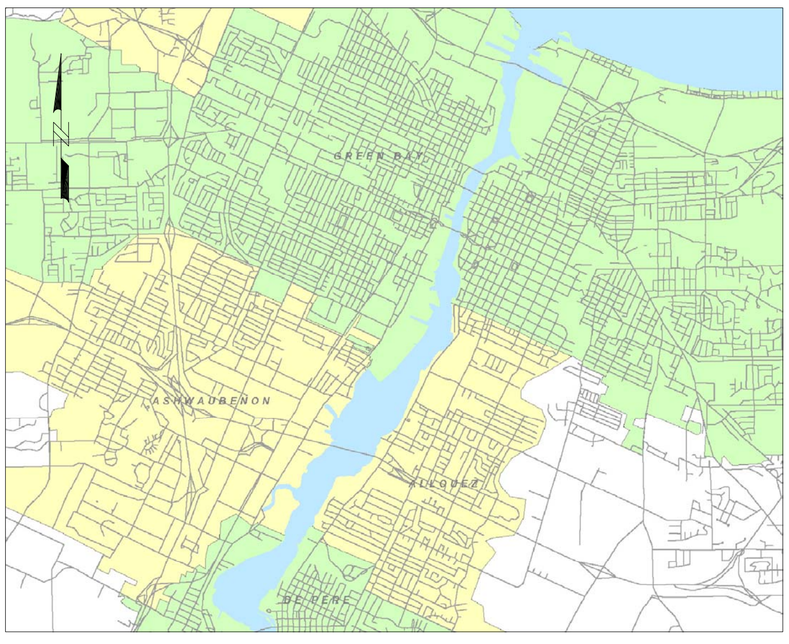
PLAN LEVEL DRAWINGS
DREDGE MANAGEMENT UNITS
DETAILED EVALUATION OF ALTERNATIVES REPORT
FOX RIVER SEDIMENT REMEDIATION PROJECT
OPERABLE UNIT 4
DE PERE TO GREEN BAY, WI.

LIST OF DRAWINGS

TITLE	DRAWING
PCB AERIAL CONTOUR FOR DE PERE TO GREEN BAY ACTION LEVEL - 1,000 PPB	OU4-1
MUDLINE ELEVATION CONTOURS DE PERE TO GREEN BAY	OU4-2
DREDGE MANAGEMENT UNITS OVERLAID ON PCB AERIAL CONTOUR SMU GROUP 20-25	SMU2025-1
BOTTOM ELEVATIONS OF DREDGE MANAGEMENT UNITS SMU GROUP 20-25	SMU2025-2
REPRESENTATIVE MECHANICAL AND HYDRAULIC COMBINED DREDGE MANAGEMENT UNITS SMU GROUP	SMU2025-3
DREDGE MANAGEMENT UNIT IDENTIFICATIONS FOR SMU GROUP 20-25	SMU2025-4
REPRESENTATIVE MECHANICAL AND HYDRAULIC COMBINED DREDGE MANAGEMENT UNITS SMU GROUP 26-31	SMU2631-1
DREDGE MANAGEMENT UNIT IDENTIFICATIONS FOR SMU GROUP 26-31	SMU2631-2
REPRESENTATIVE MECHANICAL AND HYDRAULIC COMBINED DREDGE MANAGEMENT UNITS SMU GROUP 32-37	SMU3237-1
DREDGE MANAGEMENT UNIT IDENTIFICATIONS FOR SMU GROUP 32-37	SMU3237-2
REPRESENTATIVE MECHANICAL AND HYDRAULIC COMBINED DREDGE MANAGEMENT UNITS SMU GROUP 38-43	SMU3843-1
DREDGE MANAGEMENT UNIT IDENTIFICATIONS FOR SMU GROUP 38-43	SMU3843-2
REPRESENTATIVE MECHANICAL AND HYDRAULIC COMBINED DREDGE MANAGEMENT UNITS SMU GROUP 44-49	SMU4449-1
DREDGE MANAGEMENT UNIT IDENTIFICATIONS FOR SMU GROUP 44-49	SMU4449-2
REPRESENTATIVE MECHANICAL AND HYDRAULIC COMBINED DREDGE MANAGEMENT UNITS SMU GROUP 50-55	SMU5055-1
DREDGE MANAGEMENT UNIT IDENTIFICATIONS FOR SMU GROUP 50-55	SMU5055-2
REPRESENTATIVE MECHANICAL AND HYDRAULIC COMBINED DREDGE MANAGEMENT UNITS SMU GROUP 56-61	SMU5661-1
DREDGE MANAGEMENT UNIT IDENTIFICATIONS FOR SMU GROUP 56-61	SMU5661-2
REPRESENTATIVE MECHANICAL AND HYDRAULIC COMBINED DREDGE MANAGEMENT UNITS SMU GROUP 62-67	SMU6267-1
DREDGE MANAGEMENT UNIT IDENTIFICATIONS FOR SMU GROUP 62-67	SMU6267-2
REPRESENTATIVE MECHANICAL AND HYDRAULIC COMBINED DREDGE MANAGEMENT UNITS SMU GROUP 68-73	SMU6873-1
DREDGE MANAGEMENT UNIT IDENTIFICATIONS FOR SMU GROUP 68-73	SMU6873-2
REPRESENTATIVE MECHANICAL AND HYDRAULIC COMBINED DREDGE MANAGEMENT UNITS SMU GROUP 74-79	SMU7479-1
DREDGE MANAGEMENT UNIT IDENTIFICATIONS FOR SMU GROUP 74-79	SMU7479-2
REPRESENTATIVE MECHANICAL AND HYDRAULIC COMBINED DREDGE MANAGEMENT UNITS SMU GROUP 80-85	SMU8085-1
DREDGE MANAGEMENT UNIT IDENTIFICATIONS FOR SMU GROUP 80-85	SMU8085-2
REPRESENTATIVE MECHANICAL AND HYDRAULIC COMBINED DREDGE MANAGEMENT UNITS SMU GROUP 86-91	SMU8691-1
DREDGE MANAGEMENT UNIT IDENTIFICATIONS FOR SMU GROUP 86-91	SMU8691-2
REPRESENTATIVE MECHANICAL AND HYDRAULIC COMBINED DREDGE MANAGEMENT UNITS SMU GROUP 92-97	SMU9297-1
DREDGE MANAGEMENT UNIT IDENTIFICATIONS FOR SMU GROUP 92-97	SMU9297-2
REPRESENTATIVE MECHANICAL AND HYDRAULIC COMBINED DREDGE MANAGEMENT UNITS SMU GROUP 98-103	SMU98103-1
DREDGE MANAGEMENT UNIT IDENTIFICATIONS FOR SMU GROUP 98-103	SMU98103-2
REPRESENTATIVE MECHANICAL AND HYDRAULIC COMBINED DREDGE MANAGEMENT UNITS SMU GROUP 104-109	SMU104109-1
DREDGE MANAGEMENT UNIT IDENTIFICATIONS FOR SMU GROUP 104-109	SMU104109-2
REPRESENTATIVE MECHANICAL AND HYDRAULIC COMBINED DREDGE MANAGEMENT UNITS SMU GROUP 110-115	SMU110115-1
DREDGE MANAGEMENT UNIT IDENTIFICATIONS FOR SMU GROUP 110-115	SMU110115-2



SITE LOCATION MAP:

NOTES:
1. Water elevation datum used for Operable Unit 4 is 577.50 feet.
2. Information obtained from the USACE and NOAA recreational atlas 14916 (1992).
3. Map generated with ArcGIS 8.2 software.

Spatial Information:
Projection: Transverse Mercator
Parameters:
False Easting: 520000
False Northing: -4480000
Central Meridian: 0
Scale Factor: 0.9996
Latitude Of Origin: -90
Linear Unit: Meter (1)
Geographic Coordinate System:
Name: GCS_GRS_1980
Alias: Wisconsin Transverse Mercator (WTM)
Angular Unit: Degree (0.017453292519943299)
Prime Meridian: Greenwich (0)
Geodetic Model:
Spheroid: GRS_1980
Horizontal Datum Name: D_GRS_1980
Ellipsoid Name: Geodetic Reference System 80
Semimajor Axis: 6378137
Semiminor Axis: 6356752.3141403561
Inverse Flattening: 298.25722210100002

PREPARED FOR:

WISCONSIN DEPARTMENT OF NATURAL RESOURCES

PREPARED BY:

THE RETEC GROUP
SEATTLE, WA.

REVISION 1
APRIL 2003

WISCN-15933-121

NO	DRWN	DATE	REVISION	CHKD	DATE	APPVD	DATE
1							
0	S.J.	4/09/03	DETAILED EVALUATION OF ALTERNATIVES	T.T.	4/09/03	T.T.	4/09/03

DATE 04/09/03

COVER SHEET

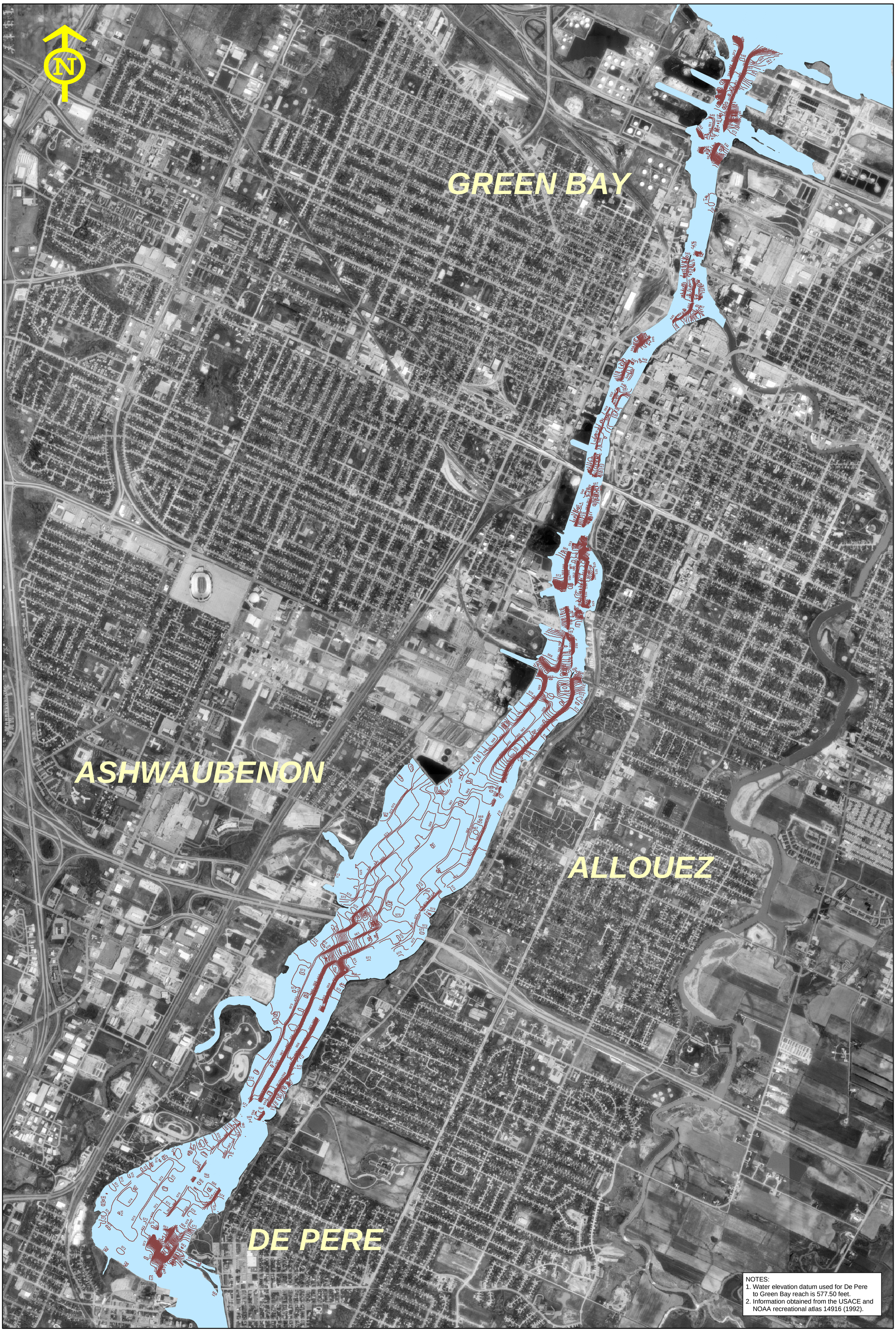
DRAWING NO. | REVISION

0 1,250 2,500 5,000

1" = 1250 Feet

RETEC

OPERABLE UNIT 4 Lower Fox River, Wisconsin (WISCN-15933-121)		PCB AERIAL CONTOUR FOR DE PERE TO GREEN BAY ACTION LEVEL - 1,000 ppb	
DATE: 01/17/03	DRWN: SCJ / SEA	MAP: RAL Aerial 4.mxd	DRWG: OU4-1



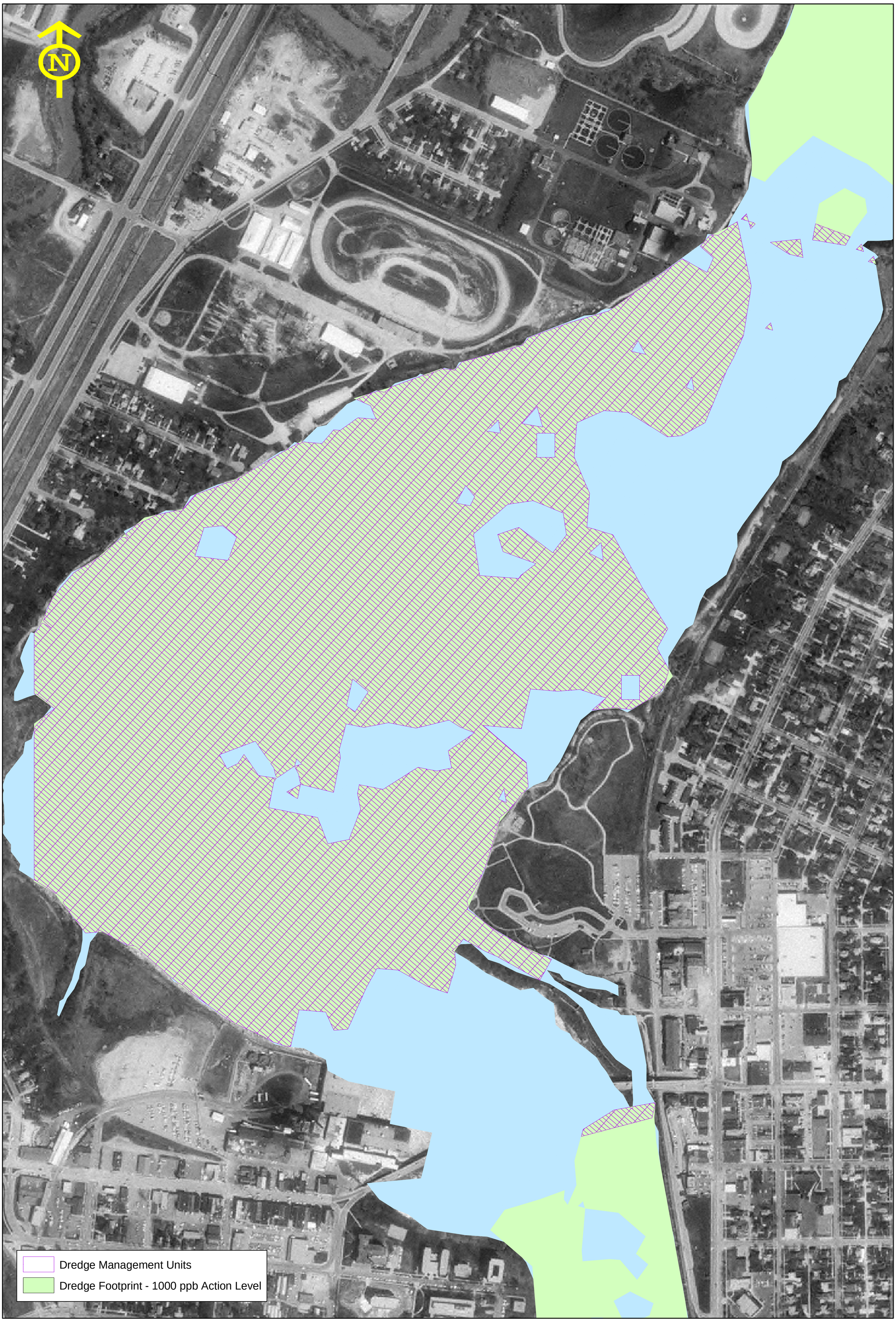
NOTES:
1. Water elevation datum used for De Pere to Green Bay reach is 577.50 feet.
2. Information obtained from the USACE and NOAA recreational atlas 14916 (1992).

0 1,250 2,500 5,000

1" = 1250 Feet

RETEC

OPERABLE UNIT 4 Lower Fox River, Wisconsin (WISCN-15933-121)		**MUDLINE ELEVATION CONTOURS DE PERE TO GREEN BAY**	
DATE: 12/03/02	DRWN: SCJ / SEA	MAP: Mud4 ElvCtrs.mxd	DRWG: OU4-2

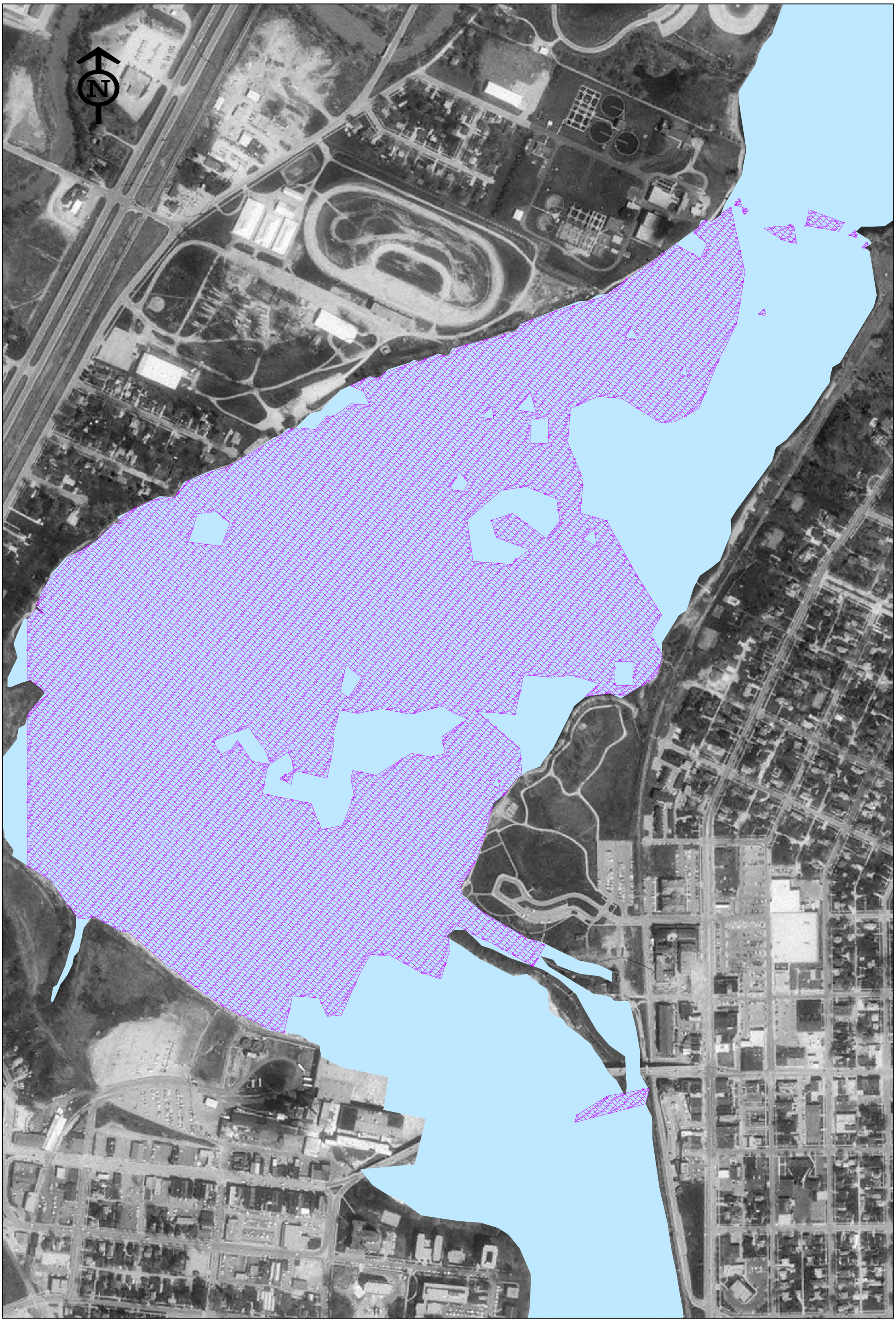


0 250 500 1000

1" = 250 Feet

RETEC

OPERABLE UNIT 4 Lower Fox River, Wisconsin (WISCN-15933-121)		DREDGE MANAGEMENT UNITS OVERLAID ON PCB AERIAL CONTOUR SMU GROUP 20-25	
DATE: 12/03/02	DRWN: SCJ / SEA	MAP: Aerial wDMU.mxd	DRWG: SMU2025-1

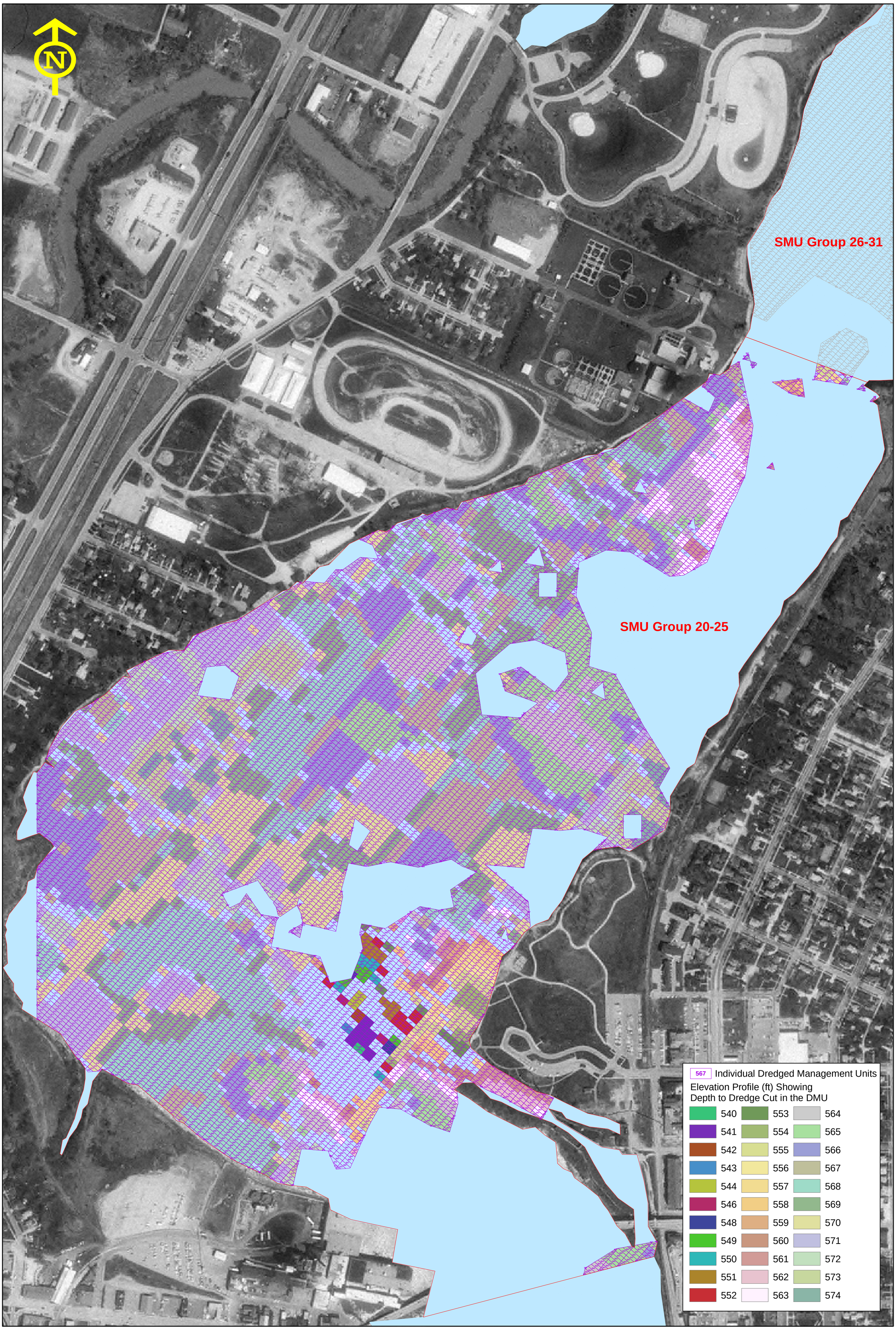


0 250 500 1000

1" = 250 Feet

RETEC

OPERABLE UNIT 4 Lower Fox River, Wisconsin (WISCN-15933-121)		**BOTTOM ELEVATIONS OF DREDGE MANAGEMENT UNITS SMU GROUP 20-25**	
DATE: 12/03/02	DRWN: SCJ / SEA	MAP: RAL Bottom.mxd	DRWG: SMU2025-2

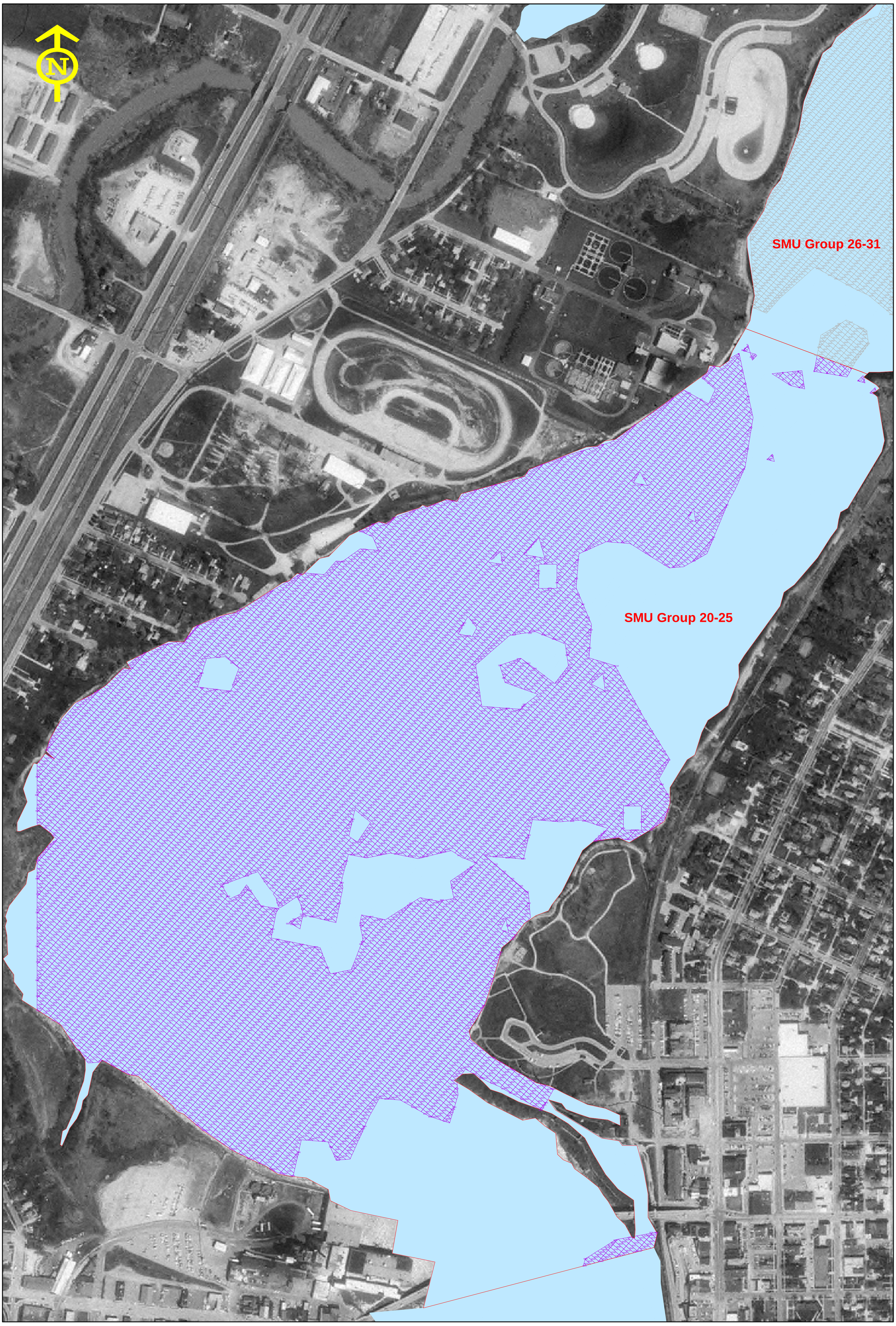


0 250 500 1000

1" = 250 Feet

RETEC

OPERABLE UNIT 4 Lower Fox River, Wisconsin (WISCN-15933-121)		REPRESENTATIVE MECHANICAL AND HYDRAULIC COMBINED DREDGE MANAGEMENT UNITS SMU GROUP 20-25	
DATE: 12/03/02	DRWN: SCJ / SEA	MAP: SMU 20-25 Mech.mxd	DRWG: SMU2025-3

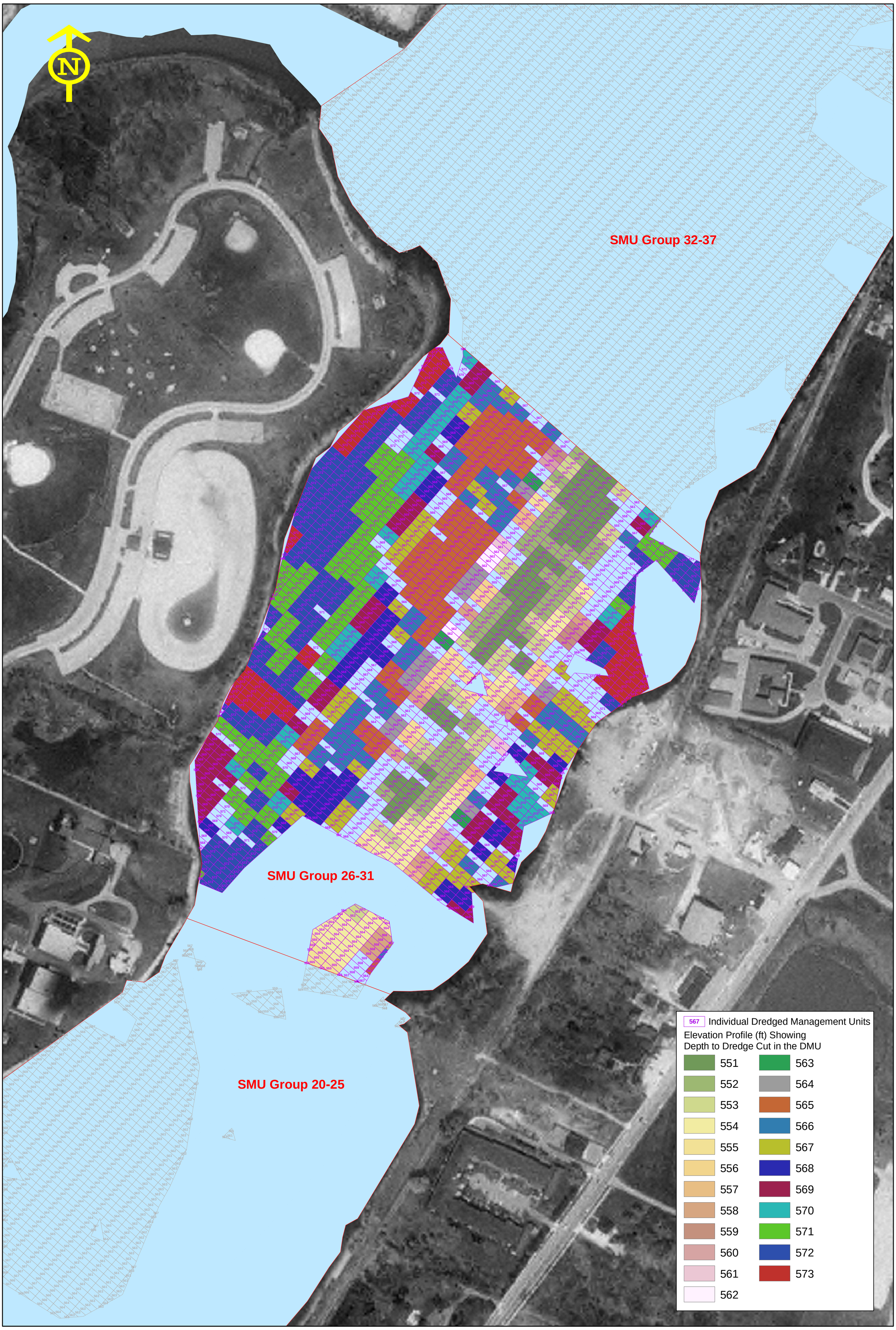


0 250 500 1000

1" = 250 Feet

RETEC

OPERABLE UNIT 4 Lower Fox River, Wisconsin (WISCN-15933-121)		DREDGE MANAGEMENT UNIT IDENTIFICATIONS FOR SMU GROUP 20-25	
DATE: 12/03/02	DRWN: SCJ / SEA	MAP: SMU 20-25 IDs.mxd	DRWG: SMU2025-4



0 150 300 600

1" = 150 Feet

RETEC

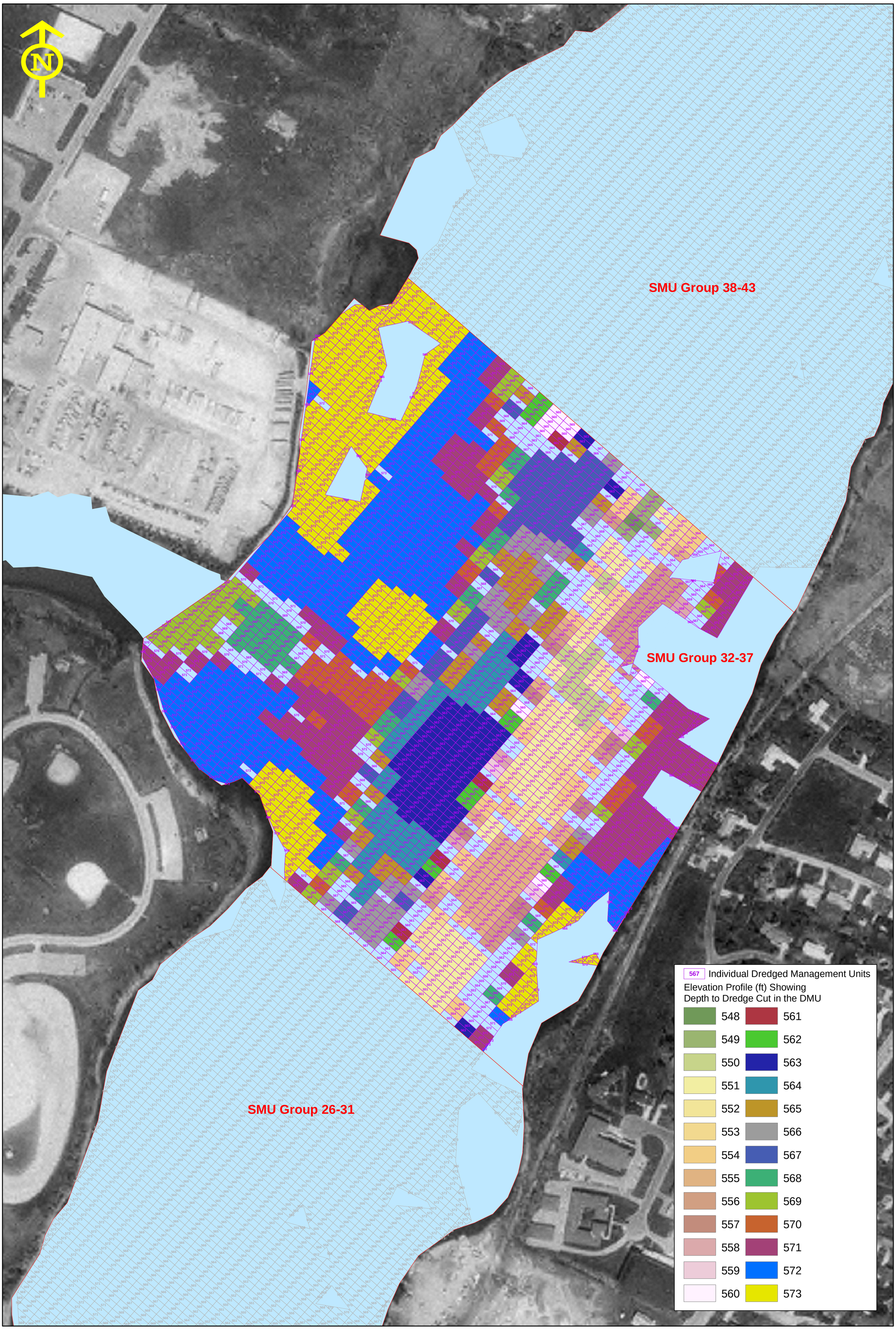
OPERABLE UNIT 4 Lower Fox River, Wisconsin (WISCN-15933-121)		REPRESENTATIVE MECHANICAL AND HYDRAULIC COMBINED DREDGE MANAGEMENT UNITS SMU GROUP 26-31	
DATE: 01/22/03	DRWN: SCJ / SEA	MAP: SMU 26-31 Mech.mxd	DRWG: SMU2631-1

0 150 300 600

1" = 150 Feet

RETEC

OPERABLE UNIT 4 Lower Fox River, Wisconsin (WISCN-15933-121)		DREDGE MANAGEMENT UNIT IDENTIFICATIONS FOR SMU GROUP 26-31	
DATE: 01/22/03	DRWN: SCJ / SEA	MAP: SMU 26-31 IDs.mxd	DRWG: SMU2631-2



0 150 300 600

1" = 150 Feet

RETEC

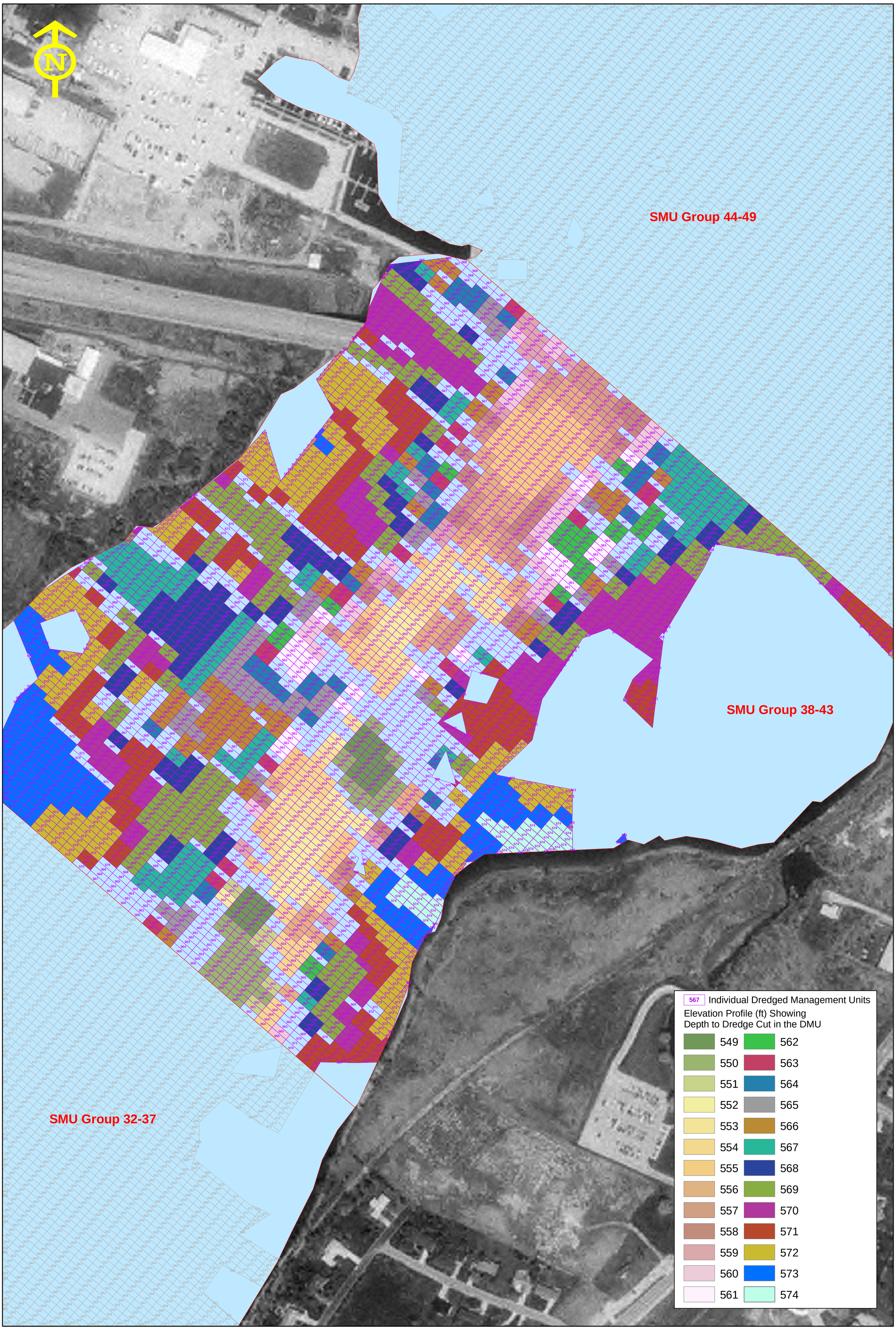
OPERABLE UNIT 4 Lower Fox River, Wisconsin (WISCN-15933-121)		REPRESENTATIVE MECHANICAL AND HYDRAULIC COMBINED DREDGE MANAGEMENT UNITS SMU GROUP 32-37	
DATE: 01/22/03	DRWN: SCJ / SEA	MAP: SMU 32-37 Mech.mxd	DRWG: SMU3237-1

0 150 300 600

1" = 150 Feet

RETEC

OPERABLE UNIT 4 Lower Fox River, Wisconsin (WISCN-15933-121)		DREDGE MANAGEMENT UNIT IDENTIFICATIONS FOR SMU GROUP 32-37	
DATE: 01/22/03	DRWN: SCJ / SEA	MAP: SMU 32-37 IDs.mxd	DRWG: SMU3237-2

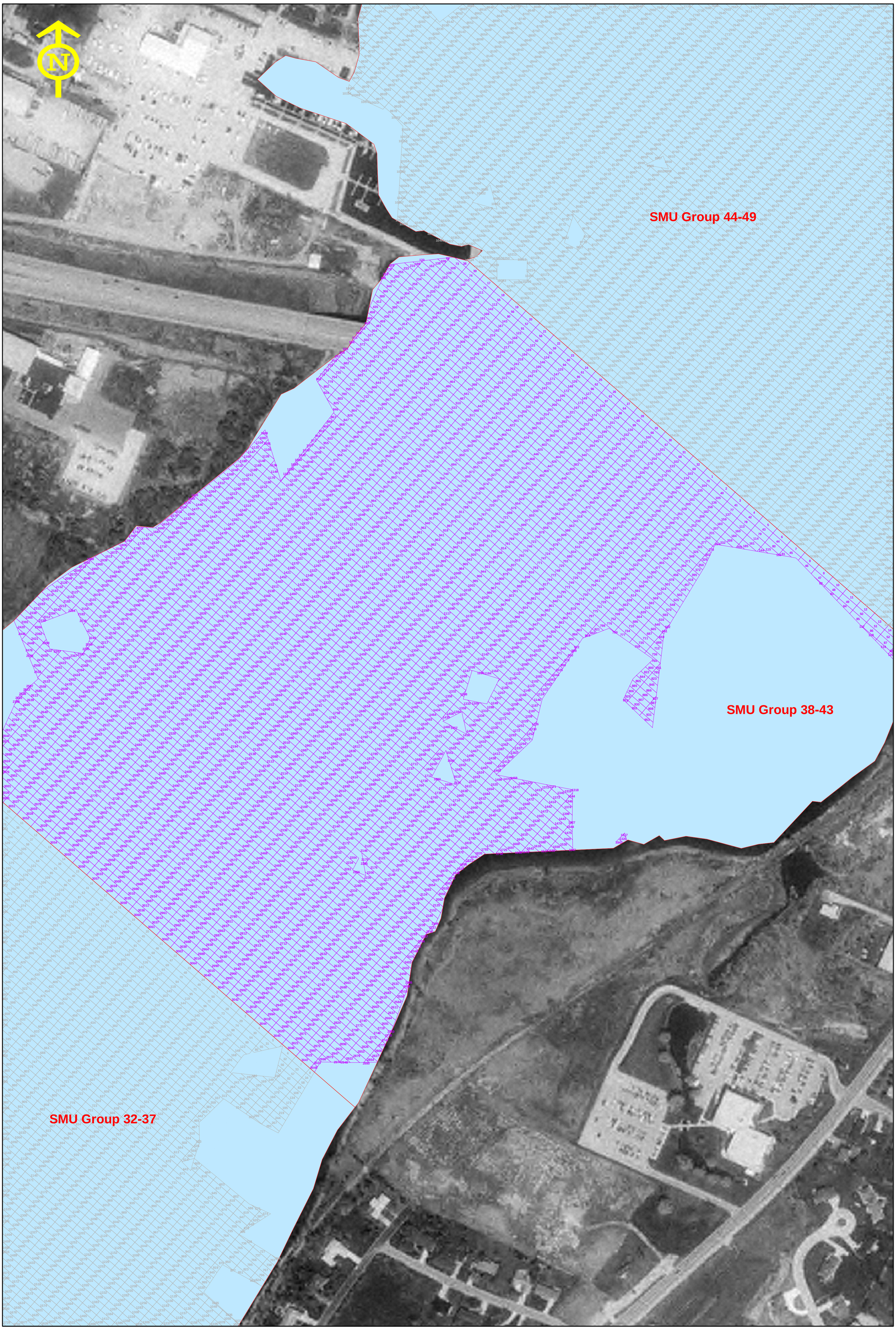


0 150 300 600

1" = 150 Feet

RETEC

OPERABLE UNIT 4 Lower Fox River, Wisconsin (WISCN-15933-121)		REPRESENTATIVE MECHANICAL AND HYDRAULIC COMBINED DREDGE MANAGEMENT UNITS SMU GROUP 38-43	
DATE: 01/23/03	DRWN: SCJ / SEA	MAP: SMU 38-43 Mech.mxd	DRWG: SMU3843-1

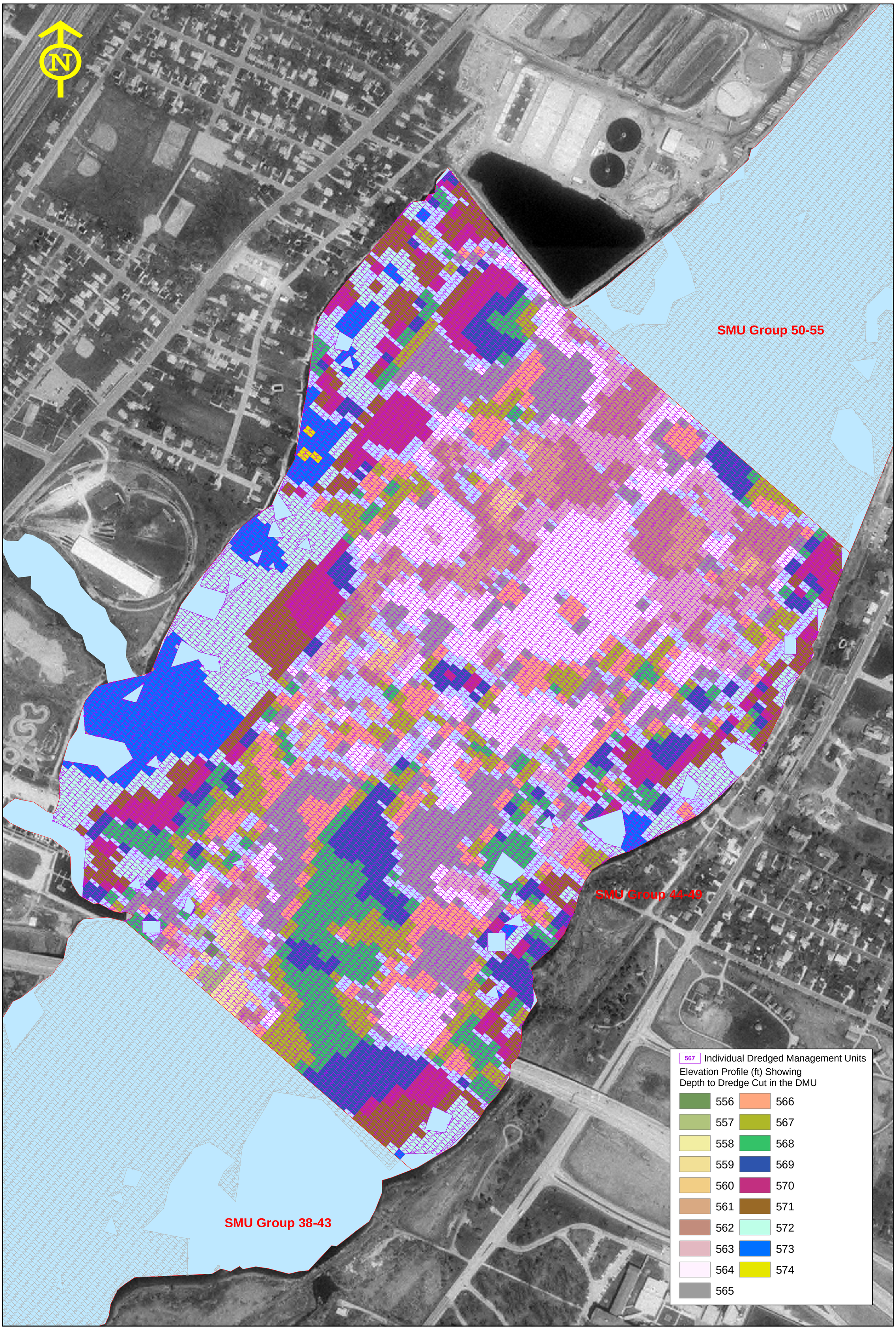


0 150 300 600

1" = 150 Feet

RETEC

OPERABLE UNIT 4 Lower Fox River, Wisconsin (WISCN-15933-121)		DREDGE MANAGEMENT UNIT IDENTIFICATIONS FOR SMU GROUP 38-43	
DATE: 01/23/03	DRWN: SCJ / SEA	MAP: SMU 38-43 IDs.mxd	DRWG: SMU3843-2

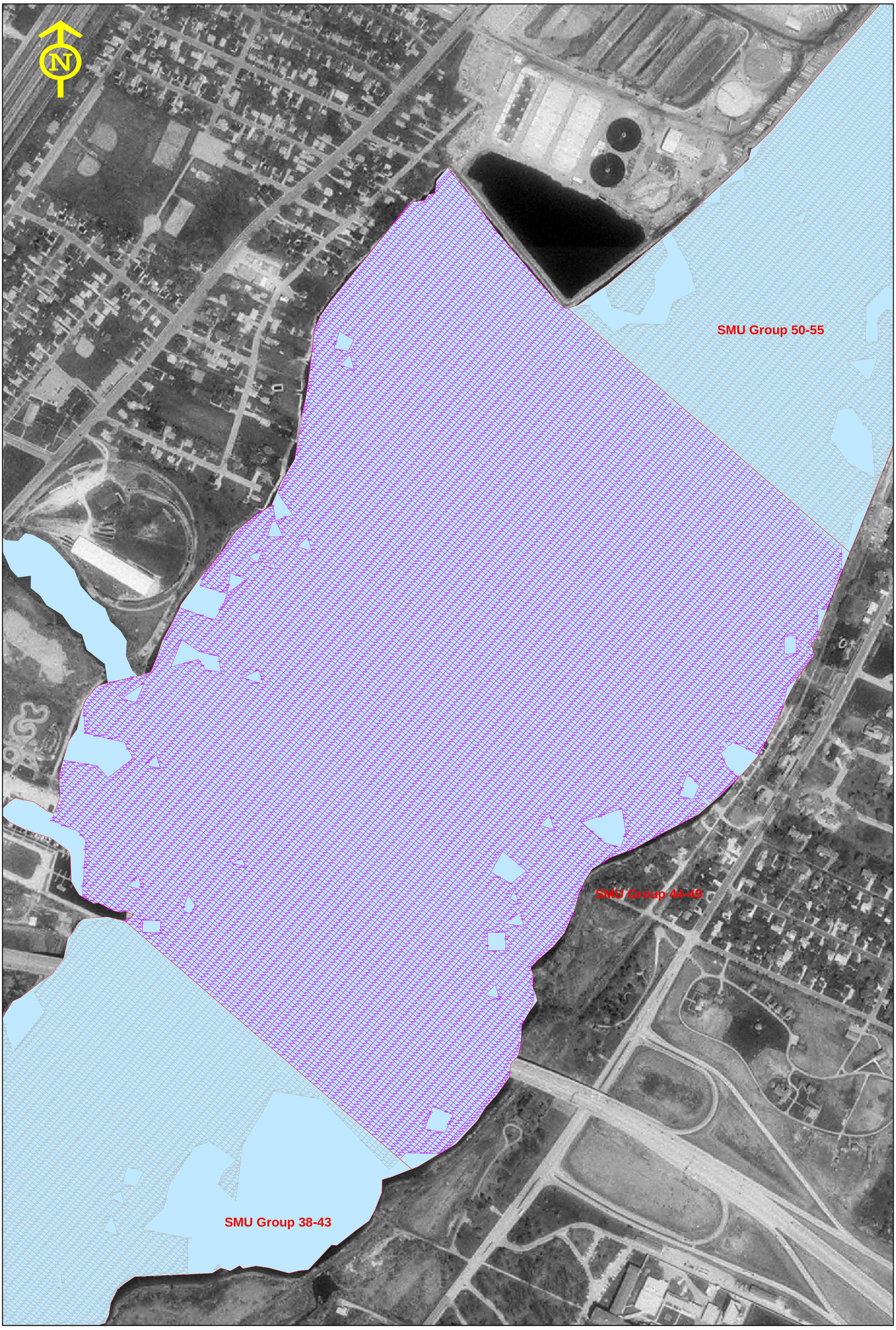


0 250 500 1000

1" = 250 Feet

RETEC

OPERABLE UNIT 4 Lower Fox River, Wisconsin (WISCN-15933-121)		REPRESENTATIVE MECHANICAL AND HYDRAULIC COMBINED DREDGE MANAGEMENT UNITS SMU GROUP 44-49	
DATE: 01/23/03	DRWN: SCJ / SEA	MAP: SMU 44-49 Mech.mxd	DRWG: SMU4449-1

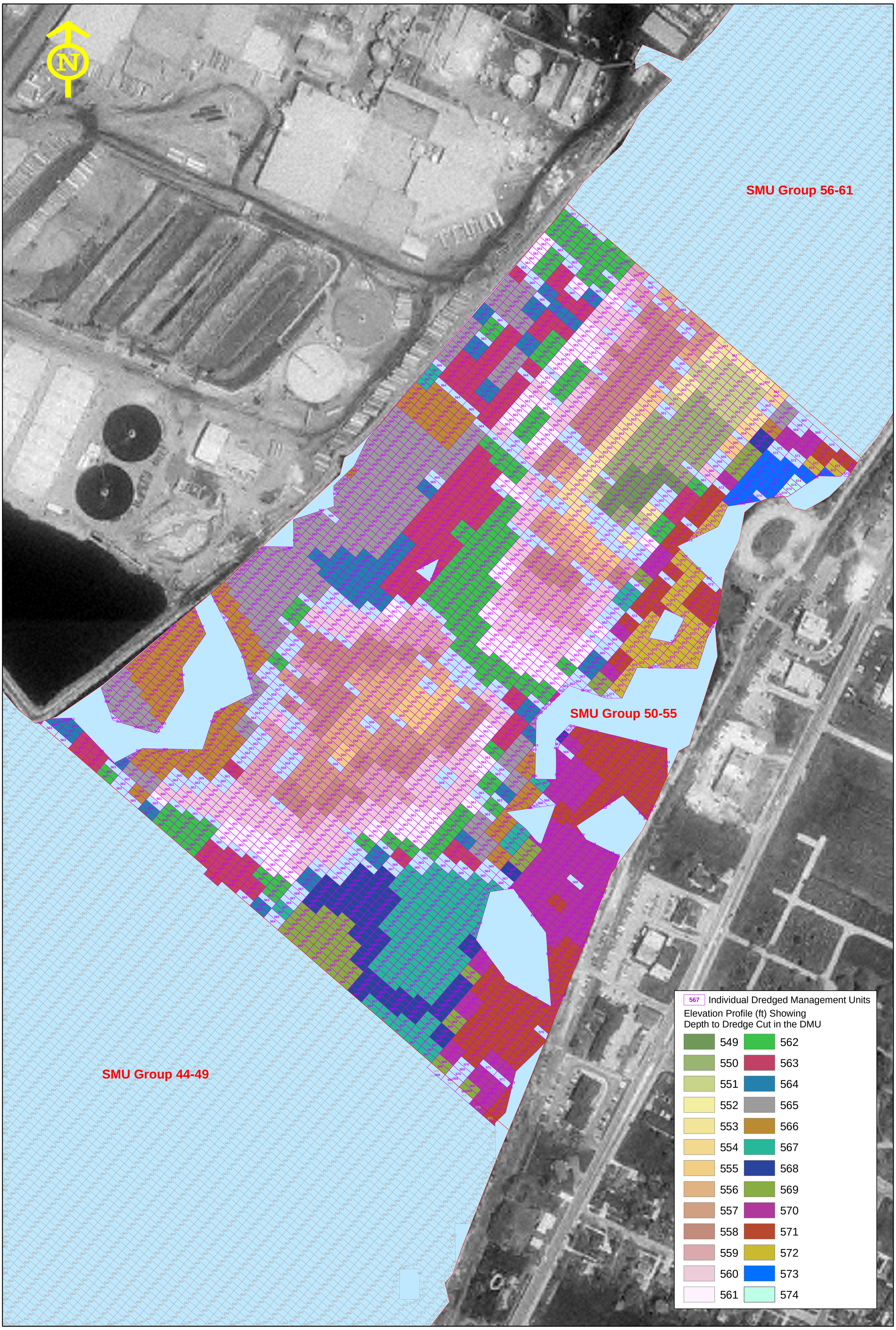


0 250 500 1000

1" = 250 Feet

RETEC

OPERABLE UNIT 4 Lower Fox River, Wisconsin (WISCN-15933-121)		DREDGE MANAGEMENT UNIT IDENTIFICATIONS FOR SMU GROUP 44-49	
DATE: 01/23/03	DRWN: SCJ / SEA	MAP: SMU 44-49 IDs.mxd	DRWG: SMU4449-2

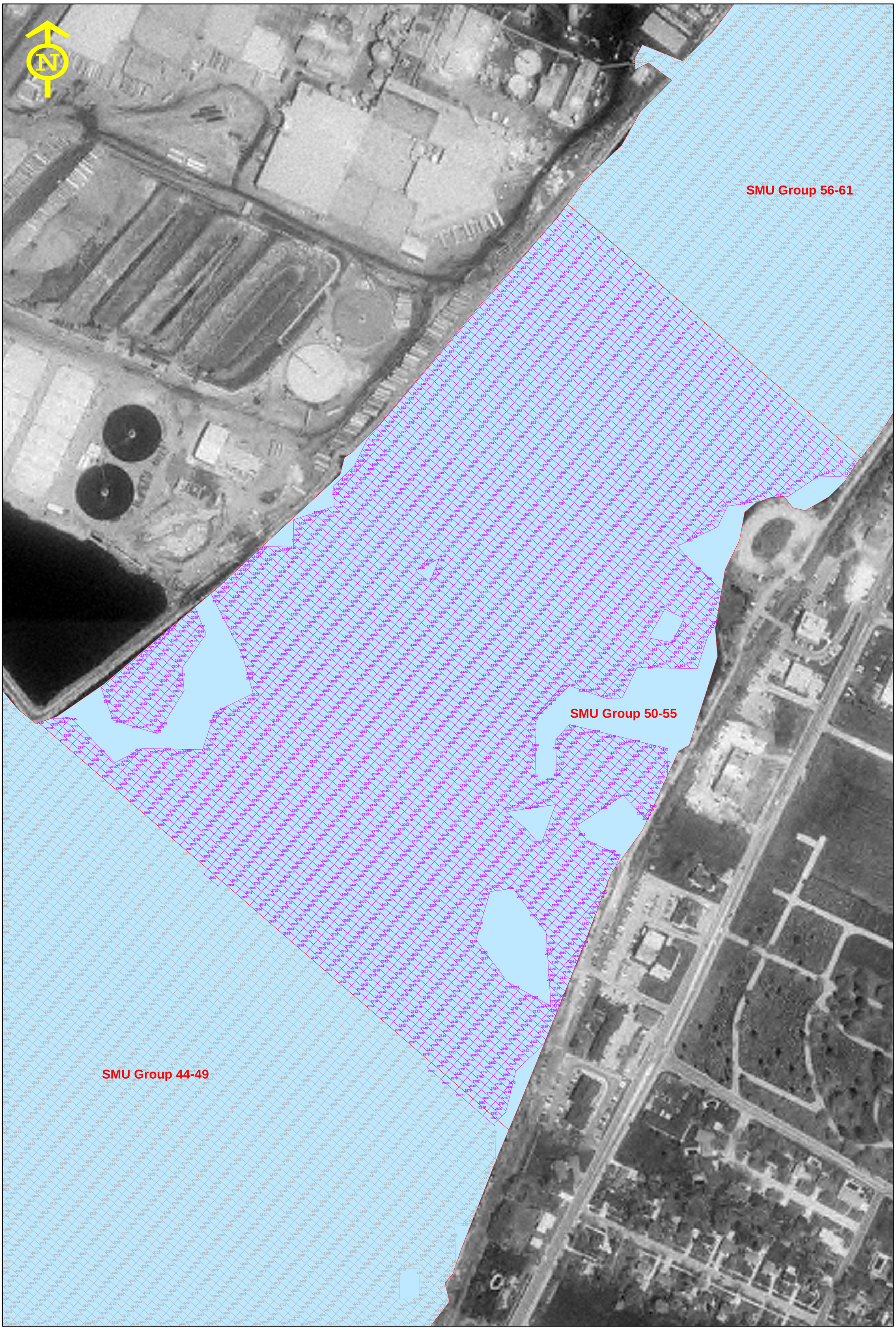


0 150 300 600

1" = 150 Feet

RETEC

OPERABLE UNIT 4 Lower Fox River, Wisconsin (WISCN-15933-121)		REPRESENTATIVE MECHANICAL AND HYDRAULIC COMBINED DREDGE MANAGEMENT UNITS SMU GROUP 50-55	
DATE: 01/23/03	DRWN: SCJ / SEA	MAP: SMU 50-55 Mech.mxd	DRWG: SMU5055-1

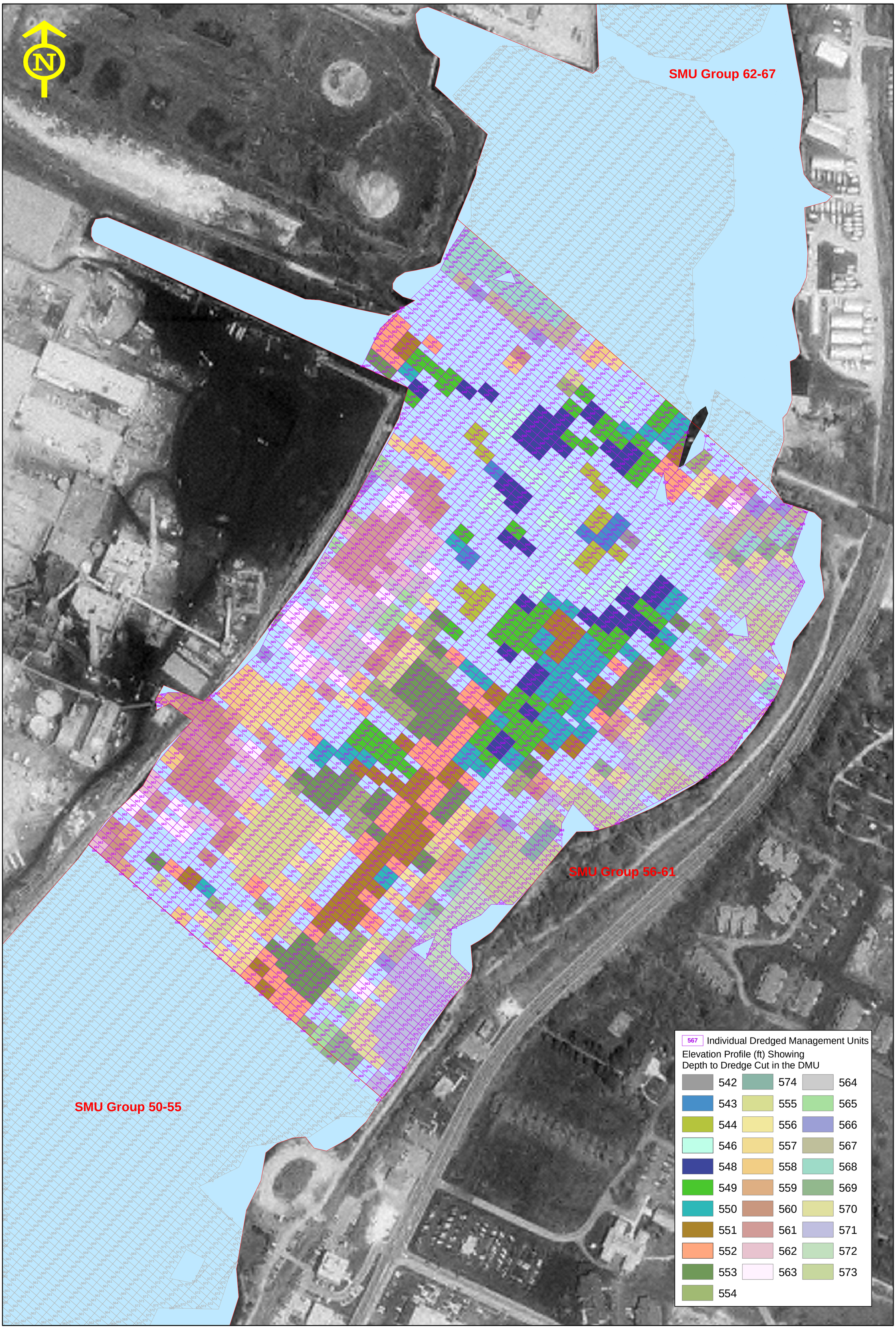


0 150 300 600

1" = 150 Feet

RETEC

OPERABLE UNIT 4 Lower Fox River, Wisconsin (WISCN-15933-121)		DREDGE MANAGEMENT UNIT IDENTIFICATIONS FOR SMU GROUP 50-55	
DATE: 01/23/03	DRWN: SCJ / SEA	MAP: SMU 50-55 IDs.mxd	DRWG: SMU5055-2



0 150 300 600

1" = 150 Feet

RETEC

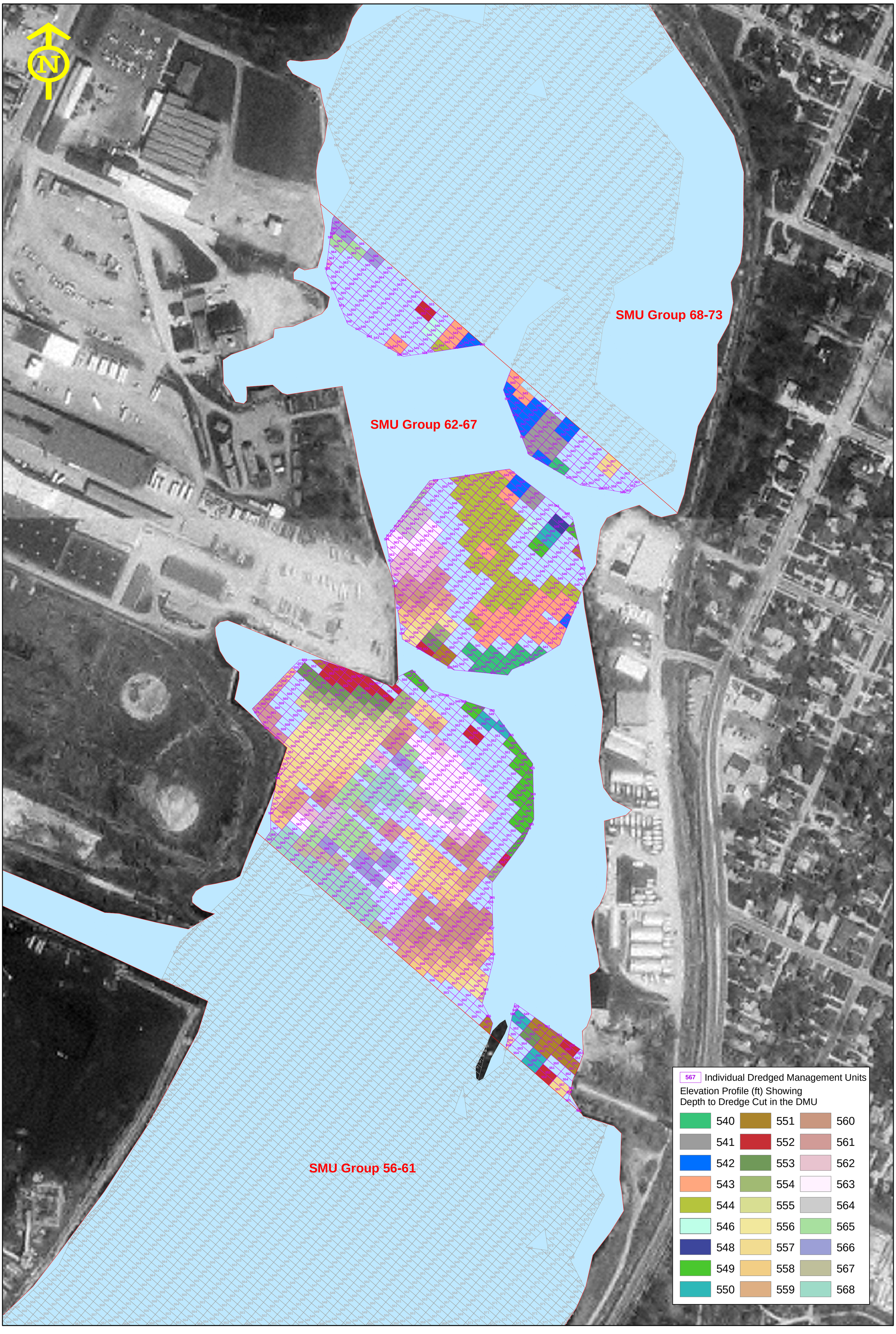
OPERABLE UNIT 4 Lower Fox River, Wisconsin (WISCN-15933-121)		REPRESENTATIVE MECHANICAL AND HYDRAULIC COMBINED DREDGE MANAGEMENT UNITS SMU GROUP 56-61	
DATE: 01/23/03	DRWN: SCJ / SEA	MAP: SMU 56-61 Mech.mxd	DRWG: SMU5661-1

0 150 300 600

1" = 150 Feet

RETEC

OPERABLE UNIT 4 Lower Fox River, Wisconsin (WISCN-15933-121)		DREDGE MANAGEMENT UNIT IDENTIFICATIONS FOR SMU GROUP 56-61	
DATE: 01/23/03	DRWN: SCJ / SEA	MAP: SMU 56-61 IDs.mxd	DRWG: SMU5661-2

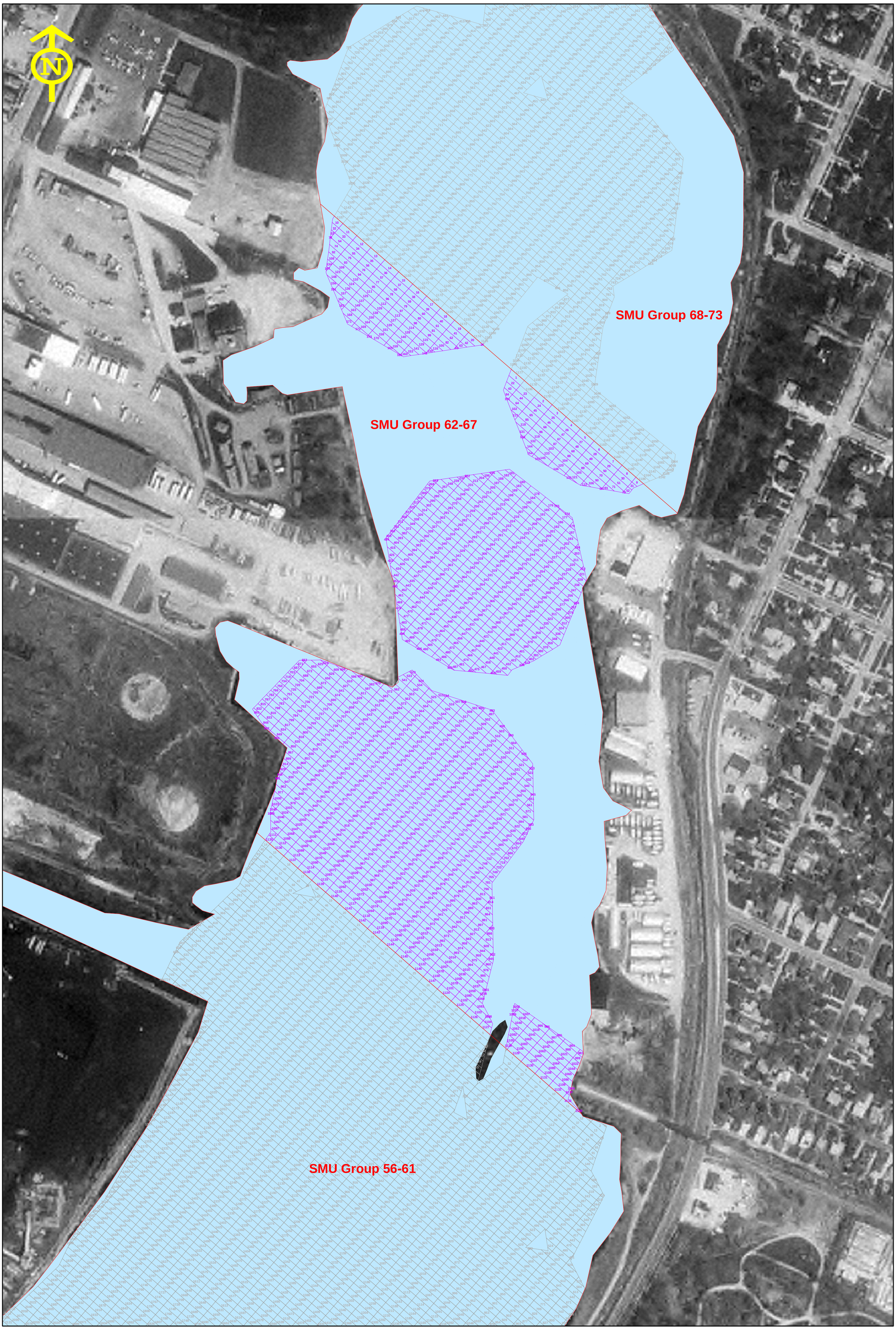


0 150 300 600

1" = 150 Feet

RETEC

OPERABLE UNIT 4 Lower Fox River, Wisconsin (WISCN-15933-121)		REPRESENTATIVE MECHANICAL AND HYDRAULIC COMBINED DREDGE MANAGEMENT UNITS SMU GROUP 62-67	
DATE: 01/23/03	DRWN: SCJ / SEA	MAP: SMU 62-67 Mech.mxd	DRWG: SMU6267-1

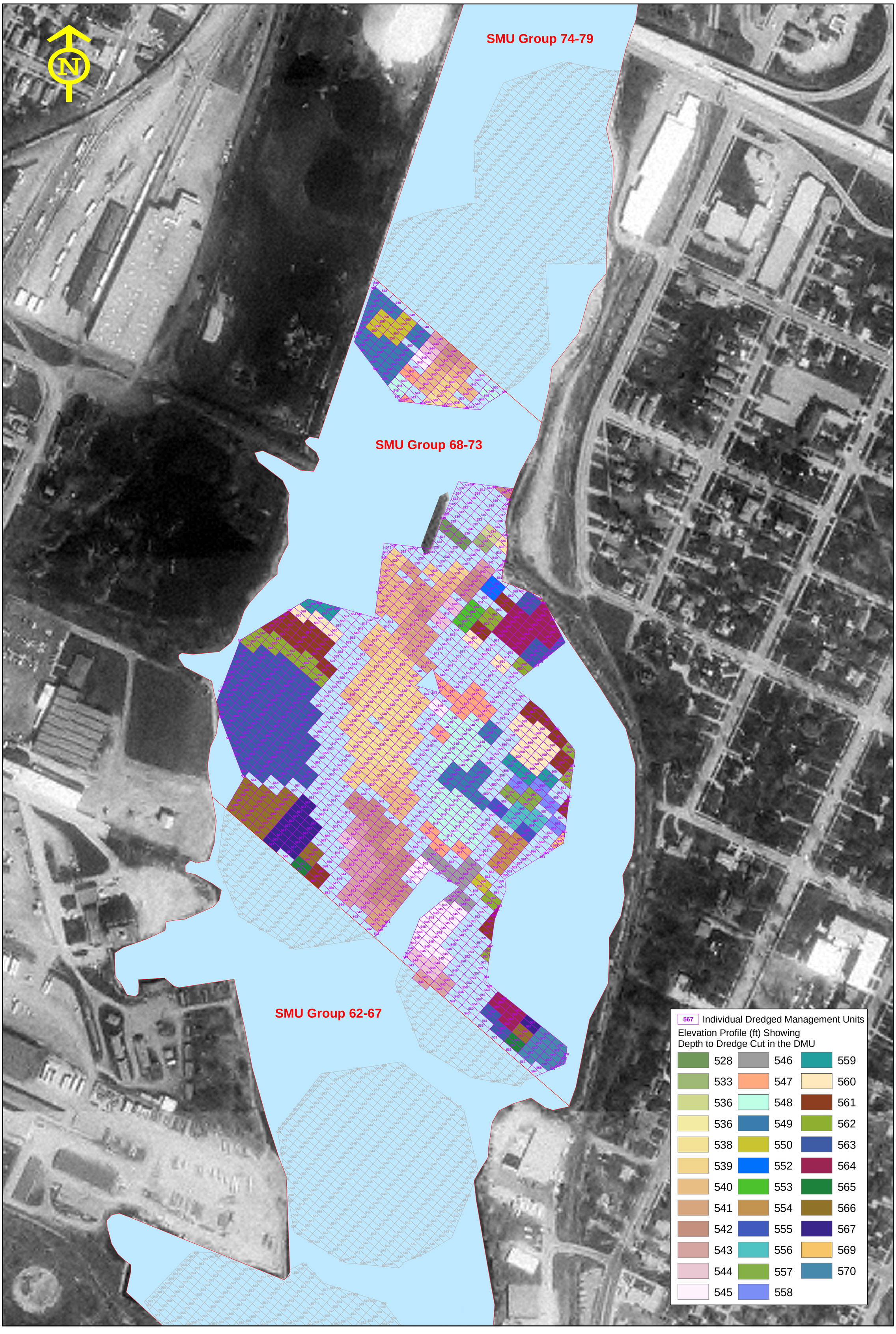


0 150 300 600

1" = 150 Feet

RETEC

OPERABLE UNIT 4 Lower Fox River, Wisconsin (WISCN-15933-121)		DREDGE MANAGEMENT UNIT IDENTIFICATIONS FOR SMU GROUP 62-67	
DATE: 01/23/03	DRWN: SCJ / SEA	MAP: SMU 62-67 IDs.mxd	DRWG: SMU6267-2

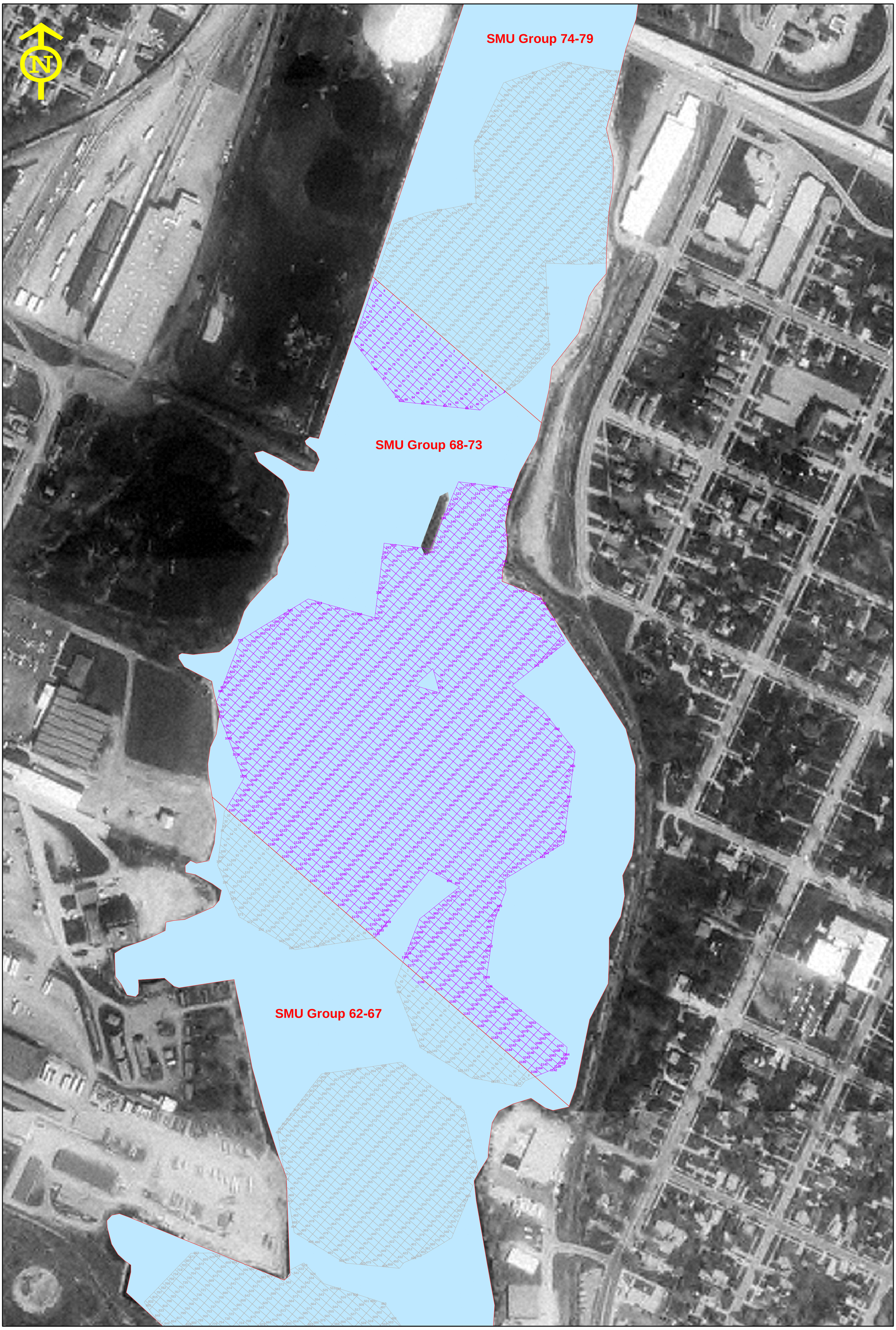


0 150 300 600

1" = 150 Feet

RETEC

OPERABLE UNIT 4 Lower Fox River, Wisconsin (WISCN-15933-121)		REPRESENTATIVE MECHANICAL AND HYDRAULIC COMBINED DREDGE MANAGEMENT UNITS SMU GROUP 68-73	
DATE: 01/23/03	DRWN: SCJ / SEA	MAP: SMU 68-73 Mech.mxd	DRWG: SMU6873-1

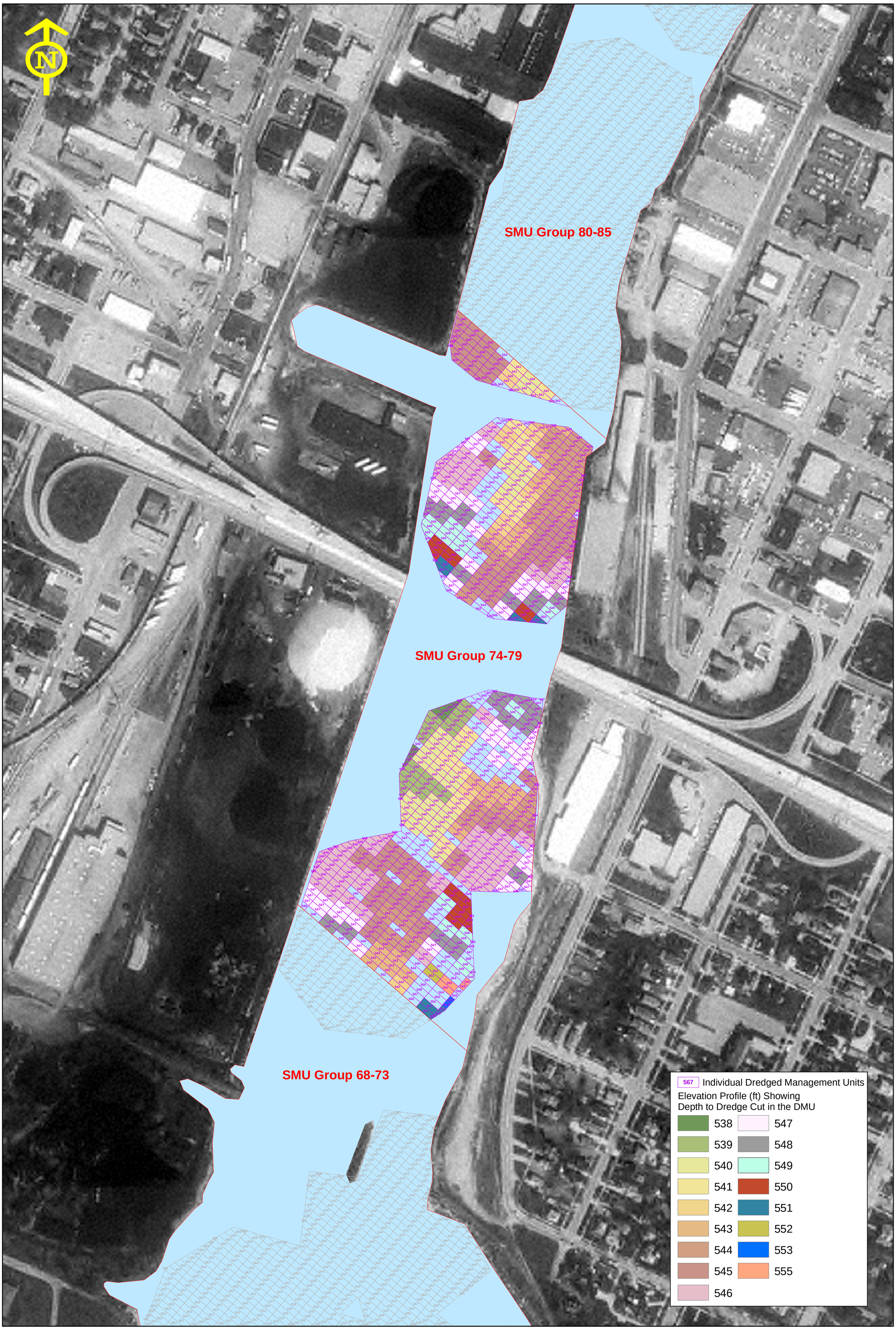


0 150 300 600

1" = 150 Feet

RETEC

OPERABLE UNIT 4 Lower Fox River, Wisconsin (WISCN-15933-121)		DREDGE MANAGEMENT UNIT IDENTIFICATIONS FOR SMU GROUP 68-73	
DATE: 01/23/03	DRWN: SCJ / SEA	MAP: SMU 68-73 IDs.mxd	DRWG: SMU6873-2

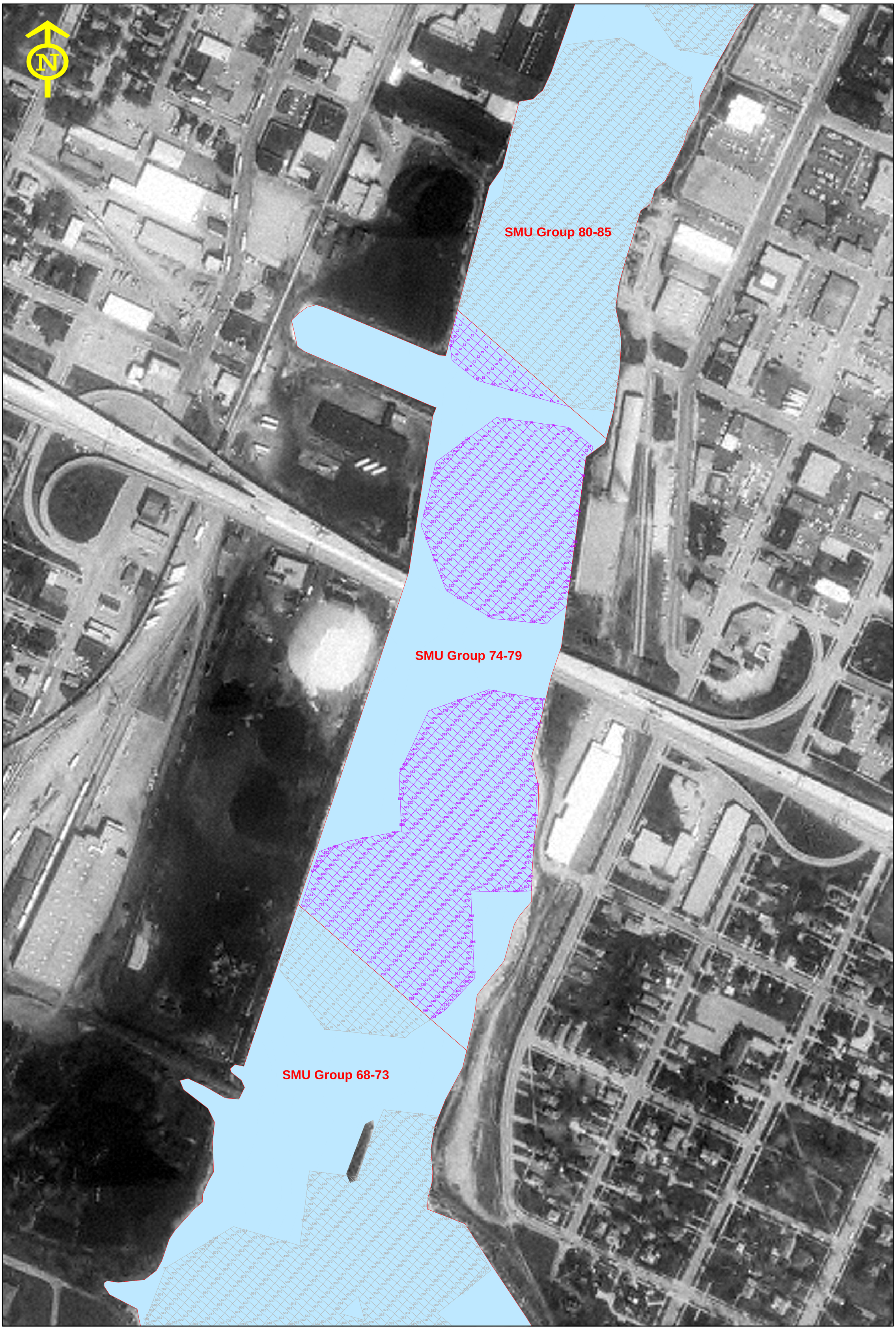


0 150 300 600

1" = 150 Feet

RETEC

OPERABLE UNIT 4 Lower Fox River, Wisconsin (WISCN-15933-121)		REPRESENTATIVE MECHANICAL AND HYDRAULIC COMBINED DREDGE MANAGEMENT UNITS SMU GROUP 74-79	
DATE: 01/23/03	DRWN: SCJ / SEA	MAP: SMU 74-79 Mech.mxd	DRWG: SMU7479-1

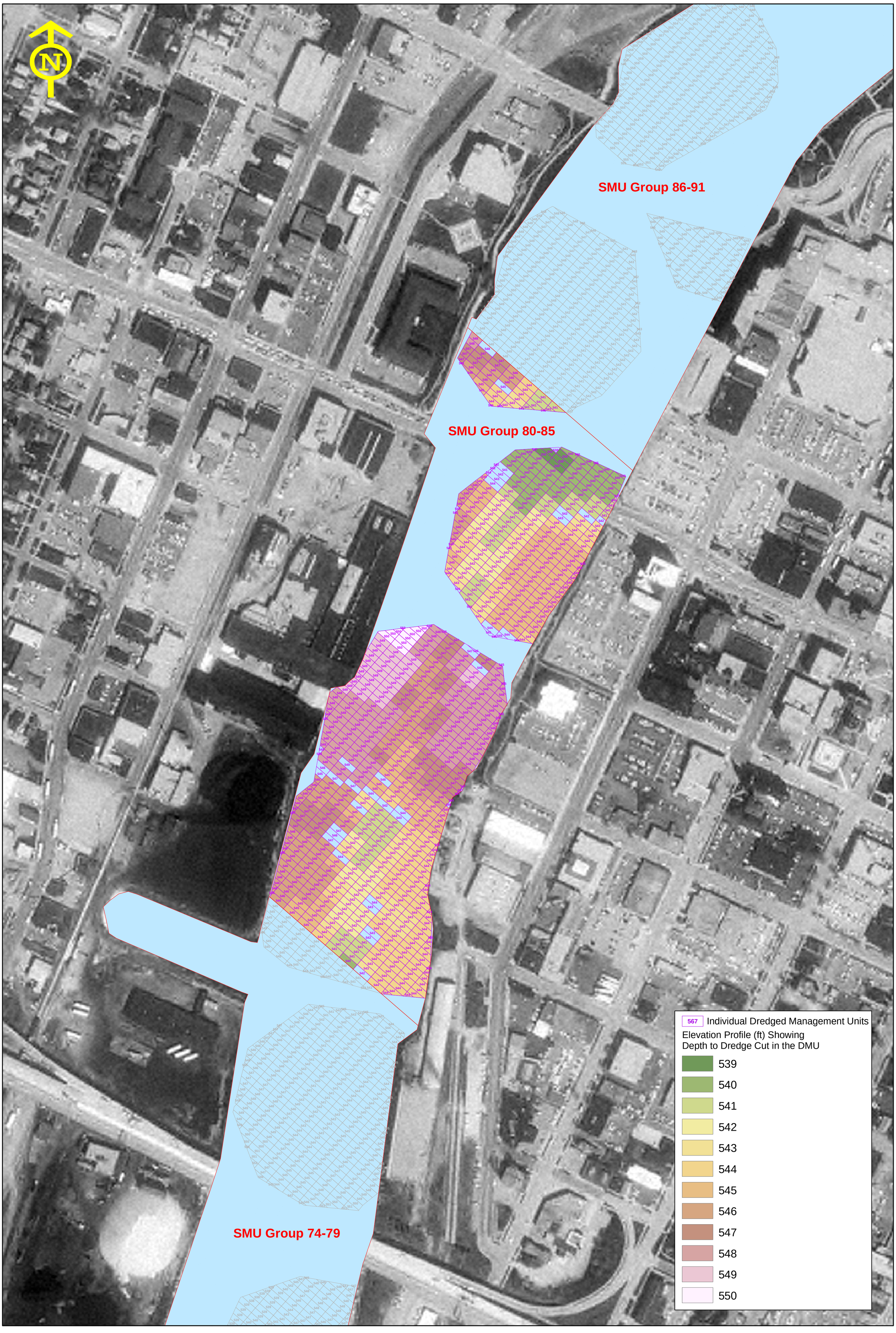


0 150 300 600

1" = 150 Feet

RETEC

OPERABLE UNIT 4 Lower Fox River, Wisconsin (WISCN-15933-121)		DREDGE MANAGEMENT UNIT IDENTIFICATIONS FOR SMU GROUP 74-79	
DATE: 01/23/03	DRWN: SCJ / SEA	MAP: SMU 74-79 IDs.mxd	DRWG: SMU7479-2

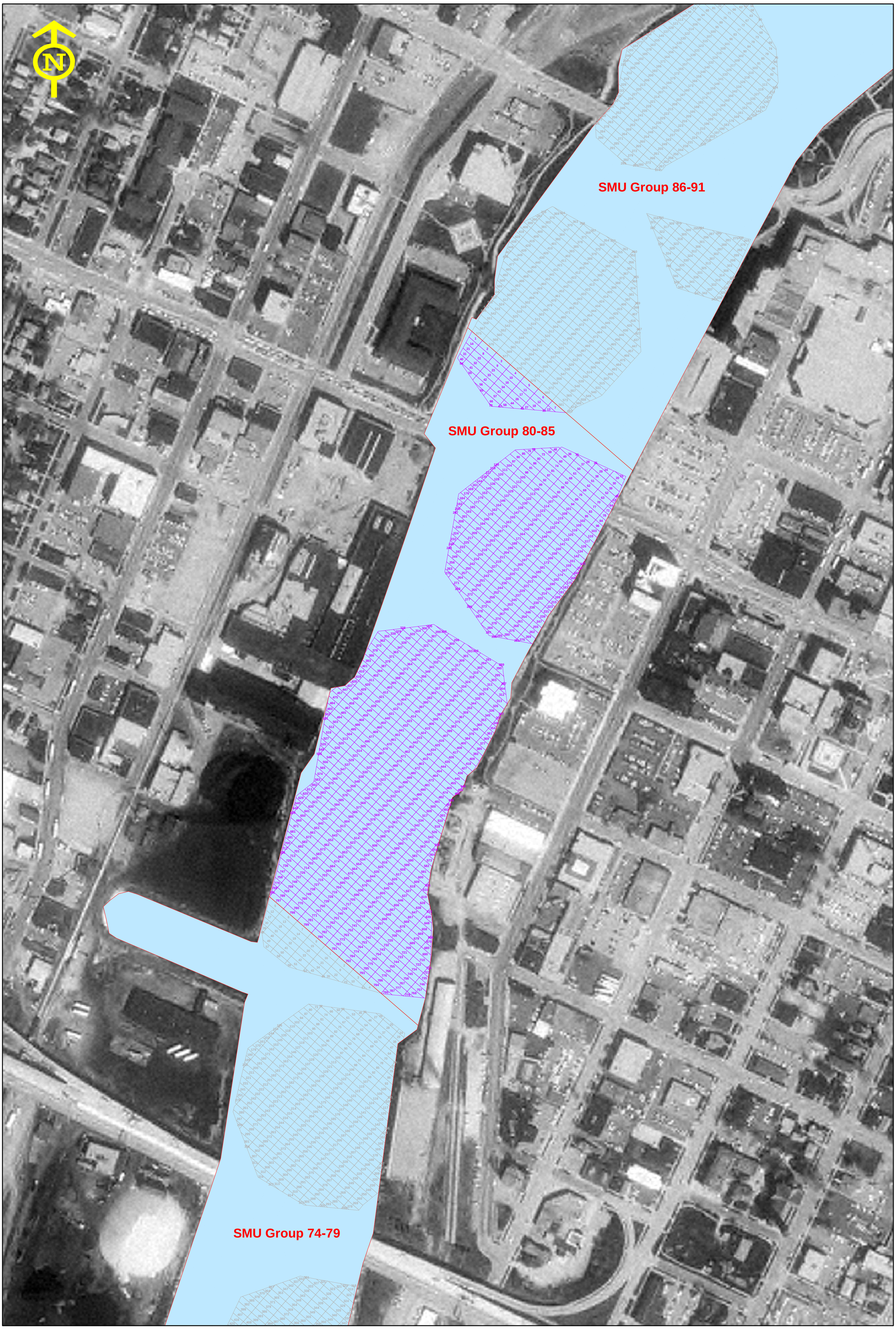


0 150 300 600

1" = 150 Feet

RETEC

OPERABLE UNIT 4 Lower Fox River, Wisconsin (WISCN-15933-121)		REPRESENTATIVE MECHANICAL AND HYDRAULIC COMBINED DREDGE MANAGEMENT UNITS SMU GROUP 80-85	
DATE: 01/23/03	DRWN: SCJ / SEA	MAP: SMU 80-85 Mech.mxd	DRWG: SMU8085-1

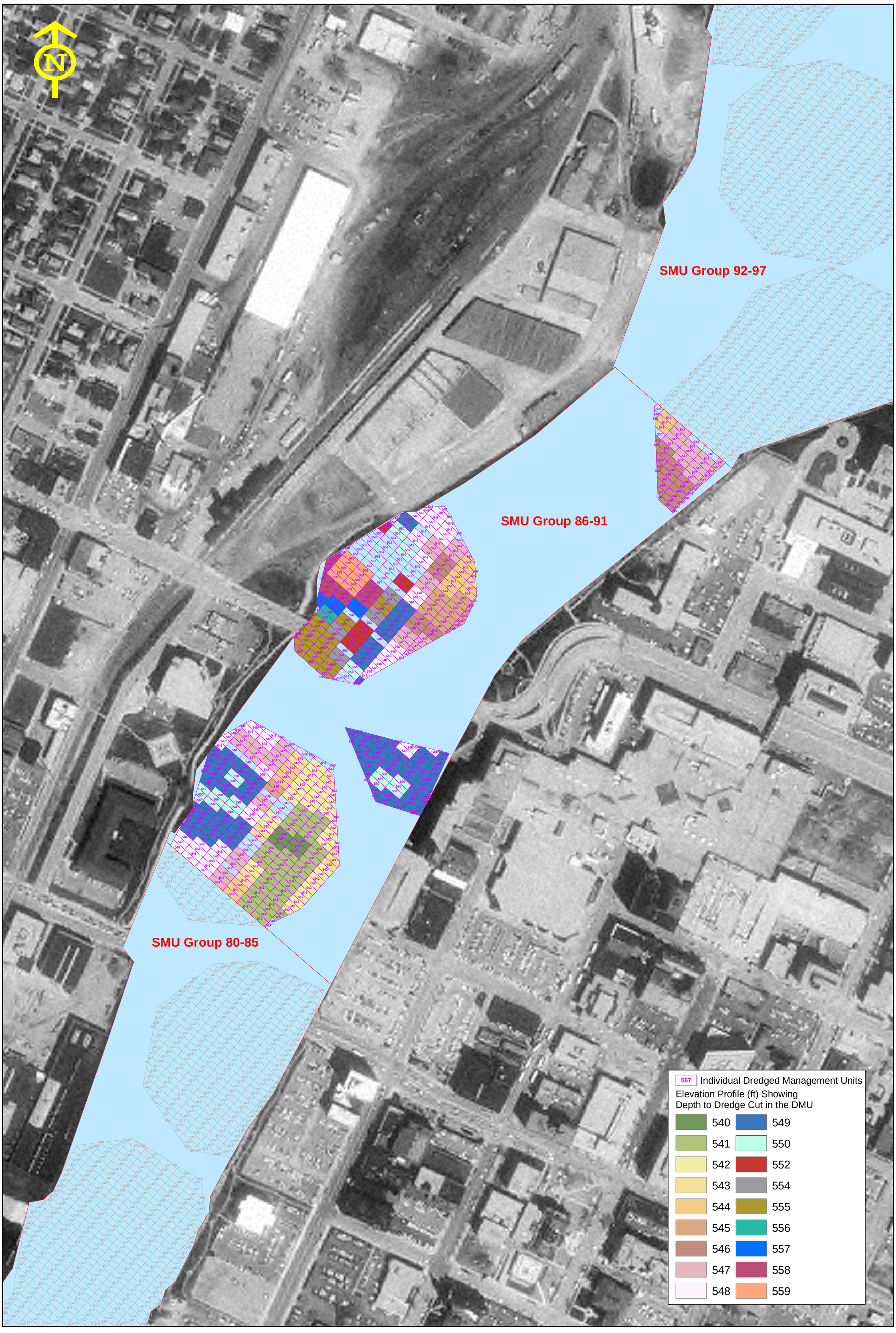


0 150 300 600

1" = 150 Feet

RETEC

OPERABLE UNIT 4 Lower Fox River, Wisconsin (WISCN-15933-121)		DREDGE MANAGEMENT UNIT IDENTIFICATIONS FOR SMU GROUP 80-85	
DATE: 01/23/03	DRWN: SCJ / SEA	MAP: SMU 80-85 IDs.mxd	DRWG: SMU8085-2



0 150 300 600

1" = 150 Feet

RETEC

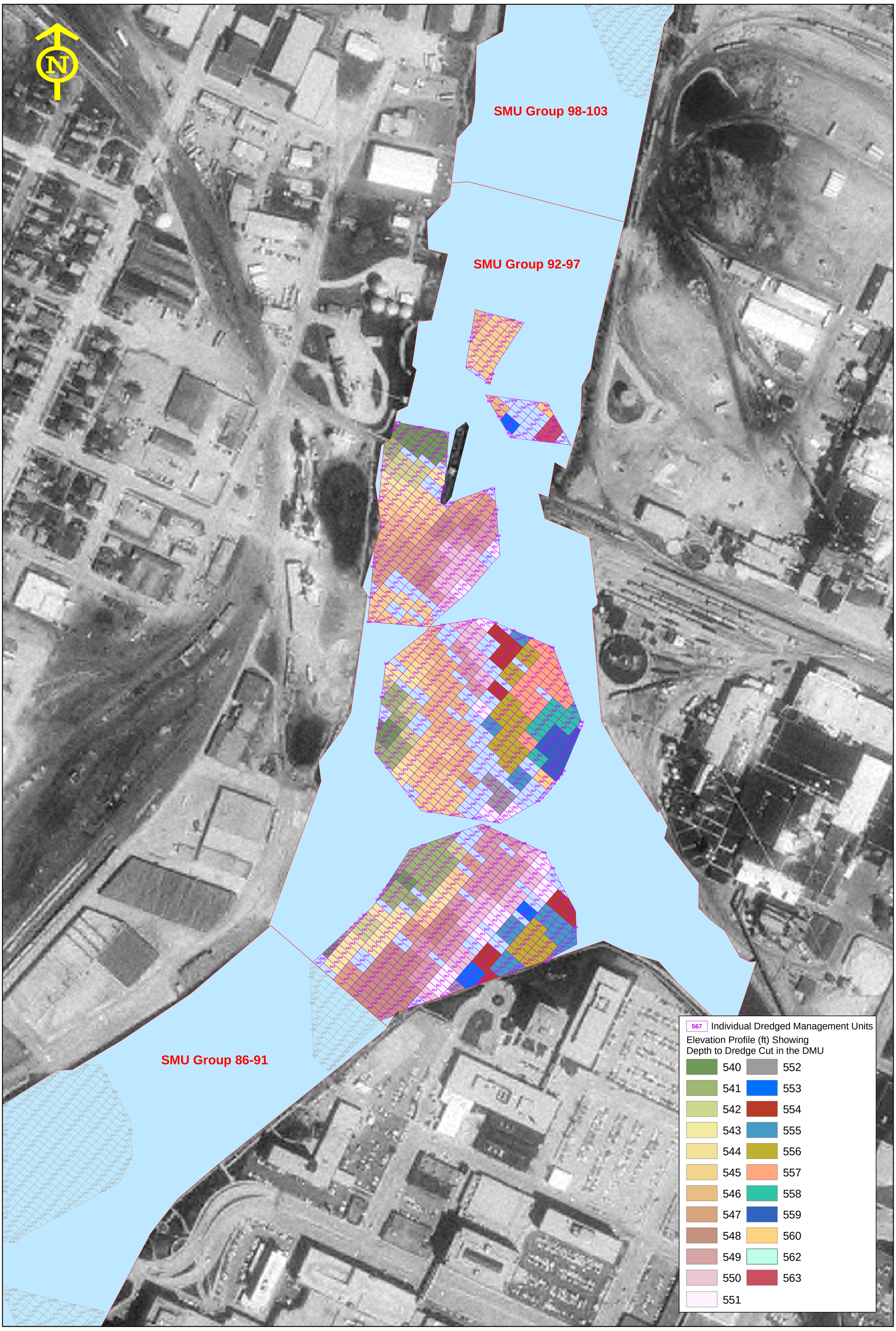
OPERABLE UNIT 4 Lower Fox River, Wisconsin (WISCN-15933-121)		REPRESENTATIVE MECHANICAL AND HYDRAULIC COMBINED DREDGE MANAGEMENT UNITS SMU GROUP 86-91	
DATE: 01/23/03	DRWN: SCJ / SEA	MAP: SMU 86-91 Mech.mxd	DRWG: SMU8691-1

0 150 300 600

1" = 150 Feet

RETEC

OPERABLE UNIT 4 Lower Fox River, Wisconsin (WISCN-15933-121)		DREDGE MANAGEMENT UNIT IDENTIFICATIONS FOR SMU GROUP 86-91	
DATE: 01/23/03	DRWN: SCJ / SEA	MAP: SMU 86-91 IDs.mxd	DRWG: SMU8691-2

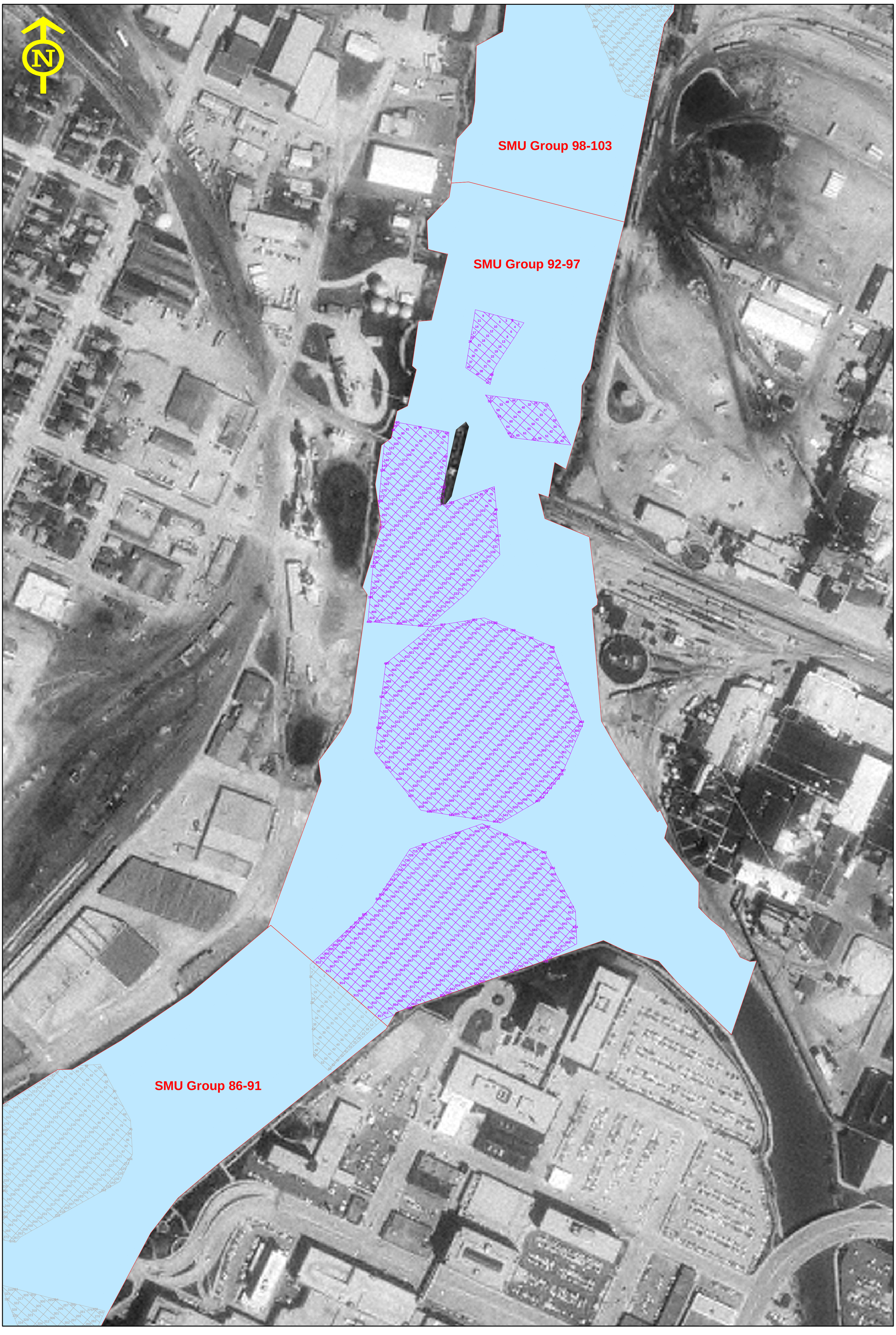


0 150 300 600

1" = 150 Feet

RETEC

OPERABLE UNIT 4 Lower Fox River, Wisconsin (WISCN-15933-121)		REPRESENTATIVE MECHANICAL AND HYDRAULIC COMBINED DREDGE MANAGEMENT UNITS SMU GROUP 92-97	
DATE: 01/23/03	DRWN: SCJ / SEA	MAP: SMU 92-97 Mech.mxd	DRWG: SMU9297-1

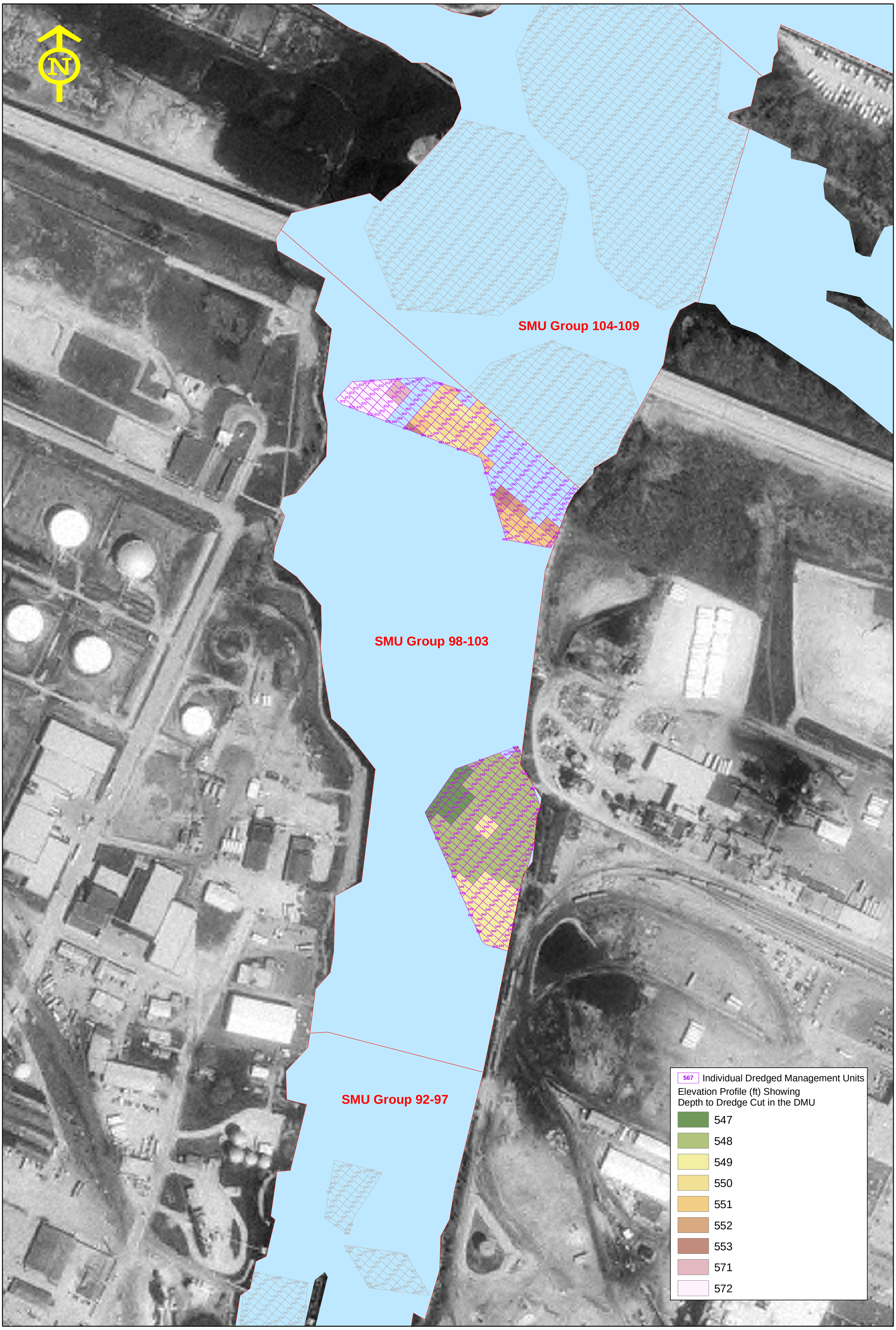


0 150 300 600

1" = 150 Feet

RETEC

OPERABLE UNIT 4 Lower Fox River, Wisconsin (WISCN-15933-121)		DREDGE MANAGEMENT UNIT IDENTIFICATIONS FOR SMU GROUP 92-97	
DATE: 01/23/03	DRWN: SCJ / SEA	MAP: SMU 92-97 IDs.mxd	DRWG: SMU9297-2

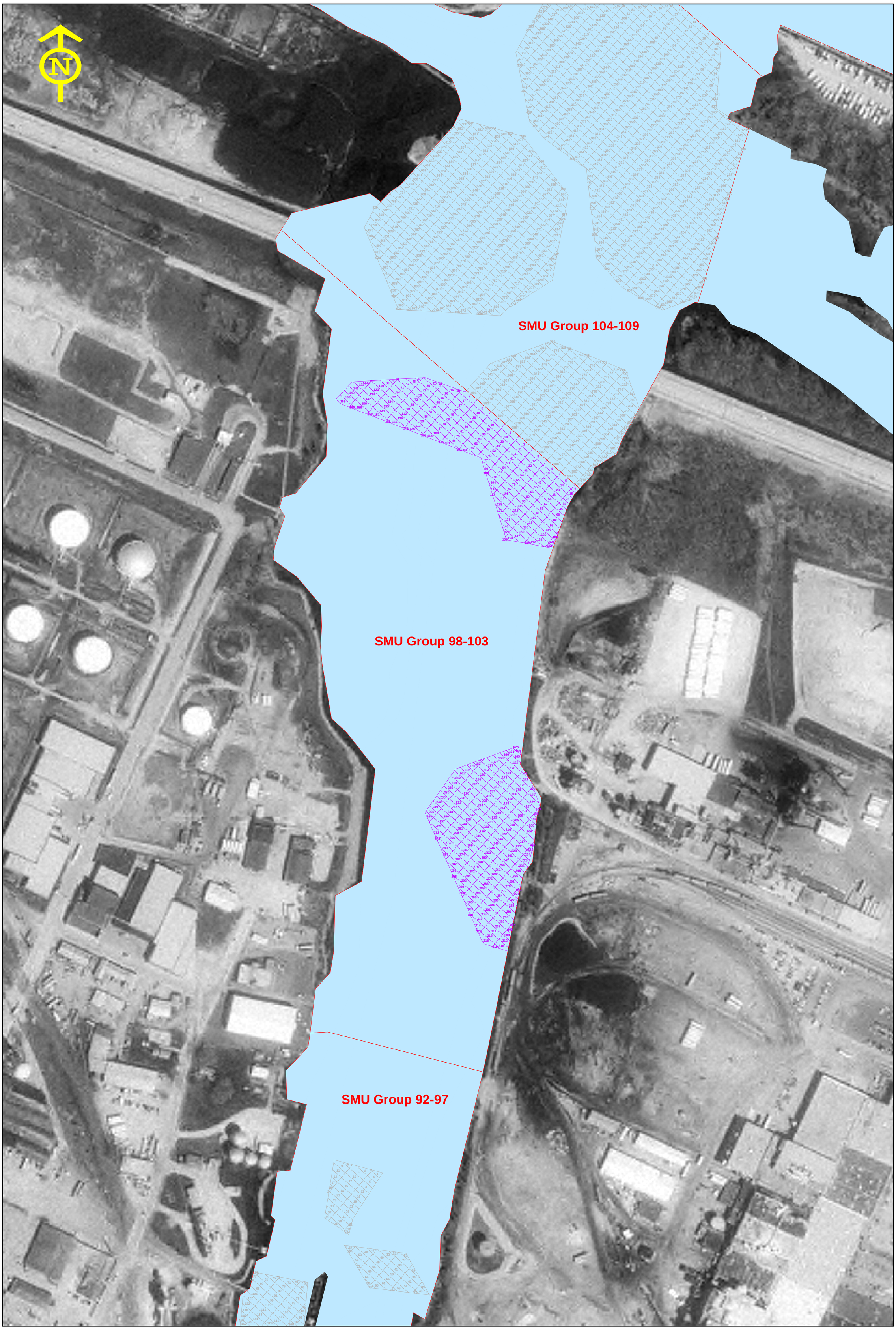


0 150 300 600

1" = 150 Feet

RETEC

OPERABLE UNIT 4 Lower Fox River, Wisconsin (WISCN-15933-121)		REPRESENTATIVE MECHANICAL AND HYDRAULIC COMBINED DREDGE MANAGEMENT UNITS SMU GROUP 98-103	
DATE: 01/23/03	DRWN: SCJ / SEA	MAP: SMU 98-103 Mech.mxd	DRWG: SMU98103-1

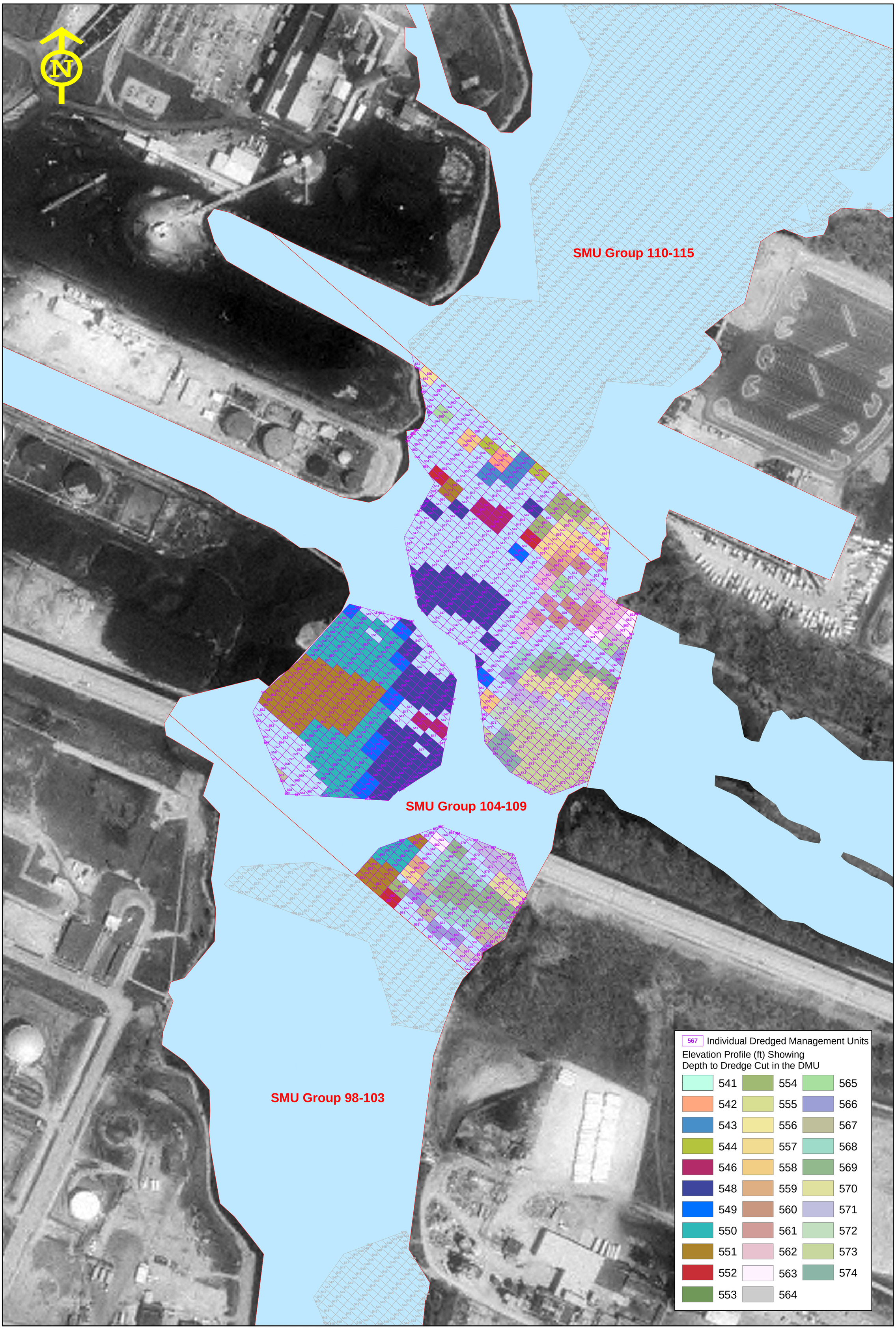


0 150 300 600

1" = 150 Feet

RETEC

OPERABLE UNIT 4 Lower Fox River, Wisconsin (WISCN-15933-121)		DREDGE MANAGEMENT UNIT IDENTIFICATIONS FOR SMU GROUP 98-103	
DATE: 01/23/03	DRWN: SCJ / SEA	MAP: SMU 98-103 IDs.mxd	DRWG: SMU98103-2

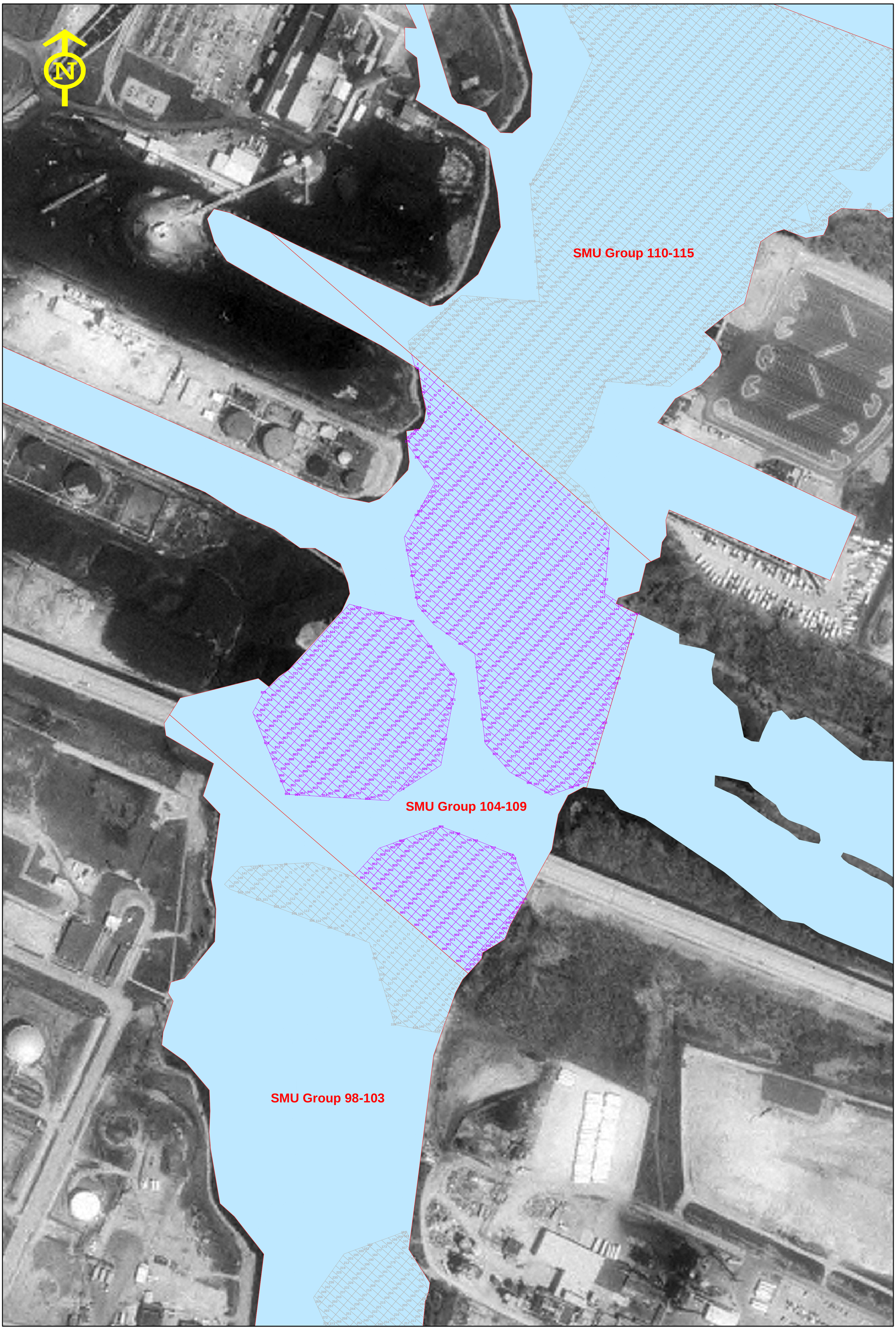


0 150 300 600

1" = 150 Feet

RETEC

OPERABLE UNIT 4 Lower Fox River, Wisconsin (WISCN-15933-121)		REPRESENTATIVE MECHANICAL AND HYDRAULIC COMBINED DREDGE MANAGEMENT UNITS SMU GROUP 104-109	
DATE: 01/23/03	DRWN: SCJ / SEA	MAP: SMU 104-109 Mech.mxd	DRWG: SMU104109-1

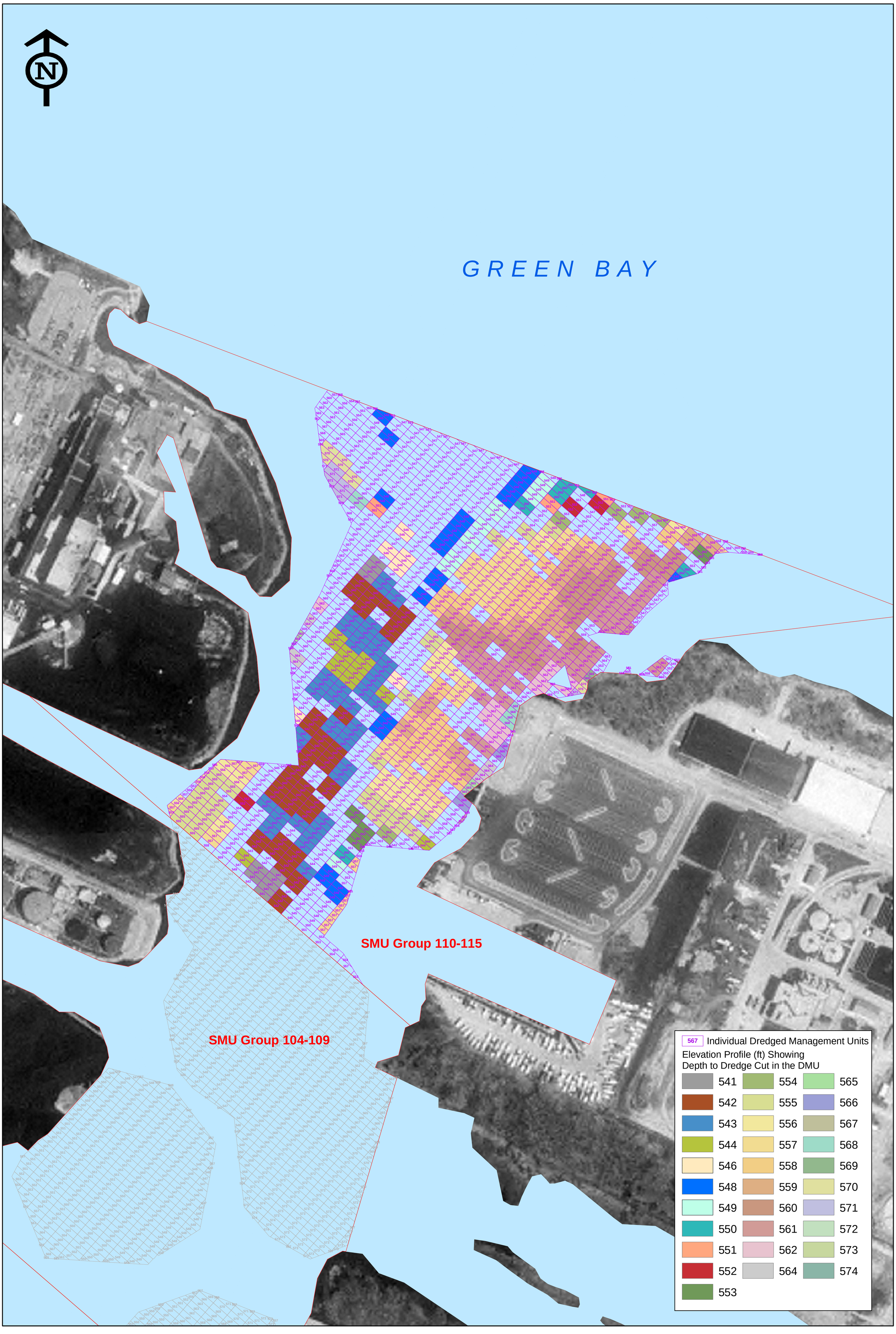


0 150 300 600

1" = 150 Feet

RETEC

OPERABLE UNIT 4 Lower Fox River, Wisconsin (WISCN-15933-121)		**DREDGE MANAGEMENT UNIT IDENTIFICATIONS FOR SMU GROUP 104-109**	
DATE: 01/23/03	DRWN: SCJ / SEA	MAP: SMU 104-109 IDs.mxd	DRWG: SMU104109-2



0 150 300 600

1" = 150 Feet

RETEC

OPERABLE UNIT 4 Lower Fox River, Wisconsin (WISCN-15933-121)		REPRESENTATIVE MECHANICAL AND HYDRAULIC COMBINED DREDGE MANAGEMENT UNITS SMU GROUP 110-115	
DATE: 01/23/03	DRWN: SCJ / SEA	MAP: SMU 110-115 Mech.mxd	DRWG: SMU110115-1

0 150 300 600

1" = 150 Feet

RETEC

OPERABLE UNIT 4 Lower Fox River, Wisconsin (WISCN-15933-121)		DREDGE MANAGEMENT UNIT IDENTIFICATIONS FOR SMU GROUP 110-115	
DATE: 01/23/03	DRWN: SCJ / SEA	MAP: SMU 110-115 IDs.mxd	DRWG: SMU110115-2