

***ATTACHMENT A***

***TABLE 1***  
***SOIL AND SEDIMENT SAMPLING LOCATIONS***  
***TO IDENTIFY DEPOSITION AREAS***

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**Table 1  
Tittabawassee River Project  
Soil & Sediment Sampling to Identify Deposition Areas**

Reach	Proximity	Geomorphic Feature	Land Use	Sample ID	Target Core Depth (ft)	Media	Sediment/Soil Classification <sup>(3)</sup>	Protocol <sup>(4)</sup>					Analytical Method <sup>(5)</sup>	
								GeoProbe	Sampling Tube and CAB	Bucket Auger	Piston Sampler	Hand Core		
A	In-Channel	In-Channel	Streams and Waterways	RA-4+25-IC-C	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent	
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	In-Channel	In-Channel	Streams and Waterways	RA-4+25-IC-NE	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent	
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	In-Channel	In-Channel	Streams and Waterways	RA-4+25-IC-SW	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent	
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	In-Channel	In-Channel	Streams and Waterways	RA-9+50-IC-C	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent	
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	In-Channel	In-Channel	Streams and Waterways	RA-9+50-IC-NE	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent	
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	In-Channel	In-Channel	Streams and Waterways	RA-9+50-IC-SW	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent	
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	B	In-Channel	In-Channel	Streams and Waterways	RB-15+00-IC-C	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
						2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent
In-Channel		In-Channel	Streams and Waterways	RB-15+00-IC-NE	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent	
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent	
In-Channel		In-Channel	Streams and Waterways	RB-15+00-IC-SW	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent	
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent	
In-Channel		In-Channel	Streams and Waterways	RB-22+00-IC-C	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent	
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent	
In-Channel		In-Channel	Streams and Waterways	RB-22+00-IC-NE	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent	
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent	
In-Channel		In-Channel	Streams and Waterways	RB-22+00-IC-SW	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent	
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent	
Bank		Low Terrace	Industrial	RB-22+00-NE25	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
Bank		Upland	Industrial	RB-22+00-NE70	0-1	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
Tributary		In-Channel	Streams and Waterways	RB-29+50-T-SW180	0-1	Tributary	USCS						USEPA 1613-TRP/RT or equivalent	
Tributary		In-Channel	Streams and Waterways	RB-29+50-T-SW705	0-1	Tributary	USCS						USEPA 1613-TRP/RT or equivalent	
In-Channel		In-Channel	Streams and Waterways	RB-30+50-IC-C	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent	
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent	
In-Channel		In-Channel	Streams and Waterways	RB-30+50-IC-NE	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent	
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent	
In-Channel		In-Channel	Streams and Waterways	RB-30+50-IC-SW	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent	
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent	
Bank		Floodplain	Industrial	RB-30+50-SW5	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
Bank		Low Terrace	Industrial	RB-30+50-SW85	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
Bank		Wetland	Industrial	RB-30+50-SW905	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
In-Channel		In-Channel	Streams and Waterways	RB-36+00-IC-C	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent	
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent	
In-Channel		In-Channel	Streams and Waterways	RB-36+00-IC-NE	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent	
	2-2.5				Native Soil	USCS						USEPA 1613-TRP/RT or equivalent		
In-Channel	In-Channel	Streams and Waterways	RB-36+00-IC-SW	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent		
				2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent		
Bank	Low Terrace	Industrial	RB-36+00-SW30	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent		
C	In-Channel	In-Channel	Streams and Waterways	RC-38+50-IC-C	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent	
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	In-Channel	In-Channel	Streams and Waterways	RC-38+50-IC-NE	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent	
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	In-Channel	In-Channel	Streams and Waterways	RC-38+50-IC-SW	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent	
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent	
Bank	Floodplain	Industrial	RC-38+50-SW30	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent		
Bank	Low Terrace	Industrial	RC-38+50-SW60	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent		

**Table 1  
Tittabawassee River Project  
Soil & Sediment Sampling to Identify Deposition Areas**

Reach	Proximity	Geomorphic Feature	Land Use	Sample ID	Target Core Depth (ft)	Media	Sediment/Soil Classification <sup>(3)</sup>	Protocol <sup>(4)</sup>					Analytical Method <sup>(5)</sup>
								GeoProbe	Sampling Tube and CAB	Bucket Auger	Piston Sampler	Hand Core	
	In-Channel	In-Channel	Streams and Waterways	RC-45+00-IC-C	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent
	In-Channel	In-Channel	Streams and Waterways	RC-45+00-IC-NE	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent
	In-Channel	In-Channel	Streams and Waterways	RC-45+00-IC-SW	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Low Terrace	Industrial	RC-45+00-SW20	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	Low Terrace	Industrial	RC-45+00-SW65	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
D	In-Channel	In-Channel	Streams and Waterways	RD-48+00-IC-C	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent
	In-Channel	In-Channel	Streams and Waterways	RD-48+00-IC-NE	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent
	In-Channel	In-Channel	Streams and Waterways	RD-48+00-IC-SW	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent
	In-Channel	In-Channel	Streams and Waterways	RD-55+00-IC-C	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent
	In-Channel	In-Channel	Streams and Waterways	RD-55+00-IC-NE	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent
	In-Channel	In-Channel	Streams and Waterways	RD-55+00-IC-SW1	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent
	In-Channel	In-Channel	Streams and Waterways	RD-55+00-IC-SW2	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	Floodplain	Industrial	RD-56+00-SW10	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
Bank	Intermed Terrace	Industrial	RD-56+00-SW145	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
Bank	Low Terrace	Industrial	RD-56+00-SW35	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
Bank	Low Terrace	Industrial	RD-56+00-SW75	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
E	Bank	Floodplain	Industrial	RE-59+50-SW35	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Low Terrace	Industrial	RE-59+50-SW60	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Intermed Terrace	Industrial	RE-59+50-SW90	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	In-Channel	In-Channel	Streams and Waterways	RE-61+50-IC-C	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent
	In-Channel	In-Channel	Streams and Waterways	RE-61+50-IC-NE	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent
	In-Channel	In-Channel	Streams and Waterways	RE-61+50-IC-SW	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Floodplain	Industrial	RE-66+00-SW10	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Intermed Terrace	Industrial	RE-66+00-SW245	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Low Terrace	Industrial	RE-66+00-SW40	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Intermed Terrace	Industrial	RE-66+00-SW430	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Intermed Terrace	Industrial	RE-66+00-SW65	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	In-Channel	In-Channel	Streams and Waterways	RE-69+50-IC-C	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent
	In-Channel	In-Channel	Streams and Waterways	RE-69+50-IC-NE	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent
	In-Channel	In-Channel	Streams and Waterways	RE-69+50-IC-SW	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
2-2.5					Native Soil	USCS						USEPA 1613-TRP/RT or equivalent	
Bank	Floodplain	Herbaceous Rangeland	RE-69+50-SW20	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
Bank	Intermed Terrace	Herbaceous Rangeland	RE-69+50-SW250	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
Bank	Intermed Terrace	Herbaceous Rangeland	RE-69+50-SW50	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
In-Channel	In-Channel	Streams and Waterways	RE-74+00-IC-C	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent	
				2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent	
In-Channel	In-Channel	Streams and Waterways	RE-74+00-IC-NE	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent	

**Table 1  
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Soil & Sediment Sampling to Identify Deposition Areas**

Reach	Proximity	Geomorphic Feature	Land Use	Sample ID	Target Core Depth (ft)	Media	Sediment/Soil Classification <sup>(3)</sup>	Protocol <sup>(4)</sup>					Analytical Method <sup>(5)</sup>	
								GeoProbe	Sampling Tube and CAB	Bucket Auger	Piston Sampler	Hand Core		
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	In-Channel	In-Channel	Streams and Waterways	RE-74+00-IC-SW	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent	
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Intermed Terrace	Herbaceous Rangeland	RE-74+00-SW180	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Low Terrace	Herbaceous Rangeland	RE-74+00-SW20	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Intermed Terrace	Herbaceous Rangeland	RE-74+00-SW45	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Intermed Terrace	Herbaceous Rangeland	RE-74+00-SW50	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	In-Channel	In-Channel	Streams and Waterways	RE-80+00-IC-C	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent	
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	In-Channel	In-Channel	Streams and Waterways	RE-80+00-IC-NE	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent	
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	In-Channel	In-Channel	Streams and Waterways	RE-80+00-IC-SW	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent	
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	High Terrace	Herbaceous Rangeland	RE-80+00-SW110	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Intermed Terrace	Herbaceous Rangeland	RE-80+00-SW175	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Natural Levee	Herbaceous Rangeland	RE-80+00-SW20	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Intermed Terrace	Herbaceous Rangeland	RE-80+00-SW270	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Low Int Terrace	Herbaceous Rangeland	RE-80+00-SW50	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
F	In-Channel	In-Channel	Streams and Waterways	RF-103+50-IC-C	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent	
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	In-Channel	In-Channel	Streams and Waterways	RF-103+50-IC-NE	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent	
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	In-Channel	In-Channel	Streams and Waterways	RF-103+50-IC-SW	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent	
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Wetland	Herbaceous Rangeland	RF-103+50-SW150	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	High Terrace	Herbaceous Rangeland	RF-103+50-SW20	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Low Terrace	Herbaceous Rangeland	RF-103+50-SW220	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Floodplain	Herbaceous Rangeland	RF-103+50-SW5	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Low Terrace	Herbaceous Rangeland	RF-103+50-SW90	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Intermed Terrace	Herbaceous Rangeland	RF-109+00-SW165	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Up High Terrace	Herbaceous Rangeland	RF-109+00-SW195	0-1	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Natural Levee	Herbaceous Rangeland	RF-109+00-SW20	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Low Terrace	Herbaceous Rangeland	RF-109+00-SW30	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Intermed Terrace	Herbaceous Rangeland	RF-109+00-SW35	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Floodplain	Herbaceous Rangeland	RF-109+00-SW5	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	In-Channel	In-Channel	Streams and Waterways	RF-112+50-IC-C	0-2	In-Channel Sediment	USCS							USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS							USEPA 1613-TRP/RT or equivalent
	In-Channel	In-Channel	Streams and Waterways	RF-112+50-IC-NE	0-2	In-Channel Sediment	USCS							USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS							USEPA 1613-TRP/RT or equivalent
	In-Channel	In-Channel	Streams and Waterways	RF-112+50-IC-SW	0-2	In-Channel Sediment	USCS							USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS							USEPA 1613-TRP/RT or equivalent
	Bank	Intermed Terrace	Herbaceous Rangeland	RF-112+50-SW110	0-3	Overbank Soil	USCS							USEPA 1613-TRP/RT or equivalent
	Bank	Natural Levee	Herbaceous Rangeland	RF-112+50-SW15	0-3	Overbank Soil	USCS							USEPA 1613-TRP/RT or equivalent
	Bank	Low Terrace	Herbaceous Rangeland	RF-112+50-SW35	0-3	Overbank Soil	USCS							USEPA 1613-TRP/RT or equivalent
	Bank	Low Terrace	Herbaceous Rangeland	RF-115+00-SW175	0-3	Overbank Soil	USCS							USEPA 1613-TRP/RT or equivalent
	Bank	Floodplain	Herbaceous Rangeland	RF-115+00-SW5	0-3	Overbank Soil	USCS							USEPA 1613-TRP/RT or equivalent
	Bank	Low Terrace	Herbaceous Rangeland	RF-115+00-SW50	0-3	Overbank Soil	USCS							USEPA 1613-TRP/RT or equivalent
	Bank	High Terrace	Herbaceous Rangeland	RF-82+00-SW120	0-3	Overbank Soil	USCS							USEPA 1613-TRP/RT or equivalent
Bank	Intermed Terrace	Herbaceous Rangeland	RF-82+00-SW185	0-3	Overbank Soil	USCS							USEPA 1613-TRP/RT or equivalent	
Bank	Natural Levee	Herbaceous Rangeland	RF-82+00-SW25	0-3	Overbank Soil	USCS							USEPA 1613-TRP/RT or equivalent	
Bank	Low Int Terrace	Herbaceous Rangeland	RF-82+00-SW50	0-3	Overbank Soil	USCS							USEPA 1613-TRP/RT or equivalent	
Bank	Low Terrace	Herbaceous Rangeland	RF-82+00-SW55	0-3	Overbank Soil	USCS							USEPA 1613-TRP/RT or equivalent	

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Reach	Proximity	Geomorphic Feature	Land Use	Sample ID	Target Core Depth (ft)	Media	Sediment/Soil Classification <sup>(3)</sup>	Protocol <sup>(4)</sup>					Analytical Method <sup>(5)</sup>	
								GeoProbe	Sampling Tube and CAB	Bucket Auger	Piston Sampler	Hand Core		
	In-Channel	In-Channel	Streams and Waterways	RF-86+00-IC-C	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent	
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	In-Channel	In-Channel	Streams and Waterways	RF-86+00-IC-NE	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent	
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	In-Channel	In-Channel	Streams and Waterways	RF-86+00-IC-SW	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent	
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Low Terrace	Herbaceous Rangeland	RF-86+00-SW15	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Intermed Terrace	Herbaceous Rangeland	RF-86+00-SW180	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Low Int Terrace	Herbaceous Rangeland	RF-86+00-SW260	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Intermed Terrace	Herbaceous Rangeland	RF-86+00-SW320	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Low Int Terrace	Herbaceous Rangeland	RF-86+00-SW80	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	In-Channel	In-Channel	Streams and Waterways	RF-90+50-IC-C	0-2	In-Channel Sediment	USCS							USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS							
	In-Channel	In-Channel	Streams and Waterways	RF-90+50-IC-NE	0-2	In-Channel Sediment	USCS							USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS							
	In-Channel	In-Channel	Streams and Waterways	RF-90+50-IC-SW	0-2	In-Channel Sediment	USCS							USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS							
	Bank	Floodplain	Herbaceous Rangeland	RF-90+50-SW10	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Low Terrace	Herbaceous Rangeland	RF-90+50-SW150	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Low Int Terrace	Herbaceous Rangeland	RF-90+50-SW220	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
Bank	Natural Levee	Herbaceous Rangeland	RF-90+50-SW25	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent		
Bank	Intermed Terrace	Herbaceous Rangeland	RF-90+50-SW260	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent		
Bank	Low Terrace	Herbaceous Rangeland	RF-90+50-SW45	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent		
Bank	Low Int Terrace	Herbaceous Rangeland	RF-90+50-SW75	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent		
Bank	Floodplain	Herbaceous Rangeland	RF-98+00-SW15	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent		
Bank	Low Terrace	Herbaceous Rangeland	RF-98+00-SW210	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent		
Bank	Natural Levee	Herbaceous Rangeland	RF-98+00-SW30	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent		
Bank	Wetland	Herbaceous Rangeland	RF-98+00-SW50	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent		
Bank	Low Terrace	Herbaceous Rangeland	RF-98+00-SW80	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent		
G	Tributary	In-Channel	Streams and Waterways	RG-116+00-T-SW720	0-1	Tributary	USCS						USEPA 1613-TRP/RT or equivalent	
	Tributary	In-Channel	Streams and Waterways	RG-116+00-T-SW90	0-1	Tributary	USCS						USEPA 1613-TRP/RT or equivalent	
	In-Channel	In-Channel	Streams and Waterways	RG-117+00-IC-C	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent	
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	In-Channel	In-Channel	Streams and Waterways	RG-117+00-IC-NE	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent	
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	In-Channel	In-Channel	Streams and Waterways	RG-117+00-IC-SW	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent	
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	High Terrace	Herbaceous Rangeland	RG-117+00-SW185	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Low Terrace	Herbaceous Rangeland	RG-117+00-SW30	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Floodplain	Herbaceous Rangeland	RG-117+00-SW5	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Intermed Terrace	Herbaceous Rangeland	RG-117+00-SW90	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Natural Levee	Industrial	RG-122+00-NE10	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Low Terrace	Industrial	RG-122+00-NE45	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Floodplain	Industrial	RG-122+00-NE70	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Low Terrace	Herbaceous Rangeland	RG-122+00-SW105	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Intermed Terrace	Herbaceous Rangeland	RG-122+00-SW25	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	In-Channel	In-Channel	Streams and Waterways	RG-130+50-IC-C	0-2	In-Channel Sediment	USCS							USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS							
	In-Channel	In-Channel	Streams and Waterways	RG-130+50-IC-NE	0-2	In-Channel Sediment	USCS							USEPA 1613-TRP/RT or equivalent
2-2.5					Native Soil	USCS								USEPA 1613-TRP/RT or equivalent
In-Channel	In-Channel	Streams and Waterways	RG-130+50-IC-SW	0-2	In-Channel Sediment	USCS							USEPA 1613-TRP/RT or equivalent	
				2-2.5	Native Soil	USCS								USEPA 1613-TRP/RT or equivalent

**Table 1  
Tittabawassee River Project  
Soil & Sediment Sampling to Identify Deposition Areas**

Reach	Proximity	Geomorphic Feature	Land Use	Sample ID	Target Core Depth (ft)	Media	Sediment/Soil Classification <sup>(3)</sup>	Protocol <sup>(4)</sup>					Analytical Method <sup>(5)</sup>	
								GeoProbe	Sampling Tube and CAB	Bucket Auger	Piston Sampler	Hand Core		
	Bank	Natural Levee	Industrial	RG-130+50-NE10	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Low Terrace	Industrial	RG-130+50-NE30	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Floodplain	Industrial	RG-130+50-NE80	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Intermed Terrace	Herbaceous Rangeland	RG-130+50-SW185	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Intermed Terrace	Herbaceous Rangeland	RG-130+50-SW350	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Intermed Terrace	Herbaceous Rangeland	RG-130+50-SW40	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	In-Channel	In-Channel	Streams and Waterways	RG-135+50-IC-C	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent	
					2-2.5	Native Soil	USCS							
	In-Channel	In-Channel	Streams and Waterways	RG-135+50-IC-NE	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent	
					2-2.5	Native Soil	USCS							
	In-Channel	In-Channel	Streams and Waterways	RG-135+50-IC-SW	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent	
					2-2.5	Native Soil	USCS							
	Bank	Low Terrace	Industrial	RG-135+50-NE10	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Floodplain	Industrial	RG-135+50-NE30	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Intermed Terrace	Herbaceous Rangeland	RG-135+50-SW15	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Wetland	Herbaceous Rangeland	RG-135+50-SW270	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Low Terrace	Herbaceous Rangeland	RG-135+50-SW30	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Intermed Terrace	Herbaceous Rangeland	RG-135+50-SW320	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Intermed Terrace	Herbaceous Rangeland	RG-135+50-SW630	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Wetland	Herbaceous Rangeland	RG-135+50-SW95	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	In-Channel	In-Channel	Streams and Waterways	RG-140+00-IC-C	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent	
					2-2.5	Native Soil	USCS							
	In-Channel	In-Channel	Streams and Waterways	RG-140+00-IC-NE	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent	
					2-2.5	Native Soil	USCS							
	In-Channel	In-Channel	Streams and Waterways	RG-140+00-IC-SW	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent	
					2-2.5	Native Soil	USCS							
	Bank	Floodplain	Herbaceous Rangeland	RG-140+00-SW15	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Low Terrace	Herbaceous Rangeland	RG-140+00-SW200	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Wetland	Herbaceous Rangeland	RG-140+00-SW275	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Intermed Terrace	Herbaceous Rangeland	RG-140+00-SW500	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Low Terrace	Herbaceous Rangeland	RG-140+00-SW70	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
H	Tributary	In-Channel	Streams and Waterways	RH-147+00-T-SW200	0-1	Tributary	USCS						USEPA 1613-TRP/RT or equivalent	
	Tributary	In-Channel	Streams and Waterways	RH-147+00-T-SW40	0-1	Tributary	USCS						USEPA 1613-TRP/RT or equivalent	
	Tributary	In-Channel	Streams and Waterways	RH-155+00-T-SW50	0-1	Tributary	USCS						USEPA 1613-TRP/RT or equivalent	
	Tributary	In-Channel	Streams and Waterways	RH-161+50-T-SW260	0-1	Tributary	USCS						USEPA 1613-TRP/RT or equivalent	
	Tributary	In-Channel	Streams and Waterways	RH-161+50-T-SW50	0-1	Tributary	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Floodplain	Herbaceous Rangeland	RH-142+00-SW10	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Low Terrace	Herbaceous Rangeland	RH-142+00-SW120	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Wetland	Herbaceous Rangeland	RH-142+00-SW240	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Intermed Terrace	Herbaceous Rangeland	RH-142+00-SW365	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Intermed Terrace	Herbaceous Rangeland	RH-142+00-SW665	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Floodplain	Herbaceous Rangeland	RH-142+00-SW85	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
		In-Channel	In-Channel	Streams and Waterways	RH-147+00-IC-C	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
						2-2.5	Native Soil	USCS						
		In-Channel	In-Channel	Streams and Waterways	RH-147+00-IC-NE	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
						2-2.5	Native Soil	USCS						
		In-Channel	In-Channel	Streams and Waterways	RH-147+00-IC-SW	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
						2-2.5	Native Soil	USCS						
		Bank	Natural Levee	Herbaceous Rangeland	RH-147+00-SW10	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
		Bank	High Terrace	Herbaceous Rangeland	RH-147+00-SW130	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
		Bank	Floodplain	Herbaceous Rangeland	RH-147+00-SW30	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	In-Channel	In-Channel	Streams and Waterways	RH-158+00-IC-C	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent	

**Table 1  
Tittabawassee River Project  
Soil & Sediment Sampling to Identify Deposition Areas**

Reach	Proximity	Geomorphic Feature	Land Use	Sample ID	Target Core Depth (ft)	Media	Sediment/Soil Classification <sup>(3)</sup>	Protocol <sup>(4)</sup>					Analytical Method <sup>(5)</sup>
								GeoProbe	Sampling Tube and CAB	Bucket Auger	Piston Sampler	Hand Core	
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent
	In-Channel	In-Channel	Streams and Waterways	RH-158+00-IC-NE	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent
	In-Channel	In-Channel	Streams and Waterways	RH-158+00-IC-SW	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Floodplain	Industrial	RH-158+00-NE20	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Low Terrace	Industrial	RH-158+00-NE70	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Intermed Terrace	Herbaceous Rangeland	RH-158+00-SW175	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Low Terrace	Herbaceous Rangeland	RH-158+00-SW235	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Intermed Terrace	Herbaceous Rangeland	RH-158+00-SW25	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Intermed Terrace	Herbaceous Rangeland	RH-158+00-SW365	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Intermed Terrace	Herbaceous Rangeland	RH-158+00-SW515	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	In-Channel	In-Channel	Streams and Waterways	RH-162+00-IC-C	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent
	In-Channel	In-Channel	Streams and Waterways	RH-162+00-IC-NE	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent
	In-Channel	In-Channel	Streams and Waterways	RH-162+00-IC-SW	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Floodplain	Industrial	RH-162+00-NE165	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Intermed Terrace	Industrial	RH-162+00-NE30	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Intermed Terrace	Herbaceous Rangeland	RH-162+00-SW25	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
I	In-Channel	In-Channel	Streams and Waterways	RI-167+50-IC-C	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent
	In-Channel	In-Channel	Streams and Waterways	RI-167+50-IC-NE	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent
	In-Channel	In-Channel	Streams and Waterways	RI-167+50-IC-SW	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Floodplain	Industrial	RI-167+50-NE10	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Natural Levee	Herbaceous Rangeland	RI-167+50-SW10	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Intermed Terrace	Herbaceous Rangeland	RI-167+50-SW110	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Intermed Terrace	Herbaceous Rangeland	RI-167+50-SW15	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Intermed Terrace	Herbaceous Rangeland	RI-167+50-SW270	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Wetland	Herbaceous Rangeland	RI-167+50-SW325	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Wetland	Herbaceous Rangeland	RI-167+50-SW550	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Intermed Terrace	Herbaceous Rangeland	RI-167+50-SW710	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Tributary	In-Channel	Streams and Waterways	RI-170+50-T-SW400	0-1	Tributary	USCS						USEPA 1613-TRP/RT or equivalent
	Tributary	In-Channel	Streams and Waterways	RI-170+50-T-SW70	0-1	Tributary	USCS						USEPA 1613-TRP/RT or equivalent
	In-Channel	In-Channel	Streams and Waterways	RI-172+00-IC-C	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent
	In-Channel	In-Channel	Streams and Waterways	RI-172+00-IC-NE	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent
	In-Channel	In-Channel	Streams and Waterways	RI-172+00-IC-SW	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Low Terrace	Herbaceous Rangeland	RI-172+00-SW15	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Floodplain	Herbaceous Rangeland	RI-172+00-SW25	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Intermed Terrace	Herbaceous Rangeland	RI-172+00-SW290	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Intermed Terrace	Herbaceous Rangeland	RI-172+00-SW50	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Wetland	Herbaceous Rangeland	RI-172+00-SW500	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	In-Channel	In-Channel	Streams and Waterways	RI-177+50-IC-C	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent
	In-Channel	In-Channel	Streams and Waterways	RI-177+50-IC-NE	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent

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Reach	Proximity	Geomorphic Feature	Land Use	Sample ID	Target Core Depth (ft)	Media	Sediment/Soil Classification <sup>(3)</sup>	Protocol <sup>(4)</sup>					Analytical Method <sup>(5)</sup>	
								GeoProbe	Sampling Tube and CAB	Bucket Auger	Piston Sampler	Hand Core		
I	In-Channel	In-Channel	Streams and Waterways	RI-177+50-IC-SW	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent	
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	In-Channel	In-Channel	Streams and Waterways	RI-184+00-IC-C	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent	
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	In-Channel	In-Channel	Streams and Waterways	RI-184+00-IC-NE	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent	
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	In-Channel	In-Channel	Streams and Waterways	RI-184+00-IC-SW	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent	
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Low Terrace	Industrial	RI-184+00-NE10	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Intermed Terrace	Industrial	RI-184+00-NE35	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	High Terrace	Industrial	RI-184+00-NE75	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Floodplain	Herbaceous Rangeland	RI-184+00-SW10	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Wetland	Herbaceous Rangeland	RI-184+00-SW210	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Natural Levee	Herbaceous Rangeland	RI-184+00-SW30	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
Bank	Wetland	Herbaceous Rangeland	RI-184+00-SW420	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent		
Bank	Low Terrace	Herbaceous Rangeland	RI-184+00-SW45	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent		
Bank	Intermed Terrace	Herbaceous Rangeland	RI-184+00-SW520	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent		
Bank	Intermed Terrace	Herbaceous Rangeland	RI-184+00-SW70	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent		
J	In-Channel	In-Channel	Streams and Waterways	RJ-187+50-IC-C	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent	
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	In-Channel	In-Channel	Streams and Waterways	RJ-187+50-IC-NE	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent	
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	In-Channel	In-Channel	Streams and Waterways	RJ-187+50-IC-SW	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent	
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Intermed Terrace	Broadleaved Forest (Generally Deciduous)	RJ-187+50-NE15	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	High Terrace	Broadleaved Forest (Generally Deciduous)	RJ-187+50-NE75	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Floodplain	Herbaceous Rangeland	RJ-187+50-SW10	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Intermed Terrace	Herbaceous Rangeland	RJ-187+50-SW115	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Wetland	Herbaceous Rangeland	RJ-187+50-SW165	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Natural Levee	Herbaceous Rangeland	RJ-187+50-SW20	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Intermed Terrace	Herbaceous Rangeland	RJ-187+50-SW35	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Wetland	Herbaceous Rangeland	RJ-187+50-SW365	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Intermed Terrace	Herbaceous Rangeland	RJ-187+50-SW415	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	In-Channel	In-Channel	Streams and Waterways	RJ-192+50-IC-C	0-2	In-Channel Sediment	USCS							USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS							USEPA 1613-TRP/RT or equivalent
	In-Channel	In-Channel	Streams and Waterways	RJ-192+50-IC-NE	0-2	In-Channel Sediment	USCS							USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS							USEPA 1613-TRP/RT or equivalent
	In-Channel	In-Channel	Streams and Waterways	RJ-192+50-IC-SW	0-2	In-Channel Sediment	USCS							USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS							USEPA 1613-TRP/RT or equivalent
	Bank	Intermed Terrace	Broadleaved Forest (Generally Deciduous)	RJ-192+50-NE15	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	High Terrace	Broadleaved Forest (Generally Deciduous)	RJ-192+50-NE180	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Hist Nat Levee	Broadleaved Forest (Generally Deciduous)	RJ-192+50-NE50	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
Bank	High Terrace	Broadleaved Forest (Generally Deciduous)	RJ-192+50-NE80	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent		
Bank	Natural Levee	Herbaceous Rangeland	RJ-192+50-SW15	0-5	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent		
Bank	Wetland	Herbaceous Rangeland	RJ-192+50-SW150	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent		
Bank	Intermed Terrace	Herbaceous Rangeland	RJ-192+50-SW25	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent		
Bank	Intermed Terrace	Herbaceous Rangeland	RJ-192+50-SW290	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent		
Bank	Intermed Terrace	Herbaceous Rangeland	RJ-192+50-SW40	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent		
Bank	Low Terrace	Herbaceous Rangeland	RJ-192+50-SW80	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent		
Tributary	In-Channel	Streams and Waterways	RJ-195+50-T-SW210	0-1	Tributary	USCS							USEPA 1613-TRP/RT or equivalent	
K	In-Channel	In-Channel	Streams and Waterways	RK-197+00-IC-C	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent	
					2-2.5	Native Soil	USCS							USEPA 1613-TRP/RT or equivalent



**Table 1  
Tittabawassee River Project  
Soil & Sediment Sampling to Identify Deposition Areas**

Reach	Proximity	Geomorphic Feature	Land Use	Sample ID	Target Core Depth (ft)	Media	Sediment/Soil Classification <sup>(3)</sup>	Protocol <sup>(4)</sup>					Analytical Method <sup>(5)</sup>
								GeoProbe	Sampling Tube and CAB	Bucket Auger	Piston Sampler	Hand Core	
	In-Channel	In-Channel	Streams and Waterways	RK-197+00-IC-NE	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent
	In-Channel	In-Channel	Streams and Waterways	RK-197+00-IC-SW	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Intermed Terrace	Broadleaved Forest (Generally Deciduous)	RK-197+00-NE25	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	High Terrace	Non-Forested (non-wooded) Wetlands	RK-197+00-NE325	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Low Terrace	Broadleaved Forest (Generally Deciduous)	RK-197+00-NE40	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Low Terrace	Non-Forested (non-wooded) Wetlands	RK-197+00-NE420	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Floodplain	Broadleaved Forest (Generally Deciduous)	RK-197+00-NE5	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Upland	Urban, Made Land	RK-197+00-NE545	0-1	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	High Terrace	Broadleaved Forest (Generally Deciduous)	RK-197+00-NE70	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	High Terrace	Herbaceous Rangeland	RK-197+00-SW265	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Intermed Terrace	Herbaceous Rangeland	RK-197+00-SW35	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Tributary	In-Channel	Streams and Waterways	RK-199+00-T-SW60	0-1	Tributary	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Low Terrace	Broadleaved Forest (Generally Deciduous)	RK-201+00-NE10	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Intermed Terrace	Broadleaved Forest (Generally Deciduous)	RK-201+00-NE25	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Low Terrace	Non-Forested (non-wooded) Wetlands	RK-201+00-NE425	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Wetland	Non-Forested (non-wooded) Wetlands	RK-201+00-NE440	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Low Terrace	Urban, Made Land	RK-201+00-NE580	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Intermed Terrace	Broadleaved Forest (Generally Deciduous)	RK-201+00-NE60	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	High Terrace	Broadleaved Forest (Generally Deciduous)	RK-201+00-NE65	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	High Terrace	Herbaceous Rangeland	RK-201+00-SW145	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Low Terrace	Herbaceous Rangeland	RK-201+00-SW220	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Intermed Terrace	Herbaceous Rangeland	RK-201+00-SW25	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Low Terrace	Herbaceous Rangeland	RK-201+00-SW345	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	High Terrace	Herbaceous Rangeland	RK-201+00-SW370	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Tributary	In-Channel	Streams and Waterways	RK-201+00-T-SW360	0-1	Tributary	USCS						USEPA 1613-TRP/RT or equivalent
	In-Channel	In-Channel	Streams and Waterways	RK-206+00-IC-C	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent
	In-Channel	In-Channel	Streams and Waterways	RK-206+00-IC-NE	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent
	In-Channel	In-Channel	Streams and Waterways	RK-206+00-IC-SW	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	High Terrace	Non-Forested (non-wooded) Wetlands	RK-206+00-NE170	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Low Terrace	Non-Forested (non-wooded) Wetlands	RK-206+00-NE300	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Intermed Terrace	Broadleaved Forest (Generally Deciduous)	RK-206+00-NE35	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	High Terrace	Broadleaved Forest (Generally Deciduous)	RK-206+00-NE50	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Wetland	Broadleaved Forest (Generally Deciduous)	RK-206+00-NE515	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Low Terrace	Urban, Made Land	RK-206+00-NE665	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	High Terrace	Herbaceous Rangeland	RK-206+00-SW120	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Intermed Terrace	Herbaceous Rangeland	RK-206+00-SW25	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	High Terrace	Herbaceous Rangeland	RK-206+00-SW360	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Up High Terrace	Herbaceous Rangeland	RK-206+00-SW425	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Up High Terrace	Herbaceous Rangeland	RK-206+00-SW690	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Intermed Terrace	Herbaceous Rangeland	RK-206+00-SW75	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Low Terrace	Broadleaved Forest (Generally Deciduous)	RK-211+50-NE185	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Natural Levee	Broadleaved Forest (Generally Deciduous)	RK-211+50-NE20	0-5	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Wetland	Broadleaved Forest (Generally Deciduous)	RK-211+50-NE220	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	High Terrace	Broadleaved Forest (Generally Deciduous)	RK-211+50-NE45	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Wetland	Broadleaved Forest (Generally Deciduous)	RK-211+50-NE555	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Low Terrace	Urban, Made Land	RK-211+50-NE645	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Upland	Urban, Made Land	RK-211+50-NE710	0-1	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent

**Table 1  
Tittabawassee River Project  
Soil & Sediment Sampling to Identify Deposition Areas**

Reach	Proximity	Geomorphic Feature	Land Use	Sample ID	Target Core Depth (ft)	Media	Sediment/Soil Classification <sup>(3)</sup>	Protocol <sup>(4)</sup>					Analytical Method <sup>(5)</sup>
								GeoProbe	Sampling Tube and CAB	Bucket Auger	Piston Sampler	Hand Core	
	Bank	High Terrace	Herbaceous Rangeland	RK-211+50-SW260	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Low Terrace	Herbaceous Rangeland	RK-211+50-SW30	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Up High Terrace	Herbaceous Rangeland	RK-211+50-SW480	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Intermed Terrace	Herbaceous Rangeland	RK-211+50-SW55	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Up High Terrace	Herbaceous Rangeland	RK-211+50-SW785	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	High Terrace	Herbaceous Rangeland	RK-211+50-SW80	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Tributary	In-Channel	Herbaceous Rangeland	RK-212+00-T-SW40	0-1	Tributary	USCS						USEPA 1613-TRP/RT or equivalent
	In-Channel	In-Channel	Streams and Waterways	RK-216+50-IC-C	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
							2-2.5	Native Soil	USCS				
	In-Channel	In-Channel	Streams and Waterways	RK-216+50-IC-NE	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
							2-2.5	Native Soil	USCS				
	In-Channel	In-Channel	Streams and Waterways	RK-216+50-IC-SW	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
							2-2.5	Native Soil	USCS				
	Bank	Low Terrace	Broadleaved Forest (Generally Deciduous)	RK-216+50-NE115	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	High Terrace	Broadleaved Forest (Generally Deciduous)	RK-216+50-NE185	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Natural Levee	Broadleaved Forest (Generally Deciduous)	RK-216+50-NE20	0-5	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	High Terrace	Broadleaved Forest (Generally Deciduous)	RK-216+50-NE35	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Wetland	Broadleaved Forest (Generally Deciduous)	RK-216+50-NE420	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Low Terrace	Urban, Made Land	RK-216+50-NE605	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Hist Nat Levee	Broadleaved Forest (Generally Deciduous)	RK-216+50-NE70	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	High Terrace	Herbaceous Rangeland	RK-216+50-SW370	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Up High Terrace	Herbaceous Rangeland	RK-216+50-SW440	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Hist Nat Levee	Herbaceous Rangeland	RK-216+50-SW45	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	High Terrace	Herbaceous Rangeland	RK-216+50-SW75	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Up High Terrace	Herbaceous Rangeland	RK-216+50-SW885	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Wetland	Broadleaved Forest (Generally Deciduous)	RK-219+50-NE135	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Natural Levee	Broadleaved Forest (Generally Deciduous)	RK-219+50-NE30	0-5	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Wetland	Broadleaved Forest (Generally Deciduous)	RK-219+50-NE485	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Low Terrace	Broadleaved Forest (Generally Deciduous)	RK-219+50-NE570	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Hist Nat Levee	Broadleaved Forest (Generally Deciduous)	RK-219+50-NE70	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	High Terrace	Herbaceous Rangeland	RK-219+50-SW100	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Up High Terrace	Herbaceous Rangeland	RK-219+50-SW390	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Intermed Terrace	Herbaceous Rangeland	RK-219+50-SW40	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Hist Nat Levee	Herbaceous Rangeland	RK-219+50-SW60	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Intermed Terrace	Broadleaved Forest (Generally Deciduous)	RK-224+50-NE115	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Low Terrace	Broadleaved Forest (Generally Deciduous)	RK-224+50-NE160	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Floodplain	Broadleaved Forest (Generally Deciduous)	RK-224+50-NE20	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Intermed Terrace	Broadleaved Forest (Generally Deciduous)	RK-224+50-NE30	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Wetland	Broadleaved Forest (Generally Deciduous)	RK-224+50-NE330	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Natural Levee	Broadleaved Forest (Generally Deciduous)	RK-224+50-NE35	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Hist Nat Levee	Broadleaved Forest (Generally Deciduous)	RK-224+50-NE85	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	High Terrace	Herbaceous Rangeland	RK-224+50-SW305	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Intermed Terrace	Herbaceous Rangeland	RK-224+50-SW45	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Up High Terrace	Cropland, Rotation, & Permanent Pasture	RK-224+50-SW700	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	High Terrace	Herbaceous Rangeland	RK-224+50-SW90	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Tributary	In-Channel	Streams and Waterways	RK-225+00-T-SW340	0-1	Tributary	USCS						USEPA 1613-TRP/RT or equivalent
	Tributary	In-Channel	Streams and Waterways	RK-225+00-T-SW75	0-1	Tributary	USCS						USEPA 1613-TRP/RT or equivalent
	In-Channel	In-Channel	Streams and Waterways	RK-232+00-IC-C	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
							2-2.5	Native Soil	USCS				
	In-Channel	In-Channel	Streams and Waterways	RK-232+00-IC-NE	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
							2-2.5	Native Soil	USCS				
	In-Channel	In-Channel	Streams and Waterways	RK-232+00-IC-SW	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent

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Tittabawassee River Project  
Soil & Sediment Sampling to Identify Deposition Areas**

Reach	Proximity	Geomorphic Feature	Land Use	Sample ID	Target Core Depth (ft)	Media	Sediment/Soil Classification <sup>(3)</sup>	Protocol <sup>(4)</sup>					Analytical Method <sup>(5)</sup>
								GeoProbe	Sampling Tube and CAB	Bucket Auger	Piston Sampler	Hand Core	
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	High Terrace	Broadleaved Forest (Generally Deciduous)	RK-232+00-NE190	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	High Terrace	Broadleaved Forest (Generally Deciduous)	RK-232+00-NE40	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	High Terrace	Herbaceous Rangeland	RK-232+00-SW20	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Intermed Terrace	Herbaceous Rangeland	RK-232+00-SW75	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	High Terrace	Herbaceous Rangeland	RK-232+00-SW205	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
L	Bank	Wetland	Broadleaved Forest (Generally Deciduous)	RL-235+50-NE195	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Intermed Terrace	Broadleaved Forest (Generally Deciduous)	RL-235+50-NE35	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Up High Terrace	Herbaceous Rangeland	RL-235+50-NE430	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Natural Levee	Broadleaved Forest (Generally Deciduous)	RL-235+50-NE45	0-5	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Low Terrace	Broadleaved Forest (Generally Deciduous)	RL-235+50-NE95	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Intermed Terrace	Herbaceous Rangeland	RL-235+50-SW130	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	High Terrace	Cropland, Rotation, & Permanent Pasture	RL-235+50-SW165	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Intermed Terrace	Cropland, Rotation, & Permanent Pasture	RL-235+50-SW360	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Low Terrace	Cropland, Rotation, & Permanent Pasture	RL-235+50-SW460	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	High Terrace	Cropland, Rotation, & Permanent Pasture	RL-235+50-SW525	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Up High Terrace	Cropland, Rotation, & Permanent Pasture	RL-235+50-SW615	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Intermed Terrace	Herbaceous Rangeland	RL-235+50-SW70	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Low Terrace	Herbaceous Rangeland	RL-235+50-SW10	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	In-Channel	In-Channel	Streams and Waterways	RL-239+00-IC-C	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent
	In-Channel	In-Channel	Streams and Waterways	RL-239+00-IC-NE	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent
	In-Channel	In-Channel	Streams and Waterways	RL-239+00-IC-SW	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Wetland	Broadleaved Forest (Generally Deciduous)	RL-239+00-NE145	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Natural Levee	Broadleaved Forest (Generally Deciduous)	RL-239+00-NE15	0-5	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Intermed Terrace	Broadleaved Forest (Generally Deciduous)	RL-239+00-NE30	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Hist Nat Levee	Broadleaved Forest (Generally Deciduous)	RL-239+00-NE50	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Low Terrace	Broadleaved Forest (Generally Deciduous)	RL-239+00-NE70	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Intermed Terrace	Cropland, Rotation, & Permanent Pasture	RL-239+00-SW10	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Intermed Terrace	Cropland, Rotation, & Permanent Pasture	RL-239+00-SW110	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Low Terrace	Cropland, Rotation, & Permanent Pasture	RL-239+00-SW150	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Intermed Terrace	Broadleaved Forest (Generally Deciduous)	RL-239+00-SW335	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Low Terrace	Broadleaved Forest (Generally Deciduous)	RL-239+00-SW455	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Up High Terrace	Cropland, Rotation, & Permanent Pasture	RL-239+00-SW560	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	High Terrace	Cropland, Rotation, & Permanent Pasture	RL-239+00-SW70	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Up High Terrace	Cropland, Rotation, & Permanent Pasture	RL-239+00-SW905	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	In-Channel	In-Channel	Streams and Waterways	RL-246+00-IC-C	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent
	In-Channel	In-Channel	Streams and Waterways	RL-246+00-IC-NE	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent
In-Channel	In-Channel	Streams and Waterways	RL-246+00-IC-SW	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent	
				2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent	
Bank	Hist Nat Levee	Broadleaved Forest (Generally Deciduous)	RL-246+00-NE20	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
Bank	Wetland	Broadleaved Forest (Generally Deciduous)	RL-246+00-NE230	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
Bank	Up High Terrace	Herbaceous Rangeland	RL-246+00-NE350	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
Bank	High Terrace	Broadleaved Forest (Generally Deciduous)	RL-246+00-NE55	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
Bank	Up High Terrace	Herbaceous Rangeland	RL-246+00-NE750	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
Bank	Low Terrace	Broadleaved Forest (Generally Deciduous)	RL-246+00-NE95	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
Bank	Low Terrace	Cropland, Rotation, & Permanent Pasture	RL-246+00-SW130	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
Bank	Intermed Terrace	Cropland, Rotation, & Permanent Pasture	RL-246+00-SW20	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	

**Table 1  
Tittabawassee River Project  
Soil & Sediment Sampling to Identify Deposition Areas**

Reach	Proximity	Geomorphic Feature	Land Use	Sample ID	Target Core Depth (ft)	Media	Sediment/Soil Classification <sup>(3)</sup>	Protocol <sup>(4)</sup>					Analytical Method <sup>(5)</sup>
								GeoProbe	Sampling Tube and CAB	Bucket Auger	Piston Sampler	Hand Core	
	Bank	Wetland	Broadleaved Forest (Generally Deciduous)	RL-246+00-SW265	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Low Terrace	Broadleaved Forest (Generally Deciduous)	RL-246+00-SW330	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Low Terrace	Broadleaved Forest (Generally Deciduous)	RL-246+00-SW475	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Up High Terrace	Cropland, Rotation, & Permanent Pasture	RL-246+00-SW540	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Up High Terrace	Cropland, Rotation, & Permanent Pasture	RL-246+00-SW725	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	High Terrace	Cropland, Rotation, & Permanent Pasture	RL-246+00-SW85	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	In-Channel	In-Channel	Streams and Waterways	RL-252+00-IC-C	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						
	In-Channel	In-Channel	Streams and Waterways	RL-252+00-IC-NE	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						
	In-Channel	In-Channel	Streams and Waterways	RL-252+00-IC-SW	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						
	Bank	Wetland	Broadleaved Forest (Generally Deciduous)	RL-252+00-NE155	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Natural Levee	Broadleaved Forest (Generally Deciduous)	RL-252+00-NE20	0-5	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Up High Terrace	Shrub Rangeland	RL-252+00-NE275	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Floodplain	Broadleaved Forest (Generally Deciduous)	RL-252+00-NE5	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Up High Terrace	Shrub Rangeland	RL-252+00-NE580	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	High Terrace	Broadleaved Forest (Generally Deciduous)	RL-252+00-NE60	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Low Terrace	Broadleaved Forest (Generally Deciduous)	RL-252+00-NE80	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	High Terrace	Cropland, Rotation, & Permanent Pasture	RL-252+00-SW30	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Wetland	Cropland, Rotation, & Permanent Pasture	RL-252+00-SW320	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Low Terrace	Cropland, Rotation, & Permanent Pasture	RL-252+00-SW410	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Up High Terrace	Cropland, Rotation, & Permanent Pasture	RL-252+00-SW495	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Intermed Terrace	Cropland, Rotation, & Permanent Pasture	RL-252+00-SW5	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Low Terrace	Cropland, Rotation, & Permanent Pasture	RL-252+00-SW70	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Low Terrace	Herbaceous Rangeland	RL-252+00-SW730	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	In-Channel	In-Channel	Streams and Waterways	RL-258+50-IC-C	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						
	In-Channel	In-Channel	Streams and Waterways	RL-258+50-IC-NE	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						
	In-Channel	In-Channel	Streams and Waterways	RL-258+50-IC-SW	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						
	Bank	High Terrace	Shrub Rangeland	RL-258+50-NE310	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Intermed Terrace	Shrub Rangeland	RL-258+50-NE25	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Floodplain	Shrub Rangeland	RL-258+50-NE5	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Intermed Terrace	Shrub Rangeland	RL-258+50-NE550	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	High Terrace	Shrub Rangeland	RL-258+50-NE60	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	High Terrace	Cropland, Rotation, & Permanent Pasture	RL-258+50-NE765	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Up High Terrace	Residential	RL-258+50-NE945	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Low Terrace	Broadleaved Forest (Generally Deciduous)	RL-258+50-SW125	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Intermed Terrace	Broadleaved Forest (Generally Deciduous)	RL-258+50-SW15	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Wetland	Cropland, Rotation, & Permanent Pasture	RL-258+50-SW285	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Up High Terrace	Cropland, Rotation, & Permanent Pasture	RL-258+50-SW435	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	High Terrace	Broadleaved Forest (Generally Deciduous)	RL-258+50-SW45	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Tributary	In-Channel	Streams and Waterways	RL-260+50-T-NE115	0-1	Tributary	USCS						USEPA 1613-TRP/RT or equivalent
	Tributary	In-Channel	Streams and Waterways	RL-260+50-T-NE550	0-1	Tributary	USCS						USEPA 1613-TRP/RT or equivalent
	Tributary	In-Channel	Streams and Waterways	RL-260+50-T-SW320	0-1	Tributary	USCS						USEPA 1613-TRP/RT or equivalent
	Tributary	In-Channel	Streams and Waterways	RL-260+50-T-SW70	0-1	Tributary	USCS						USEPA 1613-TRP/RT or equivalent
M	In-Channel	In-Channel	Streams and Waterways	RM-262+00-IC-C	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						
	In-Channel	In-Channel	Streams and Waterways	RM-262+00-IC-NE	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						

**Table 1  
Tittabawassee River Project  
Soil & Sediment Sampling to Identify Deposition Areas**

Reach	Proximity	Geomorphic Feature	Land Use	Sample ID	Target Core Depth (ft)	Media	Sediment/Soil Classification <sup>(3)</sup>	Protocol <sup>(4)</sup>					Analytical Method <sup>(5)</sup>
								GeoProbe	Sampling Tube and CAB	Bucket Auger	Piston Sampler	Hand Core	
In-Channel	In-Channel	Streams and Waterways	Streams and Waterways	RM-262+00-IC-SW	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	Low Terrace	Cropland, Rotation, & Permanent Pasture	Cropland, Rotation, & Permanent Pasture	RM-262+00-NE15	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	High Terrace	Cropland, Rotation, & Permanent Pasture	Cropland, Rotation, & Permanent Pasture	RM-262+00-NE255	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	High Terrace	Cropland, Rotation, & Permanent Pasture	Cropland, Rotation, & Permanent Pasture	RM-262+00-NE40	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	Floodplain	Cropland, Rotation, & Permanent Pasture	Cropland, Rotation, & Permanent Pasture	RM-262+00-NE5	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	Low Terrace	Broadleaved Forest (Generally Deciduous)	Broadleaved Forest (Generally Deciduous)	RM-262+00-SW145	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	Intermed Terrace	Broadleaved Forest (Generally Deciduous)	Broadleaved Forest (Generally Deciduous)	RM-262+00-SW20	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	High Terrace	Broadleaved Forest (Generally Deciduous)	Broadleaved Forest (Generally Deciduous)	RM-262+00-SW60	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
In-Channel	In-Channel	Streams and Waterways	Streams and Waterways	RM-268+00-IC-C	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent
In-Channel	In-Channel	Streams and Waterways	Streams and Waterways	RM-268+00-IC-NE	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent
In-Channel	In-Channel	Streams and Waterways	Streams and Waterways	RM-268+00-IC-SW	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	Low Terrace	Broadleaved Forest (Generally Deciduous)	Broadleaved Forest (Generally Deciduous)	RM-268+00-NE190	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	High Terrace	Cropland, Rotation, & Permanent Pasture	Cropland, Rotation, & Permanent Pasture	RM-268+00-NE20	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	Wetland	Broadleaved Forest (Generally Deciduous)	Broadleaved Forest (Generally Deciduous)	RM-268+00-NE250	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	Low Terrace	Broadleaved Forest (Generally Deciduous)	Broadleaved Forest (Generally Deciduous)	RM-268+00-NE320	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	Intermed Terrace	Cropland, Rotation, & Permanent Pasture	Cropland, Rotation, & Permanent Pasture	RM-268+00-NE35	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	Floodplain	Cropland, Rotation, & Permanent Pasture	Cropland, Rotation, & Permanent Pasture	RM-268+00-NE5	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	High Terrace	Cropland, Rotation, & Permanent Pasture	Cropland, Rotation, & Permanent Pasture	RM-268+00-NE570	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	Low Terrace	Cropland, Rotation, & Permanent Pasture	Cropland, Rotation, & Permanent Pasture	RM-268+00-SW130	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	High Terrace	Broadleaved Forest (Generally Deciduous)	Broadleaved Forest (Generally Deciduous)	RM-268+00-SW20	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	Intermed Terrace	Cropland, Rotation, & Permanent Pasture	Cropland, Rotation, & Permanent Pasture	RM-268+00-SW335	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	High Terrace	Cropland, Rotation, & Permanent Pasture	Cropland, Rotation, & Permanent Pasture	RM-268+00-SW410	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	Upland	Residential	Residential	RM-268+00-SW465	0-1	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	Hist Nat Levee	Broadleaved Forest (Generally Deciduous)	Broadleaved Forest (Generally Deciduous)	RM-268+00-SW70	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
In-Channel	In-Channel	Streams and Waterways	Streams and Waterways	RM-276+00-IC-C	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent
In-Channel	In-Channel	Streams and Waterways	Streams and Waterways	RM-276+00-IC-NE	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent
In-Channel	In-Channel	Streams and Waterways	Streams and Waterways	RM-276+00-IC-SW	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	High Terrace	Cropland, Rotation, & Permanent Pasture	Cropland, Rotation, & Permanent Pasture	RM-276+00-NE1120	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	Intermed Terrace	Cropland, Rotation, & Permanent Pasture	Cropland, Rotation, & Permanent Pasture	RM-276+00-NE130	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	High Terrace	Herbaceous Rangeland	Herbaceous Rangeland	RM-276+00-NE1740	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	Low Terrace	Cropland, Rotation, & Permanent Pasture	Cropland, Rotation, & Permanent Pasture	RM-276+00-NE190	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	Natural Levee	Cropland, Rotation & Permanent Pasture	Cropland, Rotation & Permanent Pasture	RM-276+00-NE20	0-5	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	Wetland	Broadleaved Forest (Generally Deciduous)	Broadleaved Forest (Generally Deciduous)	RM-276+00-NE360	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	High Terrace	Cropland, Rotation, and Permanent Pasture	Cropland, Rotation, and Permanent Pasture	RM-276+00-NE50	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	Low Terrace	Broadleaved Forest (Generally Deciduous)	Broadleaved Forest (Generally Deciduous)	RM-276+00-NE500	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	High Terrace	Cropland, Rotation, & Permanent Pasture	Cropland, Rotation, & Permanent Pasture	RM-276+00-NE550	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	Low Terrace	Cropland, Rotation, & Permanent Pasture	Cropland, Rotation, & Permanent Pasture	RM-276+00-SW220	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	Intermed Terrace	Cropland, Rotation, & Permanent Pasture	Cropland, Rotation, & Permanent Pasture	RM-276+00-SW30	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	Intermed Terrace	Cropland, Rotation, & Permanent Pasture	Cropland, Rotation, & Permanent Pasture	RM-276+00-SW310	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	Low Terrace	Broadleaved Forest (Generally Deciduous)	Broadleaved Forest (Generally Deciduous)	RM-276+00-SW60	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	Intermed Terrace	Cropland, Rotation, & Permanent Pasture	Cropland, Rotation, & Permanent Pasture	RM-276+00-SW90	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Tributary	In-Channel	Streams and Waterways	Streams and Waterways	RM-280+00-T-NE335	0-1	Tributary	USCS						USEPA 1613-TRP/RT or equivalent
Tributary	In-Channel	Streams and Waterways	Streams and Waterways	RM-280+00-T-NE80	0-1	Tributary	USCS						USEPA 1613-TRP/RT or equivalent
In-Channel	In-Channel	Streams and Waterways	Streams and Waterways	RM-284+00-IC-C	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent

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Tittabawassee River Project  
Soil & Sediment Sampling to Identify Deposition Areas**

Reach	Proximity	Geomorphic Feature	Land Use	Sample ID	Target Core Depth (ft)	Media	Sediment/Soil Classification <sup>(3)</sup>	Protocol <sup>(4)</sup>					Analytical Method <sup>(5)</sup>	
								GeoProbe	Sampling Tube and CAB	Bucket Auger	Piston Sampler	Hand Core		
	In-Channel	In-Channel	Streams and Waterways	RM-284+00-IC-NE	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent	
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	In-Channel	In-Channel	Streams and Waterways	RM-284+00-IC-SW	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent	
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	High Terrace	Cropland, Rotation, & Permanent Pasture	RM-284+00-NE1045	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	High Terrace	Broadleaved Forest (Generally Deciduous)	RM-284+00-NE140	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Natural Levee	Broadleaved Forest (Generally Deciduous)	RM-284+00-NE20	0-5	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Low Terrace	Cropland, Rotation, & Permanent Pasture	RM-284+00-NE215	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Wetland	Cropland, Rotation, & Permanent Pasture	RM-284+00-NE360	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Intermed Terrace	Broadleaved Forest (Generally Deciduous)	RM-284+00-NE40	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Low Terrace	Cropland, Rotation, & Permanent Pasture	RM-284+00-NE450	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	High Terrace	Cropland, Rotation, & Permanent Pasture	RM-284+00-NE510	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	High Terrace	Broadleaved Forest (Generally Deciduous)	RM-284+00-NE55	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Hist Nat Levee	Broadleaved Forest (Generally Deciduous)	RM-284+00-NE90	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Wetland	Cropland, Rotation, & Permanent Pasture	RM-284+00-SW125	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Low Terrace	Cropland, Rotation, & Permanent Pasture	RM-284+00-SW170	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	High Terrace	Cropland, Rotation, & Permanent Pasture	RM-284+00-SW205	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Natural Levee	Broadleaved Forest (Generally Deciduous)	RM-284+00-SW30	0-5	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
Bank	Low Terrace	Broadleaved Forest (Generally Deciduous)	RM-284+00-SW55	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent		
Bank	High Terrace	Broadleaved Forest (Generally Deciduous)	RM-284+00-SW60	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent		
N	In-Channel	In-Channel	Streams and Waterways	RN-290+50-IC-C	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent	
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	In-Channel	In-Channel	Streams and Waterways	RN-290+50-IC-NE	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent	
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	In-Channel	In-Channel	Streams and Waterways	RN-290+50-IC-SW	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent	
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Hist Nat Levee	Broadleaved Forest (Generally Deciduous)	RN-290+50-NE100	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	High Terrace	Cropland, Rotation, & Permanent Pasture	RN-290+50-NE1160	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	High Terrace	Broadleaved Forest (Generally Deciduous)	RN-290+50-NE130	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Low Terrace	Cropland, Rotation, & Permanent Pasture	RN-290+50-NE1320	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Intermed Terrace	Broadleaved Forest (Generally Deciduous)	RN-290+50-NE15	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Low Terrace	Cropland, Rotation, & Permanent Pasture	RN-290+50-NE210	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Low Terrace	Broadleaved Forest (Generally Deciduous)	RN-290+50-NE40	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	High Terrace	Cropland, Rotation, & Permanent Pasture	RN-290+50-NE465	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Upland	Cropland, Rotation, & Permanent Pasture	RN-290+50-NE510	0-2	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Low Terrace	Broadleaved Forest (Generally Deciduous)	RN-290+50-SW280	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Intermed Terrace	Broadleaved Forest (Generally Deciduous)	RN-290+50-SW30	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Natural Levee	Broadleaved Forest (Generally Deciduous)	RN-290+50-SW40	0-5	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	High Terrace	Broadleaved Forest (Generally Deciduous)	RN-290+50-SW75	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	In-Channel	In-Channel	Streams and Waterways	RN-297+00-IC-C	0-2	In-Channel Sediment	USCS							USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS							USEPA 1613-TRP/RT or equivalent
	In-Channel	In-Channel	Streams and Waterways	RN-297+00-IC-NE	0-2	In-Channel Sediment	USCS							USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS							USEPA 1613-TRP/RT or equivalent
	In-Channel	In-Channel	Streams and Waterways	RN-297+00-IC-SW	0-2	In-Channel Sediment	USCS							USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS							USEPA 1613-TRP/RT or equivalent
	Bank	High Terrace	Cropland, Rotation, & Permanent Pasture	RN-297+00-NE1020	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Hist Nat Levee	Broadleaved Forest (Generally Deciduous)	RN-297+00-NE110	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Low Terrace	Cropland, Rotation, & Permanent Pasture	RN-297+00-NE1270	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Low Terrace	Cropland, Rotation, & Permanent Pasture	RN-297+00-NE1370	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
	Bank	Low Terrace	Broadleaved Forest (Generally Deciduous)	RN-297+00-NE165	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
Bank	Upland	Broadleaved Forest (Generally Deciduous)	RN-297+00-NE240	0-2	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent		
Bank	Natural Levee	Broadleaved Forest (Generally Deciduous)	RN-297+00-NE25	0-5	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent		

**Table 1  
Tittabawassee River Project  
Soil & Sediment Sampling to Identify Deposition Areas**

Reach	Proximity	Geomorphic Feature	Land Use	Sample ID	Target Core Depth (ft)	Media	Sediment/Soil Classification <sup>(3)</sup>	Protocol <sup>(4)</sup>					Analytical Method <sup>(5)</sup>
								GeoProbe	Sampling Tube and CAB	Bucket Auger	Piston Sampler	Hand Core	
	Bank	Low Terrace	Broadleaved Forest (Generally Deciduous)	RN-297+00-NE70	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	High Terrace	Cropland, Rotation, & Permanent Pasture	RN-297+00-NE890	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Low Terrace	Broadleaved Forest (Generally Deciduous)	RN-297+00-SW100	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Natural Levee	Broadleaved Forest (Generally Deciduous)	RN-297+00-SW20	0-5	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Low Terrace	Broadleaved Forest (Generally Deciduous)	RN-297+00-SW200	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Wetland	Broadleaved Forest (Generally Deciduous)	RN-297+00-SW370	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	High Terrace	Broadleaved Forest (Generally Deciduous)	RN-297+00-SW40	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Low Terrace	Broadleaved Forest (Generally Deciduous)	RN-297+00-SW590	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	In-Channel	In-Channel	Streams and Waterways	RN-305+00-IC-C	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						
	In-Channel	In-Channel	Streams and Waterways	RN-305+00-IC-NE	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						
	In-Channel	In-Channel	Streams and Waterways	RN-305+00-IC-SW	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						
	Bank	Floodplain	Herbaceous Rangeland	RN-305+00-NE10	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Upland	Herbaceous Rangeland	RN-305+00-NE145	0-2	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Natural Levee	Herbaceous Rangeland	RN-305+00-NE25	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Intermed Terrace	Herbaceous Rangeland	RN-305+00-NE45	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	High Terrace	Herbaceous Rangeland	RN-305+00-NE80	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Natural Levee	Broadleaved Forest (Generally Deciduous)	RN-305+00-SW100	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Low Terrace	Broadleaved Forest (Generally Deciduous)	RN-305+00-SW135	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	High Terrace	Broadleaved Forest (Generally Deciduous)	RN-305+00-SW210	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Low Terrace	Broadleaved Forest (Generally Deciduous)	RN-305+00-SW275	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Intermed Terrace	Broadleaved Forest (Generally Deciduous)	RN-305+00-SW30	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Wetland	Shrub Rangeland	RN-305+00-SW520	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Low Terrace	Broadleaved Forest (Generally Deciduous)	RN-305+00-SW905	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	In-Channel	In-Channel	Streams and Waterways	RN-316+00-IC-C	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						
	In-Channel	In-Channel	Streams and Waterways	RN-316+00-IC-NE	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						
	In-Channel	In-Channel	Streams and Waterways	RN-316+00-IC-SW	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						
	Bank	Hist Nat Levee	Broadleaved Forest (Generally Deciduous)	RN-316+00-NE110	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Low Terrace	Cropland, Rotation, & Permanent Pasture	RN-316+00-NE1315	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Intermed Terrace	Broadleaved Forest (Generally Deciduous)	RN-316+00-NE215	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	High Terrace	Broadleaved Forest (Generally Deciduous)	RN-316+00-NE295	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Natural Levee	Broadleaved Forest (Generally Deciduous)	RN-316+00-NE30	0-5	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Intermed Terrace	Broadleaved Forest (Generally Deciduous)	RN-316+00-NE30N	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	High Terrace	Broadleaved Forest (Generally Deciduous)	RN-316+00-NE30S	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Intermed Terrace	Cropland, Rotation, & Permanent Pasture	RN-316+00-NE395	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	High Terrace	Cropland, Rotation, & Permanent Pasture	RN-316+00-NE495	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	High Terrace	Cropland, Rotation, & Permanent Pasture	RN-316+00-NE885	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Intermed Terrace	Broadleaved Forest (Generally Deciduous)	RN-316+00-SW100	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Low Terrace	Broadleaved Forest (Generally Deciduous)	RN-316+00-SW175	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Wetland	Shrub Rangeland	RN-316+00-SW290	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Natural Levee	Broadleaved Forest (Generally Deciduous)	RN-316+00-SW30	0-5	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Low Terrace	Broadleaved Forest (Generally Deciduous)	RN-316+00-SW450	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Wetland	Broadleaved Forest (Generally Deciduous)	RN-316+00-SW570	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Tributary	In-Channel	Streams and Waterways	RN-316+00-T-NE850	0-1	Tributary	USCS						USEPA 1613-TRP/RT or equivalent
	Tributary	In-Channel	Streams and Waterways	RN-319+00-T-NE135	0-1	Tributary	USCS						USEPA 1613-TRP/RT or equivalent
0	Bank	Natural Levee	Broadleaved Forest (Generally Deciduous)	RO-320+00-NE10	0-5	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	High Terrace	Cropland, Rotation, & Permanent Pasture	RO-320+00-NE1130	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent

**Table 1  
Tittabawassee River Project  
Soil & Sediment Sampling to Identify Deposition Areas**

Reach	Proximity	Geomorphic Feature	Land Use	Sample ID	Target Core Depth (ft)	Media	Sediment/Soil Classification <sup>(3)</sup>	Protocol <sup>(4)</sup>					Analytical Method <sup>(5)</sup>
								GeoProbe	Sampling Tube and CAB	Bucket Auger	Piston Sampler	Hand Core	
Bank	Low Terrace	Broadleaved Forest (Generally Deciduous)		RO-320+00-NE1375	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	Low Terrace	Broadleaved Forest (Generally Deciduous)		RO-320+00-NE160	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	High Terrace	Broadleaved Forest (Generally Deciduous)		RO-320+00-NE25	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	Hist Nat Levee	Broadleaved Forest (Generally Deciduous)		RO-320+00-NE40	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	Low Terrace	Broadleaved Forest (Generally Deciduous)		RO-320+00-NE420	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	Upland	Cropland, Rotation, & Permanent Pasture		RO-320+00-NE500	0-1	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	High Terrace	Broadleaved Forest (Generally Deciduous)		RO-320+00-NE60	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	High Terrace	Cropland, Rotation, & Permanent Pasture		RO-320+00-NE635	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	High Terrace	Cropland, Rotation, & Permanent Pasture		RO-320+00-NE765	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	Intermed Terrace	Broadleaved Forest (Generally Deciduous)		RO-320+00-NE85	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	Natural Levee	Broadleaved Forest (Generally Deciduous)		RO-320+00-SW10	0-5	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	Low Terrace	Broadleaved Forest (Generally Deciduous)		RO-320+00-SW120	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	Wetland	Broadleaved Forest (Generally Deciduous)		RO-320+00-SW210	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	Low Terrace	Broadleaved Forest (Generally Deciduous)		RO-320+00-SW25	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	Low Terrace	Shrub Rangeland		RO-320+00-SW275	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	Intermed Terrace	Broadleaved Forest (Generally Deciduous)		RO-320+00-SW45	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	Low Terrace	Broadleaved Forest (Generally Deciduous)		RO-320+00-SW450	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	High Terrace	Broadleaved Forest (Generally Deciduous)		RO-320+00-SW80	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Tributary	In-Channel	Streams and Waterways		RO-322+00-T-SW205	0-1	Tributary	USCS						USEPA 1613-TRP/RT or equivalent
Tributary	In-Channel	Streams and Waterways		RO-322+00-T-SW80	0-1	Tributary	USCS						USEPA 1613-TRP/RT or equivalent
In-Channel	In-Channel	Streams and Waterways		RO-322+50-IC-C	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent
In-Channel	In-Channel	Streams and Waterways		RO-322+50-IC-NE	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent
In-Channel	In-Channel	Streams and Waterways		RO-322+50-IC-SW	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	Natural Levee	Broadleaved Forest (Generally Deciduous)		RO-325+50-NE10	0-5	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	High Terrace	Broadleaved Forest (Generally Deciduous)		RO-325+50-NE1340	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	Low Terrace	Broadleaved Forest (Generally Deciduous)		RO-325+50-NE1730	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	Low Terrace	Broadleaved Forest (Generally Deciduous)		RO-325+50-NE385	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	High Terrace	Broadleaved Forest (Generally Deciduous)		RO-325+50-NE45	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	Wetland	Broadleaved Forest (Generally Deciduous)		RO-325+50-NE450	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	Low Terrace	Cropland, Rotation, & Permanent Pasture		RO-325+50-NE515	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	Upland	Cropland, Rotation, & Permanent Pasture		RO-325+50-NE560	0-1	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	Intermed Terrace	Broadleaved Forest (Generally Deciduous)		RO-325+50-NE70	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	High Terrace	Cropland, Rotation, & Permanent Pasture		RO-325+50-NE840	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	Low Terrace	Broadleaved Forest (Generally Deciduous)		RO-325+50-NE90	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	Low Terrace	Cropland, Rotation, & Permanent Pasture		RO-325+50-SW145	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	Intermed Terrace	Shrub Rangeland		RO-325+50-SW190	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	High Terrace	Cropland, Rotation, & Permanent Pasture		RO-325+50-SW20	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	High Terrace	Cropland, Rotation, & Permanent Pasture		RO-325+50-SW245	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	Low Terrace	Cropland, Rotation, & Permanent Pasture		RO-325+50-SW40	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
In-Channel	In-Channel	Streams and Waterways		RO-327+50-IC-C	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent
In-Channel	In-Channel	Streams and Waterways		RO-327+50-IC-NE	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent
In-Channel	In-Channel	Streams and Waterways		RO-327+50-IC-SW	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent
In-Channel	In-Channel	Streams and Waterways		RO-333+00-IC-C	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent
In-Channel	In-Channel	Streams and Waterways		RO-333+00-IC-NE	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent



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Soil & Sediment Sampling to Identify Deposition Areas**

Reach	Proximity	Geomorphic Feature	Land Use	Sample ID	Target Core Depth (ft)	Media	Sediment/Soil Classification <sup>(3)</sup>	Protocol <sup>(4)</sup>					Analytical Method <sup>(5)</sup>
								GeoProbe	Sampling Tube and CAB	Bucket Auger	Piston Sampler	Hand Core	
	In-Channel	In-Channel	Streams and Waterways	RO-333+00-IC-SW	0-2	In-Channel Sediment	USCS						USEPA 1613-TRP/RT or equivalent
					2-2.5	Native Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Natural Levee	Broadleaved Forest (Generally Deciduous)	RO-333+00-NE10	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	High Terrace	Cropland, Rotation, & Permanent Pasture	RO-333+00-NE1000	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Intermed Terrace	Broadleaved Forest (Generally Deciduous)	RO-333+00-NE115	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Low Terrace	Broadleaved Forest (Generally Deciduous)	RO-333+00-NE1165	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Low Terrace	Broadleaved Forest (Generally Deciduous)	RO-333+00-NE160	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Low Terrace	Broadleaved Forest (Generally Deciduous)	RO-333+00-NE1880	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Wetland	Broadleaved Forest (Generally Deciduous)	RO-333+00-NE300	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	High Terrace	Broadleaved Forest (Generally Deciduous)	RO-333+00-NE35	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Low Terrace	Broadleaved Forest (Generally Deciduous)	RO-333+00-NE350	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Intermed Terrace	Broadleaved Forest (Generally Deciduous)	RO-333+00-NE440	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Floodplain	Broadleaved Forest (Generally Deciduous)	RO-333+00-NE5	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Low Terrace	Broadleaved Forest (Generally Deciduous)	RO-333+00-NE505	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Upland	Cropland, Rotation, & Permanent Pasture	RO-333+00-NE590	0-1	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	High Terrace	Cropland, Rotation, & Permanent Pasture	RO-333+00-NE680	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Hist Nat Levee	Broadleaved Forest (Generally Deciduous)	RO-333+00-NE80	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Natural Levee	Broadleaved Forest (Generally Deciduous)	RO-333+00-SW10	0-5	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	Intermed Terrace	Cropland, Rotation, & Permanent Pasture	RO-333+00-SW240	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
	Bank	High Terrace	Broadleaved Forest (Generally Deciduous)	RO-333+00-SW30	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent
Bank	Low Terrace	Cropland, Rotation, & Permanent Pasture	RO-333+00-SW315	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	
Bank	Intermed Terrace	Broadleaved Forest (Generally Deciduous)	RO-333+00-SW60	0-3	Overbank Soil	USCS						USEPA 1613-TRP/RT or equivalent	

1. Field Duplicates will be assigned for an overall frequency of 1 per 20 investigative samples.

2. In-Channel Sediments: Discrete sample of the native material beneath the river channel sediments. These samples will be collected if there is not refusal at the bottom of the sediment layer. The target interval will be from 1 inch to 6 inches below the sediment/native material interface. Sediment sample is a vertical composite of the entire thickness of the creek channel sediment layer.

3. Unified Soil Classification System (USCS). Protocol defined in Project QAPP

4. Sample collection protocol defined in Project QAPP.

5. Sample analysis protocol defined in Project QAPP.