



Attachment D
Section 404 Wetland Permit Application –
Supplements 1 and 2



MEMORANDUM

TO: Melissa Jenny
USACE Project Manager

FROM: Jeffrey Olson, Senior Scientist (SEH, Inc)

DATE: July 18, 2016

RE: Proposed BLRT Extension Project
WCA/ Corps Joint Permit Application (Supplement #1)
SEH No. HDRMN 131203

The purpose of this Memorandum is to provide the USACE supplemental information associated with the WCA/ Corps Joint Permit Application in anticipation of the Public Notice of the application. The points covered in this Memorandum address issues described in correspondence with the USACE since the submittal of the permit application. Data in this Supplement #1 supersedes information in the original permit application. Subsequent Supplements, if required, will supersede data herein.

The current WCA and Corps jurisdictional wetland impacts and required mitigation summarized in this Supplement #1 are as follows:

- WCA jurisdictional wetland impacts = 6.2815 ac, WCA mitigation requirements = 12.563 ac
- Corps jurisdictional wetland impacts = 6.7815 ac, Corps mitigation requirements = 13.563 ac

Appendix A contains updated tabular data concerning impacts to wetlands and other waterbodies within the proposed BLRT Extension project area. Appendix B contains an updated list and figures of landowners adjacent to impacted portions of Corps jurisdictional waterbodies.

Issues discussed in this Supplement #1 are as follows:

USACE Jurisdiction of W38, 39, 44 and 45

Per communication with the USACE we agree that it would be most expedient to include W38, W39, W44 and W45 as part of the request for a Preliminary Jurisdictional Determination (PJD). Tabular data in Appendix A has been updated to reflect these additions to Corps jurisdiction.

List of Permits and Approvals (Required and Applied For)

The following table summarizes permits and approvals that have been applied for and those that will be applied for and an estimated timeline of application dates:

Permit / Decision/ Approval	Jurisdiction	Estimated Date
Federal Approvals		
Record of Decision	Federal Transit Administration	Sept 2016
Section 4(f) Determination	Federal Transit Administration	Sept 2016

Permit / Decision/ Approval	Jurisdiction	Estimated Date
Section 6(f) Conversion Approval	National Park Service	To be submitted post-ROD
Section 106 Memorandum of Agreement	Federal Transit Administration, Advisory Council on Historic Preservation	Sept 2016
Section 404 Wetland Permit	US Army Corps of Engineers	May 2016 submittal of application. Supplemental information to be submitted as needed.
Section 7 Concurrence	US Fish and Wildlife Service	May 2016
Letter of No Objection for Use within Runway Protection Zone	Federal Aviation Administration	Dec 2015
Letter of Map Revision Approval	Federal Emergency Management Agency	In Process
State Approvals		
Section 106 Memorandum of Agreement	State Historic Preservation Office	Sept 2016
Right-of-Way Permit	Minnesota Department of Transportation	During Final Design
Application for Drainage Permit	Minnesota Department of Transportation	During Final Design
Application for Utility Accommodation on Trunk Highway Right-of-Way	Minnesota Department of Transportation	During Final Design
Application for Miscellaneous Work on Trunk Highway Right-of-Way	Minnesota Department of Transportation	During Final Design
National Pollutant Discharge Elimination System Permit	Minnesota Pollution Control Agency	During Final Design
Section 401 Water Quality Certification	Minnesota Pollution Control Agency	May 2016 submittal of application. Supplemental information to be submitted as needed.
Public Waters Wetland Permit	Minnesota Department of Natural Resources	June 2016 submittal of application
Water Appropriation Permit	Minnesota Department of Natural Resources	During Final Design
Grant-funded Park Conversion Approval	Minnesota Department of Natural Resources	May 2016
Response Action Plan	Minnesota Pollution Control Agency	During Final Design
Noxious Weed Management Plan	Minnesota Department of Agriculture	During Final Design
Local Approvals		
EIS Adequacy Determination	Metropolitan Council	Sept 2016
Road Crossing/Right-of-Way Permits	Hennepin County and cities of Brooklyn Park, Crystal, Golden Valley, Maple Grove, Minneapolis, and Robbinsdale	During Final Design

Permit / Decision/ Approval	Jurisdiction	Estimated Date
Utility permits	Cities of Brooklyn Park, Crystal, Golden Valley, Maple Grove, Minneapolis, and Robbinsdale	During Final Design
Building permits	Cities of Brooklyn Park, Crystal, Golden Valley, Maple Grove, Minneapolis, and Robbinsdale	During Final Design
Sediment- and erosion-control permits	Cities of Brooklyn Park, Crystal, Golden Valley, Maple Grove, Minneapolis, and Robbinsdale; Mississippi Watershed Management Organization; Bassett Creek Watershed Management Commission; and Shingle Creek and West Mississippi Watershed Management Organization	During Final Design
Wetland Conservation Act Approval	Cities of Crystal, Golden Valley, and Minneapolis; Bassett Creek Watershed Management Commission; Shingle Creek Watershed Management Commission; and West Mississippi Watershed Management Commission	Replacement Plan approval expected in Fall of 2016

Impacts (square feet and linear feet) to Streams below the OHWM

The following table summarizes impacts (square feet and linear feet) to streams and Corps jurisdictional conveyances below the OHWM.

Stream ID	Square Feet Impacts (below OHWM)	Linear Feet Impacts (below OHWM)
Bassett Creek	21,735 SF ¹	450 feet
Culverted conveyance (associated with Wetland 28)	175 SF ¹	~35 feet
Culverted conveyance (associated with Wetland 29)	0 SF	0 feet
Culverted conveyance (associated with Pond East of W30)	0 SF	0 feet

¹ Square Feet of impacts are based on an approximation of the footprint below the Ordinary High Water Mark (OHWM).

Temporary Impacts

Temporary impacts to water bodies are described and depicted in the WCA/ Corps Joint Permit Application. Appendix A summarizes temporary wetland impacts including wetlands updated to be Corps jurisdictional. Total temporary impacts to wetlands are 3.2284 acres.

Total Impacts to Corps Jurisdictional Wetlands, Streams and Ditches

Tabular data in Appendix A summarizes updated impacts to Corp jurisdictional wetland, streams and ditches.

Updates to List and Figures of Landowners Adjacent to Impacts to Corps Jurisdictional Waterbodies

As a result of the determination that W38, W39, W44 and W45 are Corps jurisdictional several additional entries have been added to the list and figures of landowners adjacent to impacts to Corps jurisdictional impacts. See Appendix B.

Appendix A: Tabular Update to Impacts to Wetlands and Other Waterbodies

Basin ID	Updated NWI ¹	Hydric Soil Map?	Field-Verified Cowardin	Eggers & Reed	Circ. 39 Class. ²	Total Basin Size (ac)		USACE Jurisdiction			WCA Juris.	MnDNR Juris.	Impact Type					Mitigation Ratio (2:1 or 1:1)	WCA Mitigation Requirements (ac)	Corps Mitigation requirements (ac)	Municip. (WCA LGU)			
						natural basin	storm pond	Likely Juris. Waters and Streams	Non-WOUS (no mitigation required)	Isolated Basins (no mitigation required)			Fill impact (ac)	Cut impact (ac)	Temp. Impact (ac)	Total Impact (ac)	Total WCA Mitigatable Impacts (ac)					Total Corps Mitigatable Impacts (ac)		
W1	PEM1A	Yes	PEM1A	Seas. flooded basin	Type 1	1.59				yes	yes	no	0	0	0	0	0	0	2 to 1	0	0	0	Brooklyn Park (Shingle Creek WMC)	
W2	PEM1C	Yes	PEM1A	Seas. flooded basin	Type 1	1.37				yes	yes	yes	0	0	0	0	0	0	2 to 1	0	0	0	Brooklyn Park (Shingle Creek WMC)	
W3	PEM1A	Yes	PEM1A	Seas. flooded basin	Type 1	1.23				yes	yes	no	0	0	0	0	0	0	2 to 1	0	0	0	Brooklyn Park (Shingle Creek WMC)	
W4	Not mapped	Yes	PEM1A	Seas. flooded basin	Type 1	0.14				yes	yes	no	0.1357	0	0	0.1357	0.1357	0	2 to 1	0.2714	0	0	0	Brooklyn Park (Shingle Creek WMC)
W5	PFO1A	Yes	PFO1A	Floodplain forest	Type 1	0.07				yes	yes	no	0	0	0	0	0	0	2 to 1	0	0	0	Brooklyn Park (Shingle Creek WMC)	
W6	PFO1A	Yes	PFO1A	Floodplain forest	Type 1	0.14				yes	yes	no	0	0	0	0	0	0	2 to 1	0	0	0	Brooklyn Park (Shingle Creek WMC)	
W7	PEM1A	Yes	PEM1A	Seas. flooded basin	Type 1	0.55				yes	yes	no	0.2869	0	0	0.2869	0.2869	0	2 to 1	0.5738	0	0	0	Brooklyn Park (Shingle Creek WMC)
W8	PFO1A	Yes	PFO1A	Floodplain forest	Type 1	0.14				yes	yes	no	0.0254	0	0	0.0254	0.0254	0	2 to 1	0.0508	0	0	0	Brooklyn Park (Shingle Creek WMC)
W9	Not mapped	Yes	PEM1A	Seas. flooded basin	Type 1	0.18				yes	yes	no	0.0012	0	0	0.0012	0.0012	0	2 to 1	0.0024	0	0	0	Brooklyn Park (Shingle Creek WMC)
W10	Not mapped	Yes	PEM1A	Seas. flooded basin	Type 1		0.06		yes		yes	no	0	0	0	0	0	0	2 to 1	0	0	0	Brooklyn Park (Shingle Creek WMC)	
W11	PEM1A	Partially	PEM1A	Seas. flooded basin	Type 1	1.06				yes	yes	no	0	0	0	0	0	0	2 to 1	0	0	0	Brooklyn Park (Shingle Creek WMC)	
W12	Not mapped	Yes	PEM1A	Seas. flooded basin	Type 1	0.06				yes	yes	no	0.0233	0.0332	0	0.0565	0.0233	0	2 to 1	0.0466	0	0	0	Brooklyn Park (Shingle Creek WMC)
W13	PEM1A	Partially	PEM1A	Seas. flooded basin	Type 1	2.41				yes	yes	no	0.5333	0	0	0.5333	0.5333	0	2 to 1	1.0666	0	0	0	Brooklyn Park (Shingle Creek WMC)
W14	PEM1A	Yes	PUBGx	Deep Marsh	Type 4		0.61		yes		no	no	0.6058	0	0	0.6058	0	0	2 to 1	0	0	0	Brooklyn Park (Shingle Creek WMC)	
W15	Not mapped	Yes	PSS1A	Shrub Carr	Type 6		0.79		yes		no	no	0	0	0	0	0	0	2 to 1	0	0	0	Brooklyn Park (Shingle Creek WMC)	
W16	PUBGx/PEM1C	No	PUBGx	Deep Marsh	Type 4		0.82		yes		no	no	0.8194	0	0	0.8194	0	0	2 to 1	0	0	0	Brooklyn Park (Shingle Creek WMC)	
W17	Not mapped	No	PSS1A	Shrub Carr	Type 6		0.05		yes		no	no	0	0	0	0	0	0	2 to 1	0	0	0	Brooklyn Park (Shingle Creek WMC)	
W26	Not mapped	No	PEM1A	Seas. flooded basin	Type 1		0.01		yes		no	no	0.01	0	0	0.01	0	0	2 to 1	0	0	0	Brooklyn Park (Shingle Creek WMC)	
W27	PEM1C	No	PEM1A	Seas. flooded basin	Type 1		0.62		yes		no	no	0	0	0	0	0	0	2 to 1	0	0	0	Brooklyn Park (Shingle Creek WMC)	
W28	PABGx/PEM1C	Yes	PFO1A	Floodplain forest	Type 1	2.57		yes			yes	yes	0.2821	0.1482	0	0.4303	0	0.4303	2 to 1	0	0	0.8606	0	Brooklyn Park (Shingle Creek WMC)
W29	PEM1C	Yes	PEM1C	Shallow Marsh	Type 3		1.02	yes			yes	no	0	0	0	0	0	0	2 to 1	0	0	0	Crystal (Crystal)	

Basin ID	Updated NWI ¹	Hydric Soil Map?	Field-Verified Cowardin	Eggers & Reed	Circ. 39 Class. ²	Total Basin Size (ac)		USACE Jurisdiction		WCA Juris.	MnDNR Juris.	Impact Type					Mitigation Ratio (2:1 or 1:1)	WCA Mitigation Requirements (ac)	Corps Mitigation requirements (ac)	Municip. (WCA LGU)		
								yes				0	0	0	0	0					0	0
W30	PUBG/ PEM1A	No	PUBGx	Open Water	Type 5		1.2		yes		no	no	0	0	0	0	0	0	2 to 1	0	0	Robbinsdale (Shingle Creek WMC)
W31	PSS1A	No	PSS1A	Shrub Carr	Type 6	0		yes		yes	yes	0	0	0	0	0	0	0	2 to 1	0	0	Robbinsdale (Bassett Creek WMC)
W32	PFO1A	No	PFO1A/ PEMC/ PSS1C	Floodplain forest/ Shallow Marsh/ Shrub Carr	Type 1/ Type 3/ Type 6	7.71		yes		yes	yes	0	0	1.2544	1.2544	0	0	0	2 to 1	0	0	Robbinsdale (Bassett Creek WMC)
W33	PABG	No	PUBGx	Open Water	Type 5	7.41		yes		yes	yes	0.3464	0.0731	1.2725	1.692	0.4195	0.4195	2 to 1	0.839	0.839	Robbinsdale (Bassett Creek WMC)	
W34	PEM1F/ PABG	Yes	PEM1F	Deep Marsh	Type 4	17.01		yes		yes	yes	0	0	0	0	0	0	2 to 1	0	0	Golden Valley (Golden Valley) and Robbinsdale (Bassett Creek WMC)	
W35	PEM1F	No	PFO1A	Floodplain forest	Type 1	0.85		yes		yes	no	0.3639	0.0394	0	0.4033	0.4033	0.4033	2 to 1	0.8066	0.8066	Robbinsdale (Bassett Creek WMC)	
W36	PSS1A	No	PSS1A	Shrub Carr	Type 6	1.39		yes		yes	no	0.2124	0	0	0.2124	0.2124	0.2124	2 to 1	0.4248	0.4248	Robbinsdale (Bassett Creek WMC)	
W37	Not mapped	No	PEM1A	Seas. flooded basin	Type 1		0.08	yes		no	no	0.0755	0	0	0.0755	0	0	2 to 1	0	0	Golden Valley (Golden Valley)	
W38	PFO1A/ PABG	No	PUBGx/ PEMA	Open Water/ wet (fresh) meadow	Type 5/ Type 2	3.08		yes		yes	no	0	0	0	0	0	0	2 to 1	0	0	Golden Valley (Golden Valley)	
W39	PFO1A	No	PUBGx	Open Water	Type 5	2		yes		yes	no	0.398	0.0025	0.6505	1.051	0.4005	0.4005	2 to 1	0.801	0.801	Golden Valley (Golden Valley)	
W40	PFO1A	No	PEM1A	Seas. flooded basin	Type 1	0.31		yes		yes	no	0.3006	0.0121	0	0.3127	0.3127	0.3127	2 to 1	0.6254	0.6254	Golden Valley (Golden Valley)	
W41	Not mapped	No	PEM1A	Seas. flooded basin	Type 1		0.19	yes		no	no	0.1917	0	0	0.1917	0	0	2 to 1	0	0	Golden Valley (Golden Valley)	
W42	Not mapped	No	PSS1A	Shrub Carr	Type 6		0.29	yes		no	no	0.2886	0	0	0.2886	0	0	2 to 1	0	0	Golden Valley (Golden Valley) and Minneapolis	
W44	PABG	No	PUBGx	Open Water	Type 5	0.87		yes		yes	no	0.8722	0	0	0.8722	0.8722	0.8722	2 to 1	1.7444	1.7444	Robbinsdale (Bassett Creek WMC)	
W45	Not mapped	No	PFO1A	Floodplain forest	Type 1	2.05		yes		yes	no	1.1982	0.1483	0	1.3465	1.1982	1.3465	2 to 1	2.3964	2.693	Robbinsdale (Bassett Creek WMC)	
W46	riverine	Yes	riverine	riverine	riverine	0		yes		no	yes	0	0	0	0	0	0	2 to 1	0	0		
W46	PFO1A	No	PFO1A	Floodplain forest	Type 1	11.14		yes		yes	no	0.9799	0.0633	0.0008	1.044	0.9799	1.0432	2 to 1	1.9598	2.0864	Golden Valley (Golden Valley)	
W47	PEM1C	No	PFO1A	Floodplain forest	Type 1	0		yes		yes	yes	0	0	0	0	0	0	2 to 1	0	0	Golden Valley (Golden Valley)	
W48	R2UBG	No	R2UBGx	Riverine	Type 4	0.5		yes		yes	no	0.1038	0	0.0502	0.154	0.1038	0.1038	2 to 1	0.2076	0.2076	Minneapolis (Minneapolis)	
W49	PFO1A	No	PFO1A	Floodplain forest	Type 1		0.08	yes		no	no	0.1018	0	0	0.1018	0	0	2 to 1	0	0	Golden Valley (Golden Valley) / Minneapolis (Minneapolis)	
W50	PFO1A	No	PEM1A	Seas. flooded basin	Type 1	0.12		yes		yes	no	0.1176	0	0	0.1176	0.1176	0.1176	2 to 1	0.2352	0.2352	Golden Valley (Golden Valley)	

Basin ID	Updated NWI ¹	Hydric Soil Map?	Field-Verified Cowardin	Eggers & Reed	Circ. 39 Class. ²	Total Basin Size (ac)		USACE Jurisdiction			WCA Juris.	MnDNR Juris.	Impact Type					Mitigation Ratio (2:1 or 1:1)	WCA Mitigation Requirements (ac)	Corps Mitigation requirements (ac)	Municip. (WCA LGU)	
W51	PEMA	Yes	PEMA	Seas. flooded basin	Type 1	4.59		yes			yes	no	0.2095	0	0	0.2095	0.2095	0.2095	2 to 1	0.419	0.419	Brooklyn Park (Shingle Creek WMC)
W52	not mapped	Yes	PEMA	Seas. flooded basin	Type 1	0.01				yes	yes	no	0	0.0461	0	0.0461	0.0461	0	2 to 1	0.0922	0	Brooklyn Park (Shingle Creek WMC)
pond east of W30	PUBG	No	PUBG	Open Water	Type 4		0.91	yes			no	no	0	0.91	0	0.91	0	0.91	2 to 1	0	1.82	Robbinsdale (Shingle Creek WMC)
Total						70.55	6.73						8.4832	1.4762	3.2284	13.1878	6.2815	6.7815	2 to 1	12.563	13.563	

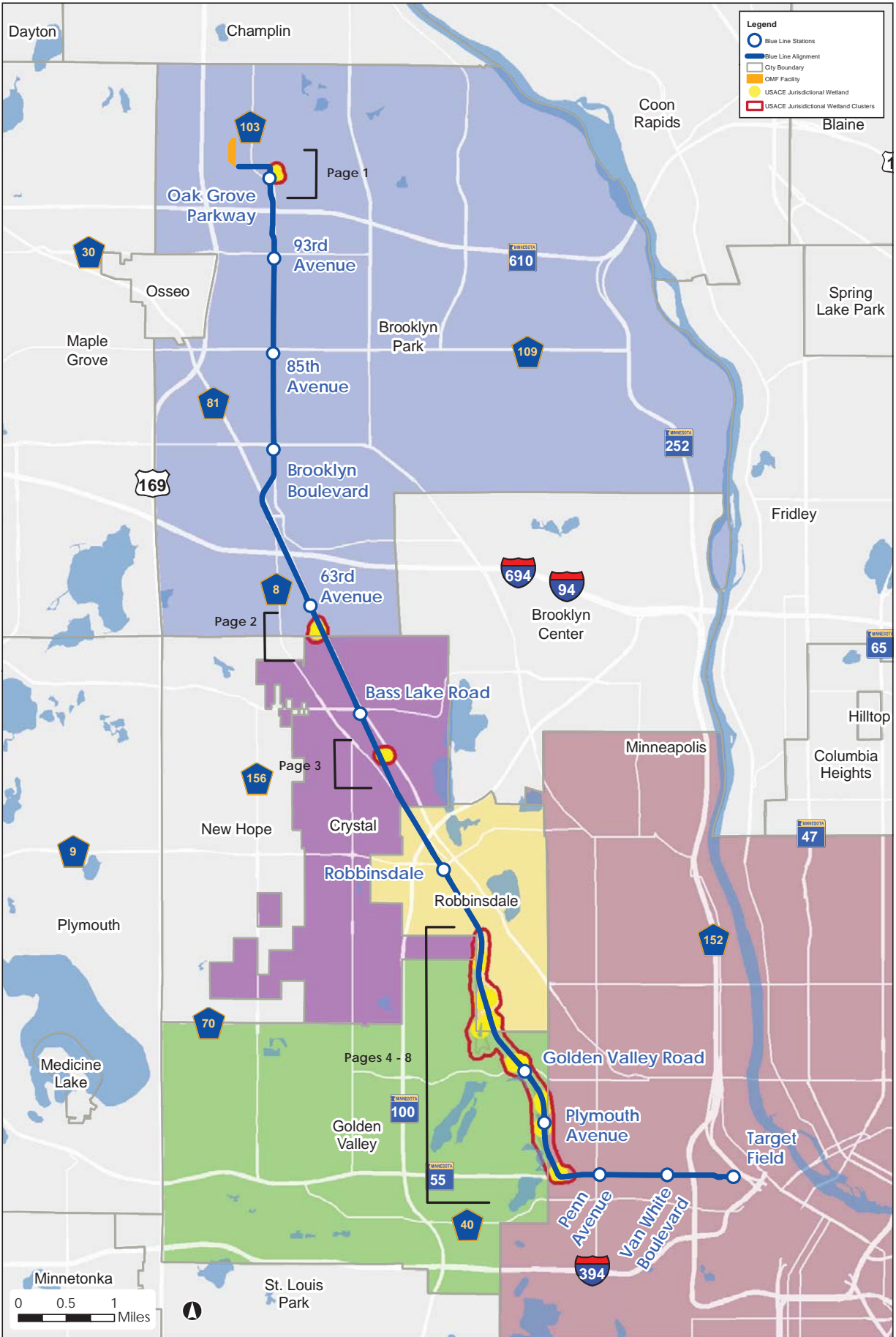
1: NWI data used in this report was updated in 2013.

2: Note: Wetland Types per Circular 39 indicate the majority of wetland types within a delineated basin. Several other minor wetland types may also be present within the basin.

Appendix B: Update to List of Adjacent Landowners

PID	OWNER	TAXPAYER	Address_1	Address_2	Address_3	City	State	Zip	NOTE:
0702924110157	HENNEPIN FORFEITED LAND	CITY OF ROBBINSDALE	4100 LAKEVIEW AVE N	ROBBINSDALE MN 55422		ROBBINSDALE	MN	55422	
0702924110174	BURLINGTON NORTHERN RY	B N & SANTA FE RR CO	PROPERTY TAX DEPT	PO BOX 961089	FORT WORTH TX 76161	FORT WORTH	TX	76161	
0702924110186	CITY OF ROBBINSDALE	CITY OF ROBBINSDALE	4100 LAKEVIEW AVE N	ROBBINSDALE MN 55422		ROBBINSDALE	MN	55422	
0702924140174	NORTHERN STATES POWER CO	NSP PROPERTY TAX DEPT	414 NICOLLET MALL	MPLS MN 55401		MINNEAPOLIS	MN	55401	
0702924410029	JAMES P MILLER	JAMES P MILLER	2933 FRANCE AVE N	ROBBINSDALE MN 55422		ROBBINSDALE	MN	55422	
0702924410030	H A DERESSE & S E ADEDA	H A DERESSE & S E ADEDA	2931 FRANCE AVE N	ROBBINSDALE MN 55422		ROBBINSDALE	MN	55422	
0702924410031	C D DICKERSON & A DICKERSON	CAROLE DICKERSON	2923 FRANCE AVE N	ROBBINSDALE MN 55422		ROBBINSDALE	MN	55422	
0702924410035	P BORRESON & HANNAH BORRESON	PHILLIP BORRESON	HANNAH BORRESON	2905 FRANCE AVE N	ROBBINSDALE MN 55422	ROBBINSDALE	MN	55422	
0702924410036	SAHIR GHANI	SAHIR GHANI	2901 FRANCE AVE N	ROBBINSDALE MN 55422		ROBBINSDALE	MN	55422	
0702924410060	T J & S T BELDEN	T J BELDEN & S T BELDEN	2909 FRANCE AVE NO	ROBBINSDALE MN 55422		ROBBINSDALE	MN	55422	
0702924410063	CITY OF ROBBINSDALE	CITY OF ROBBINSDALE	4100 LAKEVIEW AVE N	ROBBINSDALE MN 55422		ROBBINSDALE	MN	55422	
0702924410064	CITY OF ROBBINSDALE	CITY OF ROBBINSDALE	4100 LAKEVIEW AVE N	ROBBINSDALE MN 55422		ROBBINSDALE	MN	55422	
0702924440004	JULIE K ANDERSON	JULIE K ANDERSON	2735 FRANCE AVE N	ROBBINSDALE MN 55422		ROBBINSDALE	MN	55422	
0702924440005	C T PETERS & J L PETERS	CHRISTOPHER T/JUDY L PETERS	2701 FRANCE AVE N	ROBBINSDALE MN 55422		ROBBINSDALE	MN	55422	
0702924440027	KATHLEEN A RUSHING	KATHLEEN A RUSHING	2747 FRANCE AVE N	ROBBINSDALE MN 55422		ROBBINSDALE	MN	55422	
0811921210005	TARGET CORPORATION	TARGET CORPORATION	PROPERTY TAX DEPT T-0591A	PO BOX 9456	MINNEAPOLIS MN 55440-9456	MINNEAPOLIS	MN	55440	
1702924210001	CITY OF MPLS PK BD	CITY OF MPLS PARK BOARD	2117 WEST RIVER RD	MINNEAPOLIS MN 55411		MINNEAPOLIS	MN	55411	
1702924240001	CH OF ST MARGARET	CH OF ST MARGARET MARY	2323 ZENITH AVE N	GOLDEN VALLEY MN 55422		GOLDEN VALLEY	MN	55422	
1702924340006	CITY OF MPLS PK BD	CITY OF MPLS PARK BOARD	2117 WEST RIVER RD	MINNEAPOLIS MN 55411		MINNEAPOLIS	MN	55411	
1702924340008	CITY OF MPLS PK BD	CITY OF MPLS PARK BOARD	2117 WEST RIVER RD	MINNEAPOLIS MN 55411		MINNEAPOLIS	MN	55411	
1702924340009	G N RY CO	B N & SANTA FE RR CO	PROPERTY TAX DEPT	PO BOX 961089	FORT WORTH TX 76161	FORT WORTH	TX	76161	
1702924340010	BURLINGTON NORTHERN INC	B N & SANTA FE RR CO	PROPERTY TAX DEPT	PO BOX 961089	FORT WORTH TX 76161	FORT WORTH	TX	76161	
1702924349000									Same parcel boundary as 1702924340010, 1702924340009
2002924130002	GR NORTH RY CO	B N & SANTA FE RR CO	PROPERTY TAX DEPT	PO BOX 961089	FORT WORTH TX 76161	FORT WORTH	TX	76161	
2002924130045	SOO LINE RAILROAD CO	SOO LINE RAILROAD	REAL ESTATE DEPT SUITE 1525	501 MARQUETTE AVE S	MINNEAPOLIS MN 55402	MINNEAPOLIS	MN	55402	
2002924130138	CITY OF MINNEAPOLIS PK BOARD	CITY OF MPLS PARK BOARD	2117 WEST RIVER RD	MINNEAPOLIS MN 55411		MINNEAPOLIS	MN	55411	
2002924210003	G N RY CO	B N & SANTA FE RR CO	PROPERTY TAX DEPT	PO BOX 961089	FORT WORTH TX 76161	FORT WORTH	TX	76161	
2002924210004	BURLINGTON NORTHERN INC	B N & SANTA FE RR CO	PROPERTY TAX DEPT	PO BOX 961089	FORT WORTH TX 76161	FORT WORTH	TX	76161	
2002924219000									Same parcel boundary as 2002924210003, 2002924210004
2002924230002	CITY OF MPLS PARK BOARD	CITY OF MPLS PARK BOARD	2117 WEST RIVER RD	MINNEAPOLIS MN 55411		MINNEAPOLIS	MN	55411	
3211921210001	GT NORTHERN RY CO	B N & SANTA FE RR CO	PROPERTY TAX DEPT	PO BOX 961089	FORT WORTH TX 76161	FORT WORTH	TX	76161	
3211921219000									Same parcel boundary as 3211921420049, 3211921240020, 3211921210001
3211921240020	BURLINGTON NORTHERN INC	B N & SANTA FE RR CO	PROPERTY TAX DEPT	PO BOX 961089	FORT WORTH TX 76161	FORT WORTH	TX	76161	
3211921420049	BURLINGTON NORTHERN INC	B N & SANTA FE RR CO	PROPERTY TAX DEPT	PO BOX 961089	FORT WORTH TX 76161	FORT WORTH	TX	76161	
3211921430014	HENNEPIN FORFEITED LAND	CITY OF BROOKLYN PARK	ATTN ACCOUNTS PAYABLE	5200 85TH AVE N	BROOKLYN PARK MN 55443	BROOKLYN PARK	MN	55443	

PID	OWNER	TAXPAYER	Address_1	Address_2	Address_3	City	State	Zip	NOTE:	WetlandNumber	Jurisdictional	PermanentImpactWET	TemporaryImpactWET
0702924110174	BURLINGTON NORTHERN RY	B N & SANTA FE RR CO	PROPERTY TAX DEPT	PO BOX 961089	FORT WORTH TX 76161	FORT WORTH	TX	76161		33, 35, 36, 44, 45	Yes	Yes	Yes
0702924410029	JAMES P MILLER	JAMES P MILLER	2933 FRANCE AVE N	ROBBINSDALE MN 55422		ROBBINSDALE	MN	55422		33	Yes	Yes	Yes
0702924410030	H A DERESSE & S E ADEDA	H A DERESSE & S E ADEDA	2931 FRANCE AVE N	ROBBINSDALE MN 55422		ROBBINSDALE	MN	55422		33	Yes	Yes	Yes
0702924410031	C D DICKERSON & A DICKERSON	CAROLE DICKERSON	2923 FRANCE AVE N	ROBBINSDALE MN 55422		ROBBINSDALE	MN	55422		33	Yes	Yes	Yes
0702924410035	P BORRESON & HANNAH BORRESON	PHILLIP BORRESON	HANNAH BORRESON	2905 FRANCE AVE N	ROBBINSDALE MN 55422	ROBBINSDALE	MN	55422		33	Yes	Yes	Yes
0702924410036	SAHIR GHANI	SAHIR GHANI	2901 FRANCE AVE N	ROBBINSDALE MN 55422		ROBBINSDALE	MN	55422		33	Yes	Yes	Yes
0702924410060	T J & S T BELDEN	T J BELDEN & S T BELDEN	2909 FRANCE AVE NO	ROBBINSDALE MN 55422		ROBBINSDALE	MN	55422		33	Yes	Yes	Yes
0702924410063	CITY OF ROBBINSDALE	CITY OF ROBBINSDALE	4100 LAKEVIEW AVE N	ROBBINSDALE MN 55422		ROBBINSDALE	MN	55422		35, 45	Yes	Yes	Yes
0702924410064	CITY OF ROBBINSDALE	CITY OF ROBBINSDALE	4100 LAKEVIEW AVE N	ROBBINSDALE MN 55422		ROBBINSDALE	MN	55422		33	Yes	Yes	Yes
1702924210001	CITY OF MPLS PK BD	CITY OF MPLS PARK BOARD	2117 WEST RIVER RD	MINNEAPOLIS MN 55411		MINNEAPOLIS	MN	55411		39	Yes	Yes	Yes
1702924240001	CH OF ST MARGARET	CH OF ST MARGARET MARY	2323 ZENITH AVE N	GOLDEN VALLEY MN 55422		GOLDEN VALLEY	MN	55422		39	Yes	Yes	Yes
1702924340006	CITY OF MPLS PK BD	CITY OF MPLS PARK BOARD	2117 WEST RIVER RD	MINNEAPOLIS MN 55411		MINNEAPOLIS	MN	55411		46	Yes	Yes	Yes
1702924340009	G N RY CO	B N & SANTA FE RR CO	PROPERTY TAX DEPT	PO BOX 961089	FORT WORTH TX 76161	FORT WORTH	TX	76161		37, 39, 40, 41, 46, 50	Yes	Yes	Yes
1702924340010	BURLINGTON NORTHERN INC	B N & SANTA FE RR CO	PROPERTY TAX DEPT	PO BOX 961089	FORT WORTH TX 76161	FORT WORTH	TX	76161		37, 39, 40, 41, 46, 50	Yes	Yes	Yes
1702924349000									Same parcel boundary as 1702924340010, 1702924340009	37, 39, 40, 41, 46, 50	Yes	Yes	Yes
2002924130002	GR NORTH RY CO	B N & SANTA FE RR CO	PROPERTY TAX DEPT	PO BOX 961089	FORT WORTH TX 76161	FORT WORTH	TX	76161		42, 48, 49	Yes	Yes	Yes
2002924130045	SOO LINE RAILROAD CO	SOO LINE RAILROAD	REAL ESTATE DEPT SUITE 1525	501 MARQUETTE AVE S	MINNEAPOLIS MN 55402	MINNEAPOLIS	MN	55402		48, 49	Yes	Yes	Yes
0702924110157	HENNEPIN FORFEITED LAND	CITY OF ROBBINSDALE	4100 LAKEVIEW AVE N	ROBBINSDALE MN 55422		ROBBINSDALE	MN	55422		44	Yes	Yes	Yes
0702924110186	CITY OF ROBBINSDALE	CITY OF ROBBINSDALE	4100 LAKEVIEW AVE N	ROBBINSDALE MN 55422		ROBBINSDALE	MN	55422		45	Yes	Yes	Yes
0702924140174	NORTHERN STATES POWER CO	NSP PROPERTY TAX DEPT	414 NICOLLET MALL	MPLS MN 55401		MINNEAPOLIS	MN	55401		44	Yes	Yes	Yes
0702924440004	JULIE K ANDERSON	JULIE K ANDERSON	2735 FRANCE AVE N	ROBBINSDALE MN 55422		ROBBINSDALE	MN	55422		36	Yes	Yes	Yes
0702924440005	C T PETERS & J L PETERS	CHRISTOPHER T/JUDY L PETERS	2701 FRANCE AVE N	ROBBINSDALE MN 55422		ROBBINSDALE	MN	55422		36	Yes	Yes	Yes
0811921210005	TARGET CORPORATION	TARGET CORPORATION	PROPERTY TAX DEPT T-0591A	PO BOX 9456	MINNEAPOLIS MN 55440-9456	MINNEAPOLIS	MN	55440		51	Yes	Yes	Yes
1702924340008	CITY OF MPLS PK BD	CITY OF MPLS PARK BOARD	2117 WEST RIVER RD	MINNEAPOLIS MN 55411		MINNEAPOLIS	MN	55411		46	Yes	Yes	Yes
2002924210003	G N RY CO	B N & SANTA FE RR CO	PROPERTY TAX DEPT	PO BOX 961089	FORT WORTH TX 76161	FORT WORTH	TX	76161		46, 49	Yes	Yes	Yes
2002924210004	BURLINGTON NORTHERN INC	B N & SANTA FE RR CO	PROPERTY TAX DEPT	PO BOX 961089	FORT WORTH TX 76161	FORT WORTH	TX	76161		46, 49	Yes	Yes	Yes
2002924219000									Same parcel boundary as 2002924210003, 2002924210004	46, 49	Yes	Yes	Yes
2002924230002	CITY OF MPLS PARK BOARD	CITY OF MPLS PARK BOARD	2117 WEST RIVER RD	MINNEAPOLIS MN 55411		MINNEAPOLIS	MN	55411		46, 49	Yes	Yes	Yes
3211921210001	GT NORTHERN RY CO	B N & SANTA FE RR CO	PROPERTY TAX DEPT	PO BOX 961089	FORT WORTH TX 76161	FORT WORTH	TX	76161		28	Yes	Yes	Yes
3211921219000									Same parcel boundary as 3211921420049, 3211921240020, 3211921210001	28	Yes	Yes	Yes
3211921240020	BURLINGTON NORTHERN INC	B N & SANTA FE RR CO	PROPERTY TAX DEPT	PO BOX 961089	FORT WORTH TX 76161	FORT WORTH	TX	76161		28	Yes	Yes	Yes
3211921420049	BURLINGTON NORTHERN INC	B N & SANTA FE RR CO	PROPERTY TAX DEPT	PO BOX 961089	FORT WORTH TX 76161	FORT WORTH	TX	76161		28	Yes	Yes	Yes
3211921430014	HENNEPIN FORFEITED LAND	CITY OF BROOKLYN PARK	ATTN ACCOUNTS PAYABLE	5200 85TH AVE N	BROOKLYN PARK MN 55443	BROOKLYN PARK	MN	55443		28	Yes	Yes	Yes
0702924440027	KATHLEEN A RUSHING	KATHLEEN A RUSHING	2747 FRANCE AVE N	ROBBINSDALE MN 55422		ROBBINSDALE	MN	55422		33	Yes		Yes
0911821210003	VILLAGE OF CRYSTAL	CITY OF CRYSTAL	4141 DOUGLAS DR N	CRYSTAL MN 55422		CRYSTAL	MN	55422		29	Yes		Yes
2002924130138	CITY OF MINNEAPOLIS PK BOARD	CITY OF MPLS PARK BOARD	2117 WEST RIVER RD	MINNEAPOLIS MN 55411		MINNEAPOLIS	MN	55411		48	Yes		Yes



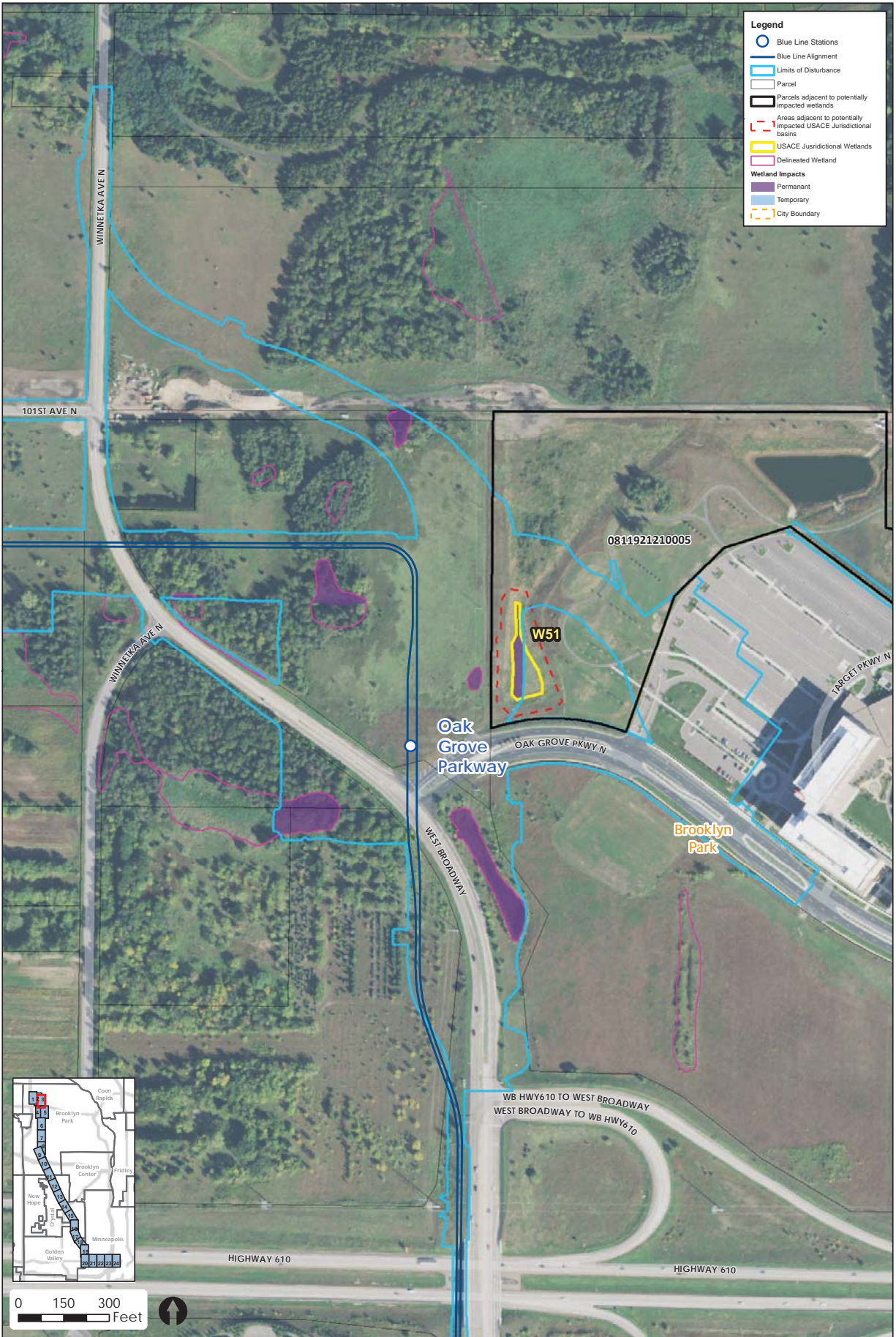
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Projection: Hennepin County NAD83
 Source: Hennepin County, Metro Transit, MnDOT, MnDNR, HDR Engineering Inc., SEH Inc., and USDA.

Figure 1 - Jurisdictional Wetlands
 METRO Blue Line Extension

DRAFT





- Legend**
- Blue Line Stations
 - Blue Line Alignment
 - Limits of Disturbance
 - Parcel
 - Parcels adjacent to potentially impacted wetlands
 - Areas adjacent to potentially impacted USACE Jurisdictional basins
 - USACE Jurisdictional Wetlands
 - Delineated Wetland
 - Wetland Impacts**
 - Permanent
 - Temporary
 - City Boundary

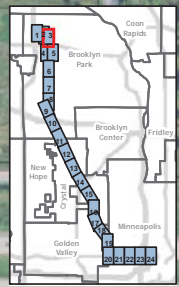
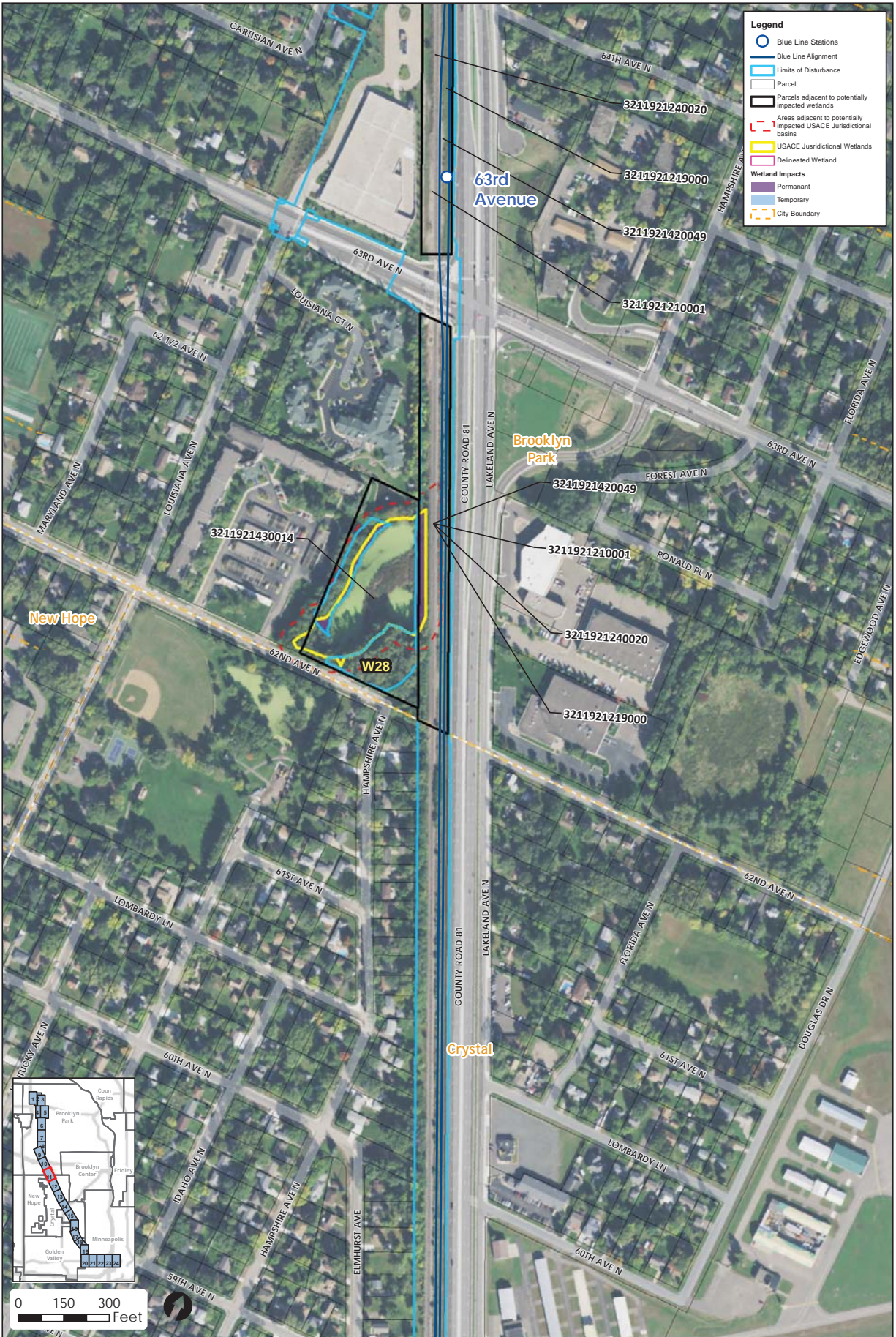


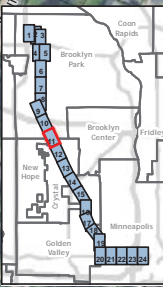
Figure 1 - Jurisdictional Wetlands
Page 1

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0 150 300 Feet



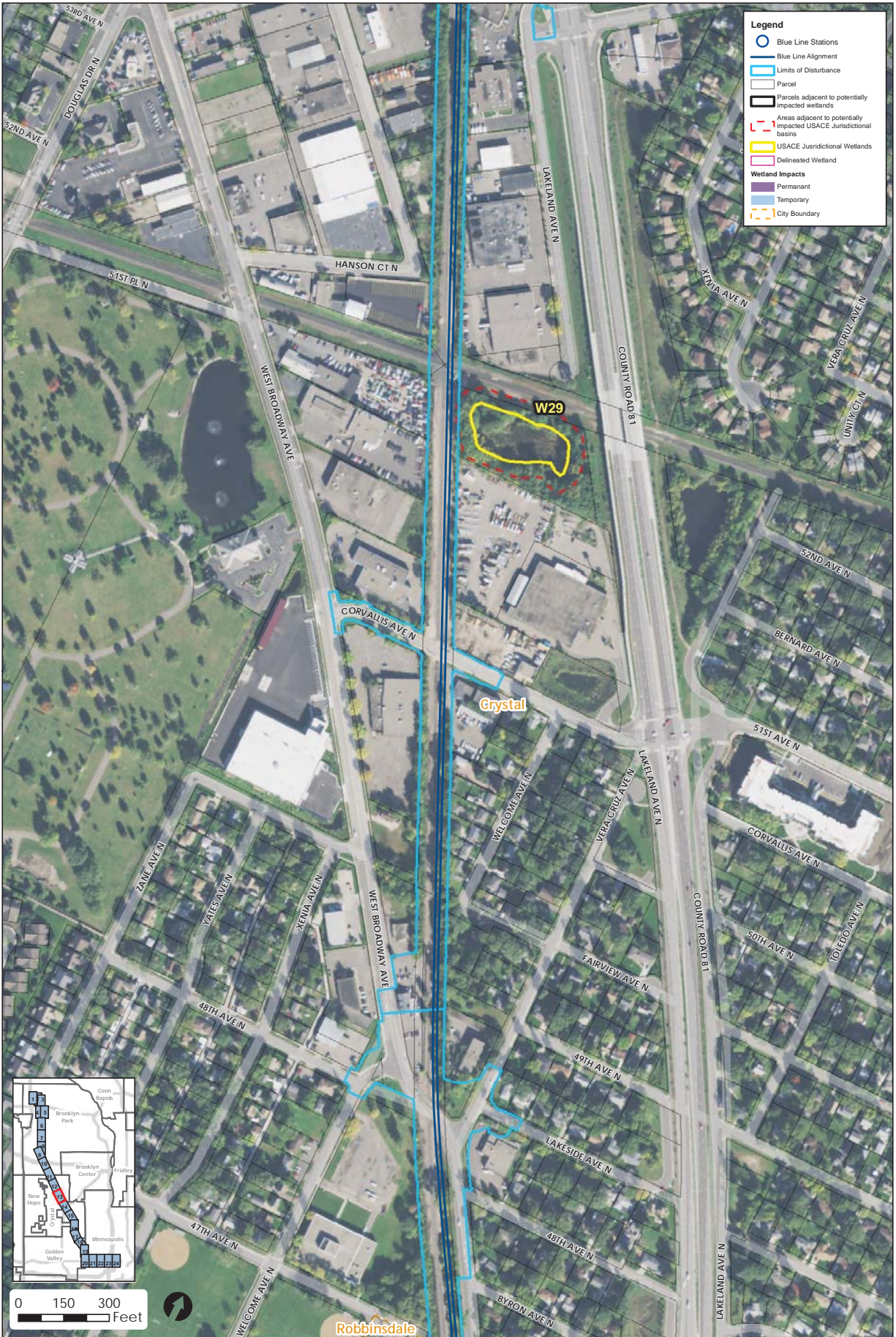
Projection: Hennepin County NAD83
 Source: Hennepin County, Metro Transit, MxDOT, MnDNR, HDR Engineering Inc., and SEH Inc.

Figure 1 - Jurisdictional Wetlands

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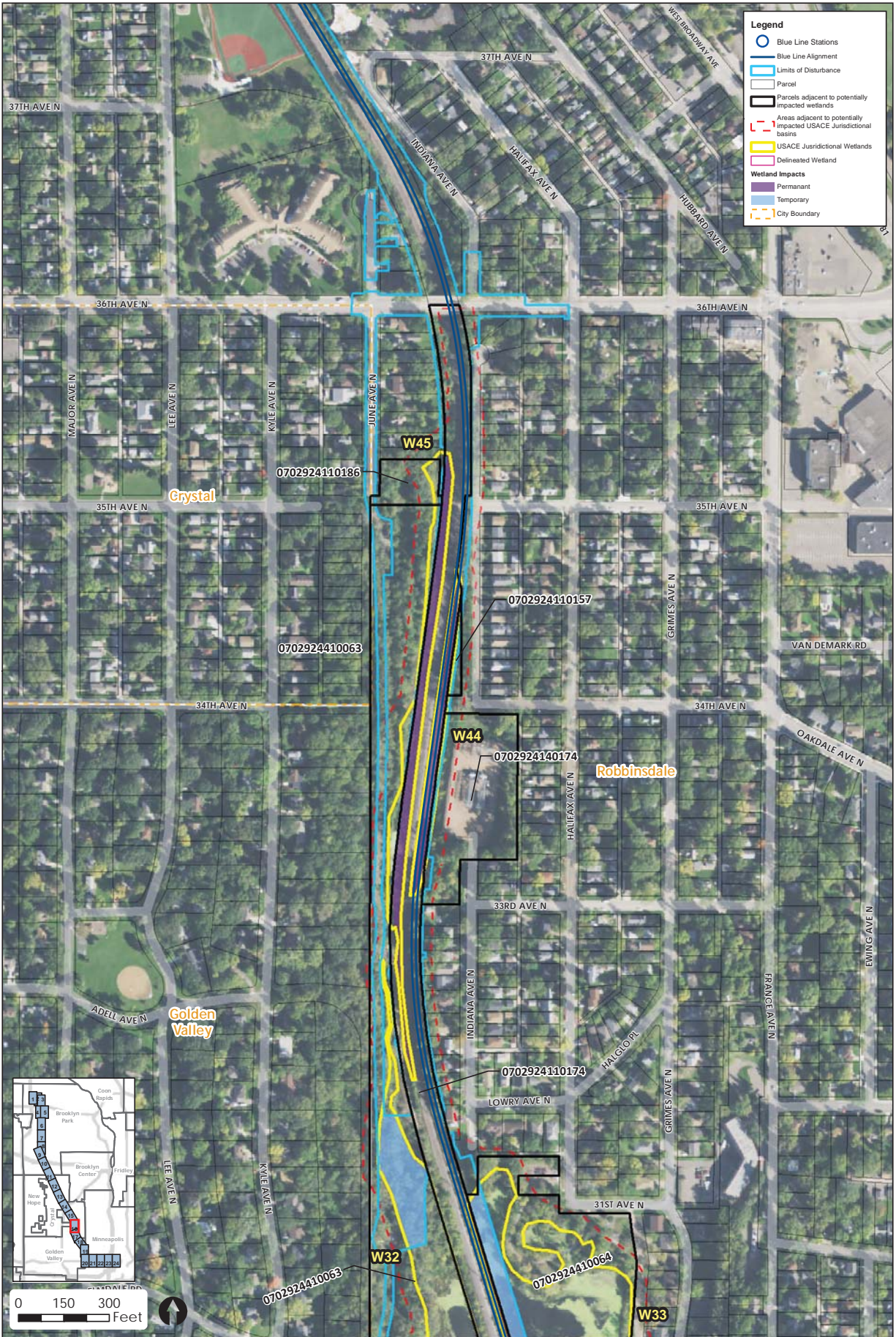


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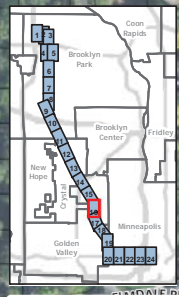


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Date: 7/12/2016



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0 150 300 Feet



Projection: Hennepin County NAD83
 Source: Hennepin County, Metro Transit, Mn/DOT, Mn/DNR, HDR Engineering Inc., and SEH Inc.

Figure 1 - Jurisdictional Wetlands
 Page 4

METRO Blue Line Extension

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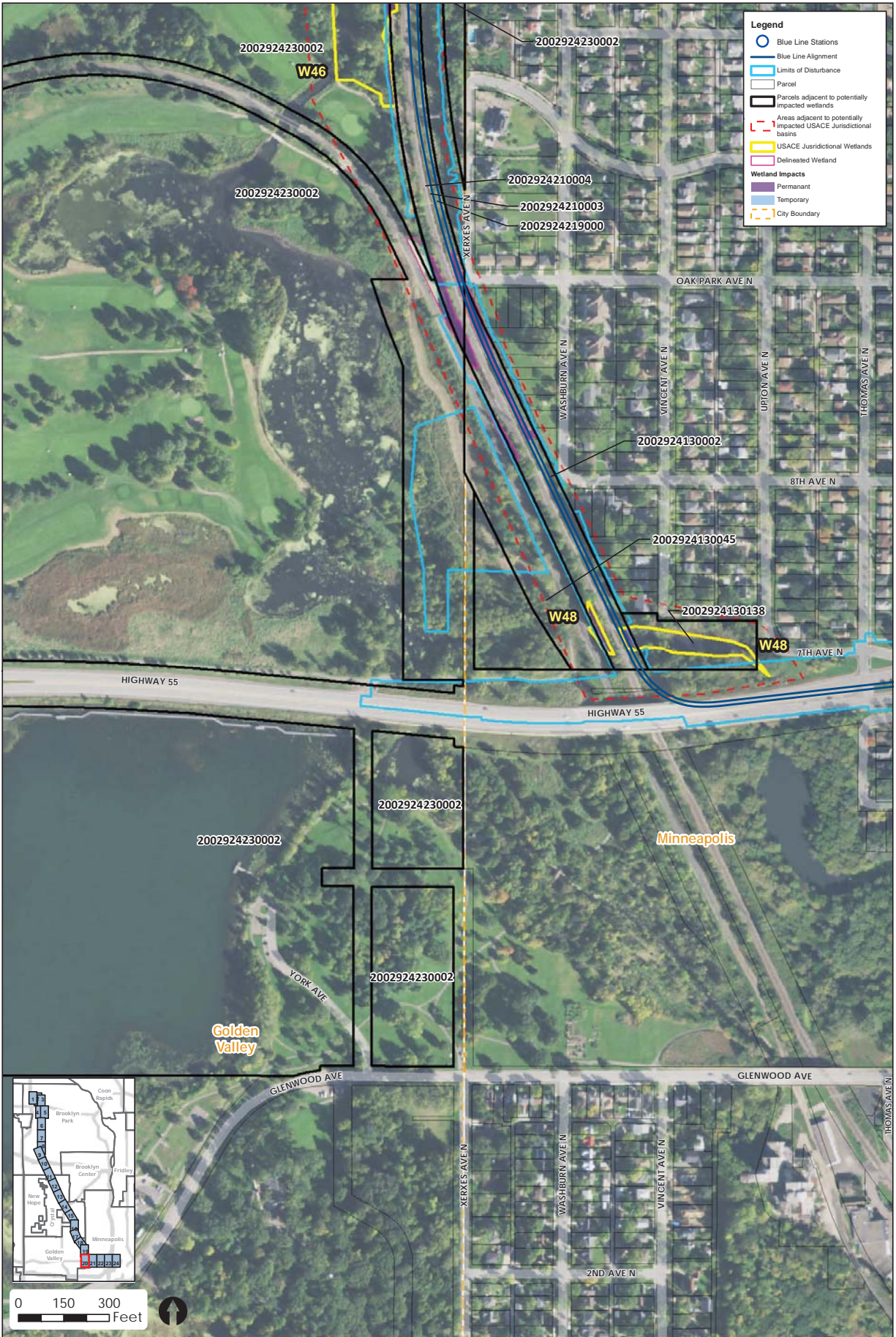
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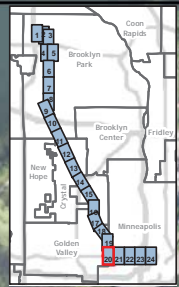
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Date: 7/12/2016



Legend

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MEMORANDUM

TO: Melissa Jenny
USACE Project Manager

FROM: Jeffrey Olson, Senior Scientist (SEH, Inc)

DATE: August 16, 2016

RE: Proposed BLRT Extension Project
WCA/ Corps Joint Permit Application (Supplement #2)
SEH No. HDRMN 131203

The purpose of this Memorandum is to provide the USACE supplemental information associated with the WCA/ Corps Joint Permit Application. Per correspondence with the USACE, Supplement #2 treats the "Pond east of Wetland 30" as non-jurisdictional (non-WOUS) per the USACE. Data in this Supplement #2 supersedes information in the original permit application and in Supplement #1. Subsequent Supplements, if required, will supersede data herein.

The total USACE-jurisdictional wetland impacts per Supplement #2 are now 5.8715 acres. Total USACE mitigation requirements (assuming a 2:1 mitigation ratio) are 11.743 acres.

The total impacts to wetlands that are only WCA jurisdictional (W4, W7, W8, W9, W12, W13, W52) are 1.0519 acres. Total WCA mitigation requirements (assuming a 2:1 mitigation ratio) are 2.1038 acres.

Appendix A contains updated tabular data concerning impacts to wetlands and other waterbodies within the proposed BLRT Extension project area.

Appendix A: Tabular Update to Impacts to Wetlands and Other Waterbodies

Basin ID	Updated NWI ¹	Hydric Soil Map?	Field-Verified Cowardin	Eggers & Reed	Circ. 39 Class. ²	Total Basin Size (ac)		USACE Jurisdiction			WCA Juris.	MnDNR Juris.	Impact Type					Mitigation Ratio (2:1 or 1:1)	WCA Mitigation Requirements (ac)	Corps Mitigation requirements (ac)	Municip. (WCA LGU)				
						natural basin	storm pond	Likely Juris. Waters and Streams	Non-WOUS (no mitigation required)	Potentially Isolated Basins (no mitigation required)			Fill impact (ac)	Cut impact (ac)	Temp. Impact (ac)	Total Impact (ac)	Total WCA Mitigatable Impacts (ac)					Total Corps Mitigatable Impacts (ac)			
W1	PEM1A	Yes	PEM1A	Seas. flooded basin	Type 1	1.59				yes	yes	no	0	0	0	0	0	0	0	2 to 1	0	0	0	Brooklyn Park (Shingle Creek WMC)	
W2	PEM1C	Yes	PEM1A	Seas. flooded basin	Type 1	1.37				yes	yes	yes	0	0	0	0	0	0	0	2 to 1	0	0	0	Brooklyn Park (Shingle Creek WMC)	
W3	PEM1A	Yes	PEM1A	Seas. flooded basin	Type 1	1.23				yes	yes	no	0	0	0	0	0	0	0	2 to 1	0	0	0	Brooklyn Park (Shingle Creek WMC)	
W4	Not mapped	Yes	PEM1A	Seas. flooded basin	Type 1	0.14				yes	yes	no	0.1357	0	0	0	0.1357	0.1357	0	2 to 1	0.2714	0	0	0	Brooklyn Park (Shingle Creek WMC)
W5	PFO1A	Yes	PFO1A	Floodplain forest	Type 1	0.07				yes	yes	no	0	0	0	0	0	0	0	2 to 1	0	0	0	Brooklyn Park (Shingle Creek WMC)	
W6	PFO1A	Yes	PFO1A	Floodplain forest	Type 1	0.14				yes	yes	no	0	0	0	0	0	0	0	2 to 1	0	0	0	Brooklyn Park (Shingle Creek WMC)	
W7	PEM1A	Yes	PEM1A	Seas. flooded basin	Type 1	0.55				yes	yes	no	0.2869	0	0	0	0.2869	0.2869	0	2 to 1	0.5738	0	0	0	Brooklyn Park (Shingle Creek WMC)
W8	PFO1A	Yes	PFO1A	Floodplain forest	Type 1	0.14				yes	yes	no	0.0254	0	0	0	0.0254	0.0254	0	2 to 1	0.0508	0	0	0	Brooklyn Park (Shingle Creek WMC)
W9	Not mapped	Yes	PEM1A	Seas. flooded basin	Type 1	0.18				yes	yes	no	0.0012	0	0	0	0.0012	0.0012	0	2 to 1	0.0024	0	0	0	Brooklyn Park (Shingle Creek WMC)
W10	Not mapped	Yes	PEM1A	Seas. flooded basin	Type 1		0.06		yes		yes	no	0	0	0	0	0	0	0	2 to 1	0	0	0	Brooklyn Park (Shingle Creek WMC)	
W11	PEM1A	Partially	PEM1A	Seas. flooded basin	Type 1	1.06				yes	yes	no	0	0	0	0	0	0	0	2 to 1	0	0	0	Brooklyn Park (Shingle Creek WMC)	
W12	Not mapped	Yes	PEM1A	Seas. flooded basin	Type 1	0.06				yes	yes	no	0.0233	0.0332	0	0.0565	0.0233	0	2 to 1	0.0466	0	0	0	Brooklyn Park (Shingle Creek WMC)	
W13	PEM1A	Partially	PEM1A	Seas. flooded basin	Type 1	2.41				yes	yes	no	0.5333	0	0	0.5333	0.5333	0	2 to 1	1.0666	0	0	0	Brooklyn Park (Shingle Creek WMC)	
W14	PEM1A	Yes	PUBGx	Deep Marsh	Type 4		0.61		yes		no	no	0.6058	0	0	0.6058	0	0	2 to 1	0	0	0	0	Brooklyn Park (Shingle Creek WMC)	
W15	Not mapped	Yes	PSS1A	Shrub Carr	Type 6		0.79		yes		no	no	0	0	0	0	0	0	2 to 1	0	0	0	0	Brooklyn Park (Shingle Creek WMC)	
W16	PUBGx/PEM1C	No	PUBGx	Deep Marsh	Type 4		0.82		yes		no	no	0.8194	0	0	0.8194	0	0	2 to 1	0	0	0	0	Brooklyn Park (Shingle Creek WMC)	
W17	Not mapped	No	PSS1A	Shrub Carr	Type 6		0.05		yes		no	no	0	0	0	0	0	0	2 to 1	0	0	0	0	Brooklyn Park (Shingle Creek WMC)	
W26	Not mapped	No	PEM1A	Seas. flooded basin	Type 1		0.01		yes		no	no	0.01	0	0	0.01	0	0	2 to 1	0	0	0	0	Brooklyn Park (Shingle Creek WMC)	
W27	PEM1C	No	PEM1A	Seas. flooded basin	Type 1		0.62		yes		no	no	0	0	0	0	0	0	2 to 1	0	0	0	0	Brooklyn Park (Shingle Creek WMC)	
W28	PABGx/PEM1C	Yes	PFO1A	Floodplain forest	Type 1	2.57		yes			yes	yes	0.2821	0.1482	0	0.4303	0	0.4303	2 to 1	0	0	0.8606	0	0	Brooklyn Park (Shingle Creek WMC)
W29	PEM1C	Yes	PEM1C	Shallow Marsh	Type 3		1.02	yes			yes	no	0	0	0	0	0	0	2 to 1	0	0	0	0	Crystal (Crystal)	

Basin ID	Updated NWI ¹	Hydric Soil Map?	Field-Verified Cowardin	Eggers & Reed	Circ. 39 Class. ²	Total Basin Size (ac)		USACE Jurisdiction		WCA Juris.	MnDNR Juris.	Impact Type					Mitigation Ratio (2:1 or 1:1)	WCA Mitigation Requirements (ac)	Corps Mitigation requirements (ac)	Municip. (WCA LGU)		
W30	PUBG/ PEM1A	No	PUBGx	Open Water	Type 5		1.2		yes		no	no	0	0	0	0	0	0	2 to 1	0	0	Robbinsdale (Shingle Creek WMC)
W31	PSS1A	No	PSS1A	Shrub Carr	Type 6	0			yes		yes	yes	0	0	0	0	0	0	2 to 1	0	0	Robbinsdale (Bassett Creek WMC)
W32	PFO1A	No	PFO1A/ PEMC/ PSS1C	Floodplain forest/ Shallow Marsh/ Shrub Carr	Type 1/ Type 3/ Type 6	7.71			yes		yes	yes	0	0	1.2544	1.2544	0	0	2 to 1	0	0	Robbinsdale (Bassett Creek WMC)
W33	PABG	No	PUBGx	Open Water	Type 5	7.41			yes		yes	yes	0.3464	0.0731	1.2725	1.692	0.4195	0.4195	2 to 1	0.839	0.839	Robbinsdale (Bassett Creek WMC)
W34	PEM1F/ PABG	Yes	PEM1F	Deep Marsh	Type 4	17.01			yes		yes	yes	0	0	0	0	0	0	2 to 1	0	0	Golden Valley (Golden Valley) and Robbinsdale (Bassett Creek WMC)
W35	PEM1F	No	PFO1A	Floodplain forest	Type 1	0.85			yes		yes	no	0.3639	0.0394	0	0.4033	0.4033	0.4033	2 to 1	0.8066	0.8066	Robbinsdale (Bassett Creek WMC)
W36	PSS1A	No	PSS1A	Shrub Carr	Type 6	1.39			yes		yes	no	0.2124	0	0	0.2124	0.2124	0.2124	2 to 1	0.4248	0.4248	Robbinsdale (Bassett Creek WMC)
W37	Not mapped	No	PEM1A	Seas. flooded basin	Type 1		0.08		yes		no	no	0.0755	0	0	0.0755	0	0	2 to 1	0	0	Golden Valley (Golden Valley)
W38	PFO1A/ PABG	No	PUBGx/ PEMA	Open Water/ wet (fresh) meadow	Type 5/ Type 2	3.08			yes		yes	no	0	0	0	0	0	0	2 to 1	0	0	Golden Valley (Golden Valley)
W39	PFO1A	No	PUBGx	Open Water	Type 5	2			yes		yes	no	0.398	0.0025	0.6505	1.051	0.4005	0.4005	2 to 1	0.801	0.801	Golden Valley (Golden Valley)
W40	PFO1A	No	PEM1A	Seas. flooded basin	Type 1	0.31			yes		yes	no	0.3006	0.0121	0	0.3127	0.3127	0.3127	2 to 1	0.6254	0.6254	Golden Valley (Golden Valley)
W41	Not mapped	No	PEM1A	Seas. flooded basin	Type 1		0.19		yes		no	no	0.1917	0	0	0.1917	0	0	2 to 1	0	0	Golden Valley (Golden Valley)
W42	Not mapped	No	PSS1A	Shrub Carr	Type 6		0.29		yes		no	no	0.2886	0	0	0.2886	0	0	2 to 1	0	0	Golden Valley (Golden Valley) and Minneapolis
W44	PABG	No	PUBGx	Open Water	Type 5	0.87			yes		yes	no	0.8722	0	0	0.8722	0.8722	0.8722	2 to 1	1.7444	1.7444	Robbinsdale (Bassett Creek WMC)
W45	Not mapped	No	PFO1A	Floodplain forest	Type 1	2.05			yes		yes	no	1.1982	0.1483	0	1.3465	1.1982	1.3465	2 to 1	2.3964	2.693	Robbinsdale (Bassett Creek WMC)
W46	riverine	Yes	riverine	riverine	riverine	0			yes		no	yes	0	0	0	0	0	0	2 to 1	0	0	
W46	PFO1A	No	PFO1A	Floodplain forest	Type 1	11.14			yes		yes	no	0.9799	0.0633	0.0008	1.044	0.9799	1.0432	2 to 1	1.9598	2.0864	Golden Valley (Golden Valley)
W47	PEM1C	No	PFO1A	Floodplain forest	Type 1	0			yes		yes	yes	0	0	0	0	0	0	2 to 1	0	0	Golden Valley (Golden Valley)
W48	R2UBG	No	R2UBGx	Riverine	Type 4	0.5			yes		yes	no	0.1038	0	0.0502	0.154	0.1038	0.1038	2 to 1	0.2076	0.2076	Minneapolis (Minneapolis)
W49	PFO1A	No	PFO1A	Floodplain forest	Type 1		0.08		yes		no	no	0.1018	0	0	0.1018	0	0	2 to 1	0	0	Golden Valley (Golden Valley) /Minneapolis (Minneapolis)
W50	PFO1A	No	PEM1A	Seas. flooded basin	Type 1	0.12			yes		yes	no	0.1176	0	0	0.1176	0.1176	0.1176	2 to 1	0.2352	0.2352	Golden Valley (Golden Valley)

Basin ID	Updated NWI ¹	Hydric Soil Map?	Field-Verified Cowardin	Eggers & Reed	Circ. 39 Class. ²	Total Basin Size (ac)		USACE Jurisdiction			WCA Juris.	MnDNR Juris.	Impact Type					Mitigation Ratio (2:1 or 1:1)	WCA Mitigation Requirements (ac)	Corps Mitigation requirements (ac)	Municip. (WCA LGU)	
W51	PEMA	Yes	PEMA	Seas. flooded basin	Type 1	4.59		yes			yes	no	0.2095	0	0	0.2095	0.2095	0.2095	2 to 1	0.419	0.419	Brooklyn Park (Shingle Creek WMC)
W52	not mapped	Yes	PEMA	Seas. flooded basin	Type 1	0.01			yes		yes	no	0	0.0461	0	0.0461	0.0461		2 to 1	0.0922	0	Brooklyn Park (Shingle Creek WMC)
pond east of W30	PUBG	No	PUBG	Open Water	Type 4		0.91		yes		no	no	0	0.91	0	0.91	0		2 to 1	0	0	Robbinsdale (Shingle Creek WMC)
Total						70.55	6.73						8.4832	1.4762	3.2284	13.1878			2 to 1	12.563	11.743	

1: NWI data used in this report was updated in 2013.

2: Note: Wetland Types per Circular 39 indicate the majority of wetland types within a delineated basin. Several other minor wetland types may also be present within the basin.