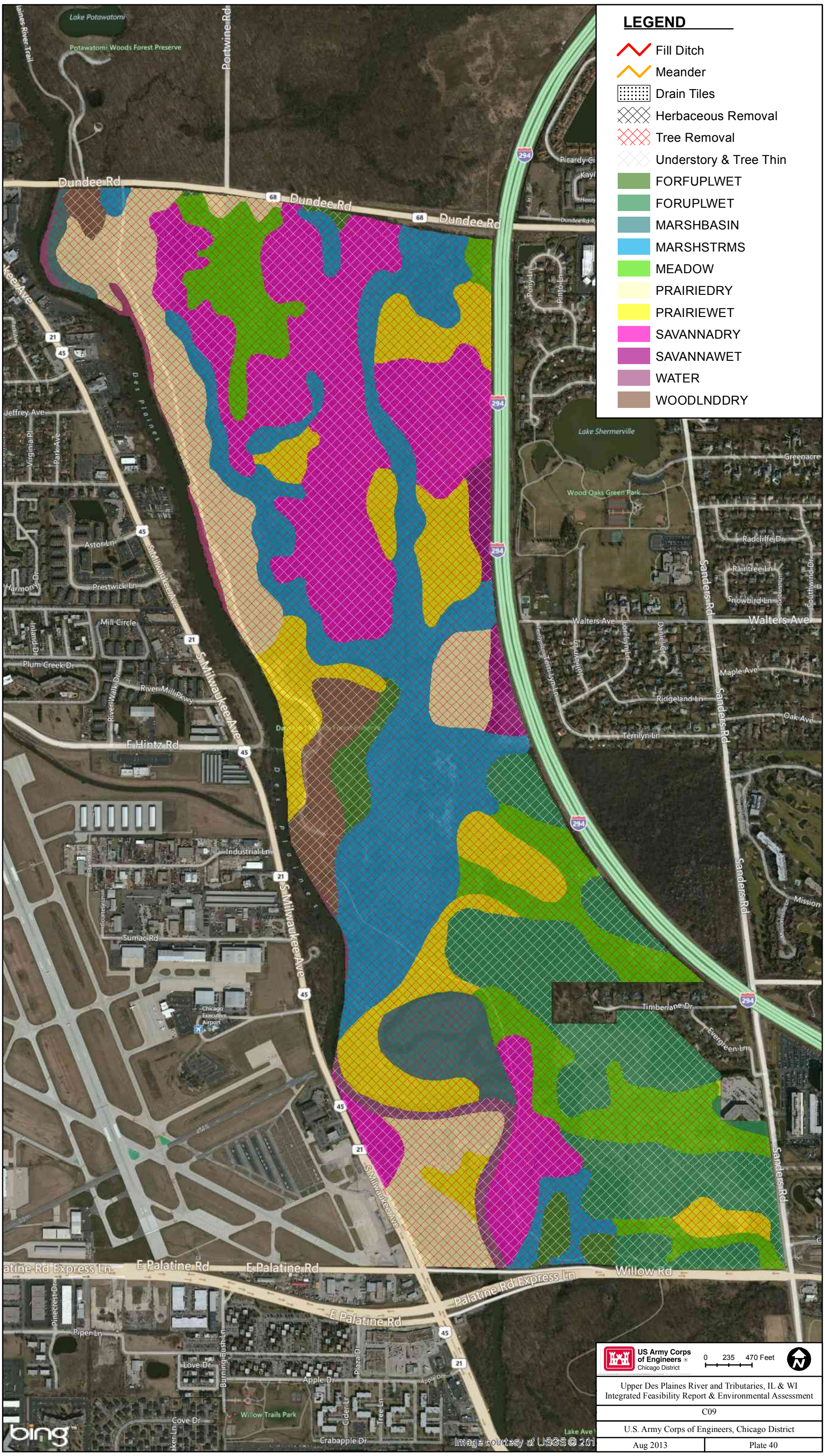


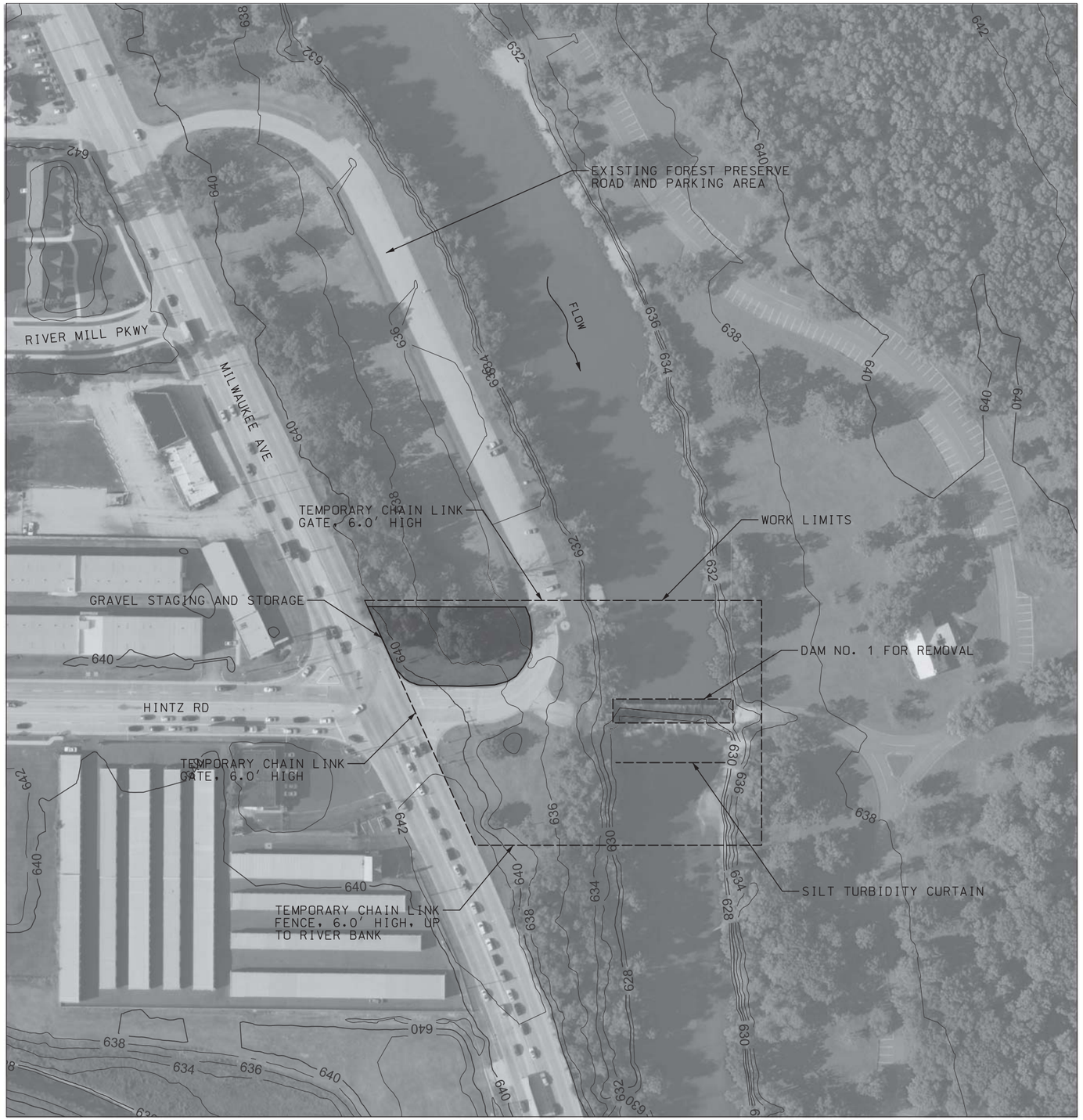
Upper Des Plaines River and Tributaries, IL & WI
Integrated Feasibility Report & Environmental Assessment

C15

U.S. Army Corps of Engineers, Chicago District

Aug 2013 | Plate 39


LEGEND
Fill Ditch
Meander
Drain Tiles
Herbaceous Removal
Tree Removal
Understory & Tree Thin
FORFUPLWET
FORUPLWET
MARSHBASIN
MARSHSTRMS
MEADOW
PRAIRIEDRY
PRAIRIEWET
SAVANNADRY
SAVANNAWET
WATER
WOODLNDDRY
Lake Potawatomi
Potawatomi Woods Forest Preserve
Dundee Rd
Lake Shermerville
Wood Oaks Green Park
Walters Ave
Sanders Rd
S Milwaukee Ave
E Hintz Rd
E Palatine Rd
Palatine Rd Express Ln
Willow Rd
Chicago Executive Airport
Willow Trails Park
US Army Corps of Engineers
Chicago District
0 235 470 Feet
Upper Des Plaines River and Tributaries, IL & WI
Integrated Feasibility Report & Environmental Assessment
C09
U.S. Army Corps of Engineers, Chicago District
Aug 2013
Plate 40



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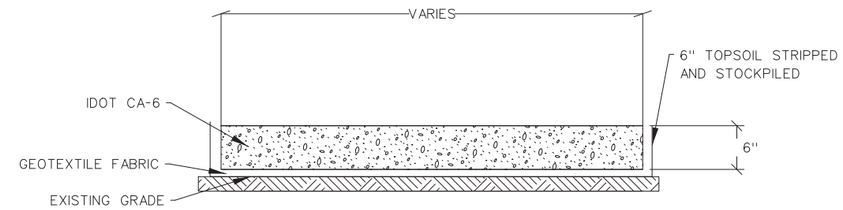


DAM NO. 1 GRAVEL STAGING & STORAGE (TYP)
N.T.S.

NOTES:

1. THE SURVEY CONDITIONS SHOWN ON THESE DRAWINGS ARE FROM LOCAL GIS DATA AND REPRESENTS CONDITIONS EXISTING AT THAT TIME.
2. ALL COORDINATES SHOWN ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83) U.S. FEET.
3. ALL ELEVATIONS SHOWN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) U.S. FEET.
4. STAGING AND STORAGE AREAS SHALL BE CONSTRUCTED AS SHOWN ON TYPICAL SECTION
5. ALL GRAVEL AND GEOTEXTILE FABRIC SHALL BE REMOVED AFTER DEMOLITION ACTIVITIES ARE COMPLETED AND PROPERLY DISPOSED.
6. STRIPPED TOPSOIL SHALL BE REPLACED AND THE ACCESS ROAD AND STAGING/STORAGE AREA SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITION.
7. AT A MINIMUM CLEARING AND GRUBBING SHALL TAKE PLACE ON THE AREA COVERED BY THE TEMPORARY GRAVEL ACCESS ROAD AND STAGING/STORAGE AREA TO ALLOW THE CONTRACTOR ACCESS TO THE DAM.

0 150' 300'

SCALE:1"=150'

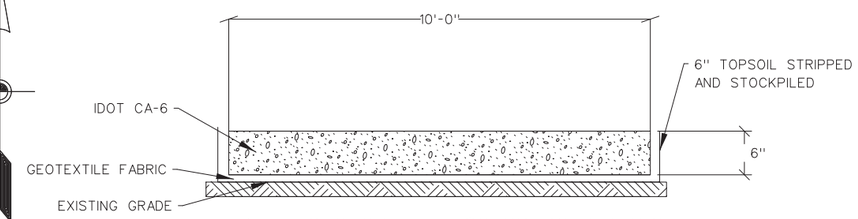
U.S. Army Corps of Engineers
Chicago District

UPPER DES PLAINES RIVER AND TRIBUTARIES FEASIBILITY REPORT AND ENVIRONMENTAL ASSESSMENT

DAM NO. 1 REMOVAL SITE PLAN
WHEELING, COOK COUNTY, IL

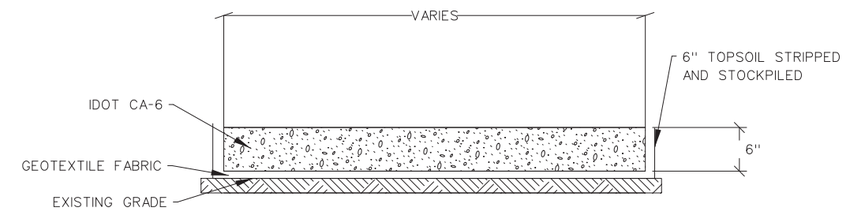
SCALE:	DATE:	DRAWING CODE:
1" = 150'-0"	AUG 2013	DAM_NO_1_SITE_PLAN.DGN

N



DAM NO. 2 GRAVEL ACCESS ROAD (TYP)

N.T.S.



DAM NO. 2 GRAVEL STAGING & STORAGE (TYP)

N.T.S.

NOTES:

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2. ALL COORDINATES SHOWN ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83) U.S. FEET.
3. ALL ELEVATIONS SHOWN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) U.S. FEET.
4. STAGING AND STORAGE AREAS SHALL BE CONSTRUCTED AS SHOWN ON TYPICAL SECTION
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6. STRIPPED TOPSOIL SHALL BE REPLACED AND THE ACCESS ROAD AND STAGING/STORAGE AREA SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITION.
7. AT A MINIMUM CLEARING AND GRUBBING SHALL TAKE PLACE ON THE AREA COVERED BY THE TEMPORARY GRAVEL ACCESS ROAD AND STAGING/STORAGE AREA TO ALLOW THE CONTRACTOR ACCESS TO THE DAM.

0 150' 300'

SCALE:1"=150'

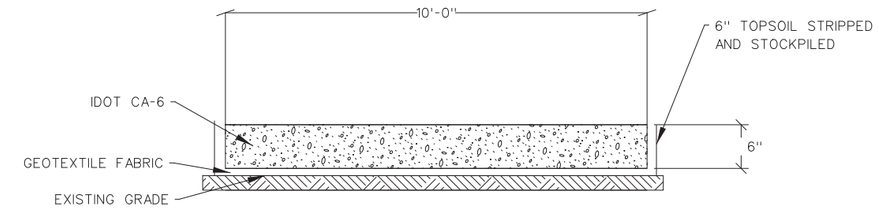
U.S. Army Corps of Engineers
Chicago District

UPPER DES PLAINES RIVER AND TRIBUTARIES FEASIBILITY REPORT AND ENVIROMENTAL ASSESSMENT

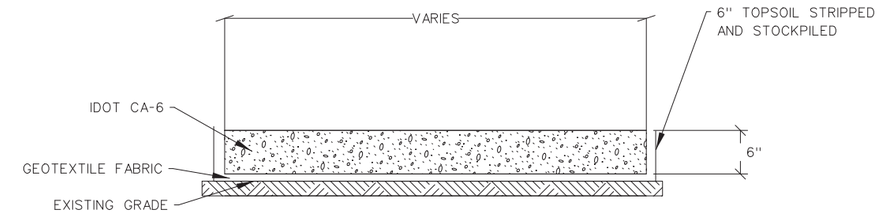
DAM NO. 2 REMOVAL SITE PLAN
MOUNT PROSPECT, COOK COUNTY, IL

SCALE:	DATE:	DRAWING CODE:
1" = 150'- 0"	AUG 2013	DAM_NO_2_SITE_PLAN.DGN

N



DEMPSTER ST. DAM GRAVEL ACCESS ROAD (TYP)
N.T.S.



DEMPSTER ST. DAM GRAVEL STAGING & STORAGE (TYP)
N.T.S.

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SCALE:1"=150'

U.S. Army Corps of Engineers
Chicago District

UPPER DES PLAINES RIVER
AND TRIBUTARIES
FEASIBILITY REPORT
AND ENVIRONMENTAL ASSESSMENT

DEMPSTER ST. DAM REMOVAL SITE PLAN
DES PLAINES, COOK COUNTY, IL

SCALE:	DATE:	DRAWING CODE:
1" = 150'- 0"	AUG 2013	DEMPSTER_DAM_SITE_PLAN.DGN

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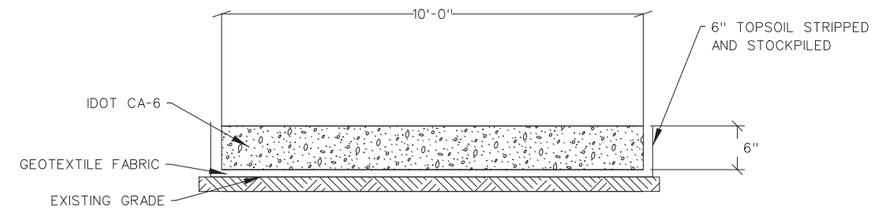
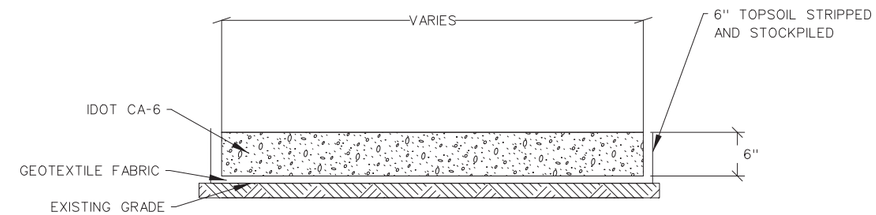


TOUHY DAM GRAVEL ACCESS ROAD (TYP)
N.T.S.



TOUHY DAM GRAVEL STAGING & STORAGE (TYP)
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0 200' 400'

SCALE:1"=200'

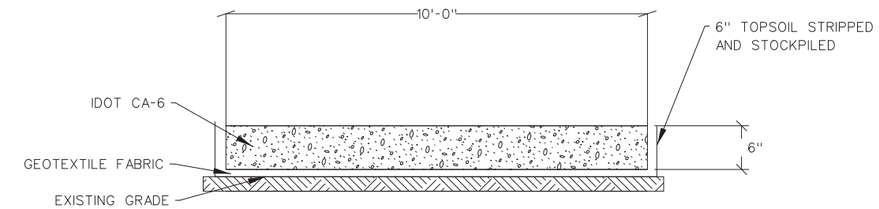
U.S. Army Corps of Engineers
Chicago District

UPPER DES PLAINES RIVER
AND TRIBUTARIES
FEASIBILITY REPORT
AND ENVIRONMENTAL ASSESSMENT

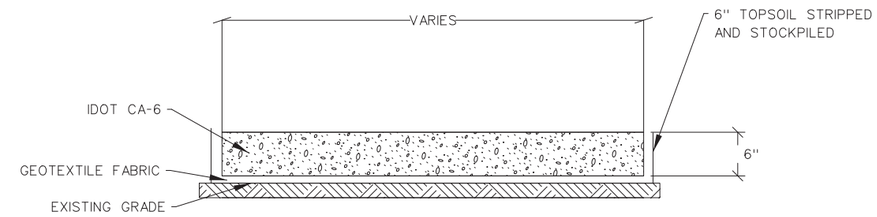
TOUHY DAM REMOVAL SITE PLAN
DES PLAINES, COOK COUNTY, IL

SCALE:	DATE:	DRAWING CODE:
1" = 200'- 0"	AUG 2013	TOUHY_DAM_SITE_PLAN.DGN

N



DAM NO. 4 GRAVEL ACCESS ROAD (TYP)
N.T.S.



DAM NO. 4 GRAVEL STAGING & STORAGE (TYP)
N.T.S.

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SCALE:1"=200'

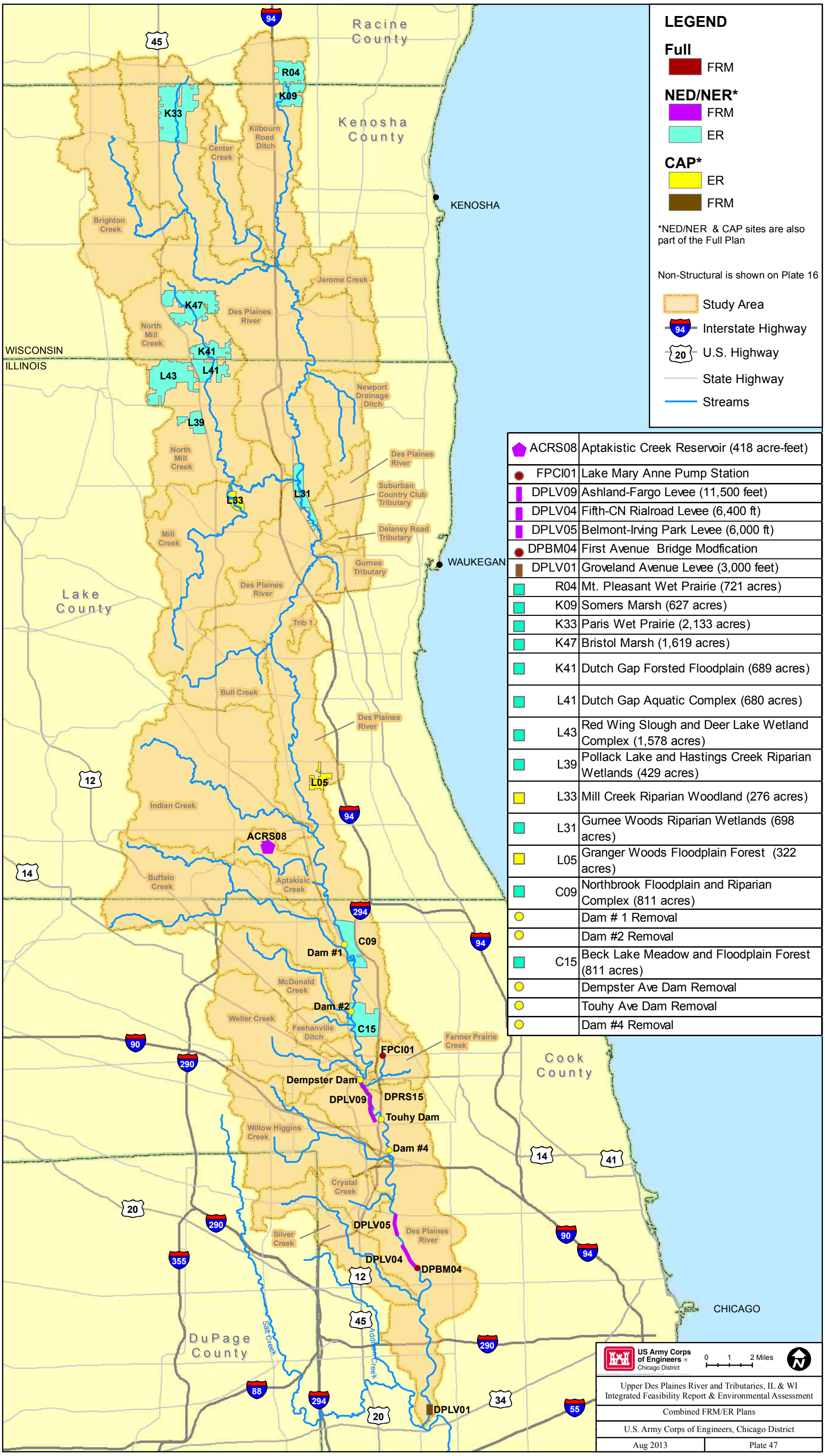
U.S. Army Corps of Engineers
Chicago District

UPPER DES PLAINES RIVER AND TRIBUTARIES FEASIBILITY REPORT AND ENVIRONMENTAL ASSESSMENT

DAM NO. 4 REMOVAL SITE PLAN
DES PLAINES, COOK COUNTY, IL

SCALE:	DATE:	DRAWING CODE:
1" - 200'- 0"	AUG 2013	DAM_NO_4_SITE_PLAN.DGN

LEGEND
Ecosystem Restoration Plans*
NER
CAP
*NER & CAP sites are also part of the Full Plan
Existing Natural Areas
Study Area
Interstate Highway
U.S. Highway
State Highway
Streams
Tributaries
Racine County
Kenosha County
Lake County
DuPage County
Cook County
WISCONSIN
ILLINOIS
KENOSHA
WAUKEGAN
CHICAGO
Lake Michigan
R04
K09
K33
K47
K41
L43
L41
L39
L33
L31
L05
C09
C15
Kilbourn Road Ditch
Center Creek
Brighton Creek
Jerome Creek
N Mill Creek
Newport Drainage Ditch
Suburban Country Club Tributary
Delaney Road Tributary
Mill Creek
Gurnee Tribs
Des Plaines River
Trib 1
Bull Creek
Indian Creek
Aptakisic Creek
Buffalo Creek
Dam #1
McDonald Creek
Dam #2
Weller Creek
Feehanville Ditch
Farmer Prairie Creek
Dempster Dam
Touhy Dam
Willow Higgins Creek
Dam #4
Silver Creek
Crystal Creek
Salt Creek
Addison Creek
US Army Corps of Engineers
Chicago District
0 1 2 Miles
Upper Des Plaines River and Tributaries, IL & WI
Integrated Feasibility Report & Environmental Assessment
Ecosystem Restoration Plan Connectivity
U.S. Army Corps of Engineers, Chicago District
Aug 2013
Plate 46


LEGEND
Full
FRM
NED/NER*
FRM
ER
CAP*
ER
FRM
*NED/NER & CAP sites are also part of the Full Plan
Non-Structural is shown on Plate 16
Study Area
Interstate Highway
U.S. Highway
State Highway
Streams
ACRS08 Aptakistic Creek Reservoir (418 acre-feet)
FPCI01 Lake Mary Anne Pump Station
DPLV09 Ashland-Fargo Levee (11,500 feet)
DPLV04 Fifth-CN Rialroad Levee (6,400 ft)
DPLV05 Belmont-Irving Park Levee (6,000 ft)
DPBM04 First Avenue Bridge Modfication
DPLV01 Groveland Avenue Levee (3,000 feet)
R04 Mt. Pleasant Wet Prairie (721 acres)
K09 Somers Marsh (627 acres)
K33 Paris Wet Prairie (2,133 acres)
K47 Bristol Marsh (1,619 acres)
K41 Dutch Gap Forsted Floodplain (689 acres)
L41 Dutch Gap Aquatic Complex (680 acres)
L43 Red Wing Slough and Deer Lake Wetland Complex (1,578 acres)
L39 Pollack Lake and Hastings Creek Riparian Wetlands (429 acres)
L33 Mill Creek Riparian Woodland (276 acres)
L31 Gurnee Woods Riparian Wetlands (698 acres)
L05 Granger Woods Floodplain Forest (322 acres)
C09 Northbrook Floodplain and Riparian Complex (811 acres)
Dam # 1 Removal
Dam #2 Removal
C15 Beck Lake Meadow and Floodplain Forest (811 acres)
Dempster Ave Dam Removal
Touhy Ave Dam Removal
Dam #4 Removal
Racine County
Kenosha County
Lake County
DuPage County
Cook County
WISCONSIN
ILLINOIS
KENOSHA
WAUKEGAN
CHICAGO
Brighton Creek
Center Creek
Kilbourn Road Ditch
Jerome Creek
Des Plaines River
North Mill Creek
Newport Drainage Ditch
Suburban Country Club Tributary
Delaney Road Tributary
Mill Creek
Gurnee Tributary
Trib 1
Bull Creek
Indian Creek
Buffalo Creek
Aptakisic Creek
McDonald Creek
Weller Creek
Feehanville Ditch
Farmer Prairie Creek
Willow Higgins Creek
Crystal Creek
Silver Creek
Salt Creek
Addison Creek
Dam #1
Dam #2
Dempster Dam
Touhy Dam
Dam #4
US Army Corps of Engineers
Chicago District
0 1 2 Miles
Upper Des Plaines River and Tributaries, IL & WI
Integrated Feasibility Report & Environmental Assessment
Combined FRM/ER Plans
U.S. Army Corps of Engineers, Chicago District
Aug 2013
Plate 47