

County	Feature ID	Survey Date	Flow Rate (m/s)	Left Bank Height (ft)	Right Bank Height (ft)	Top of Bank Width (ft)	OHWL Height (ft)	OHWL Width (ft)	Substrate	Dominant Riparian Vegetation	Waterbody Name	Flow Regime	Agency Designation
Aitkin	AI001aWB	9/21/2013	0.0	3.0	3.0	5.0	4.0	20.0	Silt	Fraxinus nigra, Populus tremuloides, Tilia americana	Unnamed Stream	Perennial	None
Aitkin	AI007aWB	8/19/2013	0.0	0.5	0.5	5.0	1.0	4.0	Gravel	Fraxinus pennsylvanica, Acer rubrum, Glyceria striata	Unnamed Stream	Intermittent	None
Aitkin	AI020aWB	8/20/2013	0.0	0.5	0.5	30.0	0.0	250.0	Silt	Carex stricta, Scirpus cyprinus	Unnamed Stream	Perennial	Public Water
Aitkin	AI025aWB	9/14/2013	0.0	0.0	0.0	0.0	0.0	0.0	Muck	Salix petiolaris, Alnus incana, Calamagrostis canadensis, Phalaris arundinacea	Unnamed Stream	Perennial	None
Aitkin	AI027aWB	9/13/2013	0.5	3.0	3.0	5.0	1.5	5.0	Sand	Calamagrostis canadensis, Carex stricta, Phalaris arundinacea	Unnamed Stream	Perennial	None
Aitkin	AI027bWB	9/14/2013	0.1	3.0	3.0	15.0	2.5	15.0	Gravel	Acer saccharum	Unnamed Stream	Perennial	None
Aitkin	AI038aWB	9/14/2013	0.0	3.0	3.0	20.0	1.0	10.0	Silt	Phalaris arundinacea	White Elk Creek	Perennial	Public Water
Aitkin	AI040_500aWB	9/17/2013	0.0	2.5	2.5	4.0	1.0	2.0	Silt	Polygonum hydropiper, Eleocharis palustris	Unnamed Ditch	Ephemeral	None
Aitkin	AI040_500bWB	9/17/2013	0.0	2.0	2.0	15.0	1.0	10.0	Silt	Calamagrostis canadensis, Carex lacustris	Unnamed Ditch	Perennial	None
Aitkin	AI040a1WB	7/11/2014	0.1	0.5	0.5	2.0	0.3	1.5	Muck	Phalaris arundinacea, Carex lacustris, Poa palustris	Unnamed Ditch	Intermittent	None
Aitkin	AI040aWB	9/17/2013	0.0	1.5	1.5	3.0	0.5	2.0	Silt	Calamagrostis canadensis, Phalaris arundinacea	Unnamed Ditch	Ephemeral	None
Aitkin	AI040bWB	9/17/2013	0.0	1.0	1.0	10.0	0.5	3.0	Silt	Calamagrostis canadensis, Phalaris arundinacea, Carex lacustris	Unnamed Ditch	Ephemeral	None
Aitkin	AI040cWB	9/17/2013	0.0	1.0	1.0	3.0	0.5	2.0	Silt	Calamagrostis canadensis, Carex lacustris	Unnamed Ditch	Ephemeral	None
Aitkin	AI083_200aWB	8/27/2013	0.0	1.0	1.0	20.0	2.0	25.0	Silt	Typha latifolia, Carex lacustris	White Elk Creek	Perennial	Public Water
Aitkin	AI087_504aWB	6/27/2014	0.1	0.5	0.8	12.0	0.3	10.0	Sand	Fraxinus nigra, Quercus alba, Carex lacustris	Unnamed Ditch	Intermittent	None
Aitkin	AI087_504bWB	6/27/2014	0.1	0.5	0.5	4.5	0.3	4.0	Sand	Fraxinus nigra, Carex lacustris, Rhamus cathartica	Unnamed Stream	Perennial	None
Aitkin	AI087_504cWB	6/27/2014	0.1	1.0	1.0	9.5	0.7	8.0	Sand	Quercus alba, Fraxinus nigra, Acer rubrum	Unnamed Ditch	Intermittent	None
Aitkin	AI087_504d1WB	6/27/2014	1.0	8.0	8.0	100.0	5.0	80.0	Sand	Fraxinus nigra, Calamagrostis canadensis, Thalictrum dasycarpum	Willow River	Perennial	Public Water
Aitkin	AI087_504eWB	6/27/2014	0.1	0.5	0.8	12.0	0.3	10.0	Sand	Fraxinus nigra, Quercus alba, Carex lacustris	Unnamed Stream	Intermittent	None
Aitkin	AI096_230a1WB	5/29/2014	0.1	0.8	1.0	6.0	0.5	4.0	Muck	Phalaris arundinacea, Osmundastrum cinnomeum, Salix petiolaris	Unnamed Stream	Intermittent	None
Aitkin	AI097aWB	9/6/2013	1.0	3.0	5.0	70.0	3.0	60.0	Sand	Carex lacustris, Equisitum sp., Frax. nigra	Willow River	Perennial	Public Water

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Aitkin	AI097b1WB	5/23/2014	1.0	3.5	3.5	4.0	3.5	2.0	Gravel	Carex lacustris, Equisetum arvense, Acer saccharinum	Unnamed Ditch	Intermittent	None
Aitkin	AI104a1WB	7/11/2014	0.1	1.0	1.0	20.0	1.0	10.0	Muck	Phalaris arundinacea, Alnus incana, Salix petiolaris	Unnamed Ditch	Intermittent	None
Aitkin	AI105_310aWB	9/27/2013	0.0	2.0	2.0	3.0	0.2	1.0	Silt	Phalaris arundinacea, Phelum pratense, Poa palustris	Unnamed Ditch	Ephemeral	None
Aitkin	AI106aWB	9/5/2013	0.0	0.5	0.5	4.0	0.5	2.0	Silt	Phalaris arundinacea, Salix petiolaris	Unnamed Ditch	Ephemeral	None
Aitkin	AI108aWB	9/4/2013	0.0	0.5	0.5	6.0	1.0	3.0	Silt	Phalaris arundinacea	Unnamed Stream	Ephemeral	None
Aitkin	AI109aWB	9/4/2013	0.0	1.0	1.0	10.0	0.5	3.0	Clay	Phalaris arundinacea, Rhamnus cathartica	Unnamed Ditch	Ephemeral	None
Aitkin	AI112_200aWB	8/29/2013	1.0	10.0	12.0	350.0	12.0	400.0	Silt	Carex lacustris, Phalaris arundinacea	Mississippi River	Perennial	303d Impaired, Canoe Route, ORVW, Public Water, Section 10
Aitkin	AI112_200bWB	8/29/2013	0.0	1.0	1.0	3.0	2.0	4.0	Sand	Rhamnus cathartica	Tributary of Mississippi River	Perennial	None
Aitkin	AI116_200aWB	9/12/2013	0.0	10.0	6.0	25.0	4.0	15.0	Silt	Salix gracilis, Phalaroides arundinacea	Unnamed Ditch	Perennial	None
Aitkin	AI116_200bWB	9/12/2013	0.0	2.0	2.0	10.0	0.8	5.0	Silt	Carex lacustris, Acer negundo, Phalaris arundinacea, Calamagrostis canadensis,	Unnamed Ditch	Intermittent	None
Aitkin	AI116_200cWB	9/12/2013	0.0	4.0	6.0	30.0	0.5	12.0	Silt	Populus balsamifera, Saalex petioalis, Phalaris arundinacea, Carex lacustris	Unnamed Ditch	Intermittent	None
Aitkin	AI118aWB	9/26/2013	0.0	8.0	10.0	30.0	4.0	15.0	Silt	Populus balsamifera, Salix bebbiana, Phalaris arundinacea, Typha latifolia	Unnamed Ditch	Ephemeral	None
Aitkin	AI118bWB	9/26/2013	0.0	12.0	12.0	40.0	3.0	35.0	Silt	Phalaris arundinacea	Unnamed Ditch	Intermittent	None
Aitkin	AI118cWB	9/26/2013	0.0	12.0	12.0	60.0	4.0	45.0	Silt	Phragmites australis, Salix petiolaris, Phalaris arundinacea	Unnamed Ditch	Intermittent	None
Aitkin	AI120_200aWB	9/25/2013	0.0	10.0	6.0	18.0	3.0	12.0	Silt	Poa palustris, Solidago gigantea, Cirsium discolor, Verbena hastata	Unnamed Ditch	Ephemeral	None
Aitkin	AI120aWB	9/25/2013	0.0	4.0	6.0	10.0	1.0	6.0	Silt	Salix bebbii, Calamagrostis canadensis, Phalaris arundinacea	Unnamed Ditch	Ephemeral	None
Aitkin	AI121_200_510aWB	9/26/2013	0.0	5.0	5.0	15.0	0.5	5.0	Silt	Salix petiolaris, Cicuta maculata, Poa palustris, Scirpus cypernus	Unnamed Ditch	Ephemeral	None
Aitkin	AI121_200_515aWB	9/26/2013	0.0	5.0	5.0	20.0	1.0	10.0	Silt	Alnus incana, Phalaris arundinacea, Populus tremuloides, Typha latifolia	Unnamed Ditch	Intermittent	None

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Aitkin	AI121_200_515bWB	9/26/2013	0.0	3.0	3.0	6.0	0.5	4.0	Silt	Phalaris arundinacea, Cicuta maculata, Rumex crispus, Carex lacustris	Unnamed Ditch	Intermittent	None
Aitkin	AI121_200_515cWB	9/26/2013	0.0	5.0	5.0	10.0	2.0	5.0	Silt	Typha latifolia, Phalaris arundinacea, Justicia americana	Unnamed Ditch	Ephemeral	None
Aitkin	AI121_200_520aWB	9/26/2013	0.0	4.0	4.0	15.0	0.5	3.0	Silt	Populus tremuloides, Alnus incana, Fraxinus pennsylvanica, Calamagrostis canadensis	Unnamed Ditch	Ephemeral	None
Aitkin	AI121_200_525aWB	9/26/2013	0.0	4.0	4.0	5.0	0.2	2.0	Silt	Fraxinus nigra, Populus tremuloides	Unnamed Ditch	Ephemeral	None
Aitkin	AI121_200_530aWB	9/26/2013	0.0	4.0	4.0	20.0	0.5	10.0	Silt	Populus tremuloides, Alnus incana, Fraxinus pennsylvanica, Calamagrostis canadensis	Unnamed Ditch	Ephemeral	None
Aitkin	AI121_200aWB	9/25/2013	0.0	10.0	15.0	20.0	1.0	6.0	Silt	Typha angustifolia	Unnamed Ditch	Ephemeral	None
Aitkin	AI121_200bWB	9/25/2013	0.0	6.0	6.0	30.0	2.0	15.0	Silt	Phalaris arundinacea	Unnamed Ditch	Ephemeral	None
Aitkin	AI123_240a1WB	5/22/2014	0.1	1.5	1.5	9.0	0.8	5.0	Sand	Carex petiolaris, Phalaris arundinacea	Unnamed Ditch	Intermittent	None
Aitkin	AI125_200aWB	9/12/2013	0.0	2.0	2.0	12.0	1.0	6.0	Silt	Phalaris arundinacea, Salix discolor	Unnamed Ditch	Ephemeral	None
Aitkin	AI125aWB	9/26/2013	0.0	2.0	2.0	12.0	1.0	6.0	Silt	Populus tremuloides, Betula papyrifera, Alnus incana, Cornus alba, Calamagrostis canadensis	Unnamed Ditch	Ephemeral	None
Aitkin	AI126_200aWB	9/27/2013	0.0	4.0	4.0	15.0	0.5	4.0	Silt	Salix petiolaris, Phalaris arundinacea, Typha angustifolia	Unnamed Ditch	Intermittent	None
Aitkin	AI129a1WB	5/23/2014	0.5	2.0	2.0	12.0	1.0	8.0	Muck	Phalaris arundinacea, Alnus incana, Populus tremuloides	Unnamed Ditch	Intermittent	None
Aitkin	AI130aWB	6/6/2017	2.0	12.0	15.0	80.0	10.0	60.0	Clay	Zizania aquatica	Sandy River	Perennial	Public Water, Section 10
Aitkin	AI136aWB	8/24/2013	0.0	3.0	3.0	6.0	2.0	10.0	Silt	Phalaris arundinacea, Iris virginica	Unnamed Ditch	Perennial	None
Aitkin	AI136bWB	8/24/2013	0.0	3.0	3.0	6.0	2.0	10.0	Silt	Phalaris arundinacea, Iris virginica	Unnamed Ditch	Perennial	None
Aitkin	AI138_340aWB	8/23/2013	0.0	10.0	10.0	30.0	3.0	15.0	Silt	Alnus incana, Fraxinus nigra	Unnamed Ditch	Perennial	None
Aitkin	AI138_340bWB	8/23/2013	0.0	2.0	2.0	8.0	1.0	5.0	Silt	Alnus incana, Fraxinus nigra, Betula papyrifera	Unnamed Stream	Intermittent	None
Aitkin	AI138_340cWB	6/3/2017	0.1	3.0	3.0	5.0	2.0	3.5	Clay	Phalaris arundinacea, Spiraea alba, Salix petiolaris	Unnamed Stream	Perennial	None
Aitkin	AI138_340dWB	6/3/2017	0.1	3.0	3.0	3.0	2.5	2.5	Clay	Alnus incana, Phalaris arundinacea, Populus tremuloides	Unnamed Stream	Perennial	None

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Aitkin	AI138aWB	8/23/2013	0.0	1.0	1.0	20.0	0.5	15.0	Silt	<i>Alnus incana</i> , <i>Fraxinus nigra</i> , <i>Populus tremuloides</i>	Unnamed Stream	Intermittent	None
Aitkin	AI171_210aWB	9/11/2013	0.0	1.5	1.5	15.0	0.5	10.0	Silt	<i>Phalaris arundinacea</i> , <i>Rhamnus cathartica</i>	State Ditch 66	Ephemeral	None
Aitkin	AI171_210bWB	9/12/2013	0.0	1.5	1.5	15.0	0.5	10.0	Silt	<i>Phalaris arundinacea</i> , <i>Rhamnus cathartica</i>	Unnamed Ditch	Intermittent	None
Aitkin	AI185_220aWB	9/11/2013	0.0	10.0	10.0	25.0	3.0	15.0	Silt	<i>Equisetum fluvialis</i> , <i>Typha latifolia</i> , <i>Phalaroides arundinacea</i>	Unnamed Ditch	Intermittent	None
Aitkin	AI2C5147aWB	9/18/2013	0.0	2.5	2.5	7.0	0.5	3.0	Sand	<i>Carex lacustris</i> , <i>Equisetum sylvaticum</i> , <i>Calamagrostis canadensis</i>	Unnamed Ditch	Intermittent	None
Aitkin	AI2C5148_200aWB	6/26/2015	0.0	10.0	9.0	55.0	6.0	45.0	Silt	<i>Phalaris arundinacea</i>	Unnamed Ditch	Intermittent	None
Aitkin	AI2C5148_200bWB	6/26/2015	0.0	6.0	5.0	23.0	3.0	14.0	Clay	<i>Phalaris arundinacea</i>	Unnamed Ditch	Intermittent	None
Aitkin	AI2C5148_200cWB	6/26/2015	0.0	10.0	14.0	40.0	6.0	30.0	Clay	<i>Phalaris arundinacea</i> , <i>Salix</i> spp., <i>Fraxinus pennsylvanica</i>	Unnamed Ditch	Intermittent	None
Aitkin	AI2C5148_200dWB	6/26/2015	0.0	4.0	7.0	20.0	2.0	9.0	Clay	<i>Salix</i> spp., <i>Carex lacustris</i> , <i>Equisetum fluviatile</i>	Unnamed Ditch	Intermittent	None
Aitkin	AI2C5148aWB	7/11/2013	0.5	10.0	10.0	40.0	1.0	20.0	Silt	<i>Fraxinus nigra</i>	Unnamed Stream	Perennial	None
Aitkin	AI2C5148bWB	7/11/2013	0.0	5.0	5.0	20.0	1.0	12.0	Silt	<i>Phalaris arundinacea</i> and <i>Populus balsamifera</i>	Unnamed Ditch	Intermittent	None
Aitkin	AI2C5148cWB	7/11/2013	0.0	5.0	5.0	20.0	3.0	15.0	Silt	<i>Phalaris arundinacea</i>	Unnamed Ditch	Intermittent	None
Aitkin	AI2C5150_200aWB	7/11/2013	0.0	2.0	2.0	10.0	1.0	6.0	Silt	<i>Phalaris arundinacea</i>	Unnamed Ditch	Intermittent	None
Aitkin	AI2C5150_200bWB	7/11/2013	0.0	3.0	3.0	15.0	1.0	6.0	Silt	<i>Phalaris arundinacea</i> and <i>Agrostis gigantea</i>	Unnamed Ditch	Intermittent	None
Aitkin	AI2C5152_200aWB	9/17/2013	0.0	5.0	5.0	18.0	1.5	14.0	Silt	<i>Phalaris arundinacea</i> , <i>Alnus incana</i> , <i>Quercus macrocarpa</i> , <i>Bidens cernua</i> , <i>Onoclea sensibilis</i>	Unnamed Ditch	Intermittent	None
Aitkin	AI2C5155aWB	7/13/2013	0.5	3.0	3.0	30.0	1.0	10.0	Silt	<i>Phalaris arundinacea</i> and <i>Poa palustris</i>	Unnamed Ditch	Intermittent	None
Aitkin	AI2C5156aWB	7/13/2013	1.0	5.0	5.0	30.0	3.0	15.0	Silt	<i>Phalaris arundinacea</i> , <i>Elymus repens</i>	Unnamed Ditch	Intermittent	None
Aitkin	AI2C5157aWB	7/13/2013	1.0	6.0	5.0	40.0	4.0	30.0	Sand	<i>Phalaris arundinacea</i>	Sandy River	Perennial	Public Water
Aitkin	AI2C5159_300aWB	7/13/2013	0.0	4.0	3.5	10.0	2.5	9.0	Silt	<i>Phalaris arundinacea</i> , <i>Carex lacustris</i>	Unnamed Ditch	Intermittent	None
Aitkin	AI2C5298_240aWB	6/30/2015	0.1	4.0	4.0	12.0	3.0	9.0	Very fine sand	<i>Phalaris arundinacea</i> , <i>Salix petiolaris</i> , <i>Typha X glauca</i>	Unnamed Stream	Perennial	None
Aitkin	AIC5290aWB	10/3/2013	0.0	0.8	0.8	3.0	0.3	1.5	Sand	<i>Quercus rubra</i> , <i>Acer rubrum</i>	Unnamed Stream	Perennial	None
Aitkin	AIC5301aWB	7/10/2013	0.0	0.0	0.0	6.0	4.0	6.0	Silt	<i>Carex lacustris</i> and <i>Typha x glauca</i>	Sandy River Tributary	Perennial	None

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Aitkin	AIC5302aWB	7/21/2015	0.1	4.0	4.0	12.0	3.5	12.0	Silt	Carex lacustris, Typha x glauca, Calamagrostis canadensis	Sandy River Tributary	Perennial	None
Aitkin	AIC5304aWB	7/8/2013	0.0	3.0	3.0	6.0	2.0	4.0	Clay	Phalaris arundinacea and Poa palustris	Unnamed Ditch	Intermittent	None
Aitkin	AIC5306aWB	7/9/2013	0.0	1.0	1.0	5.0	1.0	3.0	Clay	Poa palustris and Phalaris arundinacea	Unnamed Ditch	Intermittent	None
Aitkin	AIC5309aWB	7/10/2013	0.0	2.0	2.0	5.0	0.0	0.0	Clay	Phalaris arundinacea	Unnamed Ditch	Intermittent	None
Aitkin	AIC5311_300aWB	10/9/2015	0.1	0.7	0.7	5.0	0.5	3.0	Silt	Phalaris arundinacea, Calamagrostis canadensis, Agrostis gigantea	Unnamed Ditch	Intermittent	None
Aitkin	AIC5311_300bWB	10/9/2015	0.1	5.0	5.0	25.0	4.0	15.0	Silt	Phalaris arundinacea, Calamagrostis canadensis, Scirpus cyperinus	Unnamed Ditch	Intermittent	None
Aitkin	AIC5311aWB	7/9/2013	0.1	3.0	3.0	6.0	2.5	4.5	Clay	Phalaris arundinacea	Unnamed Ditch	Intermittent	None
Aitkin	AIC5311bWB	7/1/2015	0.0	1.0	1.0	2.0	1.0	1.0	Very fine sand	Phalaris arundinacea	Unnamed Ditch	Ephemeral	None
Aitkin	s-47n22w14-aa	8/30/2016	0.0	1.5	1.5	3.0	1.0	2.0	Clay	Pteridium aquilinum, Alnus incana, Eurybia macrophylla	Unnamed Stream	Ephemeral	None
Aitkin	s-47n22w23-aa	8/30/2016	0.5	1.0	1.0	2.0	0.5	1.0	Clay	Pteridium aquilinum, Alnus incana, Betula papyrifera	Unnamed Stream	Intermittent	None
Aitkin	s-47n22w24-aa	8/30/2016	1.0	1.0	1.0	4.0	0.5	2.0	Clay	Alnus incana, Calamagrostis canadensis, Osmundastrum cinnamomeum	Unnamed Stream	Intermittent	None
Aitkin	s-47n22w24-ab	8/30/2016	2.0	1.0	1.0	4.0	0.5	3.0	Gravel	Alnus incana, Calamagrostis canadensis, Carex lacustris	Unnamed Stream	Perennial	None
Aitkin	s-47n22w24-ac	8/30/2016	2.0	2.0	2.0	5.0	1.0	3.0	Gravel	Alnus incana, Calamagrostis canadensis, Carex lacustris	Unnamed Stream	Perennial	None
Aitkin	s-47n22w4-a	10/13/2015	0.0	2.0	2.0	8.0	1.0	5.0	Clay	Salix petiolaris, Phalaris arundinacea, Spiraea alba	Unnamed Ditch	Intermittent	None
Aitkin	s-47n22w4-b	10/13/2015	0.0	1.0	1.0	3.0	1.0	2.0	Clay	Phalaris arundinacea	Unnamed Ditch	Intermittent	None
Aitkin	s-47n22w5-a	7/13/2015	0.0	1.0	1.0	2.0	1.0	2.0	Silt	Phalaris arundinacea, Carex tenera, Agrostis gigantea	Unnamed Ditch	Intermittent	None
Aitkin	s-47n22w5-b	7/13/2015	0.0	0.5	0.5	3.0	1.0	3.0	Silt	Populus tremuloides, Spiraea alba, Poa palustris	Unnamed Ditch	Intermittent	None
Aitkin	s-47n22w5-c	7/13/2015	0.0	0.5	0.5	5.0	0.5	5.0	Silt	Phalaris arundinacea, Spiraea alba	Unnamed Ditch	Ephemeral	None
Aitkin	s-47n23w1-a	6/2/2017	0.0	2.0	2.0	3.0	0.5	2.0	Clay	Phalaris arundinacea, Poa pratensis, Trifolium repens	Unnamed Ditch	Ephemeral	None
Aitkin	s-47n23w1-aa	10/14/2015	0.0	1.0	1.0	3.0	0.5	2.0	Clay	Populus tremuloides, Prunus americana, Phalaris arundinacea	Unnamed Ditch	Ephemeral	None
Aitkin	s-48n23w22-aa	8/1/2016	0.0	6.5	6.5	40.0	6.0	35.0	Medium sand	Phalaris arundinacea, Salix exigua, Carex lacustris	Unnamed Stream	Perennial	None

County	Feature ID	Survey Date	Flow Rate (m/s)	Left Bank Height (ft)	Right Bank Height (ft)	Top of Bank Width (ft)	OHWL Height (ft)	OHWL Width (ft)	Substrate	Dominant Riparian Vegetation	Waterbody Name	Flow Regime	Agency Designation
Aitkin	s-48n24w2-b	6/6/2017	0.0	1.0	1.0	2.5	0.5	1.5	Clay	Phalaris arundinacea, Cornus obliqua, Fraxinus pennsylvanica	Unnamed Stream	Ephemeral	None
Aitkin	s-48n24w2-c	6/6/2017	0.0	5.0	5.0	7.0	4.0	5.0	Clay	Alnus incana, Carex lacustris, Salix petiolaris	Unnamed Ditch	Perennial	None
Aitkin	s-48n24w2-d	6/6/2017	0.0	5.0	5.0	7.0	4.0	5.0	Clay	Alnus incana, Carex lacustris, Salix petiolaris	Unnamed Ditch	Perennial	None
Aitkin	s-48n24w2-z	6/14/2018	1.0	0.8	0.8	1.5	0.5	1	Muck	Phalaris arundinacea, Salix bebbiana, Salix petiolaris	Unnamed Stream	Perennial	None
Aitkin	s-50n26w17-aa	8/23/2016	0.0	0.5	0.5	2.5	0.5	2.0	Silt	Tilia americana	Unnamed Stream	Ephemeral	None
Aitkin	s-50n26w17-ab	8/23/2016	0.0	1.0	1.0	3.0	1.0	2.0	Silt	Athyrium filix femina	Unnamed Stream	Ephemeral	None
Aitkin	s-50n26w17-ac	8/23/2016	0.0	0.5	0.5	2.5	0.5	2.0	Silt	Tilia americana, Eurybia macrophylla	Unnamed Stream	Ephemeral	None
Aitkin	s-50n26w17-ad	8/23/2016	0.0	0.5	0.5	3.0	0.5	2.5	Silt	Fraxinus nigra, Eurybia macrophylla	Unnamed Stream	Ephemeral	None
Aitkin	s-50n26w18-a	8/18/2016	0.2	0.5	0.5	3.0	0.5	3.0	Silt	Fraxinus nigra, Carex lacustris	Unnamed Stream	Perennial	None
Aitkin	s-50n26w18-b	8/19/2016	0.0	2.0	2.0	3.0	0.5	2.5	Fine sand	Ossmunda cinnamossa, Athyrium filix femina	Unnamed Stream	Ephemeral	None
Aitkin	s-50n26w18-c	8/23/2016	0.0	0.5	0.5	2.0	0.5	1.5	Silt	Fraxinus nigra, Athyrium filix femina, <Null>	Unnamed Stream	Ephemeral	None
Aitkin	s-50n26w18-d	8/23/2016	0.0	0.5	0.5	3.0	0.5	2.5	Silt	Fraxinus nigra	Unnamed Stream	Ephemeral	None
Aitkin	s-50n26w5-a	8/5/2015	0.0	1.5	1.5	5.0	0.5	4.5	Gravel	Acer rubrum	Unnamed Stream	Intermittent	None
Aitkin	s-50n26w6-b	8/9/2016	0.3	1.5	1.5	4.0	1.0	3.0	Gravel	Phalaris arundinacea	Unnamed Stream	Perennial	None
Aitkin	s-50n26w6-c	8/9/2016	0.0	0.5	0.5	3.5	0.8	3.0	Coarse sand	Fraxinus nigra	Unnamed Stream	Ephemeral	None
Aitkin	s-50n26w6-d	8/9/2016	0.0	1.5	1.5	6.0	1.5	5.0	Coarse sand	Populus tremuloides, Acer rubrum	Unnamed Stream	Ephemeral	None
Aitkin	s-50n26w6-e	8/11/2016	0.0	1.5	1.5	6.0	1.0	6.0	Medium sand	Populus tremuloides, Acer rubrum	Unnamed Stream	Ephemeral	None
Aitkin	s-50n26w6-f	8/11/2016	0.0	0.5	0.5	3.0	0.5	2.0	Silt	Acer rubrum, Impatiens capensis	Unnamed Stream	Ephemeral	None
Aitkin	s-50n26w6-g	8/12/2016	0.0	0.5	0.5	2.5	0.3	2.0	Silt	Acer rubrum, Eurybia macrophylla	Unnamed Stream	Ephemeral	None
Aitkin	s-50n26w6-h	8/12/2016	0.0	0.5	0.5	3.0	0.5	2.5	Silt	Fraxinus nigra, Acer rubrum	Unnamed Stream	Ephemeral	None
Aitkin	s-50n26w7-a	8/16/2016	0.1	0.5	0.5	6.0	1.0	6.0	Silt	Carex lacustris, Calamagrostis canadensis, Alnus incana	Unnamed Stream	Intermittent	None
Aitkin	s-50n26w7-b	8/16/2016	0.0	0.5	0.5	3.5	0.5	3.0	Silt	Populus tremuloides, Arilia nudicalis	Unnamed Stream	Ephemeral	None
Aitkin	s-51n21w8-a	6/22/2018	1.0	4.0	4.0	20.0	3.0	18	Muck	Fraxinus nigra, Impatiens capensis, Ulmus americana	Unnamed Ditch	Perennial	None
Aitkin	s-51n22w12-a	6/22/2018	1.0	3.0	4.5	14.0	2.0	11	Muck	Salix petiolaris, Spiraea alba, Salix bebbiana	Unnamed Ditch	Perennial	None
Aitkin	s-51n22w22-a	9/7/2017	0.1	6.0	6.0	15.0	6.0	15.0	muck	Calamagrostis canadensis, Carex lacustris, Typha x glauca	Unnamed Stream	Perennial	None
Aitkin	s-51n22w24-a	9/7/2017	0.1	7.0	7.0	50.0	7.0	60.0	muck	Calamagrostis canadensis, Carex lacustris, Typha x glauca	Unnamed Stream	Perennial	None

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Aitkin	s-51n23w23-a	9/6/2017	1.0	4.0	4.0	6.0	3.0	5.0	Muck	Phalaris arundinacea, Typha x glauca, Calamagrostis canadensis	Unnamed Stream	Perennial	PWI
Aitkin	s-51n23w27-a	9/5/2017	1.0	4.0	4.0	6.0	4.0	6.0	muck	Calamagrostis canadensis, Carex lacustris, Salix petiolaris	Unnamed Stream	Perennial	PWI
Aitkin	s-51n23w28-a	7/13/2018	1.0	1.0	1.0	3.0	0.5	1	Gravel	Ulmus americana, Impatiens capensis, Acer saccharum	Unnamed Stream	Intermittent	None
Aitkin	s-51n23w29-b	9/1/2017	0.5	3.0	3.0	5.0	2.0	4.0	Clay	Acer rubrum, Calamagrostis canadensis, Fraxinus nigra	Unnamed Stream	Perennial	None
Aitkin	s-51n24w26-a	8/31/2017	0.1	5.0	5.0	15.0	4.0	15.0	Clay loam	Typha x glauca, Calamagrostis canadensis, Phalaris arundinacea	Unnamed Stream	Perennial	PWI, Trout Stream
Aitkin	s-51n24w27-a	8/25/2017	2.0	15.0	15.0	200.0	7.0	130.0	Sand	Phalaris arundinacea	Unnamed Stream	Perennial	PWI, Impaired, Canoe Route
Aitkin	s-51n24w28-a	7/23/2018	0.0	8.0	8.0	30.0	2.0	10	Clay	Phalaris arundinacea, Carex lacustris, Typha X glauca	Unnamed Ditch	Perennial	None
Aitkin	s-51n24w28-b	7/23/2018	0.0	8.0	10.0	30.0	2.0	10	Clay	Phalaris arundinacea, Carex lacustris, Typha X glauca	Unnamed Stream	Perennial	None
Aitkin	s-51n24w28-c	7/23/2018	0.0	7.0	7.0	15.0	4.0	8	Clay	Scirpus cyperinus, Carex lacustris, Phalaris arundinacea	Unnamed Stream	Perennial	None
Aitkin	s-51n24w28-d	7/23/2018	0.0	7.0	7.0	15.0	4.0	8	Clay	Typha X glauca, Carex lacustris, Phalaris arundinacea	Unnamed Stream	Perennial	None
Aitkin	s-51n24w29-a	8/28/2017	0.0	7.0	7.0	30.0	3.0	15.0	Clay	Typha x glauca, Carex lacustris, Alnus incana	Unnamed Stream	Intermittent	None
Aitkin	s-51n24w30-a	8/28/2017	0.0	3.0	3.0	10.0	2.0	7.0	Clay	Phalaris arundinacea, Fraxinus nigra, Alnus incana	Unnamed Stream	Intermittent	None
Aitkin	s-51n24w31-a	8/28/2017	0.0	3.0	3.0	10.0	2.0	7.0	Clay	Phalaris arundinacea, Fraxinus nigra, Alnus incana	Unnamed Stream	Intermittent	None
Aitkin	s-51n24w31-b	8/28/2017	3.0	3.0	3.0	50.0	5.0	30.0	Clay	Phalaris arundinacea, Alnus incana, Silver maple	Unnamed Stream	Perennial	PWI, NRI
Aitkin	s-51n24w31-c	8/28/2017	2.0	2.0	2.0	10.0	2.0	5.0	Muck	Phalaris arundinacea, Scirpus cyperinus, Silver maple	Unnamed Stream	Intermittent	None
Aitkin	s-51n26w20-aa	8/9/2018	1.0	6.0	6.0	40.0	4.0	30	Muck	Calamagrostis canadensis, Carex lacustris, Phalaris arundinacea	Unnamed Stream	Perennial	None
Aitkin	s-51n26w20-bb	8/9/2018	0.0	4.0	4.0	15.0	3.0	7	Muck	Phalaris arundinacea, Alnus incana, Salix petiolaris	Unnamed Stream	Intermittent	None
Aitkin	s-51n26w28-aa	8/9/2018	1.0	10.0	10.0	50.0	8.0	40	Muck	Calamagrostis canadensis, Potamogeton natans, Zizania palustris	Moose river	Perennial	PWI, Impaired
Aitkin	s-51n26w29-a	7/20/2018	1.0	6.0	8.0	20.0	2.0	3	Muck	Phalaris arundinacea, Scirpus cyperinus, Scirpus atrovirens	Unnamed Stream	Perennial	None
Aitkin	s-51n26w33-a	8/22/2017	0.0	2.0	2.0	4.0	3.0	3.0	Muck	Carex lacustris, Calamagrostis canadensis, Fraxinus nigra	Unnamed Stream	Intermittent	None

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Aitkin	s-51n26w33-b	8/22/2017	0.1	3.0	3.0	6.0	3.0	6.0	Muck	Carex lacustris, Calamagrostis canadensis, Typha x glauca	Unnamed Stream	Perennial	None
Aitkin	s-51n26w33-g	7/20/2018	1.0	3.0	3.0	15.0	1.5	4	Muck	Phalaris arundinacea, Carex lacustris, Fraxinus nigra	Unnamed Stream	Perennial	NRI
Aitkin	s-51n26w33-h	7/20/2018	0.5	2.0	2.0	10.0	0.5	2	Muck	Fraxinus nigra, Alnus incana, Impatiens capensis	Unnamed Stream	Perennial	NRI
Carlton	CR144aWB	6/18/2013	0.1	4.0	3.0	7.0	4.0	7.0	Sand	Alnus incana, Phalaris arundinacea, Thalictrum dasycarpum	Unnamed Stream	Perennial	Public Water
Carlton	CR144bWB	5/19/2014	0.0	2.0	2.0	2.0	2.0	2.0	Silt	Saxifraga pennsylvanica, Alnus incana, Ribes hudsonianum	Unnamed Stream	Ephemeral	None
Carlton	CR144cWB	5/19/2014	0.0	0.3	0.3	1.0	0.3	1.0	Silt	Populus tremuloides, Fraxinus nigra, Equisetum hyemale	Unnamed Stream	Ephemeral	None
Carlton	CR144dWB	5/19/2014	0.1	1.0	1.0	3.0	2.0	5.0	Clay	Alnus incana, Saxifraga pennsylvanica, Ranunculus sceleratus	Unnamed Stream	Ephemeral	None
Carlton	CR145aWB	6/18/2013	0.0	1.0	1.0	1.5	2.0	2.0	Sand	Ranunculus hispidus, Calamagrostis canadensis, Equisetum arvense, Rubus pubescens	Unnamed Stream	Ephemeral	None
Carlton	CR145bWB	6/18/2013	0.0	0.5	1.0	2.0	1.5	2.0	Clay	Equisetum arvense, Phalaris arundinacea, Poa pratensis, S. candensis, Calamagrostis canadensis	Unnamed Stream	Ephemeral	None
Carlton	CR145cWB	6/7/2017	0.1	5.0	5.0	10.0	0.5	3.0	Clay	Caltha palustris, Scirpus microcarpus, Salix petiolaris	Unnamed Stream	Intermittent	None
Carlton	CR147aWB	6/21/2013	0.1	0.5	0.5	2.5	0.5	2.0	Clay	Rubus idaeus, Rosa acicularis, Glyceria grandis, Cornus stolonifera	Unnamed Stream	Ephemeral	None
Carlton	CR156aWB	6/12/2013	0.1	1.0	1.0	8.0	1.0	5.0	Silt	Caltha palustris, Equisetum arvense	Unnamed Stream	Intermittent	None
Carlton	CR157_200a1WB	9/20/2014	0.0	1.5	1.5	4.0	0.5	4.0	Clay	Populus tremuloides	Unnamed Stream	Ephemeral	None
Carlton	CR159_200aWB	5/31/2014	0.1	1.5	1.5	4.0	0.5	4.0	Clay	Populus tremuloides, Impatiens capensis, Caltha palustris	Unnamed Stream	Ephemeral	None
Carlton	CR159_200bWB	5/31/2014	0.1	1.5	1.5	4.0	0.5	4.0	Clay	Populus tremuloides, Calamagrostis canadensis, Rubus pubescens	Unnamed Stream	Ephemeral	None
Carlton	CR159_200cWB	5/31/2014	0.1	0.5	0.5	3.0	0.5	3.0	Clay	Populus balsamifera, Populus tremuloides, Impatiens capensis	Unnamed Stream	Ephemeral	None
Carlton	CR159aWB	6/13/2013	0.0	2.0	1.0	2.0	2.0	2.0	Clay	Populus tremuloides, Cornus stolonifera	Unnamed Stream	Perennial	None
Carlton	CR159bWB	6/30/2015	0.0	0.3	0.3	3.0	0.3	1.0	Silt	Fraxinus nigra, Impatiens capensis	Unnamed Stream	Ephemeral	None
Carlton	CR160aWB	6/13/2013	0.0	1.0	1.0	3.0	0.5	2.5	Clay	Populus tremuloides, Corylus americana	Unnamed Stream	Perennial	None



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Carlton	CR162_300aWB	8/8/2013	0.0	1.5	1.5	15.0	3.0	25.0	Clay	Glyceria striata, Populus tremuloides, Athyrium filix-femina	Unnamed Stream	Ephemeral	None
Carlton	CR162aWB	6/9/2014	0.1	2.0	2.0	5.0	1.0	5.0	Clay	Fraxinus nigra, Equisetum sylvaticum, Matteuccia struthiopteris	Unnamed Stream	Perennial	None
Carlton	CR162bWB	6/9/2014	0.1	1.0	1.0	2.0	0.5	1.0	Clay	Fraxinus nigra, Corylus cornuta, Trillium grandiflorum	Unnamed Tributary to Pokegama River	Ephemeral	None
Carlton	CRC5001_503aWB	9/15/2014	0.0	0.5	0.5	3.0	0.3	2.0	Silt	Athyrium filix-femina, Fraxinus nigra, Corylus cornuta	Unnamed Ditch	Intermittent	None
Carlton	CRC5001_503bWB	9/15/2014	0.0	0.5	0.5	4.0	0.3	3.0	Silt	Fraxinus nigra, Calamagrostis canadensis, Onoclea sensibilis	Unnamed Ditch	Intermittent	None
Carlton	CRC5001_503cWB	9/15/2014	0.0	1.0	1.0	3.0	0.5	3.0	Silt	Athyrium filix-femina, Fraxinus nigra, Corylus cornuta	Unnamed Ditch	Intermittent	None
Carlton	CRC5001_503dWB	9/15/2014	0.0	1.0	1.0	2.0	0.5	2.0	Silt	Onoclea sensibilis, Athyrium filix-femina, Corylus cornuta	Unnamed Ditch	Intermittent	None
Carlton	CRC5001_503eWB	9/15/2014	0.0	2.0	2.0	5.0	0.5	4.0	Silt	Calamagrostis canadensis, Athyrium filix-femina, Cicuta maculata	Unnamed Ditch	Intermittent	None
Carlton	CRC5001_503fWB	9/15/2014	0.0	0.5	0.5	3.0	0.3	2.0	Silt	Pteridium aquilinum, Acer rubrum, Quercus rubra	Unnamed Ditch	Intermittent	None
Carlton	CRC5001_503gWB	9/15/2014	0.0	1.0	1.0	5.0	0.5	5.0	Silt	Onoclea sensibilis, Fraxinus nigra, Calamagrostis canadensis	Unnamed Stream	Ephemeral	None
Carlton	CRC5001_504aWB	9/15/2014	0.0	3.0	2.0	8.0	1.0	6.0	Silt	Alnus incana, Fraxinus nigra, Athyrium filix-femina	Unnamed Ditch	Intermittent	None
Carlton	CRC5001_504bWB	9/15/2014	0.0	2.0	2.0	9.0	1.0	8.0	Silt	Alnus incana, Rubus idaeus, Athyrium filix-femina	Unnamed Ditch	Intermittent	None
Carlton	CRC5001_506aWB	9/11/2014	0.0	0.5	0.5	3.0	0.5	3.0	Silt	Onoclea sensibilis, Calamagrostis canadensis, Salix bebbiana	Unnamed Ditch	Intermittent	None
Carlton	CRC5001_506bWB	9/12/2014	0.0	1.0	1.0	3.0	0.5	3.0	Silt	Alnus incana, Calamagrostis canadensis, Onoclea sensibilis	Unnamed Ditch	Intermittent	None
Carlton	CRC5001_506cWB	9/12/2014	0.0	3.0	3.0	6.0	2.0	4.0	Silt	Carex lacustris, Salix discolor, Salix petiolaris	Unnamed Ditch	Intermittent	None
Carlton	CRC5001_506dWB	9/13/2014	0.0	4.0	5.0	12.0	10.0	10.0	Silt	Rubus idaeus, Onoclea sensibilis, Athyrium-felix-femina	Unnamed Ditch	Intermittent	None
Carlton	CRC5001_506eWB	9/13/2014	0.0	1.0	1.0	2.0	0.5	2.0	Silt	Athyrium filix-femina, Fraxinus nigra, Cornus alba	Unnamed Stream	Intermittent	None
Carlton	CRC5001_508_300aWB	9/11/2014	0.5	2.0	2.0	50.0	1.0	50.0	Silt	Carex lacustris, Spiraea alba, Calamagrostis canadensis	Kettle River, West Branch	Perennial	Public Water

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Carlton	CRC5009_900RDaWB	6/2/2014	0.3	1.0	1.0	2.0	2.0	0.3	Gravel	Onoclea sensibilis, Salix discolor, Calamagrostis canadensis	Unnamed Stream	Intermittent	None
Carlton	CRC5014aWB	7/8/2013	0.4	1.0	1.0	24.0	5.0	24.0	Silt	Salix petiolaris, Carex lacustris, Phalaris arundinacea	Kettle River, West Branch	Perennial	Public Water
Carlton	CRC5016aWB	7/9/2013	0.1	1.0	1.0	20.0	2.0	20.0	Silt	Calamagrostis canadensis, Phalaris arundinacea, Alnus incana	Kettle River, West Branch	Perennial	Public Water
Carlton	CRC5017_300aWB	9/4/2014	0.0	2.0	2.0	8.0	1.0	6.0	Muck	Typha X glauca, Alnus incana, Scirpus cyperinus	Unnamed Ditch	Intermittent	None
Carlton	CRC5035aWB	5/29/2014	0.5	0.5	0.5	4.0	1.0	3.0	Sand	Alnus incana, Phalaris arundinacea, Scirpus atrovirens	Inlet to Rhine Lake	Perennial	None
Carlton	CRC5037aWB	5/29/2014	0.5	1.0	1.0	6.0	2.5	5.0	Sand	Phalaris arundinacea, Alnus incana, Scirpus atrovirens	Inlet to Rhine Lake	Perennial	None
Carlton	CRC5040aWB	7/3/2013	0.5	5.0	5.0	90.0	6.0	70.0	Sand	Carex lacustris, Salix petiolaris	Heikkila Creek	Perennial	Public Water
Carlton	CRC5043_310aWB	8/28/2014	0.0	2.0	2.0	8.0	1.0	1.0	Muck	Phalaris arundinacea, Typha x glauca	Unnamed Ditch	Intermittent	None
Carlton	CRC5044_200aWB	8/28/2014	0.0	1.0	1.0	6.0	0.3	4.0	Clay	Solidago gigantea, Agrostis gigantea	Unnamed Ditch	Intermittent	None
Carlton	CRC5056aWB	7/14/2015	1.0	2.0	2.0	18.0	5.0	18.0	Sand	Phalaris arundinacea	Unnamed Stream	Perennial	None
Carlton	CRC5059aWB	6/25/2013	1.3	10.0	12.0	35.0	7.0	30.0	Silt	Phalaris arundinacea	Kettle River	Perennial	303d Impaired, Public Water, Section 10
Carlton	CRC5074aWB	6/25/2013	0.5	1.0	0.5	6.0	1.0	5.0	Bedrock	Calamagrostis canadensis, Phalaris arundinacea, Cornus stolonifera, Fraxinus nigra	West Fork Moose Horn River Tributary	Intermittent	None
Carlton	CRC5083aWB	6/24/2013	1.0	2.0	2.0	12.0	6.0	12.0	Sand	Phalaris arundinacea	West Fork Moose Horn River	Perennial	Public Water, Section 10
Carlton	CRC5088aWB	6/27/2013	0.1	0.5	1.0	5.0	2.5	4.5	Sand	Alnus incana, Calamagrostis canadensis, Solidago gigantea	Unnamed Stream	Perennial	None
Carlton	CRC5091aWB	6/28/2013	0.5	0.5	0.5	5.0	2.0	5.0	Sand	Alnus incana, Fraxinus nigra, Carex lacustris, Calamagrostis canadensis	King Creek	Intermittent	Public Water, Trout Stream
Carlton	CRC5093aWB	6/29/2013	0.5	0.5	0.5	2.0	2.0	3.0	Silt	Caltha palustris, Alnus incana, Impatiens capensis, Poa palustris	Unnamed Stream	Intermittent	None
Carlton	CRC5094aWB	7/1/2013	0.3	2.0	2.0	5.0	1.5	6.0	Silt	Carex lacustris and Calamagrostis canadensis	Unnamed Stream	Perennial	None
Carlton	CRC5104aWB	6/27/2013	2.0	3.0	4.0	15.0	4.0	15.0	Gravel	Alnus incana	Park Lake Creek	Perennial	Public Water
Carlton	CRC5107aWB	7/1/2013	1.0	2.0	1.0	12.0	3.0	12.0	Gravel	Alnus incana, Calamagrostis canadensis, Onoclea sensibilis, Phalaris arundinacea, Athyrium filix-femina	Park Lake Creek	Perennial	Public Water

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Carlton	CRC5110aWB	7/2/2013	0.1	1.0	1.0	10.0	3.0	10.0	Silt	Phalaris arundinacea, Alnus incana, Calamagrostis canadensis, Impatiens capensis	Unnamed Stream	Perennial	None
Carlton	CRC5112aWB	7/2/2013	0.2	0.0	0.0	15.0	10.0	15.0	Silt	Calamagrostis canadensis, Carex stricta, Carex lacustris, Salix petiolaris	Moose Horn River	Perennial	Public Water
Carlton	CRC5113aWB	7/2/2013	1.3	1.0	2.0	24.0	5.0	24.0	Gravel	Phalaris arundinacea	Moose Horn River	Perennial	Public Water
Carlton	CRC5137aWB	7/17/2013	0.2	0.5	0.5	14.0	6.0	14.0	Clay	Calamagrostis canadensis, Phalaris arundinacea, Salix petiolaris	Blackhoof River	Perennial	Public Water
Carlton	CRC5163_200aWB	5/28/2014	0.1	1.0	1.0	3.0	1.0	3.0	Sand	Phalaris arundinacea, Carex lacustris	Unnamed Ditch	Intermittent	None
Carlton	CRC5168aWB	5/28/2014	0.1	1.5	1.5	2.0	1.0	1.5	Silt	Phalaris arundinacea, Calathia palustris, Acer rubrum	Unnamed Stream	Ephemeral	None
Carlton	CRC5168bWB	5/28/2014	0.1	0.5	0.5	1.0	1.0	1.0	Silt	Caltha palustris, Acer rubrum, Dicentra cucullaria	Unnamed Ditch	Intermittent	None
Carlton	CromwellDaWB	7/10/2014	0.0	3.0	3.0	8.0	1.0	1.0	Muck	Phalaris arundinacea	Unnamed Ditch	Intermittent	None
Carlton	CromwellDbWB	7/10/2014	0.0	2.0	2.0	8.0	1.0	6.0	Muck	Phalaris arundinacea	Unnamed Ditch	Intermittent	None
Carlton	CRR51001aWB	8/10/2013	0.5	2.0	2.0	25.0	6.0	22.0	Silt	Calamagrostis canadensis	Moose Horn River	Perennial	Public Water, Section 10
Carlton	CRR51006aWB	8/12/2013	0.0	2.0	2.0	3.0	0.5	0.5	Silt	Alnus incana, Cornus racemosa, Salix petiolaris, Impatiens capensis, Onoclea sensibilis, Iris versicolor	Unnamed Ditch	Intermittent	None
Carlton	CRR51010_603aWB	5/30/2014	0.1	2.0	2.0	3.0	3.0	3.0	Sand	Alnus incana, Caltha palustris	Unnamed Stream	Ephemeral	None
Carlton	CRR51010_604aWB	5/29/2014	0.1	4.0	4.0	3.0	4.0	3.0	Muck	Phalaris arundinacea, Carex stricta	Unnamed Stream	Ephemeral	None
Carlton	CRR51010_607aWB	5/29/2014	0.1	1.0	1.0	3.0	1.0	3.0	Muck	Calamagrostis canadensis, Onoclea sensibilis, Caltha palustris	Unnamed Stream	Ephemeral	None
Carlton	CRR51010_612aWB	5/27/2014	0.1	6.0	6.0	25.0	4.0	25.0	Sand	Carex aquatilis, Salix petiolaris	Blackhoof River	Perennial	Public Water, Trout Stream
Carlton	CRR51010_612bWB	5/27/2014	0.1	1.0	1.0	3.0	0.5	3.0	Muck	Calamagrostis canadensis, Alnus incana	Unnamed Ditch	Intermittent	None
Carlton	CRR51010_640aWB	6/23/2015	0.0	3.0	3.0	8.0	2.0	3.0	Clay	Rubus idaeus	Unnamed Stream	Ephemeral	None
Carlton	CRR51010_640bWB	6/25/2015	0.0	2.0	1.5	3.0	1.0	1.5	Clay	Equisetum pratense	Unnamed Stream	Ephemeral	None
Carlton	CRR51026aWB	9/26/2013	0.3	3.0	3.0	10.0	3.0	10.0	Sand	Calamagrostis canadensis, Salix petiolaris, Phalaris arundinacea	Blackhoof River	Perennial	Public Water
Carlton	CRR51028aWB	10/12/2013	0.0	3.0	4.0	8.0	3.0	8.0	Clay	Phalaris arundinacea	Unnamed Ditch	Intermittent	None
Carlton	CRR53020aWB	8/10/2013	0.0	1.0	1.0	1.5	0.5	1.0	Sand	Matteuccia struthiopteris, Athyrium filix-femina, Corylus cornuta, Fraxinus nigra	Unnamed Stream	Ephemeral	None

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Carlton	CRR53031aWB	8/8/2013	0.0	2.0	2.0	3.0	1.0	2.0	Silt	Scirpus atrovirens, Carex retrorsa, Populus tremuloides, Populus balsamifera, ,	Mud Creek Tributary	Ephemeral	None
Carlton	CRR53038aWB	8/13/2013	0.0	1.0	1.0	3.0	1.0	3.0	Sand	Poa palustris, Equisetum sylvaticum, Thalictrum dasycarpum, Fraxinus nigra	Unnamed Stream	Ephemeral	None
Carlton	CRR53041aWB	8/8/2013	0.5	5.0	5.0	20.0	4.0	18.0	Silt	Matteuccia struthiopteris, Phalaris arundinacea, Urtica dioica, Alnus incana	Clear Creek	Perennial	Public Water
Carlton	CRR53041bWB	8/8/2013	0.0	1.0	1.0	5.0	0.0	3.0	Silt	Pteridium aquilinum, Abies balsamea, Populus tremuloides, Athyrium filix-femina	Unnamed Stream	Ephemeral	None
Carlton	CRR53041cWB	8/8/2013	0.0	1.0	1.0	3.0	0.5	2.0	Silt	Eurybia macrophyllus, Abies balsamea, Aralia nudicaulis	Unnamed Stream	Ephemeral	None
Carlton	CRR53042aWB	8/8/2013	0.0	1.0	1.0	3.0	0.5	2.0	Silt	Urtica dioica, Abies balsamea, Athyrium filix-femina, Populus tremuloides	Unnamed Stream	Ephemeral	None
Carlton	CRR53048aWB	8/9/2013	0.0	1.0	1.0	8.0	1.0	8.0	Sand	Dryopteris sp.	Clear Creek Tributary	Intermittent	None
Carlton	CRR53051aWB	8/9/2013	0.5	2.0	2.0	5.0	2.5	4.0	Silt	Dryopteris sp., Acer rubrum	Clear Creek Tributary	Perennial	Public Water
Carlton	CRR53052aWB	8/9/2013	0.0	1.0	1.0	3.0	1.5	3.0	Clay	Cicuta maculata, ferns, Equisetum sp.	Clear Creek Tributary	Ephemeral	Public Water
Carlton	CRR53053aWB	8/9/2013	0.5	4.0	3.0	7.0	4.0	7.0	Sand	Matteuccia struthiopteris, Alnus incana	Unnamed Stream	Perennial	None
Carlton	CRR53053bWB	8/9/2013	0.0	1.0	1.0	3.0	1.0	3.0	Clay	Alnus incana Onoclea sensibilis	Unnamed Stream	Ephemeral	None
Carlton	CRR53054aWB	8/8/2013	0.2	2.0	2.0	3.0	2.0	3.0	Clay	Alnus incana, horsetails, , Alnus incana, Equisetum spp.	Unnamed Stream	Intermittent	None
Carlton	CRR53054bWB	8/9/2013	0.0	1.5	1.5	2.0	2.0	2.0	Clay	Populus tremuloides, Fraxinus nigra, Acer rubrum, Carex intumescens, Athyrium filix-femina	Unnamed Stream	Ephemeral	None
Carlton	CRR53054cWB	8/9/2013	0.0	1.0	0.5	2.0	1.0	2.0	Clay	Cicuta maculata, Equisetum sp.	Unnamed Stream	Ephemeral	None
Carlton	CRR53055aWB	8/8/2013	0.1	0.0	0.0	8.0	0.0	8.0	Sand	Phalaris arundinacea	Unnamed Stream	Perennial	Public Water
Carlton	CRR53057aWB	8/13/2013	0.0	1.0	1.0	1.5	0.5	1.0	Sand	Tilia americana, Pinus strobus, Aralia nudicaulis	Unnamed Stream	Ephemeral	None
Carlton	CRR53058aWB	9/28/2013	0.0	3.0	3.0	9.0	2.0	7.0	Clay	Cicuta maculata, Populus tremuloides	Unnamed Stream	Intermittent	None
Carlton	CRR53058bWB	9/28/2013	0.0	1.0	1.0	2.0	0.5	0.5	Clay	Eleocharis acicularis, Scirpus atrovirens, Persicaria punctata	Unnamed Stream	Ephemeral	None
Carlton	CRR53058cWB	9/28/2013	0.0	1.0	1.0	4.0	0.5	4.0	Clay	Eleocharis acicularis, Scirpus atrovirens, Persicaria punctata	Unnamed Stream	Ephemeral	None

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Carlton	CRR53058dWB	9/28/2013	0.0	4.0	4.0	2.0	1.0	2.0	Clay	Rubus idaeus, Populus tremuloides	Clear Creek Tributary	Intermittent	Public Water
Carlton	CRR53059aWB	8/13/2013	0.0	2.0	2.0	2.0	1.0	1.5	Sand	Rubus idaeus, Populus tremuloides	Unnamed Stream	Ephemeral	None
Carlton	CRR53061aWB	8/8/2013	0.0	1.0	1.0	2.5	2.0	5.0	Clay	Eurybia macrophyllus, Fraxinus nigra	Unnamed Stream	Ephemeral	None
Carlton	CRR53063aWB	8/12/2013	0.0	3.0	3.0	8.0	8.0	3.0	Silt	Phalaris arundinacea, Urtica dioica, Rubus idaeus, Alnus incana, Fraxinus nigra, Cornus stolonifera	Unnamed Stream	Perennial	None
Carlton	CRR53063bWB	8/12/2013	0.0	3.0	3.0	5.0	3.0	5.0	Gravel	Sium suave, Glyceria strianta, Caltha palustris, Rudbeckia lacinata, Cornus stolonifera	Unnamed Stream	Intermittent	None
Carlton	CRR53064aWB	8/12/2013	0.0	1.0	1.0	8.0	1.0	8.0	Sand	Phalaris arundinacea, Fraxinus nigra	Unnamed Stream	Ephemeral	None
Carlton	CRR53065_300aWB	10/2/2013	0.0	1.0	1.3	5.0	0.5	3.5	Clay	Fraxinus nigra, Ribes americanum, Populus tremuloides, Corylus cornuta, Solidago gigantea	Unnamed Stream	Perennial	None
Carlton	CRR53065aWB	8/12/2013	0.0	4.0	4.0	10.0	2.0	4.0	Sand	Phalaris arundinacea, Poa palustris	Unnamed Stream	Ephemeral	None
Carlton	s-47n19w2-a	7/15/2015	0.0	1.0	1.0	2.5	0.5	1.5	Fine sand	Onoclea sensibilis, Phalaris arundinacea, Scirpus cyperinus	Unnamed Ditch	Intermittent	None
Carlton	s-47n20w2-a	7/14/2015	0.1	1.0	1.0	4.0	1.0	3.0	Silt	Phalaris arundinacea, Scirpus cyperinus, Salix petiolaris	Unnamed Ditch	Intermittent	None
Carlton	s-47n20w2-b	7/14/2015	0.0	1.0	1.0	2.0	1.0	2.0	Silt	Phalaris arundinacea, Equisetum arvense, Carex tenera	Unnamed Stream	Intermittent	None
Carlton	s-47n20w2-c	7/15/2015	0.0	1.0	1.0	3.0	1.0	1.0	Silt	Agrostis gigantea, Trifolium repens, Salix petiolaris	Unnamed Ditch	Intermittent	None
Carlton	s-47n20w4-a	7/22/2015	0.0	0.5	0.5	2.5	0.5	2.0	Silt	Scirpus cyperinus, Agrostis gigantea, Phalaris arundinacea	Unnamed Ditch	Intermittent	None
Carlton	s-47n21w09-a	10/9/2015	0.0	2.0	2.0	18.0	1.0	10.0	Muck	Salix petiolaris, Carex lacustris, Phalaris arundinacea	Unnamed Stream	Perennial	None
Carlton	s-47n21w16-a	10/15/2015	0.2	2.5	2.5	19.0	2.0	17.0	Medium sand	Alnus incana, Salix petiolaris, Calamagrostis canadensis	Kettle River, West Branch	Perennial	Public Water
Carlton	s-47n21w1-a	7/22/2015	0.1	6.0	6.0	15.0	3.5	12.0	Clay	Alnus incana, Phalaris arundinacea, Caltha palustris	Unnamed Ditch	Intermittent	None
Carlton	s-47n21w4-a	10/1/2015	0.3	2.0	2.0	25.0	2.0	25.0	Gravel	Calamagrostis canadensis, Phalaris arundinacea, Salix petiolaris	Kettle River, West Branch	Perennial	None
Carlton	s-48n17w16-f	9/18/2017	1.0	6.0	6.0	12.0	4.0	8.0	clay loam	stis canadensis, Salix petiolaris, Al	Unnamed Stream	Perennial	Trout Stream, PWI
Carlton	s-48n17w6-a	6/13/2018	1.0	2.0	1.5	10.0	1.0	8	Sand	Alnus incana, Carex stricta, Onoclea sensibilis	Little Otter Creek	Perennial	Trout Stream, PWI
Carlton	s-48n17w8-a	9/16/2017	0.0	3.0	3.0	7.0	2.0	5.0	Muck	lacustris, Typha x glauca, Scirpus cy	Unnamed Stream	Perennial	None

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Carlton	s-49n18w18-a	7/10/2018	1.0	25.0	30.0	50.0	10.0	30	Muck	Phalaris arundinacea, Salix petiolaris, Spiraea alba	Stoney Brook	Perennial	PWI
Carlton	s-49n18w18-b	7/10/2018	0.0	25.0	25.0	40.0	10.0	15	Muck	Phalaris arundinacea, Salix petiolaris, Spiraea alba	Unnamed Ditch	Perennial	None
Carlton	s-49n18w18-c	7/10/2018	0.0	4.0	4.0	10.0	3.0	7	Muck	Phalaris arundinacea, Salix petiolaris, Carex lacustris	Unnamed Stream	Perennial	None
Carlton	s-49n18w20-a	7/9/2018	0.5	3.0	10.0	8.0	3.0	5	Muck	Phalaris arundinacea, Salix petiolaris, Calamagrostis canadensis	Unnamed Stream	Perennial	None
Carlton	s-49n18w35-a	6/6/2018	0.0	6.0	7.0	10.0	4.0	5	Muck	Phalaris arundinacea, Calla palustris, Salix petiolaris	Unnamed Stream	Perennial	None
Carlton	s-49n18w35-b	6/6/2018	0.0	10.0	8.0	25.0	7.0	10	Muck	Calamagrostis canadensis, Carex lacustris, Salix petiolaris	Unnamed Stream	Perennial	None
Carlton	s-49n18w7-a	7/10/2018	0.0	25.0	25.0	40.0	10.0	15	Muck	Phalaris arundinacea, Salix petiolaris, Spiraea alba	Stoney Brook	Perennial	PWI
Cass	CA021aWB	9/20/2013	0.1	1.0	1.0	3.0	0.5	1.0	Sand	Calamagrostis canadensis, Scirpus cyperinus, Carex lacustris, Iris versicolor, Persicaria sagittata	Unnamed Ditch	Intermittent	None
Cass	CA063aWB	8/10/2013	0.0	2.0	0.0	100.0	2.0	100.0	Sand	Phalaris arundinacea, Alnus incana, Carex stricta	Pine River	Perennial	Canoe Route, Public Water
Cass	CA085aWB	8/28/2013	0.0	4.0	5.0	60.0	3.5	50.0	Sand	Eleocharis palustris, Polygonum hydropiper	Ada Brook / Blind Lake Creek	Perennial	Public Water
Cass	CA096aWB	7/30/2013	0.0	5.0	5.0	10.0	0.0	10.0	Muck	Calamagrostis canadensis, Scirpus cyperinus, Carex lacustris	Unnamed Stream	Perennial	None
Cass	CA104aWB	7/25/2013	0.0	1.0	1.0	4.0	2.0	8.0	Silt	Carex lacustris, Scirpus cyperinus, Onoclea sensibilis, Fraxinus nigra	Unnamed Stream	Perennial	None
Cass	CA112aWB	7/24/2013	0.0	0.0	0.0	0.0	0.0	0.0	Clay	Phalaris arundinacea, Impatiens capensis, Alnus incana	Unnamed Stream	Perennial	None
Cass	CA116aWB	8/17/2013	0.0	1.0	1.0	3.0	1.0	10.0	Silt	Acer saccharum, Tilia americana, Osmunda claytoniana, Gymnocarpium dryopteris	Unnamed Stream	Intermittent	None
Cass	CA118_200aWB	8/9/2013	0.0	1.0	1.0	14.0	3.0	14.0	Silt	Carex lacustris	Unnamed Stream	Perennial	None
Cass	CA119aWB	7/22/2013	0.5	2.0	2.0	4.0	2.0	2.0	Sand	Leersia oryzoides	Unnamed Stream	Perennial	None
Cass	CA120_200AWB	8/13/2013	0.0	1.0	1.0	4.0	0.5	2.0	Clay	Aralia nudicaulis, Osmunda claytoniana, Corylus cornuta	Unnamed Stream	Ephemeral	None
Cass	CA127aWB	8/18/2015	0.0	1.0	1.0	6.0	0.8	4.0	Very coarse sand	Alnus sp., Calamagrostis canadensis	Unnamed Stream	Perennial	None
Cass	CA133aWB	7/18/2013	1.5	6.0	6.0	50.0	5.0	40.0	Sand	Nymphaeaceae sp., Carex lacustris	Dagget Brook	Perennial	Public Water
Cass	CA147_505a1WB	8/30/2014	0.2	3.5	6.0	20.0	0.3	4.0	Gravel	Fraxinus nigra, Tilia americana, Athyrum filix-femina	Unnamed Ditch	Intermittent	None

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Cass	CA147_525a1WB	8/30/2014	0.5	2.0	2.0	15.0	1.0	12.5	Sand	Alnus incana, Carex lacustris, Typha angustifolia	Spring Brook	Perennial	Public Water, Trout Stream
Cass	CA153aWB	7/13/2013	1.0	0.3	0.3	1.0	0.5	5.0	Gravel	Alnus incana	Unnamed Stream	Intermittent	None
Cass	CA153bWB	7/13/2013	1.0	1.0	1.0	5.0	2.0	20.0	Gravel	Alnus incana	Spring Brook	Perennial	Aquatic Management Area, Public Water, Trout Stream
Cass	CA153cWB	7/13/2013	1.0	0.5	0.5	5.0	2.0	5.0	Gravel	Corylus americana	Spring Brook	Intermittent	None
Cass	CA157aWB	7/31/2013	0.0	0.0	0.0	3.0	0.5	1.5	Muck	Carex lacustris	Unnamed Stream	Perennial	None
Cass	CA157bWB	7/31/2013	0.0	0.0	0.0	3.0	4.0	1.5	Rock	Populus tremuloides, Corylus cornuta	Unnamed Stream	Ephemeral	None
Cass	CA162aWB	7/13/2013	0.0	1.5	1.5	4.0	0.5	1.0	Sand	Laportea canadensis, Impatiens capensis, Fraxinus nigra, Fraxinus pennsylvanica, Acer rubrum	Unnamed Stream	Ephemeral	None
Cass	CA163aWB	7/10/2013	0.0	3.0	3.0	25.0	2.5	20.0	Muck	Phalaris arundinacea	Moose River	Perennial	303d Impaired, NRI, Public Water
Cass	CA163bWB	7/10/2013	0.0	0.0	0.0	6.0	2.0	5.0	Gravel	Phalaroides arundinacea, Fraxinus nigra, Caltha palustris	Tributary to Moose River	Perennial	None
Cass	CA163cWB	7/10/2013	0.0	0.0	0.0	6.0	2.0	5.0	Gravel	Phalaris arundinacea, Fraxinus nigra, Caltha palustris, Alnus incana, Salix sp.	Tributary to Moose River	Perennial	None
Cass	CA166aWB	7/11/2013	0.0	0.0	0.0	8.0	0.5	3.0	Gravel	Carex intumescens, Fraxinus nigra, Acer rubrum	Unnamed Stream	Intermittent	None
Cass	CAC5001_540aWB	9/20/2014	0.0	4.0	4.0	10.0	0.5	8.0	Muck	Carex lacustris, Salix petiolaris, Phalaris arundinacea	Unnamed Ditch	Intermittent	None
Cass	CAC5001_540bWB	9/20/2014	0.0	4.0	4.0	10.0	3.0	3.0	Muck	Phalaris arundinacea, Carex lacustris, Alnus incana	Unnamed Ditch	Intermittent	None
Cass	CAC5001aWB	8/20/2013	0.1	2.0	2.0	2.4	2.4	7.0	Sand	Phalaris arundinacea	Unnamed Stream	Perennial	None
Cass	CAC5004aWB	8/21/2013	0.0	1.5	1.5	3.0	0.5	16.0	Silt	Phalaris arundinacea	Unnamed Ditch	Perennial	None
Cass	CAC5006aWB	9/19/2014	0.0	3.0	3.0	8.0	1.5	5.0	Muck	Phalaris arundinacea, Calamagrostis canadensis, Carex lacustris	Unnamed Ditch	Intermittent	None
Cass	CAC5007aWB	8/21/2013	0.0	6.0	6.0	42.0	5.0	42.0	Silt	Carex lacustris, Typha sp., Calamagrostis canadensis	Big Swamp Creek	Perennial	Public Water
Cass	CAC5009aWB	8/21/2013	0.0	1.0	1.0	12.0	1.0	12.0	Silt	Salix petiolaris, Carex lacustris, Solidago gigantea	Unnamed Ditch	Intermittent	None
Cass	CAC5010aWB	8/20/2013	0.5	2.0	2.0	4.0	1.0	3.0	Sand	Phalaris arundinacea, Solidago gigantea, Carex lacustris, Salix discolor	Unnamed Stream	Perennial	None
Cass	CAC5160aWB	6/25/2013	0.5	0.0	0.0	2.0	1.0	2.0	Silt	Phalaris arundinacea, Fraxinus nigra, Carex lacustris, Impatiens capensis, Onoclea sensibilis	Unnamed Stream	Perennial	None

County	Feature ID	Survey Date	Flow Rate (m/s)	Left Bank Height (ft)	Right Bank Height (ft)	Top of Bank Width (ft)	OHWL Height (ft)	OHWL Width (ft)	Substrate	Dominant Riparian Vegetation	Waterbody Name	Flow Regime	Agency Designation
Cass	CAC5161aWB	6/24/2013	0.3	0.0	0.0	8.0	4.0	8.0	Silt	Carex lacustris, Carex stricta, Typha sp.	Unnamed Stream	Perennial	None
Cass	s-139n25w18-aa	7/27/2016	2.0	1.0	1.0	2.0	0.5	1.0	Coarse sand	Phalaris arundinacea, Alnus incana, Salix petiolaris	Unnamed Stream	Intermittent	None
Cass	s-139n25w18-ab	8/2/2016	1.0	0.5	0.5	1.0	0.5	1.0	Medium sand	Phalaris arundinacea, Alnus incana, Impatiens capensis	Unnamed Stream	Intermittent	None
Cass	s-139n25w18-ac	8/2/2016	1.0	0.5	0.5	2.0	1.0	2.0	Medium sand	Phalaris arundinacea, Alnus incana, Impatiens capensis	Unnamed Stream	Intermittent	None
Cass	s-139n25w4-aa	8/3/2016	1.0	1.0	1.0	3.0	2.0	3.0	Medium sand	Phalaris arundinacea, Alnus incana, Fraxinus nigra	Unnamed Stream	Intermittent	None
Cass	s-139n25w5-aa	8/4/2016	2.0	1.0	1.0	3.0	1.0	3.0	Medium sand	Phalaris arundinacea, Alnus incana, Ulmus americana	Unnamed Stream	Intermittent	None
Cass	s-139n26w14-a	7/8/2015	0.3	4.0	4.0	6.0	0.5	4.0	Gravel	Fraxinus nigra	Unnamed Stream	Perennial	None
Clearwater	CL004aWB	7/8/2015	0.0	1.0	1.5	3.5	0.5	2.0	Clay	Fraxinus pennsylvanica, Cornus alba, Salix bebbiana	Unnamed Ditch	Ephemeral	None
Clearwater	CL006aWB	6/7/2013	0.0	2.0	2.0	12.0	3.0	12.0	Silt	Phalaris arundinacea, Taraxacum officinale, Typha angustifolia	Unnamed Stream	Intermittent	None
Clearwater	CL007aWB	6/24/2013	0.0	1.0	1.0	20.0	3.0	12.0	Gravel	Typha sp. Carex atherodes, Salix interior	Unnamed Stream	Intermittent	None
Clearwater	CL009aWB	6/24/2013	0.4	4.0	4.0	20.0	4.0	20.0	Gravel	Phalaris arundinacea; Hippuris vulgaris	Lost River	Perennial	None
Clearwater	CL016_300aWB	10/2/2013	0.2	6.0	6.0	7.0	7.0	8.0	Gravel	Phalaris arundinacea	Silver Creek	Perennial	None
Clearwater	CL018bWB	5/31/2013	0.5	4.0	4.0	20.0	3.0	12.0	Gravel	Scirpus sp., Poa pratensis, Salix sp.	Silver Creek	Perennial	303d Impaired, Public Water
Clearwater	CL019aWB	6/1/2013	1.0	3.5	4.0	25.0	3.5	25.0	Gravel	Fraxinus pennsylvanica	Silver Creek	Perennial	None
Clearwater	CL019bWB	6/1/2013	1.5	8.0	6.0	22.0	8.0	22.0	Gravel	Poa pratensis, Salix interior, Carex lacustris	Silver Creek	Perennial	303d Impaired, Public Water
Clearwater	CL020aWB	8/22/2013	0.0	1.5	1.5	1.5	1.5	1.5	Silt	Agrostis gigantea, Phalaris arundinacea	Unnamed Ditch	Intermittent	None
Clearwater	CL022_200aWB	9/7/2013	0.0	1.5	1.5	2.0	1.0	8.0	Silt	Phalaris arundinacea	Unnamed Stream	Perennial	None
Clearwater	CL022_200bWB	9/7/2013	0.2	1.0	1.0	10.0	0.3	4.0	Silt	Phalaris arundinacea	Unnamed Stream	Perennial	None
Clearwater	CL023_202aWB	9/7/2013	0.4	2.0	2.0	10.0	1.0	8.0	Silt	Phalaris arundinacea	Unnamed Ditch	Intermittent	None
Clearwater	CL024_905STaWB	10/4/2013	0.0	1.5	1.5	11.0	0.5	8.0	Clay	Typha x glauca, Phalaris arundinacea	Unnamed Ditch	Intermittent	None
Clearwater	CLC5001aWB	9/5/2013	0.0	1.0	1.0	3.0	1.0	3.0	Sand	Fraxinus nigra	Unnamed Stream	Perennial	None
Clearwater	CLC5004aWB	7/10/2015	0.0	4.0	4.0	10.0	1.0	3.0	Very fine sand	Phalaris arundinacea	Unnamed Ditch	Ephemeral	None
Clearwater	CLC5005aWB	6/28/2013	0.1	6.0	6.0	10.0	0.5	7.0	Clay	Salix petiolaris, Rosa blanda	Unnamed Stream	Intermittent	None
Clearwater	CLC5018aWB	7/13/2013	0.0	1.0	1.0	3.0	1.0	3.0	Silt	Phalaris arundinacea, Impatiens capensis, Carex lacustris, Fraxinus pennsylvanica, Ulmus americana	Unnamed Stream	Ephemeral	None
Clearwater	CLC5020_300aWB	9/5/2013	0.0	1.0	1.0	6.0	0.5	3.0	Sand	Laportea canadensis, ,	Unnamed Stream	Ephemeral	None
Clearwater	CLC5026aWB	7/8/2013	0.0	1.0	1.0	3.0	1.0	3.0	Sand	Carex lacustris, Carex utriculata, Phalaris arundinacea, Carex stipata, Persicaria amphibia	Unnamed Stream	Ephemeral	None



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Clearwater	CLC5037aWB	9/6/2013	0.0	2.0	2.0	42.0	2.0	42.0	Silt	Calamagrostis canadensis, Typha latifolia	Clearwater River	Perennial	303d Impaired, NRI, Public Water
Clearwater	CLC5038aWB	9/7/2013	0.0	1.5	1.5	12.0	2.0	12.0	Silt	Phalaris arundinacea, Typha latifolia	Tributary of Clearwater River	Intermittent	None
Clearwater	CLC5048aWB	9/7/2013	0.0	0.5	0.5	20.0	5.0	20.0	Silt	Typha sp. Calamagrostis canadensis, Carex lacustris	Walker Brook	Perennial	303d Impaired, Public Water
Clearwater	CLC5049_400aWB	10/14/2015	0.0	1.0	1.0	1.5	0.5	1.0	Silt	Poa pratensis, Fragaria virginiana, Bromus inermis	Unnamed Ditch	Intermittent	None
Clearwater	CLC5049aWB	9/11/2013	0.1	1.0	1.0	6.0	0.5	6.0	Sand	Abies balsamea, Impatiens capensis, Fraxinus nigra	Unnamed Stream	Ephemeral	None
Clearwater	CLC5051aWB	7/15/2013	0.3	0.5	0.5	8.0	4.0	10.0	Silt	Carex lacustris	Unnamed Stream	Perennial	Public Water
Clearwater	CLC5062aWB	7/13/2013	0.0	0.5	0.5	2.0	0.5	2.0	Sand	Impatiens capensis, Cicutula maculata	Unnamed Stream	Ephemeral	None
Clearwater	CLC5074aWB	9/13/2013	0.0	3.0	3.0	7.0	4.0	8.0	Silt	Bidens spp, Scirpus spp, Equisetum fluviatile, Typha sp.	Unnamed Stream	Perennial	None
Clearwater	CLC5085_210aWB	7/19/2013	0.0	0.5	1.0	4.0	2.0	3.5	Sand	Fraxinus nigra, Phalaris arundinacea, Populus balsamifera, Solidago gigantea, Carex utriculata	Unnamed Ditch	Intermittent	None
Clearwater	CLC5092aWB	6/5/2014	1.3	2.5	3.5	8.0	3.5	8.0	Sand	Phalaris arundinacea, Carex stricta, Urtica dioica	Unnamed Ditch	Intermittent	None
Clearwater	CLC5095aWB	7/22/2013	0.5	4.5	4.5	15.0	3.5	15.0	Sand	Phalaris arundinacea, Solidago gigantea, Carex lacustris	Bear Creek	Perennial	Public Water
Clearwater	CLC5098aWB	7/22/2013	0.8	4.5	4.5	13.0	3.5	12.5	Sand	Calamagrostis canadensis, Phalaris arundinacea	Mississippi River	Perennial	303d Impaired, Canoe Route, ORVW, Public Water
Clearwater	CLC5102aWB	7/7/2015	0.0	6.0	6.0	3.0	0.5	2.0	Silt	Toxicodendron rydbergii	Unnamed Ditch	Ephemeral	None
Clearwater	CLC5103aWB	7/7/2015	0.0	0.5	0.6	4.0	0.3	2.0	Silt	Athyrium angustum	Unnamed Stream	Ephemeral	None
Clearwater	CLC5113aWB	7/20/2013	0.0	2.0	2.0	2.5	0.5	1.0	Sand	Pinus resinosa	Unnamed Stream	Ephemeral	None
Clearwater	CLC5113bWB	6/13/2014	0.0	0.5	0.3	2.0	0.5	2.0	Gravel	Populus tremuloides, Anemone quinquefolia, Carex pensylvanica	Unnamed Stream	Ephemeral	None
Clearwater	CLC5122aWB	8/29/2015	0.5	0.5	1.0	1.5	0.3	1.0	Medium sand	Mitella nuda, Circaea alpina, Equisetum pratense	Unnamed Stream	Intermittent	None
Clearwater	CLC5122bWB	9/1/2015	0.3	4.0	4.0	12.0	2.0	10.0	Medium sand	Sparganium emersum	LaSalle Creek	Perennial	None
Clearwater	s-144n35w19-a	10/21/2015	0.1	5.0	5.0	12.0	5.0	12.0	Silt	Calamagrostis canadensis, Carex stricta, Solidago gigantea	LaSalle Creek	Perennial	None
Clearwater	s-144n36w14-a	10/21/2015	0.0	0.5	0.5	2.0	1.0	2.0	Clay	Fraxinus nigra, Urtica dioica, Osmundastrum cinnamomeum	Unnamed Stream	Ephemeral	None
Clearwater	s-144n36w14-b	10/21/2015	0.0	0.5	0.5	1.0	0.5	1.5	Silt	Salix bebbiana, Onoclea sensibilis, Cornus racemosa	Unnamed Stream	Ephemeral	None
Clearwater	s-145n36w15-a	7/17/2015	0.0	2.0	1.0	4.0	1.0	3.0	Silt	Solidago gigantea, Toxicodendron rydbergii, Bromus inermis	Unnamed Ditch	Intermittent	None

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Clearwater	s-146n36w10-a	6/16/2017	0.0	4.0	5.0	15.0	2.5	12.0	Silt	<i>Poa pratensis</i> , <i>Arisaema triphyllum</i> , <i>Phalaris arundinacea</i>	Unnamed Stream	Intermittent	None
Clearwater	s-146n36w14-a	6/15/2017	1.0	4.0	4.0	6.0	3.0	4.0	Medium sand	<i>Phalaris arundinacea</i> , <i>Acer negundo</i> , <i>Populus tremuloides</i>	Unnamed Stream	Perennial	None
Clearwater	s-146n36w15-a	6/16/2017	1.0	5.0	5.0	15.0	3.0	9.0	Medium sand	<i>Fraxinus nigra</i> , <i>Alnus incana</i> , <i>Populus tremuloides</i>	Unnamed Stream	Perennial	Public Water
Clearwater	s-146n36w15-b	7/28/2018	0.5	4.0	4.0	10.0	3.0	8	Muck	<i>Phalaris arundinacea</i> , <i>Calamagrostis canadensis</i> , <i>Salix bebbiana</i>	Unnamed Stream	Perennial	None
Clearwater	s-146n36w23-a	6/15/2017	1.0	4.0	4.0	6.0	3.0	4.0	Medium sand	<i>Phalaris arundinacea</i> , <i>Alnus incana</i> , <i>Salix bebbiana</i>	Unnamed Stream	Perennial	None
Clearwater	s-146n36w23-b	6/15/2017	1.0	3.0	3.0	10.0	2.0	6.0	Medium sand	<i>Alnus incana</i> , <i>Phalaris arundinacea</i> , <i>Salix petiolaris</i>	Unnamed Stream	Perennial	Public Water
Clearwater	s-146n36w8-a	6/16/2017	0.5	6.0	6.0	18.0	4.0	7.0	Clay	<i>Lemna minor</i> , <i>Carex stricta</i> , <i>Phalaris arundinacea</i>	Walker Brook	Perennial	Public Water
Clearwater	s-146n36w8-b	6/17/2017	0.0	4.0	4.0	4.0	0.5	1.0	Boulder	<i>Acer saccharum</i> , <i>Populus tremuloides</i> , <i>Aralia nudicaulis</i>	Unnamed Stream	Ephemeral	None
Clearwater	s-146n36w8-c	6/17/2017	0.0	4.0	4.0	6.0	0.5	1.0	Cobble	<i>Acer saccharum</i> , <i>Corylus cornuta</i> , <i>Populus tremuloides</i>	Unnamed Stream	Ephemeral	None
Clearwater	s-146n36w8-d	6/17/2017	0.0	2.0	2.0	4.0	0.3	1.0	Fine sand	<i>Acer saccharum</i> , <i>Populus tremuloides</i> , <i>Aralia nudicaulis</i>	Unnamed Stream	Ephemeral	None
Clearwater	s-146n37w2-a	10/23/2015	0.0	2.0	3.0	9.0	4.0	8.0	Medium sand	<i>Calamagrostis canadensis</i> , <i>Carex lacustris</i> , <i>Typha X glauca</i>	Unnamed Stream	Intermittent	None
Clearwater	s-147n37w35-a	10/15/2015	0.0	1.0	1.0	4.0	0.5	3.0	Silt	<i>Abies balsamea</i> , <i>Picea glauca</i> , <i>Eurybia macrophylla</i>	Unnamed Stream	Ephemeral	None
Clearwater	s-148n37w17-a	7/16/2015	0.0	1.0	1.0	3.0	0.5	1.0	Silt	<i>Phalaris arundinacea</i> , <i>Impatiens capensis</i> , <i>Urtica dioica</i>	Unnamed Stream	Ephemeral	None
Clearwater	s-148n37w20-a	6/20/2017	0.0	2.0	3.0	4.0	0.5	2.5	Clay	<i>Impatiens capensis</i> , <i>Carex woodii</i> , <i>Acer saccharum</i>	Unnamed Ditch	Intermittent	None
Clearwater	s-148n37w20-aa	7/16/2015	0.1	0.6	0.6	3.0	0.6	2.0	Silt	<i>Populus balsamifera</i> , <i>Salix eriocephala</i> , <i>Trifolium repens</i>	Unnamed Stream	Intermittent	None
Clearwater	s-148n37w20-b	6/20/2017	0.0	2.0	2.0	4.0	1.5	2.5	Clay	<i>Impatiens capensis</i> , <i>Carex woodii</i> , <i>Fraxinus nigra</i>	Unnamed Ditch	Intermittent	None
Clearwater	s-148n37w20-bb	7/16/2015	0.0	0.5	0.5	1.0	0.3	1.0	Silt	<i>Alopecurus pratensis</i> , <i>Salix bebbii</i> , <i>Agrostis gigantea</i>	Unnamed Stream	Ephemeral	None
Clearwater	s-148n37w29-a	7/17/2015	0.0	0.5	0.6	3.0	0.3	1.5	Silt	<i>Phalaris arundinacea</i> , <i>Populus tremuloides</i> , <i>Corylus cornuta</i>	Unnamed Ditch	Intermittent	None
Clearwater	s-148n37w29-b	7/17/2015	0.0	3.0	3.0	10.0	0.5	3.0	Silt	<i>Acer negundo</i> , <i>Cicuta maculata</i> , <i>Impatiens capensis</i>	Unnamed Stream	Ephemeral	None

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Clearwater	s-149n37w30-a	10/15/2014	0.3	6.0	6.0	16.0	2.0	12.0	Muck	Phalaris arundinacea, Scirpus microcarpus, Agrostis gigantea	Silver Creek	Perennial	303d Impaired, Public Water
Clearwater	s-149n37w30-b	10/15/2014	0.0	2.0	2.0	2.0	1.0	1.0	Clay	Phalaris arundinacea	Tributary to Silver Creek	Ephemeral	303d Impaired
Clearwater	s-149n37w32-a	10/6/2014	0.0	2.0	2.0	2.0	1.0	1.0	Gravel	Phalaris arundinacea, Carex cristatella, Agrostis gigantea	Unnamed Stream	Ephemeral	None
Clearwater	s-149n37w32-b	10/6/2014	0.0	2.0	2.0	8.0	1.0	8.0	Sand	Phalaris arundinacea, Typha angustifolia, Scirpus atrovirens	Unnamed Stream	Perennial	Public Water
Clearwater	s-149n37w32-c	10/6/2014	0.0	1.0	1.0	3.0	0.3	1.0	Clay	Phalaris arundinacea, Scirpus atrovirens	Unnamed Stream	Ephemeral	None
Clearwater	s-149n37w32-d	10/7/2014	0.0	2.0	2.0	4.0	1.0	3.0	Muck	Phalaris arundinacea, Carex lacustris	Unnamed Stream	Perennial	Public Water
Clearwater	s-149n37w34-a	7/10/2015	0.0	1.0	1.0	1.5	0.5	1.0	Clay	Equidatum hymale	Unnamed Stream	Intermittent	None
Clearwater	s-149n38w15-a	10/14/2014	0.1	3.0	7.0	30.0	3.0	18.0	Silt	Phalaris arundinacea, Schoenoplectus tabernaemontani, Sparganium eurycarpum	Lost River	Perennial	Public Water
Clearwater	s-149n38w15-b	10/14/2014	0.0	2.0	2.5	6.0	1.0	4.0	Muck	Phalaris arundinacea, Carex atherodes, Typha angustifolia	Lost River	Intermittent	Public Water
Clearwater	s-149n38w16-a	10/10/2014	0.0	4.5	4.0	18.0	2.0	8.0	Clay	Phalaris arundinacea, Carex spp.	Unnamed Stream	Intermittent	None
Clearwater	s-149n38w16-b	10/13/2014	0.0	0.5	0.5	3.0	0.5	3.0	Muck	Fraxinus nigra, Tilia americana, Carex pedunculata	Unnamed Stream	Ephemeral	None
Clearwater	s-149n38w16-c	10/10/2014	0.0	4.5	4.0	18.0	2.0	8.0	Clay	Phalaris arundinacea, Carex spp.	Unnamed Stream	Intermittent	None
Clearwater	s-149n38w23-aa	7/1/2016	0.0	1.0	1.0	6.0	0.5	3.0	Silt	Fraxinus pennsylvanica	Unnamed Stream	Intermittent	None
Clearwater	s-149n38w25-a	10/15/2014	0.0	1.0	1.0	2.0	0.5	2.0	Clay	Phleum pratense, Elymus repens, Poa pratensis	Unnamed Ditch	Intermittent	None
Clearwater	s-149n38w7-a	10/14/2014	0.0	2.5	2.5	5.0	2.0	3.0	Sand	Phalaris arundinacea, Carex lacustris	Unnamed Ditch	Intermittent	None
Clearwater	s-149n38w7-b	10/14/2014	0.0	3.0	3.0	5.0	2.0	2.0	Sand	Phalaris arundinacea	Unnamed Ditch	Intermittent	None
Clearwater	s-149n38w7-c	10/14/2014	0.0	2.5	2.5	8.0	1.0	5.0	Sand	Phalaris arundinacea, Scirpus pallidus	Unnamed Ditch	Intermittent	None
Clearwater	s-149n38w8-a	10/15/2014	0.0	4.0	4.0	8.0	1.0	3.0	Sand	None - Cultivated Field	Unnamed Ditch	Intermittent	Public Water
Clearwater	s-149n38w8-b	10/15/2014	0.0	4.0	2.0	10.0	1.0	7.0	Sand	Phalaris arundinacea, Solidago gigantea, Salix petiolaris	Unnamed Ditch	Intermittent	None
Clearwater	s-149n38w8-c	10/15/2014	0.0	3.0	3.0	8.0	1.0	5.0	Sand	Phalaris arundinacea, Salix bebbiana, Populus balsamifera	Unnamed Ditch	Intermittent	None
Clearwater	s-149n38w9-a	10/16/2014	0.0	6.0	6.0	18.0	1.5	7.0	Sand	Phalaris arundinacea, Carex pellita, Agrostis gigantea	Unnamed Ditch	Intermittent	None
Crow Wing	CW014aWB	8/5/2013	0.5	1.0	1.0	6.0	2.0	6.0	Gravel	Populus tremuloides, Fraxinus nigra	Unnamed Stream	Perennial	None

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Crow Wing	CW021aWB	8/7/2013	0.1	0.5	0.5	100.0	1.0	12.0	Sand	Leersia oryzoides, Eleocharis obtusa	Unnamed Stream	Perennial	None
Crow Wing	CW027aWB	8/8/2013	0.2	2.0	2.0	5.0	2.0	2.5	Sand	Phalaroides arundinacea, Leersia oryzoides, Calamagrostis canadensis	Unnamed Stream	Perennial	None
Hubbard	HUC5002aWB	7/22/2013	0.5	1.0	1.5	13.0	3.0	13.0	Sand	Calamagrostis canadensis, Carex lacustris, Carex stricta	La Salle Creek	Perennial	Aquatic Management Area, Public Water, Trout Stream
Hubbard	HUC5003aWB	8/29/2015	0.1	1.0	1.0	18.0	1.5	18.0	Medium sand	Sparganium emersum, Sagittaria latifolia, Carex utriculata	Unnamed Stream	Perennial	None
Hubbard	HUC5004aWB	8/31/2015	0.1	1.0	1.0	7.0	0.3	1.5	Medium sand	Persicaria hydropiper, Bidens tripartita	Unnamed Stream	Ephemeral	None
Hubbard	HUC5062aWB	8/30/2014	0.0	2.5	2.5	10.0	0.8	2.0	Silt	Phalaris arundinacea, Scirpus cyperinus, Poa palustris	Unnamed Stream	Ephemeral	None
Hubbard	HUC5070aWB	7/31/2013	0.1	2.0	2.0	4.0	3.0	6.0	Silt	Phalaris arundinacea, Poa palustris, Carex lacustris, Scirpus atrovirens	Unnamed Stream	Perennial	None
Hubbard	HUC5074aWB	7/30/2013	0.3	1.0	2.0	4.0	1.0	3.0	Sand	Phalaris arundinacea, Alnus incana, Fraxinus nigra	Unnamed Stream	Perennial	Public Water
Hubbard	HUC5081aWB	7/30/2013	0.0	0.0	0.0	0.0	0.0	0.0	Silt	Typha sp., Carex lacustris	Hay Creek	Perennial	Public Water
Hubbard	HUC5122_200aWB	8/1/2013	0.5	0.0	0.0	90.0	10.0	90.0	Silt	Typha sp., Glyceria grandis, Calamagrostis canadensis, Lemna sp.	Straight River	Perennial	303d Impaired, Public Water, Trout Stream
Hubbard	HUC5130aWB	8/3/2013	0.5	3.0	2.0	24.0	4.0	24.0	Sand	Sparganium eurycarpum, Phalaris arundinacea, Carex lacustris, Salix petiolaris	Shell River	Perennial	Public Water
Hubbard	HUC5162aWB	8/5/2013	0.5	5.0	5.0	20.0	5.0	20.0	Sand	Phalaris arundinacea, Carex lacustris	Shell River	Perennial	Public Water
Hubbard	HUC5175aWB	8/6/2013	0.1	9.0	9.0	70.0	6.0	60.0	Silt	Leersia oryzoides, Typha sp., Phalaris arundinacea, Calamagrostis canadensis	Shell River	Perennial	Public Water
Hubbard	HUC5179_240aWB	8/6/2013	0.5	7.0	7.0	75.0	5.0	70.0	Sand	Phalaris arundinacea	Oxbow Pond (Shell River)	Perennial	Public Water
Hubbard	HUC5202aWB	9/11/2013	0.5	7.5	7.5	60.0	7.5	60.0	Silt	Zizania spp., Schoenoplectus spp., Sagittaria latifolia	Crow Wing River	Perennial	303d Impaired, Canoe Route, Public Water
Hubbard	s-138n32w4-a	7/14/2015	0.0	9.0	8.0	42.0	5.0	35.0	Clay	Typha x glauca, Carex lacustris, Potamogeton spp.	Unnamed Ditch	Intermittent	None
Kittson	s-159n48w31-a	6/27/2014	0.1	0.5	0.5	1.5	1.5	6.0	Muck	Hordeum jubatum, Typha angustifolia, Eleocharis palustris, Eleocharis palustris	Unnamed Ditch	Intermittent	None
Kittson	s-159n49w15-a	7/29/2014	0.0	2.0	2.0	12.0	1.0	12.0	Clay	Typha angustifolia	Unnamed Ditch	Intermittent	None
Kittson	s-159n49w15-b	7/29/2014	0.0	2.0	2.0	12.0	1.0	12.0	Clay	Typha angustifolia	Unnamed Ditch	Intermittent	None
Kittson	s-159n49w23-a	7/1/2014	0.1	0.3	0.3	7.0	1.5	12.0	Clay	Hordeum jubatum, Typha angustifolia, Eleocharis palustris	Unnamed Ditch	Intermittent	None

County	Feature ID	Survey Date	Flow Rate (m/s)	Left Bank Height (ft)	Right Bank Height (ft)	Top of Bank Width (ft)	OHWL Height (ft)	OHWL Width (ft)	Substrate	Dominant Riparian Vegetation	Waterbody Name	Flow Regime	Agency Designation
Kittson	s-159n49w23-b	7/2/2014	0.2	3.0	3.0	20.0	6.0	30.0	Muck	Typha x glauca, Typha angustifolia, Eleocharis palustris	Unnamed Ditch	Intermittent	None
Kittson	s-159n49w25-a	6/28/2014	0.0	2.0	2.0	15.0	5.0	20.0	Muck	Typha angustifolia, Typha x glauca	Unnamed Ditch	Intermittent	None
Kittson	s-159n49w25-b	6/28/2014	0.0	2.0	2.0	15.0	5.0	20.0	Muck	Typha angustifolia, Typha x glauca	Unnamed Ditch	Intermittent	None
Kittson	s-159n49w26-a	6/30/2014	0.1	0.3	0.3	10.0	0.3	0.3	Clay	Spartina pectinata, Schoenoplectus maritimus, Eleocharis palustris	Unnamed Ditch	Intermittent	None
Kittson	s-159n49w36-a	6/27/2014	0.3	6.0	6.0	20.0	6.0	20.0	Clay	Spartina pectinata, Symphoricarpos occidentalis, Phragmites australis	Judicial Ditch 10	Intermittent	Public Water
Kittson	s-159n49w4-a	7/1/2014	0.0	3.0	3.0	8.0	1.0	3.0	Silt	Phalaris arundinacea	Unnamed Ditch	Ephemeral	None
Kittson	s-159n49w4-b	7/1/2014	0.3	3.0	3.0	11.0	0.8	3.0	Clay	Phalaris arundinacea, Typha angustifolia, Spartina pectinata	Unnamed Ditch	Intermittent	None
Kittson	s-159n49w9-a	7/7/2014	0.0	4.5	3.5	20.0	0.5	5.0	Silt	Phalaris arundinacea, Spartina pectinata, Bromus inermis, Typha angustifolia, Carex pellita	Unnamed Ditch	Intermittent	None
Kittson	s-159n49w9-b	7/30/2014	0.0	4.5	3.5	20.0	0.5	5.0	Silt	Phalaris arundinacea, Spartina pectinata, Bromus inermis, Typha angustifolia, Carex pellita	Unnamed Ditch	Intermittent	None
Kittson	s-160n49w32-a	7/1/2014	0.1	2.0	2.0	8.0	3.0	10.0	Clay	Eleocharis palustris, Alisma triviale, Typha angustifolia, Symphyotrichum lanceolatum	Unnamed Ditch	Intermittent	None
Kittson	s-160n49w32-b	7/1/2014	0.3	0.8	1.0	8.0	0.3	2.5	Clay	Typha X glauca, Typha latifolia, Rumex stenophyllus, Agrostis gigantea	Unnamed Ditch	Intermittent	None
Kittson	s-160n50w10-a	6/27/2014	0.5	2.0	1.3	12.0	0.5	3.5	Clay	None - Cultivated Field	Unnamed Ditch	Intermittent	None
Kittson	s-160n50w15-a	6/28/2014	0.3	0.8	0.8	6.0	0.8	10.0	Clay	Phalaris arundinacea, Typha X glauca	Unnamed Stream	Ephemeral	None
Kittson	s-160n50w15-b	6/30/2014	0.3	1.5	2.0	4.0	2.5	8.0	Clay	Phalaris arundinacea, Rumex stenophyllus, Hordeum jubatum	Unnamed Stream	Ephemeral	None
Kittson	s-160n50w23-a	7/29/2014	0.2	4.5	7.0	25.0	3.0	12.0	Clay	Bolboschonus fluviatilis, Persicaria amphibia, Sagittaria latifolia	Unnamed Stream	Perennial	Public Water
Kittson	s-160n50w25-a	6/23/2014	0.0	1.0	1.0	3.0	1.0	3.0	Clay	Phalaris arundinacea, Lysimachia ciliata, Cirsium arvense	Unnamed Ditch	Intermittent	None
Kittson	s-160n50w25-b	6/23/2014	0.1	1.0	1.0	2.5	1.3	3.0	Clay	Phalaris arundinacea, Elymus trachycaulus, Rumex crispus	Unnamed Ditch	Intermittent	None

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Kittson	s-160n50w9-b	7/7/2015	0.1	5.0	5.0	12.0	3.0	9.0	Clay	Phalaris arundinacea, Bromus inermis, Asclepias syriaca	Unnamed Ditch	Intermittent	None
Kittson	s-160n50w9-c	7/7/2015	0.1	4.0	4.0	10.0	1.0	8.0	Clay	Phalaris arundinacea, Hordeum jubatum, Ambrosia trifida	Unnamed Ditch	Intermittent	None
Marshall	s-154n45w11-a	7/24/2014	0.0	5.0	2.0	17.0	0.5	6.0	Clay	Spartina pectinata, Phalaris arundinacea, Alopecurus arundinaceus	Unnamed Ditch	Intermittent	None
Marshall	s-154n45w11-b	9/25/2014	0.0	4.0	6.0	20.0	1.5	8.0	Clay	Typha X glauca, Typha angustifolia, Phalaris arundinacea	Unnamed Ditch	Intermittent	None
Marshall	s-154n45w2-a	9/25/2014	0.0	5.0	5.0	12.0	0.5	3.0	Clay	Juncus torreyi, Typha angustifolia	Unnamed Ditch	Intermittent	None
Marshall	s-155n45w21-a	8/22/2014	0.3	0.5	0.3	2.5	0.5	1.0	Sand	Agrostis gigantea, Poa pratensis, Trifolium repens	Unnamed Ditch	Intermittent	None
Marshall	s-155n45w21-b	8/22/2014	0.3	0.5	0.3	2.5	0.5	1.0	Sand	Agrostis gigantea, Poa pratensis, Trifolium repens	Unnamed Ditch	Intermittent	None
Marshall	s-155n45w28-a	8/25/2014	0.3	7.0	8.0	24.0	5.0	20.0	Sand	Phalaris arundinacea, Acer negundo, Solidago gigantea	South Branch Snake River	Perennial	Public Water
Marshall	s-155n45w28-b	9/18/2014	0.0	1.5	1.0	23.0	0.5	3.0	Clay	Chenopodium glaucum, Setaria pumila, Artemisia biennis	Unnamed Stream	Ephemeral	None
Marshall	s-155n45w28-c	9/22/2014	0.0	5.0	5.0	10.0	0.5	4.0	Clay	Typha angustifolia, Eleocharis palustris, Spartina pectinata	Unnamed Ditch	Intermittent	None
Marshall	s-155n45w33-a	9/22/2014	0.0	8.0	8.0	25.0	2.0	10.0	Sand	Typha X glauca, Phalaris arundinacea, Bromus inermis, Asclepias syriaca	Unnamed Ditch	Intermittent	None
Marshall	s-155n45w34-a	9/23/2014	0.0	0.5	0.5	8.0	0.3	0.0	Clay	Glycine max	Unnamed Stream	Ephemeral	None
Marshall	s-155n45w34-b	9/24/2014	0.0	1.5	1.5	36.0	0.5	6.0	Silt	Phalaris arundinacea, Typha angustifolia, Beckmannia syzigachne	Unnamed Stream	Ephemeral	None
Marshall	s-155n45w34-c	9/24/2014	0.0	1.0	1.0	3.0	0.5	2.0	Clay	Typha angustifolia, Spartina pectinata, Phalaris arundinacea	Unnamed Ditch	Intermittent	None
Marshall	s-155n45w34-d	9/24/2014	0.0	2.0	2.0	25.0	0.5	2.0	Sand	Triticum aestivum, Beckmannia syzigachne, Echinochloa crus-galli	Unnamed Stream	Ephemeral	None
Marshall	s-155n46w12-a	8/1/2014	1.0	12.0	12.0	30.0	0.5	25.0	Clay	Phalaris arundinacea, Carex retrorsa	Snake River	Perennial	303d Impaired, Public Water
Marshall	s-155n46w1-a	8/1/2014	0.0	0.5	0.5	2.0	0.5	2.0	Clay	Hordeum jubatum, Persicaria pennsylvanica, Rumex stenophyllus, Barbarea vulgaris	Unnamed Ditch	Intermittent	None
Marshall	s-155n46w4-a	9/17/2014	0.0	2.0	2.0	18.0	0.5	8.0	Sand	Phalaris arundinacea, Melilotus officinalis, Juncus torreyi	Unnamed Ditch	Intermittent	None

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Marshall	s-156n46w17-a	8/14/2014	0.0	2.0	2.0	20.0	1.0	10.0	Clay	Phalaris arundinacea, Beckmannia syzigachne, Sium suave	Unnamed Ditch	Intermittent	None
Marshall	s-156n46w20-a	8/14/2014	0.0	3.0	1.5	25.0	1.0	10.0	Sand	Phalaris arundinacea, Typha X glauca, Alisma triviale	Unnamed Ditch	Intermittent	None
Marshall	s-156n46w20-b	8/15/2014	0.0	3.0	3.0	30.0	2.0	15.0	Gravel	Phalaris arundinacea, Salix eriocephala, Typha angustifolia	Unnamed Ditch	Intermittent	None
Marshall	s-156n46w20-e	7/7/2015	0.0	3.0	1.5	25.0	1.0	10.0	Sand	Phalaris arundinacea, Typha X glauca, Alisma triviale	Unnamed Ditch	Intermittent	None
Marshall	s-156n46w21-a	8/15/2014	0.0	2.0	4.0	26.0	1.5	9.0	Silt	Phalaris arundinacea, Typha angustifolia, Sium suave	Unnamed Ditch	Intermittent	None
Marshall	s-156n46w21-b	8/15/2014	0.0	3.0	3.0	37.0	1.0	8.0	Sand	Echinochloa crus-galli, Portulaca oleracea, Alisma triviale	Unnamed Stream	Ephemeral	None
Marshall	s-156n46w27-a	6/8/2015	0.0	8.0	3.0	30.0	1.5	14.0	Muck	Typha angustifolia	Unnamed Stream	Intermittent	None
Marshall	s-156n46w27-b	6/8/2015	0.0	0.5	1.0	3.0	0.5	2.5	Muck	Bromus inermis	Unnamed Stream	Intermittent	None
Marshall	s-156n46w28-a	6/24/2014	1.0	2.0	2.0	12.0	1.0	11.0	Sand	Phragmites australis, Rumex stenophyllus,	Unnamed Ditch	Intermittent	None
Marshall	s-156n46w28-b	6/24/2014	0.1	4.0	4.0	20.0	1.0	16.0	Sand	Phalaris arundinacea, Typha angustifolia, Salix petiolaris	Unnamed Ditch	Intermittent	None
Marshall	s-156n46w34-a	6/4/2015	0.0	1.5	1.5	7.0	1.0	5.0	Muck	Phalaris arundinacea	Unnamed Stream	Intermittent	None
Marshall	s-156n46w7-a	8/12/2014	0.0	3.0	7.0	25.0	1.0	7.0	Clay	Typha X glauca, Carex pellita, Eleocharis palustris	Unnamed Ditch	Intermittent	None
Marshall	s-156n46w7-b	8/12/2014	0.0	3.0	3.5	25.0	1.0	2.5	Sand	Hordeum jubatum, Juncus bufonius, Echinochloa crus-galli	Unnamed Ditch	Intermittent	None
Marshall	s-156n46w7-c	8/13/2014	0.3	12.0	11.0	45.0	2.0	30.0	Gravel	Phalaris arundinacea, Fraxinus pennsylvanica, Salix interior	Middle River	Perennial	303d Impaired, Public Water
Marshall	s-156n46w7-d	8/13/2014	0.0	4.0	6.0	35.0	0.5	20.0	Clay	Typha X glauca, Agrostis gigantea, Poa pratensis	Unnamed Ditch	Intermittent	None
Marshall	s-156n47w12-a	8/12/2014	0.0	7.0	3.0	20.0	1.5	11.0	Clay	Phalaris arundinacea, Poa palustris, Typha angustifolia	Unnamed Ditch	Intermittent	None
Marshall	s-156n47w1-a	8/4/2014	0.0	2.0	3.0	15.0	1.0	10.0	Clay	Phalaris arundinacea, Spartina pectinata, Typha angustifolia	Unnamed Ditch	Intermittent	None
Marshall	s-156n47w1-b	8/5/2014	0.0	1.0	1.0	32.0	0.4	7.0	Clay	Leptochloa fusca, Persicaria hydropiper, Beckmannia syzigachne	Unnamed Stream	Ephemeral	None
Marshall	s-157n47w16-a	7/30/2014	1.0	15.0	15.0	30.0	5.0	25.0	Clay	Phalaris arundinacea	Tamarac River	Perennial	303d Impaired, Public Water
Marshall	s-157n47w16-b	7/30/2014	0.5	15.0	15.0	30.0	3.0	25.0	Sand	Salix interior, Anenome canadensis	Tamarac River	Perennial	303d Impaired, Public Water
Marshall	s-157n47w16-c	8/19/2014	0.0	4.5	4.0	10.0	2.5	3.0	Sand	Carex emoryi, Phalaris arundinacea, Urtica dioica	Tamarac River	Intermittent	303d Impaired, Public Water

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Marshall	s-157n47w16-d	8/29/2014	0.3	10.0	10.0	50.0	6.0	40.0	Sand	Carex emoryi, Phalaris arundinacea, Eleocharis palustris	Tamarac River	Perennial	303d Impaired, Public Water
Marshall	s-157n47w21-a	7/13/2015	0.0	5.0	5.0	20.0	2.0	20.0	Clay	Phalaris arundinacea	Unnamed Ditch	Intermittent	None
Marshall	s-157n47w26-a	7/31/2014	0.5	3.0	7.0	10.0	1.5	4.0	Clay	Phalaris arundinacea, Typha X glauca, Sium suave	Unnamed Ditch	Intermittent	None
Marshall	s-157n47w26-b	7/31/2014	0.0	1.0	1.0	15.0	0.5	10.0	Silt	Typha X glauca, Alisma triviale, Spartina pectinata, Beckmannia syzigachne	Unnamed Ditch	Intermittent	None
Marshall	s-157n47w26-c	8/1/2014	0.5	3.0	7.0	10.0	1.5	4.0	Clay	Phalaris arundinacea, Typha X glauca, Sium suave	Unnamed Ditch	Ephemeral	None
Marshall	s-157n47w26-d	8/1/2014	0.0	3.0	3.0	15.0	0.5	8.0	Clay	Typha X glauca, Typha angustifolia, Poa palustris	Unnamed Stream	Intermittent	None
Marshall	s-157n47w26-e	8/1/2014	0.0	1.0	1.0	13.0	0.3	8.0	Sand	Echinochloa crus-galli, Rumex stenophyllus, Beckmannia syzigachne	Unnamed Stream	Ephemeral	None
Marshall	s-157n47w27-a	7/31/2014	0.5	3.0	7.0	10.0	1.5	4.0	Clay	Phalaris arundinacea, Typha X glauca, Sium suave	Unnamed Stream	Ephemeral	None
Marshall	s-157n47w27-b	7/31/2014	0.0	2.0	1.5	12.0	0.5	6.0	Silt	Phalaris arundinacea, Alopecurus arundinaceus, Typha X glauca	Unnamed Stream	Ephemeral	None
Marshall	s-157n47w36-a	8/4/2014	0.0	5.0	3.0	19.0	1.5	10.0	Sand	Phalaris arundinacea, Sium suave, Typha X glauca	Unnamed Ditch	Intermittent	None
Marshall	s-157n47w36-b	8/4/2014	0.0	1.5	2.0	11.0	0.5	4.0	Sand	Echinochloa crus-galli, Beckmannia syzigachne, Epilobium coloratum	Unnamed Ditch	Intermittent	None
Marshall	s-157n47w6-a	7/29/2014	0.0	1.0	1.0	5.0	0.5	3.0	Clay	Phalaris arundinacea, Apocynum cannabinum	Unnamed Ditch	Intermittent	None
Marshall	s-157n47w6-b	7/29/2014	0.0	3.0	3.0	8.0	1.0	1.0	Clay	Phalaris arundinacea, Typha angustifolia	Unnamed Ditch	Intermittent	None
Marshall	s-157n47w8-a	7/30/2014	0.0	1.0	1.0	2.0	0.5	0.5	Clay	Phalaris arundinacea, Typha angustifolia, Rumex stenophyllus	Unnamed Ditch	Intermittent	None
Marshall	s-158n48w22-a	6/26/2014	0.5	5.0	5.0	12.0	12.0	4.0	Clay	Phragmites australis, Typha angustifolia, Phalaris arundinacea	Unnamed Ditch	Intermittent	None
Marshall	s-158n48w22-b	6/26/2014	0.5	1.0	1.0	8.0	0.5	8.0	Clay	Bromus inermis	Unnamed Ditch	Intermittent	None
Marshall	s-158n48w35-a	6/26/2014	0.0	5.0	5.0	6.0	2.0	1.0	Silt	Phalaris arundinacea	Unnamed Ditch	Intermittent	None
Marshall	s-158n48w36-a	6/26/2014	0.0	5.0	5.0	10.0	2.0	10.0	Silt	Phalaris arundinacea	Unnamed Ditch	Intermittent	None
Marshall	s-158n48w6-a	6/24/2014	0.3	4.5	4.5	20.0	4.5	20.0	Clay	Phalaris arundinacea, Typha x glauca, Bromus inermis	Judicial Ditch 3	Intermittent	None
Pennington	s-152n43w14-a	10/1/2014	0.0	3.0	2.5	18.0	1.0	3.0	Clay	Artemesia biennis, Elymus repens, Cirsium arvense	Unnamed Ditch	Intermittent	None
Pennington	s-152n43w14-b	10/1/2014	0.0	3.0	5.0	24.0	2.0	12.0	Sand	Typha angustifolia, Panicum virgatum, Setaria pumila	Unnamed Ditch	Intermittent	Public Water
Pennington	s-152n43w14-c	10/1/2014	0.0	12.0	12.0	35.0	5.0	18.0	Sand	Phalaris arundinacea, Symphyotrichum lanceolatum, Alisma triviale	Unnamed Ditch	Intermittent	None



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Pennington	s-152n43w23-a	10/8/2014	0.0	2.0	2.0	6.0	1.0	2.0	Clay	Phalaris arundinacea, Echinochloa crus-galli, Gratiola neglecta	Unnamed Stream	Ephemeral	None
Pennington	s-152n43w24-a	10/8/2014	0.0	2.0	2.0	5.0	0.5	2.0	Clay	Carex pellita, Phalaris arundinacea	Unnamed Ditch	Intermittent	None
Pennington	s-152n43w24-b	10/8/2014	0.0	3.0	3.0	9.0	1.0	6.0	Muck	Typha angustifolia, Phalaris arundinacea, Carex pellita	Unnamed Ditch	Intermittent	None
Pennington	s-152n43w4-a	9/27/2014	0.0	20.0	20.0	40.0	1.0	12.0	Silt	Typha X glauca, Phalaris arundinacea, Schoenoplectus tabernaemontani	Unnamed Ditch	Intermittent	None
Pennington	s-153n43w18-a	7/9/2015	0.0	7.0	7.0	25.0	1.5	12.0	Muck	Typha X glauca, Phalaris arundinacea, Carex pellita	Unnamed Ditch	Intermittent	None
Pennington	s-153n43w19-a	10/1/2014	0.0	5.0	5.0	15.0	1.0	3.0	Clay	Carex pellita, Phalaris arundinacea, Apocynum cannabinum	Unnamed Ditch	Intermittent	None
Pennington	s-153n43w19-b	10/1/2014	0.0	6.0	6.0	20.0	1.5	8.0	Clay	Carex pellita, Phalaris arundinacea, Typha X glauca	Unnamed Ditch	Intermittent	None
Pennington	s-153n43w20-a	10/1/2014	0.0	6.0	3.0	20.0	2.0	10.0	Muck	Phalaris arundinacea, Typha X glauca	Unnamed Ditch	Intermittent	None
Pennington	s-153n43w29-a	9/24/2014	0.1	12.0	6.0	230.0	2.0	215.0	Clay	Phalaris arundinacea, Carex emoryi	Red Lake River	Perennial	303d Impaired, Canoe Route, Public Water
Pennington	s-153n43w32-a	9/25/2014	0.0	30.0	30.0	100.0	2.0	10.0	Sand	Phalaris arundinacea, Spartina pectinata	Unnamed Ditch	Intermittent	None
Pennington	s-153n43w32-aa	8/7/2018	1.0	15.0	15.0	150.0	4.0	100	Gravel	Phalaris arundinacea, Scirpus atrovirens, Solidago gigantea	Red Lake River	Perennial	PWI, Impaired, Canoe Route, NRI
Pennington	s-153n43w33-a	9/26/2014	0.0	4.0	3.0	18.0	1.0	3.0	Clay	Phalaris arundinacea, Beckmannia syzigachne	Unnamed Ditch	Intermittent	None
Pennington	s-153n44w11-a	9/30/2014	0.1	20.0	20.0	40.0	3.0	10.0	Muck	Typha X glauca, Phalaris arundinacea, Lemna minor	Unnamed Ditch	Intermittent	None
Pennington	s-153n44w13-a	10/1/2014	0.0	8.0	8.0	40.0	4.0	25.0	Muck	Typha X glauca, Phalaris arundinacea	Unnamed Ditch	Intermittent	None
Pennington	s-153n44w13-b	7/9/2015	0.0	7.0	7.0	40.0	1.0	10.0	Silt	Typha X glauca, Phalaris arundinacea	Unnamed Ditch	Intermittent	None
Pennington	s-153n44w3-a	9/27/2014	0.1	12.0	12.0	30.0	4.0	15.0	Muck	Phalaris arundinacea, Typha X glauca, Lysimachia ciliatus	Unnamed Ditch	Intermittent	None
Pennington	s-154n44w18-a	9/25/2014	0.0	4.0	4.0	14.0	2.0	10.0	Clay	Typha angustifolia, Phalaris arundinacea, Spartina pectinata	Unnamed Ditch	Intermittent	None
Pennington	s-154n44w32-a	9/16/2014	0.1	10.0	10.0	25.0	0.5	5.0	Clay	Phalaris arundinacea, Typha X glauca, Callitriche palustris	Unnamed Ditch	Intermittent	None
Pennington	s-154n44w33-a	9/18/2014	0.0	3.0	2.0	32.0	1.0	6.0	Muck	Equisetum hyemale, Persicaria maculosa, Rorippa palustris	Unnamed Ditch	Intermittent	None
Pennington	s-154n44w33-b	9/18/2014	0.0	7.0	7.0	20.0	1.0	8.0	Clay	Typha sp., Juncus arcticus, Juncus alpinoarticulatus	Unnamed Ditch	Intermittent	None
Polk	PO008_500aWB	7/18/2013	0.3	5.0	5.0	2.0	20.0	130.0	Silt	Persicaria amphibia, Salix sp.	Red River	Perennial	None

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Polk	PO011aWB	6/3/2013	0.3	7.0	5.0	60.0	4.0	56.0	Sand	Anemone canadensis, Phalaris arundinacea	Unnamed Stream	Perennial	None
Polk	PO016aWB	6/3/2013	0.0	3.0	6.0	35.0	4.0	25.0	Silt	Bromus inermis and Typha sp.	Unnamed Stream	Intermittent	None
Polk	PO027aWB	6/8/2013	1.5	12.0	15.0	140.0	8.0	135.0	Clay	Carex sp. and Phalaris arundinacea	Red Lake River	Perennial	None
Polk	PO036_000RDaWB	10/3/2013	0.0	3.0	3.0	20.0	0.5	8.0	Clay	Phalaris arundinacea	Unnamed Ditch	Intermittent	None
Polk	PO036_000RDbWB	10/3/2013	0.0	3.0	3.0	20.0	0.5	8.0	Clay	Phalaris arundinacea	Unnamed Ditch	Intermittent	None
Polk	PO037aWB	6/8/2013	0.0	4.0	5.0	8.0	2.0	4.0	Silt	Phalaris arundinacea and Poa pratensis	Unnamed Ditch	Intermittent	None
Polk	PO041aWB	7/2/2013	0.0	4.0	4.0	13.0	2.0	10.0	Clay	Phalaris arundinacea, Typha sp.	County Ditch 34	Intermittent	None
Polk	PO048aWB	6/4/2013	0.0	3.0	6.0	12.0	2.0	7.0	Clay	Phalaris arundinacea and Typha sp.	Judicial Ditch 60	Intermittent	None
Polk	PO049_300aWB	10/3/2013	0.0	1.5	1.5	8.0	0.0	3.0	Clay	None - Cultivated Field	Unnamed Stream	Intermittent	None
Polk	PO049aWB	7/3/2013	0.0	1.5	1.5	12.0	1.0	10.0	Clay	Typha sp.	Unnamed Ditch	Intermittent	None
Polk	PO051_100aWB	10/3/2013	0.0	1.5	1.5	12.0	0.0	3.0	Clay	None - Cultivated Field	Unnamed Ditch	Intermittent	None
Polk	PO061aWB	7/2/2013	0.0	5.0	5.0	13.0	4.0	13.0	Clay	Phalaris arundinacea	County Ditch 1	Intermittent	None
Polk	PO061bWB	7/2/2013	0.0	6.0	6.0	14.0	2.5	12.0	Clay	Phalaris arundinacea	Unnamed Ditch	Intermittent	None
Polk	PO064_000HGaWB	10/3/2013	0.0	4.0	4.0	26.0	1.0	8.0	Clay	Typha x glauca, Phalaris arundinacea	Unnamed Ditch	Intermittent	None
Polk	PO064_000HGbWB	10/3/2013	0.0	4.0	4.0	26.0	1.0	8.0	Clay	Typha x glauca, Phalaris arundinacea	Unnamed Stream	Intermittent	None
Polk	PO079aWB	6/6/2013	1.0	4.0	4.0	6.0	4.0	4.0	Gravel	Phalaris arundinacea	Unnamed Ditch	Intermittent	None
Polk	PO080aWB	6/6/2013	0.3	6.0	4.0	8.0	3.0	6.0	Clay	Carex sp.	Unnamed Ditch	Intermittent	None
Polk	PO081aWB	6/6/2013	0.3	4.0	6.0	10.0	3.0	6.0	Clay	Phalaris arundinacea	Unnamed Ditch	Intermittent	None
Polk	PO085aWB	7/1/2013	0.5	16.0	16.0	130.0	13.0	120.0	Clay	Phalaris arundinacea, Carex emoryii, Spartina pectinata	Red Lake River	Perennial	None
Polk	PO088aWB	7/1/2013	0.1	10.0	8.0	30.0	6.0	25.0	Gravel	Carex emoryii, Phalaris arundinacea	Kripple Creek	Perennial	None
Polk	PO091aWB	7/2/2013	0.0	3.0	3.0	14.0	2.0	12.0	Clay	Phalaris arundinacea, Eleocharis palustris	Unnamed Ditch	Intermittent	None
Polk	PO096aWB	7/19/2013	0.0	1.0	1.0	3.0	1.0	3.0	Silt	Phalaris arundinacea, Zea mays, Eleocharis palustris, Typha angustifolia	Unnamed Ditch	Ephemeral	None
Polk	PO096bWB	7/20/2013	0.1	2.0	2.0	10.0	2.0	6.0	Silt	Phalaris arundinacea, Typha angustifolia, Calamagrostis canadensis	Unnamed Ditch	Intermittent	None
Polk	PO097aWB	7/2/2013	0.0	4.0	4.0	8.0	1.0	6.0	Clay	Phalaris arundinacea	Unnamed Ditch	Intermittent	None
Polk	PO099_520aWB	9/10/2013	0.0	4.0	4.0	24.0	1.0	18.0	Sand	Phalaris arundinacea	Beau Gerlot Creek	Ephemeral	None
Polk	PO099_520bWB	9/10/2013	0.0	3.0	3.0	30.0	1.0	20.0	Sand	Populus deltoides, Phalaris arundinacea	Beau Gerlot Creek	Ephemeral	None
Polk	PO100aWB	9/10/2013	0.0	6.0	6.0	26.0	3.0	18.0	Clay	Populus deltoides, Salix petiolaris, Phalaris arundinacea	Unnamed Ditch	Intermittent	None
Polk	PO109aWB	7/23/2013	0.1	3.0	3.0	17.0	4.0	28.0	Sand	Phalaris arundinacea, Sagittaria latifolia, Sparganium eurycarpum	Poplar River	Perennial	None

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Polk	PO116_305aWB	10/16/2015	0.0	1.0	1.0	5.0	0.5	4.0	Silt	Cornus alba, Agrostis gigantea, Rosa acicularis	Unnamed Ditch	Intermittent	None
Polk	PO117aWB	6/5/2013	0.0	2.5	3.0	18.0	1.5	10.0	Silt	Phalaris arundinacea, Salix interior	Unnamed Ditch	Intermittent	None
Polk	PO122aWB	5/31/2013	0.0	5.0	6.0	25.0	2.5	10.0	Silt	Phalaris arundinacea	Unnamed Ditch	Intermittent	None
Polk	PO122bWB	5/31/2013	0.0	6.0	5.0	25.0	2.0	10.0	Silt	Phalaris arundinacea, Typha angustifolia	Unnamed Ditch	Intermittent	None
Polk	PO122cWB	5/31/2013	0.0	4.0	3.0	15.0	2.0	10.0	Silt	Typha sp. Phalaris arundinacea, Salix interior	Unnamed Ditch	Intermittent	None
Polk	PO123aWB	5/31/2013	0.0	3.0	3.0	20.0	2.5	15.0	Silt	Phalaris arundinacea, Carex atherodes	Unnamed Ditch	Intermittent	None
Polk	PO123bWB	5/31/2013	0.0	4.0	2.0	15.0	2.0	10.0	Silt	Phalaris arundinacea, Typha angustifolia, Juncus arcticus	Unnamed Ditch	Intermittent	None
Polk	PO126aWB	5/31/2013	0.0	4.0	2.5	15.0	2.0	12.0	Silt	Phalaris arundinacea, Carex lacustris, Typha angustifolia	Unnamed Ditch	Intermittent	None
Polk	PO127aWB	5/31/2013	0.0	5.0	2.0	20.0	2.0	12.0	Silt	Typha sp.	Unnamed Ditch	Intermittent	None
Polk	PO128aWB	6/5/2013	0.3	3.0	3.0	12.0	2.0	10.0	Silt	Phalaris arundinacea, Salix petiolaris, Typha sp.	Unnamed Stream	Perennial	None
Polk	PO129aWB	5/30/2013	0.5	5.0	6.0	18.0	3.0	10.0	Silt	Phalaris arundinacea	Unnamed Stream	Ephemeral	None
Polk	PO131aWB	5/29/2013	0.0	1.5	1.5	6.0	2.0	4.0	Silt	Glycine max	Unnamed Stream	Ephemeral	None
Polk	PO133aWB	9/9/2014	0.0	5.0	2.0	20.0	1.0	8.0	Sand	Typha X glauca, Phalaris arundinacea, Apocynum cannabinum	Unnamed Ditch	Intermittent	None
Polk	PO133bWB	9/9/2014	0.0	3.0	8.0	27.0	1.0	13.0	Muck	Phalaris arundinacea, Typha angustifolia, Carex pellita	Unnamed Ditch	Intermittent	None
Polk	PO134aWB	5/29/2013	0.1	2.0	2.0	20.0	2.0	15.0	Silt	Carex stricta	Unnamed Ditch	Intermittent	None
Polk	PO144aWB	5/24/2013	1.0	4.0	7.0	35.0	3.5	20.0	Sand	Phalaris arundinacea	Hill River	Perennial	None
Polk	PO155_502aWB	9/3/2013	0.0	4.0	4.0	20.0	1.5	14.0	Clay	Bordered by soybean.	Unnamed Ditch	Intermittent	None
Polk	PO155_502bWB	9/3/2013	0.0	2.0	2.0	14.0	1.0	10.0	Clay	Phalaris arundinacea	Unnamed Ditch	Intermittent	None
Polk	PO155_514aWB	9/4/2013	0.0	2.0	2.0	14.0	1.0	12.0	Clay	Phalaris arundinacea, Bidens spp.	Unnamed Ditch	Ephemeral	None
Polk	s-150n39w19-a	10/4/2014	0.1	12.0	12.0	14.0	3.0	3.0	Clay	Phalaris arundinacea, Symphyotrichum lanceolatum	Unnamed Ditch	Intermittent	None
Polk	s-150n39w19-b	10/6/2014	0.0	5.0	5.0	7.0	0.5	6.0	Silt	Carex utriculata, Carex lacustris, Lemna minor	Unnamed Ditch	Intermittent	None
Polk	s-150n39w19-c	10/6/2014	0.0	1.0	1.5	8.0	0.5	6.0	Muck	Typha X glauca, Phalaris arundinacea, Eleocharis rostellata	Unnamed Ditch	Intermittent	None
Polk	s-150n39w19-d	10/8/2014	0.0	5.0	3.0	15.0	3.0	12.0	Muck	Typha x glauca, Phragmites australis, Phalaris arundinacea	Unnamed Ditch	Intermittent	None
Polk	s-150n39w19-e	10/9/2014	0.0	7.0	5.0	12.0	1.0	3.0	Gravel	Phalaris arundinacea, Cornus alba, Salix discolor	Unnamed Ditch	Intermittent	None
Polk	s-150n39w19-f	10/9/2014	0.1	6.0	6.0	14.0	0.5	5.0	Gravel	Phalaris arundinacea	Unnamed Ditch	Intermittent	None
Polk	s-150n39w29-a	10/10/2014	0.0	6.0	6.0	12.0	2.0	8.0	Muck	Typha angustifolia, Alisma triviale, Phalaris arundinacea	Unnamed Ditch	Intermittent	None

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Polk	s-150n39w29-b	10/10/2014	0.0	6.0	6.0	12.0	2.0	8.0	Muck	Typha angustifolia, Alisma triviale, Phalaris arundinacea	Unnamed Ditch	Intermittent	None
Polk	s-150n39w29-c	10/10/2014	0.0	6.0	6.0	12.0	2.0	8.0	Muck	Typha angustifolia, Alisma triviale, Phalaris arundinacea	Unnamed Ditch	Intermittent	None
Polk	s-150n39w30-a	10/8/2014	0.0	2.0	4.0	15.0	0.5	10.0	Muck	Equisetum fluviatile, Eleocharis rostellata, Typha x glauca	Unnamed Ditch	Intermittent	None
Polk	s-150n39w30-b	10/11/2014	0.0	6.0	6.0	12.0	2.0	8.0	Muck	Phalaris arundinacea	Unnamed Ditch	Intermittent	None
Polk	s-150n40w14-a	6/24/2017	0.0	4.0	4.0	20.0	0.5	15.0	Silt	Typha X glauca, Scirpus pallidus, Carex lacustris	Unnamed Ditch	Intermittent	None
Polk	s-150n40w14-b	10/4/2014	0.0	1.5	1.5	15.0	1.0	10.0	Sand	Alisma triviale, Typha X glauca, Equisetum hyemale	Unnamed Ditch	Intermittent	None
Polk	s-150n40w15-a	10/3/2014	0.0	5.0	2.0	10.0	1.0	4.0	Sand	Spartina pectinata, Phalaris arundinacea, Typha X glauca	Unnamed Ditch	Intermittent	None
Polk	s-150n40w15-b	10/3/2014	0.0	25.0	25.0	40.0	2.0	12.0	Sand	Typha X glauca, Phalaris arundinacea	Unnamed Ditch	Intermittent	None
Polk	s-150n40w15-c	10/3/2014	0.1	20.0	20.0	50.0	5.0	20.0	Muck	Typha X glauca, Alisma triviale, Spartina pectinata	Unnamed Ditch	Intermittent	None
Polk	s-150n40w16-a	10/3/2014	0.1	20.0	20.0	60.0	4.0	20.0	Sand	Typha X glauca, Phalaris arundinacea, Scirpus fluviatilis	Judicial Ditch 61	Intermittent	None
Polk	s-150n40w16-b	10/3/2014	0.0	8.0	4.0	18.0	1.0	9.0	Sand	Phalaris arundinacea, Lysimachia ciliatum	Unnamed Ditch	Intermittent	None
Polk	s-150n40w23-a	10/4/2014	0.0	10.0	10.0	35.0	1.5	10.0	Sand	Carex pellita, Phragmites australis, Typha X glauca	Unnamed Ditch	Intermittent	None
Polk	s-150n40w7-a	10/3/2014	0.0	7.0	7.0	25.0	1.0	12.0	Sand	Typha X glauca, Phalaris arundinacea, Salix interior	Unnamed Ditch	Intermittent	None
Polk	s-150n40w8-a	10/3/2014	0.0	3.0	3.0	15.0	0.5	5.0	Sand	Carex pellita, Phalaris arundinacea, Spartina pectinata	Unnamed Ditch	Intermittent	None
Polk	s-150n40w9-a	10/3/2014	0.0	6.0	6.0	20.0	1.0	8.0	Sand	Phalaris arundinacea, Typha X glauca	Unnamed Ditch	Intermittent	None
Polk	s-150n40w9-b	10/3/2014	0.0	7.0	5.0	25.0	0.8	7.0	Sand	Equisetum variegatum, Calamagrostis stricta, Typha X glauca	Unnamed Ditch	Intermittent	None
Polk	s-150n45w18-aa	6/29/2016	0.0	5.0	5.0	6.0	0.5	0.5	Coarse sand	Acer negundo, Phalaris arundinacea	Judicial Ditch 60	Intermittent	None
Polk	s-150n46w14-a	7/14/2015	0.1	10.0	10.0	20.0	4.0	12.0	Silt	Phalaris arundinacea, Schoenoplectus tabernaemontanii, Scirpus cyperinus	Unnamed Ditch	Intermittent	None
Red Lake	RE001aWB	7/19/2013	0.3	2.5	2.5	5.0	8.0	20.0	Gravel	Phalaris arundinacea, Solidago gigantea	Judicial Ditch 66	Intermittent	None
Red Lake	RE004aWB	6/10/2013	0.1	1.0	1.0	10.0	1.5	10.0	Sand	Carex lacustris, Phalaris arundinacea	Judicial Ditch 66	Intermittent	None
Red Lake	RE007aWB	6/5/2013	0.3	10.0	8.0	35.0	4.0	25.0	Silt	Phalaris arundinacea	Judicial Ditch 66	Intermittent	None
Red Lake	RE008aWB	6/5/2013	0.0	0.0	0.0	0.0	0.0	0.0	Clay	None - Cultivated Field	Unnamed Ditch	Ephemeral	None

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Red Lake	RE012aWB	7/20/2013	0.1	4.0	4.0	10.0	2.0	8.0	Gravel	Phalaris arundinacea, Alisma triviale, Scirpus atrovirens, Apocynum cannabinum	Judicial Ditch 64	Perennial	None
Red Lake	RE014aWB	7/23/2013	0.0	5.0	4.0	10.0	1.0	6.0	Silt	Melilotus sp., Agrostis gigantea, Cirsium arvense, Trifolium hybridum, Bromus inermis	Unnamed Ditch	Intermittent	None
Red Lake	RE014bWB	7/23/2013	0.0	3.0	2.0	10.0	0.5	1.0	Silt	Phalaris arundinacea, Melilotus sp., Agrostis gigantea	Unnamed Ditch	Ephemeral	None
Red Lake	RE016aWB	7/23/2013	0.0	1.0	1.0	10.0	0.5	6.0	Silt	Melilotus sp., Zea mays, Spartina pectinata	Unnamed Ditch	Ephemeral	None
Red Lake	RE017aWB	7/24/2013	0.0	3.0	3.0	10.0	1.0	10.0	Silt	Typha sp., Melilotus sp., Phalaris arundinacea, Agrostis gigantea, Cirsium arvense	Unnamed Ditch	Intermittent	None
Red Lake	RE017bWB	7/24/2013	0.5	4.0	4.0	20.0	4.0	15.0	Silt	Phalaris arundinacea, Melilotus sp., Spartina pectinata	Lower Badger Creek	Perennial	None
Red Lake	RE017cWB	7/24/2013	0.0	1.0	1.0	10.0	0.5	10.0	Silt	Melilotus sp., Spartina pectinata, Phalaris arundinacea, Bromus inermis	Unnamed Ditch	Ephemeral	None
Red Lake	RE021aWB	7/24/2013	0.0	6.0	6.0	35.0	1.0	10.0	Silt	Phalaris arundinacea, Sium suave, Glyceria borealis, Typha sp.	Beau Gerlot Creek	Intermittent	None
Red Lake	s-150n41w1-a	10/1/2014	0.0	8.0	8.0	50.0	1.5	15.0	Sand	Typha X glauca, Phalaris arundinacea	Unnamed Ditch	Intermittent	None
Red Lake	s-150n41w1-b	10/2/2014	0.1	15.0	15.0	80.0	3.0	50.0	Sand	Schoenoplectus tabernaemontani, Zizania palustris, Salix interior	Lost River	Perennial	Public Water
Red Lake	s-150n41w1-c	10/2/2014	0.0	18.0	18.0	75.0	1.5	20.0	Muck	Typha X glauca, Phalaris arundinacea, Alisma triviale	Unnamed Ditch	Intermittent	None
Red Lake	s-150n43w32-a	7/15/2015	0.1	4.0	4.0	16.0	2.0	9.0	Gravel	Typha angustifolia, Schoenoplectus acutus, Cicuta maculata	Unnamed Ditch	Intermittent	None
Red Lake	s-150n44w30-a	7/15/2015	0.1	5.0	5.0	15.0	2.0	8.0	Very fine sand	Phalaris arundinacea, Bromus inermis, Salix petiolaris	Unnamed Creek	Intermittent	None
Red Lake	s-151n41w28-a	10/16/2014	0.0	8.0	8.0	20.0	2.0	12.0	Sand	Typha X glauca, Phalaris arundinacea, Carex lacustris	Unnamed Ditch	Intermittent	None
Red Lake	s-151n41w28-b	10/16/2014	0.0	6.0	6.0	18.0	2.0	8.0	Sand	Typha X glauca, Phalaris arundinacea, Carex lacustris	Unnamed Ditch	Intermittent	None
Red Lake	s-151n41w28-c	10/16/2014	0.0	6.0	6.0	20.0	3.0	12.0	Clay	Typha X glauca, Phalaris arundinacea, Salix discolor	Unnamed Ditch	Intermittent	None
Red Lake	s-151n41w33-a	10/16/2014	0.0	2.0	3.0	13.0	1.0	5.0	Sand	Phalaris arundinacea	Unnamed Ditch	Intermittent	None
Red Lake	s-151n41w33-b	10/16/2014	0.0	6.0	3.0	20.0	0.5	7.0	Sand	Phalaris arundinacea	Unnamed Ditch	Intermittent	None
Red Lake	s-151n41w35-a	10/14/2014	0.0	40.0	40.0	60.0	2.0	16.0	Muck	Typha angustifolia, Phalaris arundinacea, Rumex stenophyllus	Unnamed Ditch	Intermittent	None

County	Feature ID	Survey Date	Flow Rate (m/s)	Left Bank Height (ft)	Right Bank Height (ft)	Top of Bank Width (ft)	OHWL Height (ft)	OHWL Width (ft)	Substrate	Dominant Riparian Vegetation	Waterbody Name	Flow Regime	Agency Designation
Red Lake	s-151n42w15-a	10/1/2014	0.0	0.3	0.3	2.0	0.3	2.0	Clay	Poa pratensis	Unnamed Ditch	Intermittent	None
Red Lake	s-151n42w15-b	10/1/2014	0.0	0.3	0.3	2.0	0.3	2.0	Clay	Poa pratensis, Trifolium hybridum, Taraxacum officinale	Unnamed Ditch	Intermittent	None
Red Lake	s-151n42w15-c	10/1/2014	0.0	0.5	0.5	3.0	0.3	3.0	Sand	Coryza canadense, Poa pratensis, Trifolium hybridum	Unnamed Ditch	Intermittent	None
Red Lake	s-151n42w4-a	10/1/2014	0.1	14.0	14.0	70.0	3.0	60.0	Silt	Acer negundo, Fraxinus pennsylvanica, Carex emoryi	Clearwater River	Perennial	303d Impaired, Public Water
Red Lake	s-152n42w30-a	9/29/2014	0.0	12.0	12.0	14.0	1.0	4.0	Clay	Typha angustifolia, Alisma trivale, Rumex stenophyllus	Unnamed Ditch	Intermittent	None
Red Lake	s-152n42w30-b	9/29/2014	0.0	3.0	3.0	20.0	0.3	3.0	Clay	Artemisia biennis, Equisetum arvense	Unnamed Ditch	Intermittent	None
Red Lake	s-152n42w31-a	9/29/2014	0.0	8.0	8.0	12.0	2.0	8.0	Clay	Phalaris arundinacea, Poa palustris, Typha angustifolia	Unnamed Ditch	Intermittent	None
Red Lake	s-152n42w32-a	6/3/2015	0.0	14.0	14.0	18.0	1.0	2.0	Clay	Phalaris arundinacea	Unnamed Ditch	Ephemeral	None
Red Lake	s-152n42w32-b	9/30/2014	0.0	14.0	14.0	18.0	2.0	12.0	Clay	Phalaris arundinacea, Typha angustifolia	Unnamed Ditch	Intermittent	None
Red Lake	s-152n43w24-c	10/8/2014	0.0	16.0	16.0	20.0	3.0	10.0	Gravel	Typha angustifolia, Phalaris arundinacea, Rumex stenophyllus	Unnamed Ditch	Intermittent	None
St. Louis	s-50n19w27-a	6/27/2018	0.5	1.5	2.0	15.0	1.0	12	Muck	Salix petiolaris, Typha x glauca, Carex lacustris	Unnamed Ditch	Perennial	None
St. Louis	s-50n20w2-a	9/13/2017	2.0	6.0	7.0	17.0	4.0	12.0	silty clay loam	Calamagrostis canadensis, Phalaris arundinacea, Spiraea alba	Unnamed Stream	Perennial	PWI
St. Louis	s-51n20w21-a	9/11/2017	0.0	5.0	5.0	8.0	3.0	4.0	sand	Salix petiolaris, Solidago gigantea, Salix bebbiana	Unnamed Stream	Ephemeral	None
St. Louis	s-51n20w27-a	9/11/2017	4.0	4.0	5.0	15.0	3.0	6.0	sandy loam	Calamagrostis canadensis, Alnus incana, Salix petiolaris	Unnamed Stream	Perennial	PWI
St. Louis	s-51n20w27-b	9/12/2017	2.0	3.0	3.0	5.0	1.5	3.0	sandy loam	Alnus incana, Calamagrostis canadensis, Typha x glauca	Unnamed Stream	Perennial	None
St. Louis	s-51n20w27-c	9/12/2017	0.5	2.0	2.0	3.0	0.5	3.0	silt loam	Calamagrostis canadensis, Scirpus cyperinus, Alnus incana	Unnamed Stream	Intermittent	None
St. Louis	s-51n20w35-a	9/12/2017	1.0	2.0	2.0	3.0	0.5	3.0	silt loam	Carex lacustris, Scirpus cyperinus, Scirpus atrovirens	Unnamed Stream	Perennial	PWI
St. Louis	s-51n20w35-b	9/12/2017	1.0	2.0	2.0	7.0	2.0	6.0	sandy loam	Carex lacustris, Scirpus cyperinus, Scirpus atrovirens	Unnamed Stream	Perennial	None
St. Louis	s-51n21w20-a	9/8/2017	1.0	7.0	7.0	30.0	6.0	20.0	Sand/Muck	Calamagrostis canadensis, Fraxinus nigra, Phalaris arundinacea	Unnamed Stream	Perennial	PWI
St. Louis	s-51n21w21-a	9/8/2017	0.0	3.0	3.0	6.0	3.0	6.0	Muck	Carex lacustris, Typha x glauca, Calamagrostis canadensis	Unnamed Stream	Perennial	None
St. Louis	s-51n21w22-a	9/8/2017	0.0	4.0	4.0	8.0	4.0	8.0	Muck	Carex lacustris, Typha x glauca, Calamagrostis canadensis	Unnamed Stream	Perennial	None

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St. Louis	s-51n21w24-a	9/9/2017	0.0	7.0	8.0	20.0	2.0	7.0	sandy clay loam	Phalaris arundinacea, Calamagrostis canadensis, Carex lacustris	Unnamed Stream	Intermittent	None
St. Louis	s-51n21w24-b	9/9/2017	0.1	3.0	3.0	4.0	0.5	0.5	silt loam	Alnus incana, Calamagrostis canadensis, Carex lacustris	Unnamed Stream	Intermittent	None
Wadena	WA002aWB	9/2/2014	0.6	20.0	20.0	400.0	5.0	210.0	Sand	Typha X glauca, Phalaris arundinacea, Cornus alba	Shell River	Perennial	Public Water
Wadena	WA006aWB	9/8/2014	0.6	20.0	20.0	500.0	5.0	210.0	Sand	Zizania palustris, Sparganium eurycarpum, Phalaris arundinacea	Crow Wing River	Perennial	Canoe Route, Impaired Water, Public Water
Wadena	WA017aWB	9/13/2014	0.0	6.0	7.0	8.0	6.0	8.0	Muck	Carex lasiocarpa, Typha x glauca	Unnamed Stream	Perennial	None