

Stewardship for Lone Hickory

Lead Steward: Dominic

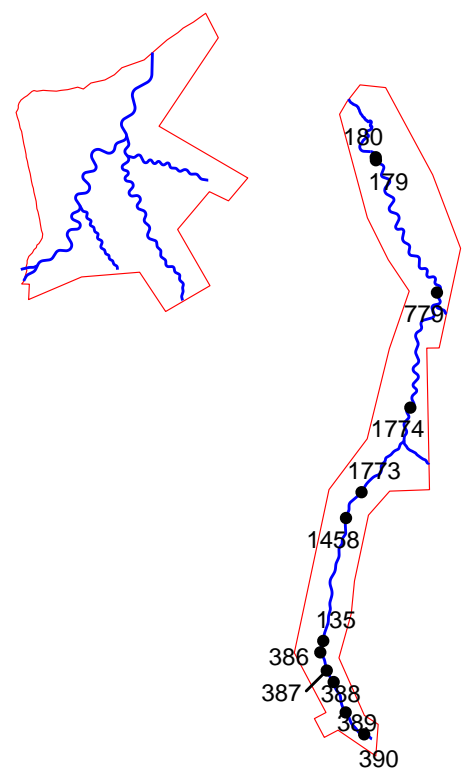
2023-12-18

Boundary Issues

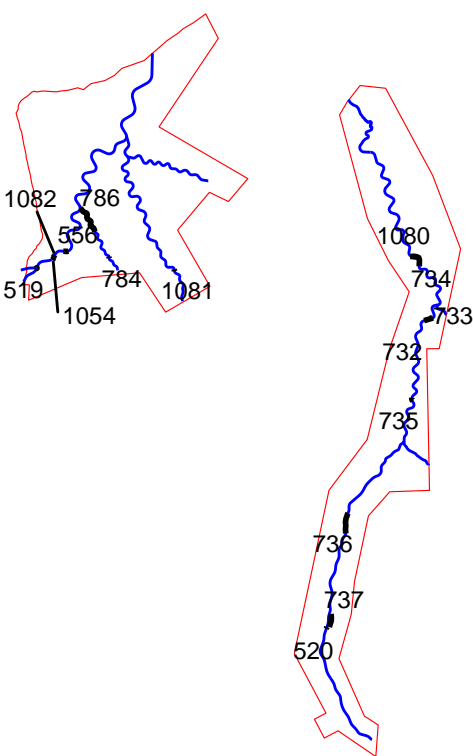
Channel Issues

OBJECTID	Year	Subtype	Issue	Description	Treatment	TreatDate	Resolved
1081	2023	Channel Stability/Erosion	ErosionScour	Minor bed scour previously noted @ XS15; MY5 bank height ratio is 1.1 so therefore area seems to be improving			Yes
1054	2023	Channel Stability/Erosion	ErosionScour				No
1080	2023	Channel Stability/Erosion	ErosionScour	Bed scour @ XS10; MY5 bank height ratio is 1.4			No
1082	2023	Channel Stability/Erosion	ErosionScour	Bed Scour @ XS28; MY5 bank height ratio is 1.3			No
1458	2023	Failed Structure	Piping	Log at tail of riffle piping/goes temp. subsurface. No visible erosion. Subsurface flow/scour on right bank 11/6/2023			No
1773	2023	Failed Structure	Piping	See its higher flow			No
1774	2023	Failed Structure	Piping	Hole around structure			No
786	2022	Needs Livestakes			live staked silky willow, dogwood, black willow	01/2023	Yes
732	2022	Needs Livestakes		Needs livestakes on eroding banks.			No
733	2022	Channel Stability/Erosion	ErosionScour	Undercutting banks on both sides; more severe on left bank			No
734	2022	Needs Livestakes		Needs livestakes both sides			No
735	2022	Channel Stability/Erosion	ErosionScour	Undercutting banks; minor with woody stems present on banks; 11/5/2023 just minor bowling out, keep eye on			No
736	2022	Needs Livestakes					No
737	2022	Needs Livestakes					No
784	2022	Channel Stability/Erosion	AggradationDeposition	Aggradation			No
386	2022	Failed Structure	Piping	Piping around or under log sills. J hook?; does not seem to be actively scoring 7/24/2023			No
387	2022	Failed Structure	Piping	Water flowing under log sill. Somewhat stable. No scour visible.; no piping 11/6/2023			No
388	2022	Failed Structure	Piping	Riprap repair did not fix log sill piping. Subsurface under rip rap but at least it's holding grade, deep hole on right side of channel 7/24/2023			No
389	2022	Failed Structure	Piping	Piping under chunky riffle and rock sill. Somewhat stable.			No
390	2022	Failed Structure	Piping	Piping under and/or around rock sill			No
779	2022	Failed Structure		Part of brush toe maybe dislodged but bank is intact, minor concern			No
520	2021	Channel Stability/Erosion	ErosionScour	Erosion around rocks; repair looks good	stream bank repair with geolift and live stakes	11/2022	Yes
519	2021	Channel Stability/Erosion	ErosionScour	Mid channel bar with streambank erosion			Yes
179	2021	Failed Structure	Piping	Piping around left side of log; not piping 02/2023	No treatment made. Water flowing over sill now.	03/2022	Yes
556	2021	Needs Livestakes		Live stakes needed on left bank			No
180	2021	Failed Structure	Piping	Piping under log sill. Pointing in photos where water is flowing. Also undercutting banks immediately after sill.	sill material replaced and bank stabilized	11/2022	No
135	2021	Failed Structure	Piping	Failed log sill; water piping around; not piping 02/23; minor scour on LBK above 2 boulder 7/24/2023			No

Channel Issues (points)



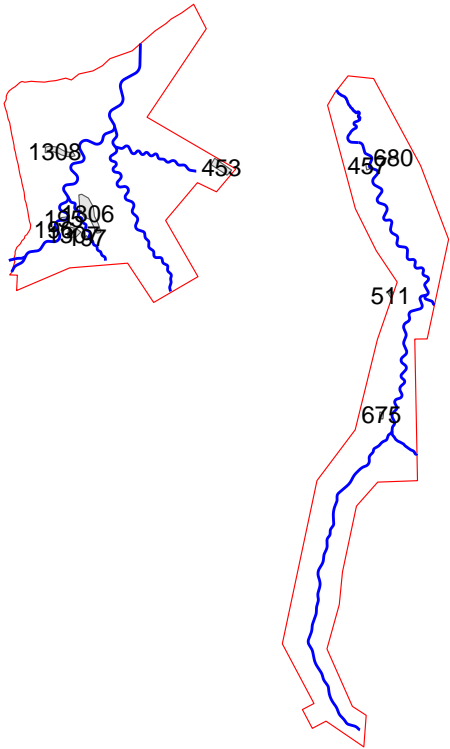
Channel Issues (lines)



Vegetation Issues

OBJECTID	Year	Issue	Description	Treatment	TreatDate	Resolved
1306	2023	Low Stem Vigor/Height	Obvious area of low stem height represented by VP16 and VP17	soil amendments added	06/2023	No
1308	2023	Low Stem Vigor/Height and Density	Small area of low stem height partially represented by VP23 and MP6 (MY5)	soil amendments added	06/2023	No
1307	2023	Low Stem Vigor/Height	Small Area of low height represented by VP21, trees appear healthy just slightly stunted	soil amendments added	06/2023	No
675	2022	Bare Areas and Low Stem Density	Gullies and bare areas			No
680	2022	Bare Areas, Low Stem Vigor/Height and Density				No
453	2021	Bare Areas, Low Stem Vigor/Height and Density		Smoothed rilling, temp seeded, spread biochar, tackifier, water, matting/straw. Installed bare roots around BMP with most going in on repair side.	02/2022	Yes
195	2021	Bare Areas, Low Stem Vigor/Height and Density	Bare area along floodplain	soil amendments and microbes	08/2022	No
196	2021	Bare Areas, Low Stem Vigor/Height and Density	Bare area along floodplain	Soil amendments and microbial spray	08/2022	No
197	2021	Bare Areas and Low Stem Vigor/Height	Bare area along floodplain			No
457	2021	Bare Areas and Low Stem Density				No
511	2021		Area to be seeded			No

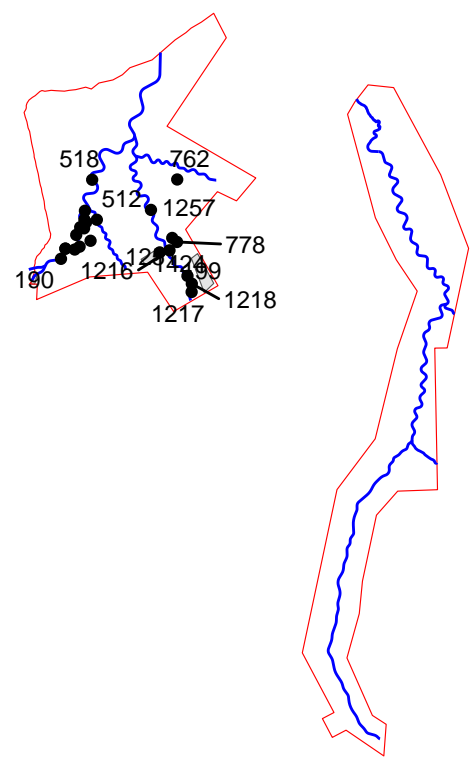
Vegetation Issues (polygons)



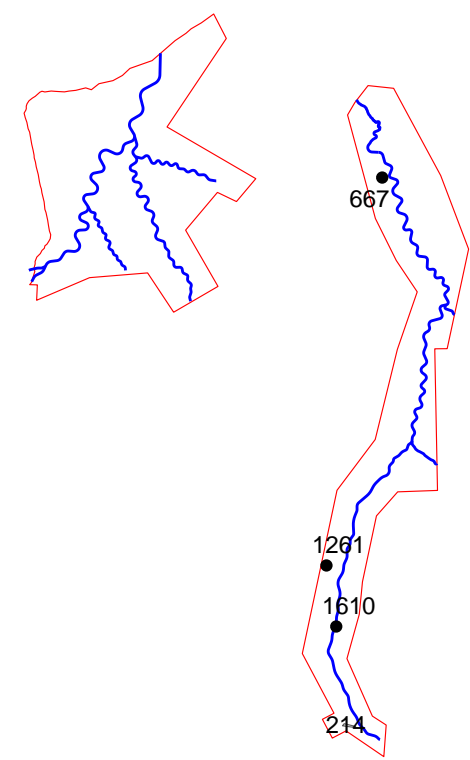
Weed Issues

OBJECTID	Year	Species1	Species2	Issue	Treatment	Method	TreatDate	Resolved
1251	2023	Kudzu		Kudzu	kudzu root treatment	Hack and Squirt	07/2023	No
1251	2023	Kudzu		Kudzu	kudzu follow up treatment	Cut Stump	09/2023	No
1216	2023	Kudzu						No
1217	2023	Kudzu						No
1218	2023	Kudzu						No
1256	2023	Kudzu						No
1257	2023	Kudzu						No
1424	2023	Kudzu						No
1465	2023	Kudzu						No
1490	2023	Kudzu						No
1491	2023	Kudzu						No
1261	2023	Princess Tree		2 mature princess trees				No
1610	2023	Princess Tree		1 mature tree				No
1208	2023	Tree Of Heaven						No
1258	2023	Tree Of Heaven						No
1259	2023	Tree Of Heaven						No
509	2022	Cattail		Cattails				No
510	2022	Cattail		Cattails				No
511	2022	Cattail		Cattails				No
517	2022	Cattail		Cattails				No
519	2022	Cattail		Cattails				No
776	2022	Cattail		Cattails				No
777	2022	Cattail		Cattails				No
676	2022	Chinese Privet	Japanese Honeysuckle			Backpack Spray	05/2023	No
677	2022	Chinese Privet	Japanese Honeysuckle			Backpack Spray	05/2023	No
678	2022	Chinese Privet	Japanese Honeysuckle					No
679	2022	Chinese Privet	Japanese Honeysuckle					No
385	2022	Japanese Honeysuckle	Chinese Privet					No
512	2022	Kudzu						No
513	2022	Kudzu						No
514	2022	Kudzu						No
515	2022	Kudzu						No
516	2022	Kudzu						No
518	2022	Kudzu						No
762	2022	Kudzu						No
778	2022	Kudzu						No
667	2022	Princess Tree		A few scattered individuals				No
437	2022	Sweet Gum						No
821	2022	Tree Of Heaven				Backpack Spray	05/2023	No
785	2022				in stream foliar spray		08/2022	No
785	2022					Backpack Spray	08/2023	No
454	2021	Chinese Privet	Japanese Honeysuckle					No
199	2021	Kudzu	Japanese Honeysuckle	Small runners on artificial slopes, patches of HS and MF	kudzu runners located and treated on hillside		07/2023	No
199	2021	Kudzu	Japanese Honeysuckle	Small runners on artificial slopes, patches of HS and MF	Follow up kudzu treatment - located and treated remaining runners	Cut Stump	09/2023	No
127	2021	Kudzu		Kudzu runners				No
174	2021	Kudzu	Marsh Dewflower					No
175	2021	Kudzu						No
176	2021	Kudzu						No
129	2021	Marsh Dewflower	OTHER	Cattails and murdannia in-stream	Channel sprayed	Backpack Spray	08/2021	No
131	2021	Marsh Dewflower		Dense monoculture of murdannia				No
130	2021	OTHER	Kudzu	In-stream veg and kudzu along streambank				No
213	2021	Tree Of Heaven	Princess Tree	Within wooded area		Backpack Spray	05/2023	No
121	2021	Tree Of Heaven		Few stems mixed with tall cane. Cut stump trees.				No
557	2021				in stream glyphosate spray		08/2022	No
557	2021					Backpack Spray	08/2023	No
190	2020	Kudzu		Climbing vines and groundcover, including off-site	Kudzu treated	Backpack Spray	10/2021	No
190	2020	Kudzu		Climbing vines and groundcover, including off-site	root treatment	Cut Stump	07/2023	No
190	2020	Kudzu		Climbing vines and groundcover, including off-site	kudzu treatment	Cut Stump	09/2023	No
188	2020	Marsh Dewflower	Kudzu	Murdannia in-stream and on streambank	Kudzu treatment	Cut Stump	09/2023	No
202	2020	Tree Of Heaven	Chinese Privet	Large stand within wooded area. Hack and squirt in April 2020 of small individuals along field edge		Backpack Spray	05/2023	No
212	2020	Tree Of Heaven		Seedlings and 5-6 mature individuals				No
748	2020							No
125	2019	Kudzu		Small kudzu on streambank				No
126	2019	Kudzu		Small kudzu on streambank				No
214	2019	Princess Tree		Previously treated, resprouts from coppice				No

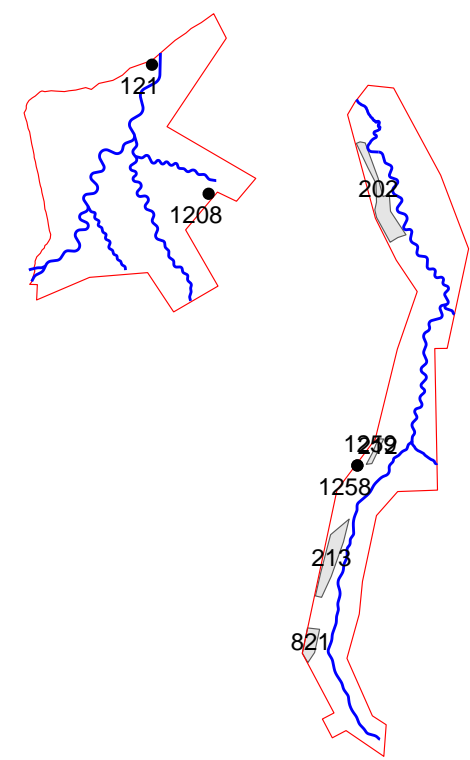
Weed Issues – Kudzu



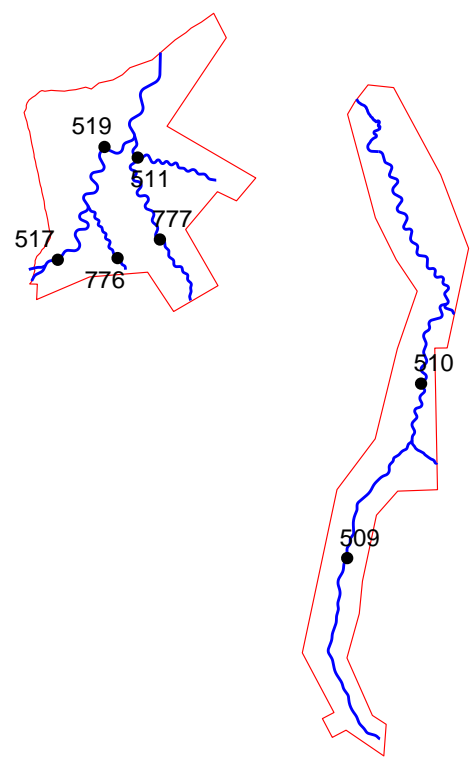
Weed Issues – Princess Tree



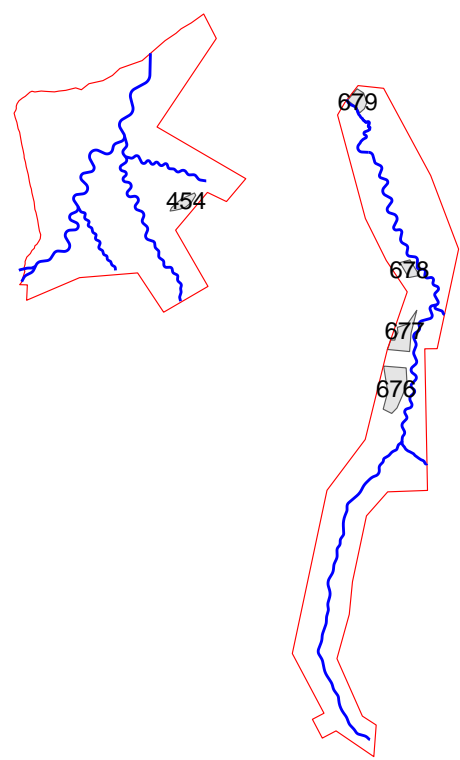
Weed Issues – Tree Of Heaven



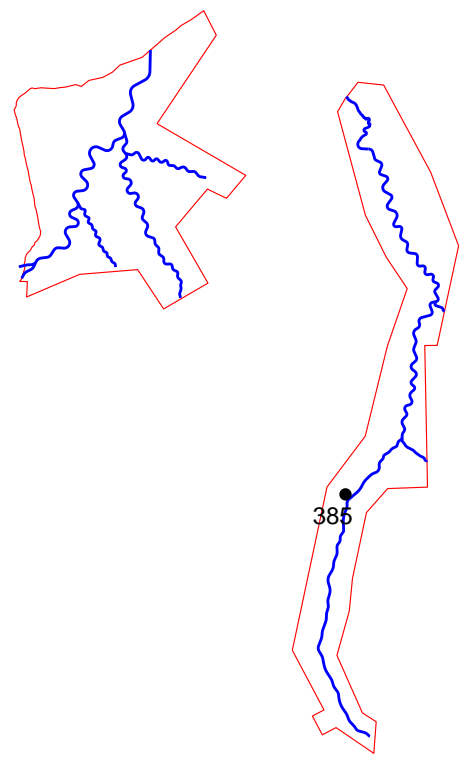
Weed Issues – Cattail



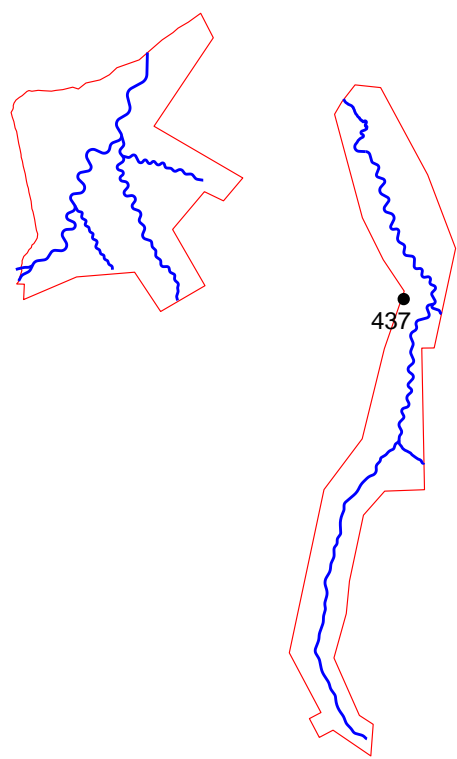
Weed Issues – Chinese Privet



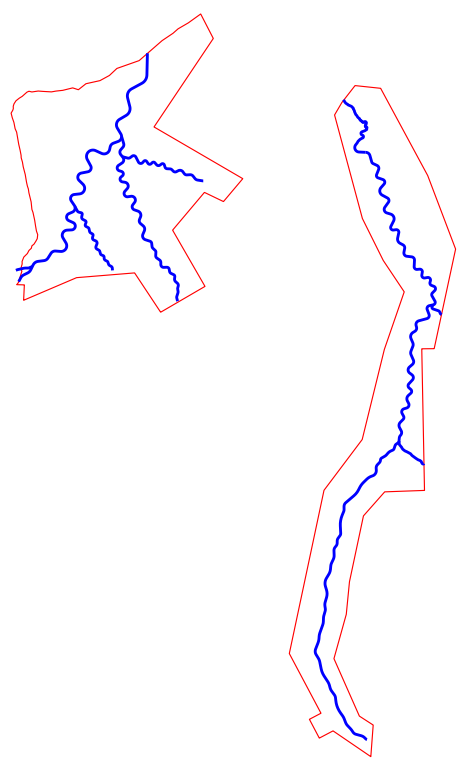
Weed Issues – Japanese Honeysuckle



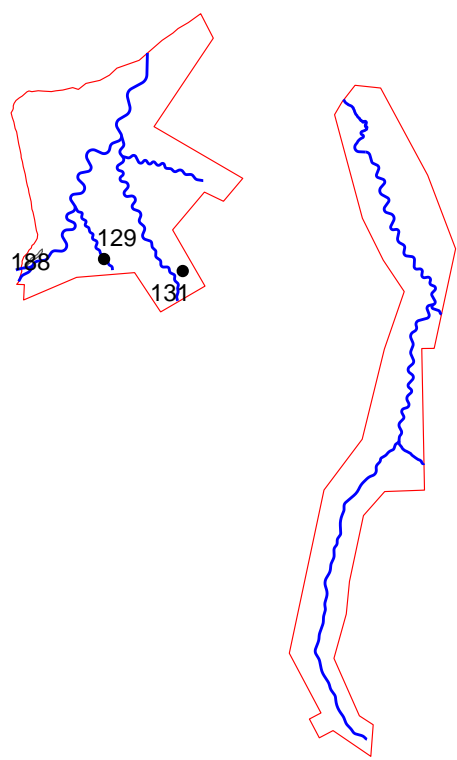
Weed Issues – Sweet Gum



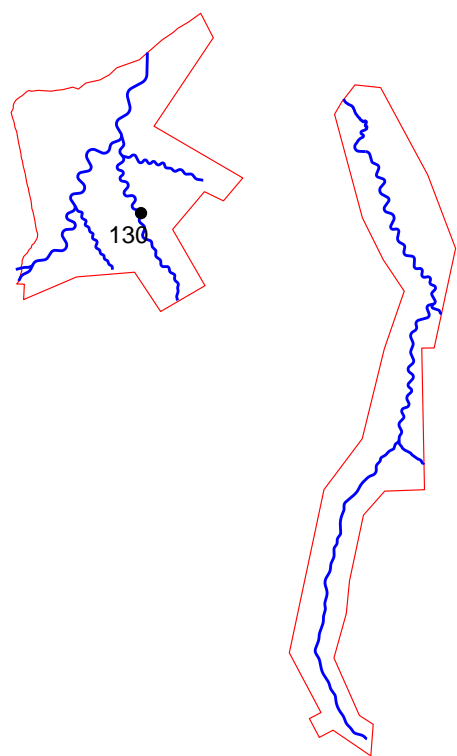
Weed Issues – NA



Weed Issues – Marsh Dewflower



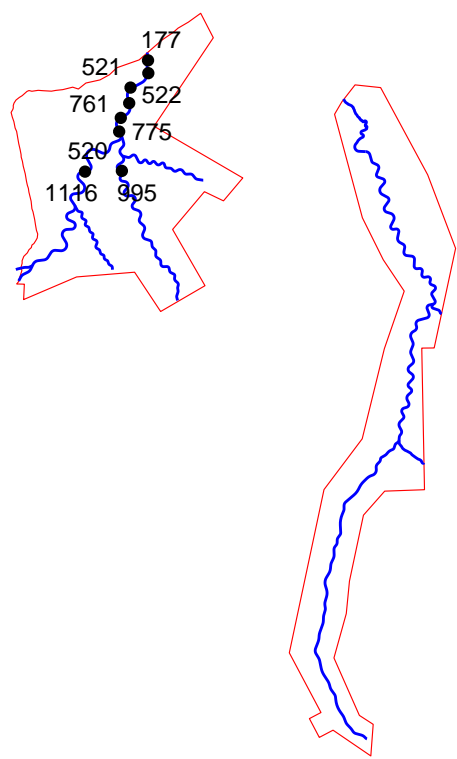
Weed Issues – OTHER



Miscellaneous Issues

OBJECTID	Year	Subtype	Description	LocationOrFeature	Treatment	TreatDate	Resolved
1832	2023	Misc	Coir log placed above gulley				Yes
520	2023	Beaver Dam	Still present on 2/8/2023, new dam present on 6/29/2023		Raked by staff	08/2022	No
995	2023	Beaver Dam					No
1050	2023	Misc	Debris in channel; Water flowing under, does not seem to be causing issues				No
1051	2023	Misc	Debris in channel				No
1116	2023	Beaver Dam					No
1255	2023	Misc	Tire in stream				No
1341	2023	Misc	tires / debris				No
521	2022	Beaver Dam			Raked by staff	08/2022	No
522	2022	Beaver Dam			Raked by staff	08/2022	No
384	2022	Misc	Small pine grove				No
761	2022	Beaver Dam					No
775	2022	Beaver Dam					No
177	2021	Beaver Dam			Staff removal by hand (successful)	11/2021	Yes
508	2021	Misc	WLC to put down matting				No
509	2021	Misc	WLC to add matting? At least anchor straw bales in places as check dams and area needs to be re-worked.				No
510	2021	Misc	WLC to install matting and grass seed area adjacent the easement (where hard to reach for farmers). They want to put grass down.				No
512	2021	Misc	Farm road needs work. Gullies carry sediment towards BMP. Additional rock?				No
513	2021	Misc	WLC to install matting below first rock berm.				No
514	2021	Misc	WLC to install matting below last rock berm.				No
515	2021	Misc	WLC to install matting below last rock berm.				No
516	2021	Misc	WLC to install matting below last rock berm.				No
178	2021	Misc	Cattails				No
211	2020	Misc	Gullies healing	Upland	Gully Repair, Seed Amendment	07/2022	No
205	2020	Misc	Historic gullies	Upland			No
134	2020	Misc	Scattered sweet gum saplings				No

Miscellaneous – Beaver Dam



Miscellaneous Issues

