

GOAL: Contain and collect spilled product in Deer Creek or along shoreline.

Site Number	Waterbody, River Mile	Site Name	
523	Mississippi River 523.1 RDB	Deer Creek	
Strategy Type*	Boom Length	Land Access	Boat Access
C&C	1000	Y	N
Strategy Implementation			
Collect spilled product at mouth of Deer Creek for collection. Railroad separates Deer Creek Rd from Pool, limiting access. Possible to use vac truck from shore. Other equipment will need to be brought by boat.			
Site Access			
From Hwy 67 south, turn left on E Deer Creek Road. Strategy site is beyond railroad tracks at small point. Access from Bulgers Hollow ramp, with good staging. Submerged aquatic plants slow river access. Need airboat during low water conditions.			
UTM z15 Y: 4643245 Latitude: 41.906492		UTM z15 X: 734051 Longitude: -90.178146	



Mouth of Deer Creek as seen from railroad bridge



Access at Bulger's Hollow, looking downstream

GOAL: Exclude oil from pelican nesting islands.

Site Number	Waterbody, River Mile	Site Name	
526	Mississippi River 526.8	RM 526.8 Islands	
Strategy Type*	Boom Length	Land Access	Boat Access
Exc.	700	N	N
Strategy Implementation			
Boom around islands to exlude spilled product from pelican nesting areas. Booming lotus beds on east flank may be undoable, boom other sides of islands to protect nesting areas.			
Site Access			
Unnamed islands between RM 526.4 and 526.8. Access from Bulger's Hollow (need local knowledge to reach main channel) 1.5 miles southwest at RM 525.3 RDB, or from Big Slough Landing at RM 531.4 LDB for larger boats.			
UTM z15 Y: 4648811 Latitude: 41.956163		UTM z15 X: 735388 Longitude: -90.159825	



View of Island from main channel

GOAL: Protect major waterfowl stopover marsh and wild celery beds near openings to Potter's Marsh.

Site Number	Waterbody, River Mile	Site Name	
527a	Mississippi River 527 LDB	Potter's Marsh	
Strategy Type*	Boom Length	Land Access	Boat Access
Exc.	500	Y	Y
Strategy Implementation			
Use large section of hard boom to exclude spilled product from Potters Marsh backwaters. May need air boat in low water conditions due to aquatic vegetation. Good access and staging here and at Mickelson's Landing at RM 524 LDB.			
Site Access			
Opening at Thomson Causeway boat ramp. Turn west from IL Hwy 84 onto Main St in Thomson. Turn south onto Lewis Ave at US ACE marked turnoff, follow signs to boat ramp.			
UTM z15 Y: 4648624 Latitude: 41.953504		UTM z15 X: 738636 Longitude: -90.120763	



View of marsh entry where exclusion boom should be set



View of the open marsh; note heavy aquatic vegetation

GOAL: Exclude oil from nesting bird sites.

Site Number	Waterbody, River Mile	Site Name	
527b	Mississippi River 527.9	Sand Islands	
Strategy Type*	Boom Length	Land Access	Boat Access
Exc.	1100	N	N
Strategy Implementation			
Boom around sand islands to exclude spilled product from bird nesting sites. Anchor onshore to wrap boom around 3 sides, west flank too shallow for boats.			
Site Access			
Unnamed sandy islands on west side of main channel from RM 527.8 - 527.9. Access from Big Slough Landing at 531.4 LDB.			
UTM z15 Y: 4650478 Latitude: 41.971097		UTM z15 X: 735608 Longitude: -90.156506	



Pelican colony on sand island

GOAL: Exclude spilled product from channel between islands, which flows into Elk River backwater area.

Site Number	Waterbody, River Mile	Site Name	
530	Mississippi River 530.0	Elk River Backwater Entry 1	
Strategy Type*	Boom Length	Land Access	Boat Access
Exc.	1000	N	N
Strategy Implementation			
Boom across channel to exclude spilled product from Elk River backwater area. Many stumps and shallow water areas around islands.			
Site Access			
Channel between islands on right side of main channel at RM 530.0. Access from Big Slough Landing, 1.6 miles northeast at RM 531.5 LDB.			
UTM z15 Y: 4653637 Latitude: 41.999266		UTM z15 X: 736437 Longitude: -90.145247	



View of the opening from the main channel



Big Slough landing

GOAL: Prevent spilled product from entering the Elk River backwaters through Dark Slough.

Site Number	Waterbody, River Mile	Site Name	
532e	Mississippi River 532.1 RDB	Lower Dark Slough	
Strategy Type*	Boom Length	Land Access	Boat Access
Exc.	2500	N	N
Strategy Implementation			
Tie boom off on west shore to tip of second island to keep spilled product out of Elk River backwaters, a high waterfowl use area. Openings are 800 and 1000 feet wide.			
Site Access			
Slough between Cook's Island and RDB. Access from South Sabula Lake 2 mi. upstream at RM 534.4 RDB.			
UTM z15 Y: 4656120 Latitude: 42.021964		UTM z15 X: 735198 Longitude: -90.159197	



Cook's Island at left, looking down Dark Slough

GOAL: Contain and collect spilled product in side channel, and prevent product from entering backwater.

Site Number	Waterbody, River Mile	Site Name	
532d	Mississippi River 532.9 LDB	RM 532 Backwater Entry 3	
Strategy Type*	Boom Length	Land Access	Boat Access
C&C	500	Y	N
Strategy Implementation			
Cascade boom main channel to contain & collect spilled product in top of side channel. Boom from shore to island to prevent product from entering backwater areas.			
Site Access			
Channel opening along LDB. Spring Lake Bike Trail may allow access with a small vehicle. Nearest water access is from South Sabula Lake, 1.8 miles northwest at RM 534.4 RDB.			
UTM z15 Y: 4657827 Latitude: 42.037149		UTM z15 X: 735777 Longitude: -90.151525	



Backwater entry with levee at left

GOAL: Prevent spilled product from entering backwater area.

Site Number	Waterbody, River Mile	Site Name	
532b	Mississippi River 532.7 LDB	RM 532 Backwater Entry 2	
Strategy Type*	Boom Length	Land Access	Boat Access
Exc.	300	N	N
Strategy Implementation			
Boom shore to shore across channel to exclude spilled product from the backwater area.			
Site Access			
Narrow channel opening along LDB. Access from South Sabula Lake, 2.1 miles north-northwest at RM 534.4 RDB or from Big Slough Landing, 2 miles southeast at RM 531.5 LDB.			
UTM z15 Y: 4657496 Latitude: 42.034121		UTM z15 X: 735958 Longitude: -90.149471	



View of backwater entry

***GOAL: Prevent spilled product from entering
backwater area, OR contain and collect spilled
product.***

Site Number	Waterbody, River Mile	Site Name	
532a	Mississippi River 532.3 LDB	RM 532 Backwater Entry 1	
Strategy Type*	Boom Length	Land Access	Boat Access
Exc.	1200	N	N
Strategy Implementation			
Boom across channel to exclude spilled product from the backwater area.			
Site Access			
Channel opening along LDB. Access from Big Slough Landing, 1.5 miles southeast at 531.5 LDB.			
UTM z15 Y: 4656764 Latitude: 42.027457		UTM z15 X: 736218 Longitude: -90.146635	

***GOAL: Prevent spilled product from entering
Savanna Slough.***

Site Number	Waterbody, River Mile	Site Name	
534a	Mississippi River 534.3 LDB	Lower Savanna Slough	
Strategy Type*	Boom Length	Land Access	Boat Access
Exc.	500	N	N
Strategy Implementation			
Boom across channel to exclude spilled product from Savanna Slough.			
Site Access			
Entrance to Savanna Slough at RM 534.3 LDB. Access from South Sabula Lake, 0.6 mile west at RM 534.4 RDB.			
UTM z15 Y: 4659774 Latitude: 42.05495		UTM z15 X: 734829 Longitude: -90.162182	

GOAL: Prevent spilled product from entering channel between Hubbard Island and the shoreline on the RDB.

Site Number	Waterbody, River Mile	Site Name	
534b	Mississippi River 534.4 RDB	Hubble Island	
Strategy Type*	Boom Length	Land Access	Boat Access
Exc.	400	N	N
Strategy Implementation			
Boom across opening to exclude spilled product from the channel between Hubbard Island and the shoreline on the RDB.			
Site Access			
Channel between Hubble Island and RDB at RM 534.4. Access from South Sabula Lake, 0.2 mile west at RM 534.4 RDB.			
UTM z15 Y: 4659857 Latitude: 42.055905		UTM z15 X: 734119 Longitude: -90.17072	



Side channel opening with Hubble Island at left

GOAL: Prevent spilled product from entering Savanna Slough.

Site Number	Waterbody, River Mile	Site Name	
534c	Mississippi River 534.6 LDB	Upper Savanna Slough	
Strategy Type*	Boom Length	Land Access	Boat Access
Exc.	750	N	N
Strategy Implementation			
Boom across channel to exclude spilled product from Savanna Slough. Deploy boom at north wing dam.			
Site Access			
First cut south of railroad bridge. Entrance to Savanna Slough at RM 534.6 LDB. Access from South Sabula Lake access, 0.75 mile south at RM 534.4 RDB.			
UTM z15 Y: 4660281 Latitude: 42.059508		UTM z15 X: 734831 Longitude: -90.16195	

GOAL: Contain and collect spilled product at Island City Harbor in Sabula.

Site Number	Waterbody, River Mile	Site Name	
534d	Mississippi River 534.6 RDB	Island City Harbor	
Strategy Type*	Boom Length	Land Access	Boat Access
C&C	500	Y	Y
Strategy Implementation			
Cascade 500-600 feet of boom into main channel to collect at Island City Harbor in Sabula. Narrow opening is slack water easily accessible from land. Marina monitors VHF radio channel 16. Use 100 ft boom to exclude from marina if not collecting.			
Site Access			
From Hwy 52, turn south onto Broad St in Sabula. Proceed onto South Ave to Island City Harbor.			
UTM z15 Y: 4660327 Latitude: 42.060105		UTM z15 X: 734224 Longitude: -90.169268	



Boat ramp at Island City Harbor



Island City Harbor as seen from main channel

GOAL: Contain and collect spilled product from the main channel.

Site Number	Waterbody, River Mile	Site Name	
537	Mississippi River 537.7 LDB	Highway 52 Bridge	
Strategy Type*	Boom Length	Land Access	Boat Access
C&C	1000-2000	Y	N
Strategy Implementation			
Boom across channel to divert spilled product to shore. Anchor to bridge abutments or navigation buoy depending on spill location. Contain & collect spilled product in slack water at small point or at boat launch.			
Site Access			
Just south of Highway 52 bridge on LDB, there is a small point that creates slack water for collection. Access from Marquette Park, 0.2 mile south at RM 537.5 LDB. Boat access could also be used as collection site.			
UTM z15 Y: 4665209 Latitude: 42.103812		UTM z15 X: 734906 Longitude: -90.159072	



Boat access at Marquette Park



East end of US Hwy 52 bridge

GOAL: Prevent spilled product from entering Savanna Bay backwaters.

Site Number	Waterbody, River Mile	Site Name	
539	Mississippi River 539.2 LDB	Upper Savanna Bay	
Strategy Type*	Boom Length	Land Access	Boat Access
Exc.	700	N	N
Strategy Implementation			
Boom across channel to exclude spilled product from Savanna Bay. Anchor boom upstream of closing dam. Normal depth 16ft above dam, 7ft at dam, 21ft below dam.			
Site Access			
Channel between islands on LDB of main channel. Access from Marquette Park, 1.75 miles south at RM 537.5 LDB.			
UTM z15 Y: 4667638 Latitude: 42.125851		UTM z15 X: 734266 Longitude: -90.165833	



Looking southeast into Savanna Bay

GOAL: Prevent spilled product from entering Running Slough and diverse backwater area.

Site Number	Waterbody, River Mile	Site Name	
540a	Mississippi River 540.4 RDB	Running Slough	
Strategy Type*	Boom Length	Land Access	Boat Access
Exc.	400	N	N
Strategy Implementation			
Boom across entrance to exclude spilled product from Running Slough. Stake booms 30-40 yds along shore on either side of slough opening. High-priority area; backwater is one of most diverse on the UMR.			
Site Access			
Slough entrance is behind two islands. Access from Marquette Park, 2.75 mi. south at RM 537.5 LDB or North Sabula Access, 4.5 mi. south at RM 535.7 RDB.			
UTM z15 Y: 4667168 Latitude: 42.122186		UTM z15 X: 732393 Longitude: -90.188643	



Looking downstream into Running Slough



Looking upstream from slough opening

GOAL: Contain and collect spilled product from the main channel.

Site Number	Waterbody, River Mile	Site Name	
540b	Mississippi River 540.7 RDB	Riprap Island	
Strategy Type*	Boom Length	Land Access	Boat Access
C&C	1500	N	N
Strategy Implementation			
Contain & collect spilled product in deep channel with high flow. Anchor boom at upstream tip of island to divert oil to RDB for collection. If product is collected here, it is very important to protect Running Slough (see strategy 540a).			
Site Access			
Natural collection area is located behind Riprap Island. Access from Marquette Park, 3.1 miles south at RM 537.5 LDB or North Sabula Access, 4.8 mi. south at RM 535.7 RDB. Possible railroad grade access from White's Crossing on Evergreen Rd, 1 mi. south of site.			
UTM z15 Y: 4667290 Latitude: 42.123461		UTM z15 X: 731801 Longitude: -90.195754	



Looking downstream with Riprap Island at left

GOAL: Prevent spilled product from entering channel between Santa Fe Island and the shoreline.

Site Number	Waterbody, River Mile	Site Name	
541a	Mississippi River 541.1 LDB	Santa Fe Island	
Strategy Type*	Boom Length	Land Access	Boat Access
Exc.	550	N	N
Strategy Implementation			
Anchor boom 75 ft upstream on LDB. Boom across opening to exclude spilled product from the channel between Santa Fe Island and the shoreline on the LDB. Opening only 5 ft deep in high water conditions.			
Site Access			
Channel between Santa Fe Island and LDB. Access from Marquette Park, 3.4 miles south at RM 537.5 LDB or North Sabula Access, 5 mi. south at RM 535.7 RDB.			
UTM z15 Y: 4668132 Latitude: 42.131113		UTM z15 X: 731520 Longitude: -90.198816	



Looking downstream at opening, Santa Fe Island at right

GOAL: Contain and collect spilled product from a train derailment.

Site Number	Waterbody, River Mile	Site Name	
541b	Mississippi River 541.5 RDB	Lainsville Slough	
Strategy Type*	Boom Length	Land Access	Boat Access
C&C	450	N	N
Strategy Implementation			
Contain & collect spilled product from train derailment as far upstream as Upper Brown's Lake. Deploy boom above closing dam to collect spilled product.			
Site Access			
Lainsville Slough between RM 544 and 541.5. Access from Marquette Park, 4 miles south at RM 537.5 LDB or North Sabula Access, 5.75 mi. south at RM 535.7 RDB.			
UTM z15 Y: 4668607 Latitude: 42.135676		UTM z15 X: 730526 Longitude: -90.210642	



Looking upstream into Lainsville Slough

GOAL: Prevent spilled product from entering Savanna Bay backwaters.

Site Number	Waterbody, River Mile	Site Name	
542	Mississippi River 542.7 LDB	Lower Savanna Bay	
Strategy Type*	Boom Length	Land Access	Boat Access
Exc.	225	N	N
Strategy Implementation			
Place two booms across entrance to exclude spilled product from Savanna Bay backwaters. Keep booms straight and tight to divert spilled product downstream. Depth is 9 ft in middle of slough.			
Site Access			
Narrow opening to Savanna Bay backwater area on LDB. Access from Marquette Park at RM 537.5 LDB or North Sabula Access at RM 535.7 RDB.			
UTM z15 Y: 4670365 Latitude: 42.1513828		UTM z15 X: 730897 Longitude: -90.205463	



Backwater entry to Savanna Bay, seen from main channel

GOAL: Protect important fish habitat in the channel behind Big Soup Bone Island.

Site Number	Waterbody, River Mile	Site Name	
543a	Mississippi River 543.4 RDB	Big Soup Bone Island	
Strategy Type*	Boom Length	Land Access	Boat Access
Exc.	1200	N	N
Strategy Implementation			
From shore to N tip of island, cascade boom to exclude spilled product from channel. Channel is an important fish habitat area. Due to turbidity, mixing may occur if product enters channel.			
Site Access			
Channel between Big Soup Bone Island and the shoreline on RDB. Access from Marquette Park at RM 537.5 LDB or North Sabula Access at RM 535.7 RDB.			
UTM z15 Y: 4670731 Latitude: 42.154993		UTM z15 X: 729823 Longitude: -90.218299	



Wide channel behind Big Soup Bone Island, at left

GOAL: Contain and collect spilled product in the lower end of Brickhouse Slough.

Site Number	Waterbody, River Mile	Site Name	
543b	Mississippi River 543.5 LDB	Lower Brickhouse Slough 1	
Strategy Type*	Boom Length	Land Access	Boat Access
C&C	800	N	N
Strategy Implementation			
Contain and collect spilled product in the lower end of Brickhouse Slough in the event of a train derailment along the slough. Deploy boom from west tip of island to collect in slack water. Ample slack in boom is needed.			
Site Access			
Lower Brickhouse Slough, between easternmost island and shore. Access from Marquette Park at RM 537.5 LDB or North Sabula Access at RM 535.7 RDB.			
UTM z15 Y: 4671448 Latitude: 42.161379		UTM z15 X: 730044 Longitude: -90.215345	



Slack water area at lower end of Brickhouse Slough

GOAL: Protect fish and mussel habitat in the lower end of Brickhouse Slough.

Site Number	Waterbody, River Mile	Site Name	
543c	Mississippi River 543.9	Lower Brickhouse Slough 2	
Strategy Type*	Boom Length	Land Access	Boat Access
Exc.	600	N	N
Strategy Implementation			
Boom across opening to prevent spilled product from entering the lower end of Brickhouse Slough, an important fish and mussel habitat. Deploy 75 ft upstream of slough on northern island, across opening to 75 ft downstream. Need two booms.			
Site Access			
Small opening between islands leading to the lower part of Brickhouse Slough. Access from Marquette Park at RM 537.5 LDB or North Sabula Access at RM 535.7 RDB.			
UTM z15 Y: 4671575 Latitude: 42.162711		UTM z15 X: 729382 Longitude: -90.223299	



Looking through opening into main channel

GOAL: Contain and collect spilled product from the army depot area or the Apple River.

Site Number	Waterbody, River Mile	Site Name	
545a	Mississippi River 545.3 LDB	Apple River Outlet	
Strategy Type*	Boom Length	Land Access	Boat Access
Exc.	250	N	N
Strategy Implementation			
If responding on water, collect spilled product in the mouth of the Apple River. Stake boom in Apple River during low water, in Brickhouse Slough during high water. If responding by land, collect from shore along Diehl Rd or Army Depot Rd crossing.			
Site Access			
Mouth of the Apple River. Very limited land access from Diehl Rd 1/2 mi. upstream of mouth or at Army Depot Rd crossing.			
UTM z15 Y: 4673035 Latitude: 42.176358		UTM z15 X: 727628 Longitude: -90.243941	



Apple River mouth at Brickhouse Slough



Looking upstream at the Army Depot Rd. crossing

GOAL: Prevent spilled product from entering Lainsville Slough.

Site Number	Waterbody, River Mile	Site Name	
545b	Mississippi River 545.4 RDB	Lainsville Slough	
Strategy Type*	Boom Length	Land Access	Boat Access
Exc.	100	N	N
Strategy Implementation			
Boom across opening to exclude spilled product from entering Lainsville Slough. Anchor to trees along bank.			
Site Access			
Narrow slough opening along RDB. Also known as Aspelmiers Cut. Access from Pleasant Creek Recreation Area at RM 553 RDB, or from Marquette Park at RM 537.5 LDB.			
UTM z15 Y: 4672238 Latitude: 42.169347		UTM z15 X: 727091 Longitude: -90.250739	



Looking south into Lainsville Slough from main channel

GOAL: Prevent spilled product from entering Upper Brown's Lake.

Site Number	Waterbody, River Mile	Site Name	
546a	Mississippi River 546.2 RDB	Upper Brown's Lake Entry	
Strategy Type*	Boom Length	Land Access	Boat Access
Other	125	Y	N
Strategy Implementation			
Notify FWS of spill. Close water control structure to prevent spilled product from reaching Upper Brown's Lake. Equipment could be delivered by truck and transferred to boat at structure. Boom across opening to keep oil from entering tubes.			
Site Access			
From Hwy 52, turn onto Green Island Rd. At gravel parking lot at east end, follow eastern trail to Blake's Lake Ramp. Pass through IA DNR gate, drive along levee to water control structure that connects Mississippi River to Upper Brown's Lake.			
UTM z15 Y: 4672544 Latitude: 42.172469		UTM z15 X: 725811 Longitude: -90.266098	



Looking south into Upper Brown's Lake entry from river.



Control structure on levee in background of top photo

GOAL: Prevent spilled product from entering Green Island WMA.

Site Number	Waterbody, River Mile	Site Name	
546b	Mississippi River 546.3 RDB	Green Island WMA	
Strategy Type*	Boom Length	Land Access	Boat Access
Other	100	Y	N
Strategy Implementation			
Notify IA DNR of spill. Close water control structure to prevent spilled product from reaching the Green Island Wildlife Management Area. Equipment could be delivered by truck and transferred to boat at structure. Boom to keep oil from entering tubes.			
Site Access			
From Hwy 52, turn onto Green Island Rd. At gravel parking lot at east end, follow eastern trail to Blake's Lake Ramp. Pass through IA DNR gate, drive along levee to water control structure that connects Mississippi River to Green Island Wildlife Management Area.			
UTM z15 Y: 4672574 Latitude: 42.172805		UTM z15 X: 725577 Longitude: -90.268919	



Green Island WMA inlet to control structure on levee



Control structure on levee

GOAL: Protect important fish and mussel habitat in Brickhouse Slough.

Site Number	Waterbody, River Mile	Site Name	
546c	Mississippi River 546.9 LDB	Brickhouse Slough	
Strategy Type*	Boom Length	Land Access	Boat Access
Exc.	1200	N	N
Strategy Implementation			
Boom off channel to exclude spilled product from entering Brickhouse Slough. Slough is an important fish and mussel area. Opening is 1/5 mile wide.			
Site Access			
Brickhouse slough is the channel between Apple River Island and the shoreline on the LDB. Access from Pleasant Creek Recreation Area at RM 553 RDB. Additional equipment can be loaded at Green Island WMA Pump Station across the main channel.			
UTM z15 Y: 4673352 Latitude: 42.179940		UTM z15 X: 725118 Longitude: -90.274178	

GOAL: Transfer equipment from land to boats in the main channel.

Site Number	Waterbody, River Mile	Site Name	
547	Mississippi River 547.3 RDB	IA DNR Pumphouse	
Strategy Type*	Boom Length	Land Access	Boat Access
Other	n/a	Y	N
Strategy Implementation			
Equipment could be delivered by truck and transfered to boats on main channel. From the road to the river it is a 16 foot drop and a 120 foot distance over riprap bank.			
Site Access			
From Hwy 52, turn onto Green Island Rd. At gravel parking lot at east end, follow northern trail next to 4th Ditch Ramp. Pass through IA DNR gate, drive to levee at Pumphouse.			
UTM z15 Y: 4673086 Latitude: 42.177826		UTM z15 X: 724124 Longitude: -90.286296	



Iowa DNR pump house in Green Island WMA

GOAL: Prevent spilled product from entering channel behind Casey's Island and Pleasant Creek backwaters.

Site Number	Waterbody, River Mile	Site Name	
550a	Mississippi River 550.0 RDB	Casey's Island	
Strategy Type*	Boom Length	Land Access	Boat Access
Exc.	400	N	N
Strategy Implementation			
Boom across opening to exclude spilled product from channel and from Pleasant Creek backwater area.			
Site Access			
Channel between Casey's Island and the shoreline on RDB. Access from Pleasant Creek Recreation Area, 2.8 miles northwest at RM 553.0 RDB.			
UTM z15 Y: 4675310 Latitude: 42.198936		UTM z15 X: 720250 Longitude: -90.332315	



Looking southeast into side channel behind Casey's Island

GOAL: Protect important mussel habitat at the mouth of Crooked Slough.

Site Number	Waterbody, River Mile	Site Name	
550b	Mississippi River 550.1 LDB	Crooked Slough Outlet	
Strategy Type*	Boom Length	Land Access	Boat Access
Exc.	1000	N	N
Strategy Implementation			
Cascade boom to prevent spilled product from entering the mouth of Crooked Slough, an important mussel habitat area. Responders must act with caution, as unexploded ordnance is buried in the area. Obey warning signs and permanent boom barriers.			
Site Access			
Outlet of Crooked Slough. Boat access is from Pleasant Creek Recreation Area, 2.8 miles upstream at RM 553.0 RDB; Also possible access through locked US ACE gate at Savanna Army Depot.			
UTM z15 Y: 4676016 Latitude: 42.205248		UTM z15 X: 720385 Longitude: -90.33041	



Heed warning signs in Crooked Slough backwaters

GOAL: Prevent spilled product from entering Crooked Slough.

Site Number	Waterbody, River Mile	Site Name	
552a	Mississippi River 552.6 LDB	Lower Crooked Slough Entry	
Strategy Type*	Boom Length	Land Access	Boat Access
Exc.	200	N	N
Strategy Implementation			
Boom across opening to exclude spilled product form entering the channel and Crooked Slough.			
Site Access			
Narrow channel opening that leads to Crooked Slough. Access from Pleasant Creek Recreation Area, 1/2 mile west at RM 553.0 RDB			
UTM z15 Y: 4677108 Latitude: 42.216015		UTM z15 X: 717024 Longitude: -90.370671	



Backwater entry, looking northeast from main channel

GOAL: Prevent spilled product from entering channel behind Bowman Island.

Site Number	Waterbody, River Mile	Site Name	
552b	Mississippi River 552.7 RDB	Bowman Island	
Strategy Type*	Boom Length	Land Access	Boat Access
Exc.	500	N	N
Strategy Implementation			
Boom across opening to exclude spilled product from entering the channel between Bowman Island and the shoreline.			
Site Access			
Channel between Bowman Island and shoreline on RDB. Access from Pleasant Creek Recreation Area, 1/3 mile northwest at RM 553.0 RDB.			
UTM z15 Y: 4676778 Latitude: 42.213231		UTM z15 X: 716354 Longitude: -90.378912	



View of ramp and staging area at Pleasant Creek Rec. Area

GOAL: Contain and collect spilled product at boat ramp, protect resources downstream.

Site Number	Waterbody, River Mile	Site Name	
553	Mississippi River 553 RDB	Pleasant Creek Rec Area Ramp	
Strategy Type*	Boom Length	Land Access	Boat Access
C&C	1000	Y	Y
Strategy Implementation			
Cascade boom to divert spilled product to ramp for collection. Excellent staging and access. Keep product from passing ramp into mouth of Pleasant Creek, just below landing. Use 100 ft boom to exclude from creek mouth.			
Site Access			
From Hwy 52, turn east at well marked Pleasant Creek Recreation Area entrance, follow road to parking lot and ramp.			
UTM z15 Y: 4677123 Latitude: 42.216419		UTM z15 X: 716054 Longitude: -90.382409	



View of ramp and staging area

GOAL: Divert spilled product away from side channel for collection downstream.

Site Number	Waterbody, River Mile	Site Name	
554b	Mississippi River 554.4 LDB	RM 554 Slough	
Strategy Type*	Boom Length	Land Access	Boat Access
Div.	700	N	N
Strategy Implementation			
Cascade boom to divert spilled product away from side channel for possible collection downstream.			
Site Access			
Side channel on RDB. Access from Mill Creek Landing, 1.25 miles upstream at RM 555.7 RDB or from Pleasant Creek Recreation Area, 1.5 miles southeast at RM 553 RDB.			
UTM z15 Y: 4679088 Latitude: 42.234385		UTM z15 X: 715027 Longitude: -90.394113	



Opening to side channel with unnamed island at right

GOAL: Contain and collect spilled product from a train derailment in the side channel.

Site Number	Waterbody, River Mile	Site Name	
554a	Mississippi River 554.4 RDB	Duck Creek	
Strategy Type*	Boom Length	Land Access	Boat Access
C&C	700	Y	N
Strategy Implementation			
Useful as a collection site only in the event of a spill to Deer Creek. Of little to no use for spill on main channel.			
Site Access			
Outlet of Duck Creek. Land access to creek is possible from Highway 52, though not to launch boats. Access river bank from Bellevue Ramp at RM 556.5 RDB.			
UTM z15 Y: 4678794 Latitude: 42.231911		UTM z15 X: 714385 Longitude: -90.401993	

GOAL: Divert spilled product toward a collection site, either in the main channel or the side channel.

Site Number	Waterbody, River Mile	Site Name	
555a	Mississippi River 555.4 RDB	Bellevue Slough	
Strategy Type*	Boom Length	Land Access	Boat Access
Exc.	1500-2250	N	N
Strategy Implementation			
Boom across openings between shore and islands to exclude spilled product from slough. Need about 1000ft of boom for main opening, 500ft for second opening, 750ft for third opening. Third opening is an exposed sandbar in low water.			
Site Access			
Slough between small islands and the RDB. Access from Mill Creek Landing, 0.3 mile north-northwest at RM 555.7 RDB.			
UTM z15 Y: 4680008 Latitude: 42.243051		UTM z15 X: 713615 Longitude: -90.410867	



Mill Creek ramp just upstream of slough

**GOAL: Protect habitat area in Crooked Slough.
Possibly collect spilled product in channel opening.**

Site Number	Waterbody, River Mile	Site Name	
555b	Mississippi River 555.9 LDB	Crooked Slough Main Entry	
Strategy Type*	Boom Length	Land Access	Boat Access
Exc.	450-700	N	N
Strategy Implementation			
Boom across opening to exclude spilled product from entering Crooked Slough, an important habitat area. Alternatively, boom within the channel and use the opening for containment and collection. In high water, also boom southern opening.			
Site Access			
Small channel opening is the main inflow to Crooked Slough. Nearest access points are the boat ramps in Bellevue.			
UTM z15 Y: 4680955 Latitude: 42.251568		UTM z15 X: 713600 Longitude: -90.410697	



Looking north into lowest opening



Looking east into upper opening

GOAL: Prevent spilled product from entering Crooked Slough, an important fish and mussel habitat.

Site Number	Waterbody, River Mile	Site Name	
556b	Mississippi River 556.7 RDB	Crooked Slough Upper Entry	
Strategy Type*	Boom Length	Land Access	Boat Access
Exc.	150	N	N
Strategy Implementation			
Boom across opening to exclude spilled product passing through Dam 12. Anchor boom to rocks on upstream side of opening.			
Site Access			
Just below Lock and Dam 12, across main channel from Bellevue. Access by boat from Bellevue Municipal Ramp. Land access from US ACE road on dam. Contact Lockmaster at 563-872-3314.			
UTM z15 Y: 4681998 Latitude: 42.261112		UTM z15 X: 713018 Longitude: -90.417371	



View of entry with Dam visible in background

GOAL: Protect Crooked Slough from spilled product passing over the spillway of Lock and Dam 12.

Site Number	Waterbody, River Mile	Site Name	
556a	Mississippi River 556.8	Lock and Dam 12 Spillway	
Strategy Type*	Boom Length	Land Access	Boat Access
Exc.	400	N	N
Strategy Implementation			
Use exclusion boom to keep spilled product from passing over the spillway and into Crooked Slough, an important habitat area.			
Site Access			
Lock and Dam 12 spillway, roughly halfway across the width of the dam. Land access from US ACE road on dam. Contact Lockmaster at 563-872-3314.			
UTM z15 Y: 4682577 Latitude: 42.266089		UTM z15 X: 713879 Longitude: -90.406722	



On the spillway, looking east

GOAL: Contain and collect spilled product in Plum River to protect sensitive habitat downstream.

Site Number	Waterbody, River Mile	Site Name	
PR1	Plum River n/a	Plum River	
Strategy Type*	Boom Length	Land Access	Boat Access
C&C	300	N	N
Strategy Implementation			
Collect near mouth of Plum River in event of spilled product coming from the rail yard or IL Hwy 84. Truck access possible along Great River Trail 500-1000 ft upstream or at crossing 1 mi. upstream on Plum River.			
Site Access			
Mouth of the Plum River, above the confluence with the Mississippi (Savanna Slough). CN rail bridge crosses just above mouth. Access from Savanna Marina, 0.2 mile north at RM 536.7 LDB.			
UTM z15 Y: 4663400 Latitude: 42.087404		UTM z15 X: 735365 Longitude: -90.15426	



Mouth of Plum River in Savanna Slough



Railroad bridge above mouth, Savanna in background

GOAL: Contain and collect spilled product on the lower Maquoketa River before it reaches the Mississippi.

Site Number	Waterbody, River Mile	Site Name	
MR1	Maquoketa River n/a	Maquoketa River	
Strategy Type*	Boom Length	Land Access	Boat Access
C&C	500-800	Y	N
Strategy Implementation			
Contain & collect spilled product on the lower Maquoketa River at pumps. Steep bank 6-12 ft above water is accessible with vac truck. Use boat to lay boom from LDB to direct product to collection site.			
Site Access			
From Hwy 52, turn onto Green Island Rd. Cross railroad tracks, turn at first left onto gravel road and continue until you reach the levee, pass through DNR gate to cross levee. Trucks can access bank at pumps.			
UTM z15 Y: 4673671 Latitude: 42.183741		UTM z15 X: 721846 Longitude: -90.31363	



Mouth of the Maquoketa River



Looking upstream from bank above pumps

