

GOAL: Collect spilled product above Lock & Dam 10 to protect downstream resources

Site Number	Waterbody, River Mile	Site Name	
615a	Mississippi River 615.2 RDB	Lock & Dam 10	
Strategy Type*	Boom Length	Land Access	Boat Access
C&C	1000	Y	N
Strategy Implementation (Go to aerial view)			
Anchor boom to upper end of rock wall to capture oil in slack water area above lock or in lock for collection from shore with skimmers and vac truck.			
Site Access			
5 Lock and Dam Ln., Guttenberg, IA. Contact Lockmaster (563) 252-1261 for access. Staging in open area river side of Guttenberg Area Veterans Memorial on S River Park Dr.			
Latitude: 42.786677 UTM Zone 16: 4745268.42		Longitude: -91.096112 UTM Zone 16: 164957.58	



Slack water area above locks



Lock 10

GOAL: Prevent oil passing over Dam 10 spillway from spreading further into Pool 11

Site Number	Waterbody, River Mile	Site Name	
615b	Mississippi River 615.2 LDB	615b	
Strategy Type*	Boom Length	Land Access	Boat Access
C&C	1000	Y	N
Strategy Implementation (Go to aerial view)			
For oil that passes over spillway or through notches, divert to shore above low-water dam for collection. Only marginally useful site. Keep oil from reaching outlet at west end of closing dam.			
Site Access			
Below Lock and Dam 10 spillway at north end of Closing Dam Rd. From Co. Rd. VV, take Good Nuf Hollow Rd. or Closing Dam Rd. to end behind RR tracks. No staging and foot-only access to river. Reach by boat from Guttenberg.			
Latitude: 42.786477 UTM Zone 16: 4745144.57		Longitude: -91.070486 UTM Zone 16: 167052.89	



Flooded closing dam

GOAL: Prevent spilled product from passing over Dam 10 into Pool 11

Site Number	Waterbody, River Mile	Site Name	
615c	Mississippi River 615.2 LDB	Dam 10 Spillway	
Strategy Type*	Boom Length	Land Access	Boat Access
Exc.	400	N	N
Strategy Implementation (Go to aerial view)			
Close notches in spillway to prevent spilled product from spreading downstream. Collection possible from barge or truck, much boom needed to set chevrons above notches. Not possible when high water overtops spillway.			
Site Access			
Lock and Dam 10 spillway. Reach by boat from Guttenberg above dam during low-water conditions.			
Latitude: 42.789248 UTM Zone 16: 4745457.61		Longitude: -91.071838 UTM Zone 16: 166957.19	



Spillway overtopped in higher water

GOAL: Notify Fish & Wildlife Service to close water control structure for Guttenberg Ponds

Site Number	Waterbody, River Mile	Site Name	
615d	Mississippi River 615.2	Guttenberg Ponds	
Strategy Type*	Boom Length	Land Access	Boat Access
Other	0	N	N
Strategy Implementation (Go to aerial view)			
<p>Notify US FWS (608) 326-0515 to close water control structure near spillway to prevent spread of oil into Guttenberg Ponds Sanctuary. In high water, could anchor boom from rock structure to trees to protect dike.</p>			
Site Access			
<p>Water control structure on east side of Guttenberg Ponds Sanctuary. Reach by boat from Guttenberg Marina ramp on RDB.</p>			
Latitude: 42.785085 UTM Zone 16: 4745005.91		Longitude: -91.074527 UTM Zone 16: 166714.86	



Looking upstream from water control structure

GOAL: Exclude spilled product from entering sensitive backwater habitats

Site Number	Waterbody, River Mile	Site Name	
614a	Mississippi River 614.4	Swift Slough	
Strategy Type*	Boom Length	Land Access	Boat Access
Exc.	800	N	N
Strategy Implementation (Go to aerial view)			
Set 300 ft. boom across slough opening to keep spilled product from spreading into sensitive backwaters. Set 200 ft. boom to close 2nd opening. Set 300 ft. boom to protect 3rd opening. Anchor to large maple trees.			
Site Access			
Opening to Swift Slough (depth 5-10 ft.), due east across main channel from Guttenberg landing. Second opening (depth 8 ft.) within slough, 1000 ft. north of first opening. Third opening (depth 1 ft.) to Big Pond 1000 ft. northeast of second opening.			
Latitude: 42.777284 UTM Zone 16: 4744185.55		Longitude: -91.08614 UTM Zone 16: 165722.78	



Looking northeast into Swift slough opening

GOAL: Contain and collect spilled product to protect sensitive downstream resources

Site Number	Waterbody, River Mile	Site Name	
614b	Mississippi River 614.5 RDB	Guttenberg Marina	
Strategy Type*	Boom Length	Land Access	Boat Access
C&C	1100	Y	Y
Strategy Implementation (Go to aerial view)			
Cascade boom to contain spill from main channel in slack water below ramp for collection. Note T&E mussels in area, consult trustees. Good staging and access. Set 100 ft. boom across marina opening.			
Site Access			
S River Park Dr., Guttenberg, IA. Use boat launch on river side of marina. Staging on site.			
Latitude: 42.776767 UTM Zone 16: 4744155.66		Longitude: -91.093167 UTM Zone 16: 165145.0	



Marina photo credit: Google user Mike Jacobson



Looking upstream from boat ramp, slack water area

GOAL: Prevent spill into Miners Creek from spreading into Mississippi River

Site Number	Waterbody, River Mile	Site Name	
614c	Mississippi River 614.4 RDB	Miners Creek	
Strategy Type*	Boom Length	Land Access	Boat Access
C&C	400	N	N
Strategy Implementation (Go to aerial view)			
Contain spill from rail or road crossings upstream on Miners Creek to prevent spread into Mississippi River. Anchor to trees on creek and at mouth (depth 9-14 ft.). Collect by vac truck on creek levee or on barge.			
Site Access			
From US Hwy 52, go east on Dekalb St., cross RR tracks, then south on 3rd St. to WWTP. Walk-in access to Miners Creek on north side. Creek mouth 800 ft. south of Guttenberg Marina, S River Park Dr., Guttenberg, IA. Reach by boat from marina. Contact Guttenberg Water Utility (563) 252-1161.			
Latitude: 42.7712 UTM Zone 16: 4743556.94		Longitude: -91.09799 UTM Zone 16: 164720.31	



Looking southwest into creek mouth

GOAL: Keep spilled product from flowing back into Dead Slough during high water

Site Number	Waterbody, River Mile	Site Name	
614d	Mississippi River 614.1	Dead Slough Outlet	
Strategy Type*	Boom Length	Land Access	Boat Access
Exc.	500	N	N
Strategy Implementation (Go to aerial view)			
<p>Opening normally an outlet. In high water conditions, exclude spill from flowing back into Dead Slough. Use in conjunction with strategy 614a.</p>			
Site Access			
<p>Opening to Dead Slough, half mile southeast of Guttenberg landing, downstream of Swift Slough opening across from marina.</p>			
Latitude: 42.773816 UTM Zone 16: 4743783.56		Longitude: -91.081897 UTM Zone 16: 166051.28	

GOAL: Exclude spilled product from passing through slough to sensitive backwaters

Site Number	Waterbody, River Mile	Site Name	
613c	Mississippi River 613	613c	
Strategy Type*	Boom Length	Land Access	Boat Access
Exc.	400	N	N
Strategy Implementation (Go to aerial view)			
During high water, set boom to deflect spilled product to protect backwaters. Anchor to trees on upstream side. Sub-surface rock wall blocks flow, exposed in low water conditions.			
Site Access			
Side channel 1.6 mi. downstream of Guttenberg Marina. Boat operators note that side channel has closing structure that creates sandbars.			
Latitude: 42.758249 UTM Zone 16: 4742038.94		Longitude: -91.07796 UTM Zone 16: 166290.09	



Looking southeast into channel opening

GOAL: Collect spilled product to prevent further spread into Pool 11

Site Number	Waterbody, River Mile	Site Name	
612	Mississippi River 612.2 RDB	Fisher's Landing	
Strategy Type*	Boom Length	Land Access	Boat Access
C&C	1000	Y	Y
Strategy Implementation (Go to aerial view)			
Contain and collect spilled product at boat ramp or in slack water below. Cascade boom from bend in main channel to push spilled product to shore. Note diverse mussel bed in area.			
Site Access			
Fisher's Landing, 2 mi. south of Guttenberg along US Hwy 52. Railroad crossing at landing. Narrow unimproved road to shore. Small staging area on site.			
Latitude: 42.747759 UTM Zone 16: 4740904.3		Longitude: -91.085628 UTM Zone 16: 165605.63	



Shoreline seen from railroad tracks

GOAL: Prevent spilled product from spreading into island backwaters

Site Number	Waterbody, River Mile	Site Name	
610	Miss. R., Bluff Slough 610.5	Bluff Slough Island	
Strategy Type*	Boom Length	Land Access	Boat Access
Exc.	600	N	N
Strategy Implementation (Go to aerial view)			
Boom shore to shore to close openings and prevent spread of oil into backwaters. Anchor to trees. Bluff Slough has high diversity mussel beds with T&E species, consult trustees. Depth 9 ft.			
Site Access			
Backwater openings on island side of Bluff Slough, at RM 610.7, RM 610.6, RM 610.4, and RM 609.8. Reach from Fisher's Landing, 1.5 mi. upstream on RDB, or Cassville, 3 mi. downstream on LDB. Land access to RDB limited to railroad tracks.			
Latitude: 42.728904		Longitude: -91.060753	
UTM Zone 16: 4738711.73		UTM Zone 16: 167540.96	



Upper openings

GOAL: Contain spilled product along railroad ballast shoreline for collection from tracks

Site Number	Waterbody, River Mile	Site Name	
609	Miss. R., Bluff Slough 609.3 RDB	Bluff Slough	
Strategy Type*	Boom Length	Land Access	Boat Access
C&C	500	Y	N
Strategy Implementation (Go to aerial view)			
Contain oil along railroad ballast to collect from tracks. Bluff Slough has high diversity mussel beds with T&E species, consult trustees.			
Site Access			
Railroad ballast shore along lower Bluff Slough. From Guttenberg, go south 5 mi. on US Hwy 52, then east 2 mi. to end of Estes Point Rd. at railroad tracks. Contact CP Police 800-716-9132 for track security and access.			
Latitude: 42.719425 UTM Zone 16: 4737603.11		Longitude: -91.04658 UTM Zone 16: 168650.95	



Lower Bluff Slough shoreline

GOAL: Collect product spilled into Turkey River before it spreads to Mississippi River

Site Number	Waterbody, River Mile	Site Name	
608	Turkey River N/A	Turkey River	
Strategy Type*	Boom Length	Land Access	Boat Access
C&C	600	Y	N
Strategy Implementation (Go to aerial view)			
For spill upstream on the Turkey River, collect spill from shore to prevent spread into Mississippi River. High water floods into low area on north shore. Small staging on site. Railroad bridge may collect debris and alter flow.			
Site Access			
From Guttenberg, go south 6 mi. on US Hwy 52, then east 3 mi. on Co. Rd. CV9, then north and east .7 mi. on Oak Rd., then northwest along RR tracks to river bridge at edge of Refuge. Launch boat from Cassville, across Mississippi River. Alternately, attempt containment at 3 points where Co. Rd. CV9 abuts riverbanks.			
Latitude: 42.707647 UTM Zone 16: 4736221.9		Longitude: -91.02793 UTM Zone 16: 170115.75	



RR bridge at left, view of Turkey River from landing



View of landing from RR bridge

GOAL: Collect product spilled into Turkey River before it spreads further into Mississippi River

Site Number	Waterbody, River Mile	Site Name	
607a	Mississippi River 607.8 RDB	Cassville Ferry	
Strategy Type*	Boom Length	Land Access	Boat Access
C&C	800	Y	Y
Strategy Implementation (Go to aerial view)			
Contain and collect spill from Turkey River at car ferry landing. Anchor in channel to contain product at dock. Collect by vac truck. Fish spawning, diverse mussel beds with T&E species in area, consult trustees.			
Site Access			
From Guttenberg, go south 6 mi. on US Hwy 52, then east 3 mi. on Co. Rd. CV9, then north and east to end of Oak Rd. Reach by boat from Cassville, downstream 1.5 miles on LDB. Landing may flood during high water.			
Latitude: 42.717822 UTM Zone 16: 4737282.76		Longitude: -91.010196 UTM Zone 16: 171622.12	



Cassville Ferry landing

GOAL: Stage equipment and support response operations in upper Pool 11

Site Number	Waterbody, River Mile	Site Name	
607b	Mississippi River 607.0 LDB	Cassville – Riverside Landing	
Strategy Type*	Boom Length	Land Access	Boat Access
Other	0	Y	Y
Strategy Implementation (Go to aerial view)			
Use site as boat launch and staging area to support nearby response operations. Current too strong for collection.			
Site Access			
End of E Crawford Street, Cassville, WI.			
Latitude: 42.708919 UTM Zone 16: 4736201.13		Longitude: -90.986303 UTM Zone 16: 173532.05	



Riverside Landing in Cassville, WI

GOAL: Divert spilled product away from Jack Oak Slough for collection downstream

Site Number	Waterbody, River Mile	Site Name	
606	Mississippi River 606.0 LDB	Jack Oak Slough	
Strategy Type*	Boom Length	Land Access	Boat Access
Div.	600	Y	N
Strategy Implementation (Go to aerial view)			
Anchor boom to dolphins on upstream shore to kick spilled product back into main channel for collection downstream. First C&C site at strategy 603a. Contact facility operator (608) 788-4000 for shore access.			
Site Access			
Top of Jack Oak Slough, .3 mi. below Cassville municipal ramp. Stoneman Generating Station owned by DTE, operated by Dairyland Power.			
Latitude: 42.704047 UTM Zone 16: 4735639.64		Longitude: -90.981036 UTM Zone 16: 173938.0	



Jack Oak Slough opening, power plant out of view at left

***GOAL: Divert spilled product into main channel
for collection downstream***

Site Number	Waterbody, River Mile	Site Name	
604a	Mississippi River 604.4	Jack Oak Island	
Strategy Type*	Boom Length	Land Access	Boat Access
Div.	600	N	N
Strategy Implementation (Go to aerial view)			
Anchor boom sets on upstream shore to kick spilled product back into main channel for collection downstream. Collection site at strategy 596.			
Site Access			
Cut at lower end of Jack Oak Island. Reach from Cassville municipal ramp, 2 mi. upstream on LDB.			
Latitude: 42.692253 UTM Zone 16: 4734243.08		Longitude: -90.958562 UTM Zone 16: 175717.4	



Shore above cut, at right

GOAL: Exclude spilled product from spreading into sensitive island backwaters

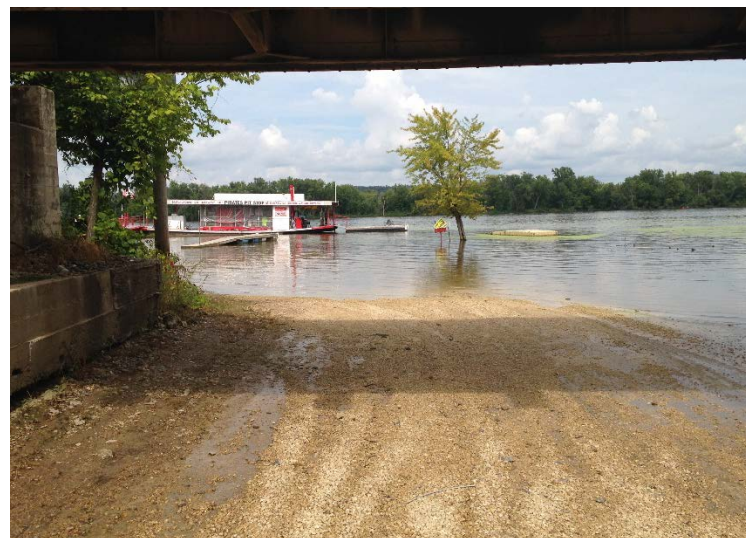
Site Number	Waterbody, River Mile	Site Name	
604b	Mississippi River 604.1	Sand Cut	
Strategy Type*	Boom Length	Land Access	Boat Access
Exc.	600-1000	N	N
Strategy Implementation (Go to aerial view)			
Boom across opening to island backwaters to protect sensitive fish, turtle, and eagle habitat. Also close any seasonal openings on main channel side of island.			
Site Access			
Backwater opening at lower end of Jack Oak Island. Reach by boat from Cassville municipal ramp, 2 mi. upstream on LDB.			
Latitude: 42.691374 UTM Zone 16: 4734123.14		Longitude: -90.95275 UTM Zone 16: 176189.03	



Looking into backwater opening

GOAL: Collect product spilled into Picayune Chute to protect downstream resources.

Site Number	Waterbody, River Mile	Site Name	
603a	Mississippi River 603.6 RDB	Lowell's Landing	
Strategy Type*	Boom Length	Land Access	Boat Access
C&C	1000	Y	Y
Strategy Implementation (Go to aerial view)			
Contain spill into Picayune Chute along shore above creek mouth for collection from ramp. Cascade boom from channel to contain along shore. Collect with vac truck.			
Site Access			
Boat launch at end of Addison St., on north side of the mouth of Panther Creek in North Buena Vista, IA. Moderate staging on site. Reach from Great River Rd. via Main St.			
Latitude: 42.683326 UTM Zone 16: 4733213.94		Longitude: -90.948734 UTM Zone 16: 176476.27	



Flooded access under railroad bridge, creek at right



Shore above creek mouth, looking upstream

GOAL: Divert spilled product away from Bunker Chute for collection downstream

Site Number	Waterbody, River Mile	Site Name	
603b	Mississippi River 603.2 RDB	Bunker Chute	
Strategy Type*	Boom Length	Land Access	Boat Access
Div.	1000	N	N
Strategy Implementation (Go to aerial view)			
Divert spilled product away from Bunker Chute for downstream collection. Wing dams in area slow flow. Cascade boom sets from shore to push spilled product away from chute opening. Collection at strategy 596.			
Site Access			
Upper end of Bunker Chute. Reach by boat from marina half mile upstream on RDB. Possible land access to railroad tracks through private land off Co. Rd. C9Y.			
Latitude: 42.681952 UTM Zone 16: 4733029.33		Longitude: -90.940375 UTM Zone 16: 177154.09	



Looking into Bunker Chute at right

GOAL: Exclude spilled product from backwater opening to protect important habitat

Site Number	Waterbody, River Mile	Site Name	
602	Mississippi River 602.0 LDB	602	
Strategy Type*	Boom Length	Land Access	Boat Access
Exc.	600	N	N
Strategy Implementation (Go to aerial view)			
Deflect spilled product away from high-flow backwater opening to protect fish and eagle habitat. Cascade boom from trees on shore above opening to keep spill in main channel.			
Site Access			
Main inflow to Bertom Lake at RM 602 LDB. Reach by boat from Cassville, 4 mi. upstream on LDB; or North Buena Vista, 1.5 mi. upstream on RDB.			
Latitude: 42.686649 UTM Zone 16: 4733463.3		Longitude: -90.917393 UTM Zone 16: 179061.51	



Backwater opening

GOAL: Protect T&E species habitat on island

Site Number	Waterbody, River Mile	Site Name	
599a	Miss. R.; McCartney L. 599.5	Bertom Island	
Strategy Type*	Boom Length	Land Access	Boat Access
Exc.	2000	N	N
Strategy Implementation (Go to aerial view)			
Set protection boom around shoreline to protect T&E species and habitat on island. Island access restricted, contact FWS. Anchor to shore or trees.			
Site Access			
Bertom Island within McCartney Lake. Stage equipment and reach by boat from McCartney Lake ramp, .7 mi. south on LDB. Southeast tip of island shallow, but boat can access whole shore.			
Latitude: 42.681774 UTM Zone 16: 4732728.4		Longitude: -90.866195 UTM Zone 16: 183231.68	



South end of island



West shore of island

GOAL: Collect spilled product to protect sensitive downstream resources

Site Number	Waterbody, River Mile	Site Name	
596	Mississippi River 596.0 RDB	Finley's Landing	
Strategy Type*	Boom Length	Land Access	Boat Access
C&C	1200	Y	Y
Strategy Implementation (Go to aerial view)			
Cascade boom to collect spilled product from main channel at beach, across RR tracks from marina. Anchor in channel. May need to exclude spill from creek mouth and marina.			
Site Access			
From Balltown Rd., go north 4 mi. to end of Finleys Landing Rd. Launch boats from marina ramp. Staging on site.			
Latitude: 42.655068 UTM Zone 16: 4729535.91		Longitude: -90.805411 UTM Zone 16: 188078.83	



Looking upstream from beach past creek mouth



Gate and railroad crossing to beach

GOAL: Stage equipment and support response operations in lower Pool 11

Site Number	Waterbody, River Mile	Site Name	
591	Mississippi River 591.0 LDB	Grant River Recreation Area	
Strategy Type*	Boom Length	Land Access	Boat Access
Other	0	Y	Y
Strategy Implementation (Go to aerial view)			
Best access for large equipment on lower Pool 11. Excellent staging and access.			
Site Access			
From Potosi and Tennyson, go southeast 2 mi. on WI Hwy 35, then south and west 5 mi. on River Lane Rd., then southwest to end of Park Rd. Signage present along route. Also from Cassville, follow Hwy 133 to River Lane Rd., then along river 2 mi. to Park Rd.			
Latitude: 42.651617 UTM Zone 16: 4728772.65		Longitude: -90.701132 UTM Zone 16: 196610.5	



Public landing



Large parking area

GOAL: Collect spilled product to protect sensitive downstream resources

Site Number	Waterbody, River Mile	Site Name	
589a	Mississippi River 589.5 RDB	Hawkeye Boat Marina	
Strategy Type*	Boom Length	Land Access	Boat Access
C&C	1100	Y	Y
Strategy Implementation (Go to aerial view)			
Contain spilled product at natural collection area in bend along jetty. Collect with vac truck from shore. Protect marina harbor boats and fish overwintering area. Set 100 ft. boom to protect boats in harbor. Combine with strategy 589b.			
Site Access			
Six miles north of Lock & Dam 11 on RDB. From US Hwy 52 north of Dubuque, go north .2 miles on Sherrill Rd., then north 4 miles on Mud Lake Rd. Cross RR tracks on Golf Lake Rd. to marina. Site is on river side of jetty. Launch boat from public ramp on south side of marina.			
Latitude: 42.619434 UTM Zone 16: 4725199.54		Longitude: -90.701445 UTM Zone 16: 196428.21	



Looking upstream; Photo credit: Google Panoramia user Dave464



View of jetty from road

GOAL: Prevent spilled product from spreading into sensitive Mud Lake

Site Number	Waterbody, River Mile	Site Name	
589b	Mississippi River 589.4 RDB	Mud Lake Opening 1	
Strategy Type*	Boom Length	Land Access	Boat Access
Exc.	50	Y	N
Strategy Implementation (Go to aerial view)			
Boom across opening in levee to prevent spread of spilled product into Mud Lake backwaters. Anchor to rock levee. Sensitive habitat for fish and amphibians both in Mud Lake and on river side of levee. Debris may be problematic for setting boom.			
Site Access			
At Hawkeye Boat Marina inlet. From US Hwy 52 north of Dubuque, go north .2 miles on Sherrill Rd., then north 4 miles on Mud Lake Rd. Site is opening 500 ft. east of public boat launch within harbor. Staging in parking lot.			
Latitude: 42.618102 UTM Zone 16: 4725049.98		Longitude: -90.701 UTM Zone 16: 196458.24	



Looking south from marina channel through opening



Public ramp

GOAL: Prevent spilled product from spreading into sensitive Mud Lake

Site Number	Waterbody, River Mile	Site Name	
588a	Mississippi River 588.6 RDB	Mud Lake Opening 2	
Strategy Type*	Boom Length	Land Access	Boat Access
Exc.	50	N	N
Strategy Implementation (Go to aerial view)			
Boom across opening in levee to prevent spread of spilled product into Mud Lake backwaters. Anchor to rock levee on both sides. Sensitive habitat for fish, mussels, and amphibians both in Mud Lake and on river side of levee.			
Site Access			
From US Hwy 52 north of Dubuque, go north .2 miles on Sherrill Rd., then north 4 miles on Mud Lake Rd. Site is opening .6 miles south of public boat launch. Staging at Mud Lake Park ramp parking lot. Very shallow water around inlet, access easier from Mud Lake side.			
Latitude: 42.607727 UTM Zone 16: 4723877.65		Longitude: -90.695389 UTM Zone 16: 196868.13	



Looking west into second opening



Looking east toward main channel from within opening

GOAL: Secondary collection area to protect sensitive Mud Lake backwaters

Site Number	Waterbody, River Mile	Site Name	
588b	Mississippi River 588.0 RDB	Mud Lake Opening 4	
Strategy Type*	Boom Length	Land Access	Boat Access
C&C	250	N	N
Strategy Implementation (Go to aerial view)			
If strategy 587 fails, contain spilled product at slack water of Y in channel. Collect by boat. Shallow water, heavily vegetated area.			
Site Access			
From US Hwy 52 north of Dubuque, go north .2 miles on Sherrill Rd., then north 4 miles on Mud Lake Rd. Site is opening 1.2 miles south of public boat launch, in channel behind levee. Staging in Mud Lake Park parking lot.			
Latitude: 42.600713 UTM Zone 16: 4723093.4		Longitude: -90.693937 UTM Zone 16: 196953.19	



Looking south at east end of dredge island at Y in channel

GOAL: Prevent spilled product from spreading into sensitive Mud Lake

Site Number	Waterbody, River Mile	Site Name	
587	Mississippi River 587.6 RDB	Mud Lake Opening 3	
Strategy Type*	Boom Length	Land Access	Boat Access
Exc.	100	N	N
Strategy Implementation (Go to aerial view)			
Boom from tip of levee to deflect spilled product into main channel. Prevent spread into Mud Lake backwaters. Anchor into rock jetty. Thick vegetation.			
Site Access			
From US Hwy 52 north of Dubuque, go north .2 miles on Sherrill Rd., then north 4 miles on Mud Lake Rd. Site is opening 1.6 miles south of public boat launch. Staging in Mud Lake Park parking lot.			
Latitude: 42.595041 UTM Zone 16: 4722447.47		Longitude: -90.689456 UTM Zone 16: 197293.37	



Looking west from main channel to end of dike

GOAL: Prevent product spilled into Maquoketa River from spreading into Mississippi River

Site Number	Waterbody, River Mile	Site Name	
586a	Mississippi River 586.3 RDB	Little Maquoketa River	
Strategy Type*	Boom Length	Land Access	Boat Access
C&C	200	Y	N
Strategy Implementation (Go to aerial view)			
Collect spilled product from Little Maquoketa River bank. Boom from north bank to collect spill along south bank. Prevent spilled product from spreading to Mississippi River.			
Site Access			
Along access road near mouth of Little Maquoketa River north of Dubuque. Access site via Riverside Rd. behind John Deere facility. Narrow road to dike at Deere Dike Park ramp, left at gate to riverbank.			
Latitude: 42.576394 UTM Zone 16: 4720346.44		Longitude: -90.678593 UTM Zone 16: 197649.93	



Mouth of Little Maquoketa River, looking northeast

GOAL: Prevent product spilled into Maquoketa River from spreading into Mississippi River

Site Number	Waterbody, River Mile	Site Name	
586b	Mississippi River 586.3 RDB	John Deere	
Strategy Type*	Boom Length	Land Access	Boat Access
C&C	1000	Y	N
Strategy Implementation (Go to aerial view)			
Collect spilled product from shore. Boom across northwest side to collect spill from Little Maquoketa River. Deflect from main channel to collect on either northwest or southeast side. Marker island can be used to set boom.			
Site Access			
Near end of jetty behind facility to mouth of Little Maquoketa River. John Deere 563-589-5151 at 18000 S John Deere Rd., north of Dubuque. Access site via Riverside Rd. behind facility. Narrow road to dike at Deere Dike Park ramp may be too small for vac truck.			
Latitude: 42.576394 UTM Zone 16: 4720337.64		Longitude: -90.678593 UTM Zone 16: 198094.62	



End of dike, looking toward Little Maquoketa River mouth



Marker island off end of dike

GOAL: Prevent spilled product from spreading into sensitive Sunfish Lake

Site Number	Waterbody, River Mile	Site Name	
584	Mississippi River 584.5 LDB	Sunfish Lake N	
Strategy Type*	Boom Length	Land Access	Boat Access
Exc.	200	N	N
Strategy Implementation (Go to aerial view)			
Set chevron boom to prevent spill from spreading into Sunfish Lake. Anchor to rock or trees outside opening. Alternately, natural containment area at north end of levee. Collect from RR tracks, reach from private quarry access road.			
Site Access			
From US Hwy 61/151 in Kieler, take Old Hwy Rd. to Plum Hollow Rd., then west and south to river. Dike across RR tracks behind quarry road. Boat access from Sunfish Lake access, 1.5 mi. downstream on LDB and Dam 11.			
Latitude: 42.560593 UTM Zone 16: 4718467.41		Longitude: -90.646112 UTM Zone 16: 200685.07	



Looking south through opening to Sunfish Lake



Looking east toward potential collection area at shore

GOAL: Prevent spilled product from spreading into sensitive Sunfish Lake

Site Number	Waterbody, River Mile	Site Name	
583a	Mississippi River 583.5	Sunfish Lake S	
Strategy Type*	Boom Length	Land Access	Boat Access
Exc.	1000	N	N
Strategy Implementation (Go to aerial view)			
Anchor boom to shore to deflect spilled product back into main channel to protect sensitive Sunfish Lake habitats. Anchor to two rock outcrops or trees.			
Site Access			
Lowest point of dike enclosing Sunfish Lake, half mile above Lock & Dam 11. Reach by boat from Sunfish Lake access, .5 mi. downstream on LDB and Dam 11. From US Hwy 61, take Eagle Point Lane to dam.			
Latitude: 42.548356 UTM Zone 16: 4717100.51		Longitude: -90.643892 UTM Zone 16: 200808.78	



Looking northeast from main channel toward Sunfish Lake

GOAL: Collect spilled product before it passes over Dam 11

Site Number	Waterbody, River Mile	Site Name	
583b	Mississippi River 583 RDB	Lock and Dam 11	
Strategy Type*	Boom Length	Land Access	Boat Access
C&C	1000	Y	N
Strategy Implementation (Go to aerial view)			
USACE has spill response plan, call Gary Kilburg at (563) 582-1204. Anchor boom to end of lock wall to contain product from main channel in slack water area. Collect with vac truck from shore.			
Site Access			
Slack water pool behind lock wall at LDM 11. End of Volunteer Dr. at north end of Dubuque. Contact Lockmaster (563) 582-1204 for access and permission to use site.			
Latitude: 42.540496 UTM Zone 16: 4716237.0		Longitude: -90.64657 UTM Zone 16: 200551.26	



Slack water pool above Lock 11



Looking upstream from end of lock wall

GOAL: Collect spilled product to prevent it passing over dam into Pool 12

Site Number	Waterbody, River Mile	Site Name	
583c	Mississippi River 583 LDB	Sunfish Lake Landing	
Strategy Type*	Boom Length	Land Access	Boat Access
C&C	1000	Y	Y
Strategy Implementation (Go to aerial view)			
Access lower Pool 11 from this boat launch. Can contain spill from east side of river in slack water on west side of ramp. Boats stay clear of dam exclusion zone, anchor boom in channel toward ramp.			
Site Access			
From US Hwy 61, go SW 2 mi. to end of Eagle Point Lane to landing on upper side of Dam 11. Good staging in O'Leary's Lake Rec Area parking lot. Contact Lockmaster (563) 582-1204 to access dam west of ramp through gate.			
Latitude: 42.541957 UTM Zone 16: 4716366.37		Longitude: -90.637251 UTM Zone 16: 201323.59	



Looking from river southeast toward landing



Public ramp

GOAL: Exclude spilled product from O'Leary's Lake fish habitat

Site Number	Waterbody, River Mile	Site Name	
583d	Mississippi River 583 LDB	O'Leary's Lake	
Strategy Type*	Boom Length	Land Access	Boat Access
Exc.	400	Y	N
Strategy Implementation (Go to aerial view)			
Boom across small opening to lake to keep spilled product that has passed over dam from entering quality fish habitat. Coordinate rollers with Lockmaster (563) 582-1204. Set 2nd boom along barge to prevent backflow.			
Site Access			
From US Hwy 61, go southwest 2 miles to end of Eagle Point Lane to lake on lower side of Dam 11. Good staging in parking lot. Reach by boat from A.Y. McDonald Park in Dubuque, 1 mi. downstream on RDB. Barge permanently anchored 20 ft. below opening.			
Latitude: 42.540733 UTM Zone 16: 4716238.94		Longitude: -90.639655 UTM Zone 16: 201120.29	



Looking west across O'Leary's Lake at Lock & Dam 11

***GOAL: Keep spilled product from entering
Heron Pond habitat***

Site Number	Waterbody, River Mile	Site Name	
581a	Mississippi River 581.8	Riverview Park	
Strategy Type*	Boom Length	Land Access	Boat Access
Exc.	300	Y	N
Strategy Implementation (Go to aerial view)			
Anchor 200 ft. boom to power pole 200 ft. above opening, deflect for collection along RDB. Set 100 ft. boom across small opening to keep spilled product from entering Heron Pond.			
Site Access			
Heron Pond opening; Access by boat from across side channel at Hawthorne Street boat ramp. Reach by land at north end of island along park trail. Staging at ramp, clear area by power pole, or downstream at Dubuque Yacht Club.			
Latitude: 42.521962 UTM Zone 16: 4714166.11		Longitude: -90.643016 UTM Zone 16: 200754.56	

GOAL: Prevent spilled product from flowing back into sensitive backwaters

Site Number	Waterbody, River Mile	Site Name	
581b	Mississippi River 581.4	Stumpf Island	
Strategy Type*	Boom Length	Land Access	Boat Access
Exc.	800	N	N
Strategy Implementation (Go to aerial view)			
Set 200 ft. boom in main channel off island to deflect product and 600 ft. boom from LDB to keep spill from spreading into backwaters. Or set 800 ft. boom from east side of island within slough.			
Site Access			
Lower end of Stumpf Island complex near Steamboat Hollow Upper Light, just above US Hwy 61/151 bridge. Reach from Hawthorne Street ramp, half mile upstream on RDB.			
Latitude: 42.517315 UTM Zone 16: 4713614.74		Longitude: -90.633006 UTM Zone 16: 201554.72	



Lower end of Stumpf Island, main channel at left

GOAL: Prevent spill from passing through culvert into Mississippi River

Site Number	Waterbody, River Mile	Site Name	
580	Mississippi River 580.6 RDB	Kerper Blvd.	
Strategy Type*	Boom Length	Land Access	Boat Access
C&C	100	Y	N
Strategy Implementation (Go to aerial view)			
Close gates and boom across culvert opening to prevent spill from RR or highway in city from reaching river. Collect spilled product along road with vac truck.			
Site Access			
Culvert under Kerper Blvd. in Dubuque, connecting retention basin to Mississippi River. Busy road will need law enforcement support to control traffic. Small staging along road.			
Latitude: 42.509836 UTM Zone 16: 4712857.16		Longitude: -90.653677 UTM Zone 16: 199820.56	



Culvert inlet



Top of culvert gate

GOAL: Stage equipment and support response operations in upper Pool 12

Site Number	Waterbody, River Mile	Site Name	
579a	Mississippi River 579.5 LDB	East Dubuque Staging	
Strategy Type*	Boom Length	Land Access	Boat Access
Other	1000	Y	Y
Strategy Implementation (Go to aerial view)			
Good staging area and access for response in upper Pool 12. Alternately, containment in slack water at north side possible for spill along LDB. Boom up into current to herd oil along riprap shore. Collect with vac truck.			
Site Access			
Just above US Hwy 20 bridge. From Wisconsin Ave. or US Hwy 20, go southwest 1 block to Wall St., then northwest to 2nd St., turn west to end of Boat Ramp Rd. Signage marks final turn.			
Latitude: 42.492424 UTM Zone 16: 4710910.1		Longitude: -90.64991 UTM Zone 16: 200046.77	



Public ramp



Potential collection area at north side of parking area

GOAL: Exclude spilled product from side channel to protect marina

Site Number	Waterbody, River Mile	Site Name	
579b	Mississippi River 579 LDB	Mid-Town Marina	
Strategy Type*	Boom Length	Land Access	Boat Access
Exc.	400-600	Y	Y
Strategy Implementation (Go to aerial view)			
Set boom from north shore of side channel to deflect spilled product into main channel. Cascade, anchor from land and water. Secondary action anchor boom shore to shore across marina opening.			
Site Access			
285 5th St., East Dubuque, IL. Opening on north side of marina, reach from 5th St. Extended to river. Land access poor, heavily vegetated and marshy. Reach by boat from public ramp half mile upstream on LDB. Stage at public ramp or Mid-Town Marina.			
Latitude: 42.487056 UTM Zone 16: 4710319.82		Longitude: -90.651582 UTM Zone 16: 199883.7	



Upstream shore of side channel inlet



Looking west from marina toward river

7GOAL: Exclude spilled product from entering side channel and important habitat

Site Number	Waterbody, River Mile	Site Name	
577a	Mississippi River 577.9 LDB	Bent Prop Inlet	
Strategy Type*	Boom Length	Land Access	Boat Access
Exc.	300	N	N
Strategy Implementation (Go to aerial view)			
Boom across channel opening to keep spill from spreading into backwaters and marina. In high water, may need to set boom within slough. Anchor to trees. Significant reptile, fish, and eagle habitat.			
Site Access			
Opening through islands from main channel to Bent Prop Marina, 780 Harbor Dr. (815) 747-8860. Good ramp at marina for boat access.			
Latitude: 42.474613 UTM Zone 16: 4708914.89		Longitude: -90.645077 UTM Zone 16: 200358.92	



Looking northeast into slough



Dense shore vegetation in high water

GOAL: Collect product spilled into Catfish Creek before it spreads to Mississippi River

Site Number	Waterbody, River Mile	Site Name	
577b	Catfish Creek N/A	Catfish Creek	
Strategy Type*	Boom Length	Land Access	Boat Access
C&C	300	Y	N
Strategy Implementation (Go to aerial view)			
Contain and collect product spilled upstream into Catfish Creek before it reaches mussel beds at mouth of creek and Mississippi River. Tie boom to maple trees on banks. Need small boat support to set boom.			
Site Access			
Bridge at Mines of Spain Rd. creek crossing just south of Dubuque. Reach via US Hwy 61 and Julien Dubuque Dr. Reach by boat from Schmitt Harbor in Dubuque or Mid-Town Marina in East Dubuque. Small staging area in parking lot below bridge.			
Latitude: 42.466893 UTM Zone 16: 4708066.71		Longitude: -90.64768 UTM Zone 16: 200107.97	



Access track to dock from Mines of Spain Rd.



Dock at collection point below bridge

GOAL: Exclude spilled product from Switzer Lake inlet to protect valuable habitat

Site Number	Waterbody, River Mile	Site Name	
576a	Mississippi River 576.7	Switzer Lake	
Strategy Type*	Boom Length	Land Access	Boat Access
Exc.	400	N	N
Strategy Implementation (Go to aerial view)			
<p>Boom across lake openings to keep spilled product out of valuable fish habitat. Anchor to trees on both sides. High water may overtop barriers and make exclusion untenable.</p>			
Site Access			
<p>Openings to Switzer Lake backwaters. Reach by boat from Frentress Lake Marina, half mile downstream on LDB. Opening 100 ft. wide in low water, up to 1000 ft. wide in high water conditions.</p>			
Latitude: 42.467181 UTM Zone 16: 4708004.27		Longitude: -90.620892 UTM Zone 16: 202311.97	



Main opening to Switzer Lake

GOAL: Exclude spilled product from Frentress Lake inlet to protect important habitat

Site Number	Waterbody, River Mile	Site Name	
576b	Mississippi River 576.3	Frentress Lake	
Strategy Type*	Boom Length	Land Access	Boat Access
Exc.	400	N	N
Strategy Implementation (Go to aerial view)			
Good anchor point upstream of opening. Set boom into channel to prevent spilled product from spreading into important mussel and fish habitat in Frentress Lake.			
Site Access			
Opening to Frentress Lake backwaters. Reach by boat from Frentress Lake Marina on LDB. Opening small in low water conditions.			
Latitude: 42.463233 UTM Zone 16: 4707547.36		Longitude: -90.615631 UTM Zone 16: 202725.87	



Top of opening at left



Looking east into Frentress Lake

GOAL: Prevent release to industrial harbor from spreading to Mississippi River

Site Number	Waterbody, River Mile	Site Name	
574a	Mississippi River 574.6 LDB	574a	
Strategy Type*	Boom Length	Land Access	Boat Access
Exc.	300	N	N
Strategy Implementation (Go to aerial view)			
Boom across upper end of harbor channel to prevent product spilled into industrial harbor from spreading into river. Contain as close to source as possible.			
Site Access			
Channel from industrial harbor to Mississippi River. Access by boat from Frentress Lake Marina, 1.5 mi. upstream on LDB, or Massey Landing, 1 mi. downstream on RDB. Staging at IEI Barge Services with permission. Land access limited by vegetation.			
Latitude: 42.451508 UTM Zone 16: 4706157.18		Longitude: -90.590446 UTM Zone 16: 204741.66	



Looking north into industrial harbor



East shore, Menominee River just beyond

GOAL: Contain release from road, rail, or pipeline before it spreads to Mississippi River

Site Number	Waterbody, River Mile	Site Name	
574b	Menominee River N/A	Menominee River Crossings	
Strategy Type*	Boom Length	Land Access	Boat Access
C&C	200	Y	N
Strategy Implementation (Go to aerial view)			
Contain and collect spill from highway, rail, or pipeline to prevent spread into Mississippi River. Clear vegetation to reach banks. Boom across small river. Stinging nettles present.			
Site Access			
Banks of Menominee River near Barge Terminal Rd., below 2 RR bridges, 2 highway bridges, and pipeline crossing. Contact facility to request access to site. Main office right at fork, riverbank left at fork. Cross field next to Building C to reach river.			
Latitude: 42.461195 UTM Zone 16: 4707221.66		Longitude: -90.587193 UTM Zone 16: 205054.72	



Open field to reach Menominee River, Building C at right



View of lower railroad bridge from edge of field

GOAL: Keep spilled product in main channel to protect marina and sensitive fish habitat

Site Number	Waterbody, River Mile	Site Name	
574c	Mississippi River 574.4 RDB	Molo Slough	
Strategy Type*	Boom Length	Land Access	Boat Access
Exc.	1000	Y	N
Strategy Implementation (Go to aerial view)			
Cascade five 200 ft. segments of boom from shore to keep spilled product in main channel to protect marina and sensitive fish habitat. No staging near site. May need river traffic closed to be effective. Note that exclusion here prevents collection at RSP 573a .			
Site Access			
Upper end of Molo Slough. Reach by boat from Massey Landing, .8 mi. downstream on RDB. Limited land access along RR tracks. Contact CP Rail Police (800) 716-9132 for track security.			
Latitude: 42.444626 UTM Zone 16: 4705400.75		Longitude: -90.592715 UTM Zone 16: 204522.63	



Rail ballast shoreline above Molo Slough

GOAL: Collect spilled product to protect sensitive downstream resources

Site Number	Waterbody, River Mile	Site Name	
573a	Mississippi River 573.6 RDB	Massey Landing	
Strategy Type*	Boom Length	Land Access	Boat Access
C&C	1000	Y	Y
Strategy Implementation (Go to aerial view)			
In normal flow conditions, contain spill at landing or marina shore and collect with vac truck. Good staging on site. Pipeline crossing 2 mi. upstream. May be untenable in high water conditions.			
Site Access			
9526 Massey Marina Ln. From US Hwy 52 south of Dubuque, take Olde Massey Rd. or Massey Station Rd. to Massey Marina Ln. at river. Public ramp is on upstream side.			
Latitude: 42.43451 UTM Zone 16: 4704258.45		Longitude: -90.5873 UTM Zone 16: 204920.44	



Massey Landing parking lot



High water conditions at boat ramp

GOAL: Exclude spilled product from spreading into sensitive Nine Mile Island backwaters

Site Number	Waterbody, River Mile	Site Name	
573b	Mississippi River 573.5	Nine Mile Island	
Strategy Type*	Boom Length	Land Access	Boat Access
Exc.	300	N	N
Strategy Implementation (Go to aerial view)			
Boom across island backwater openings to exclude product from sensitive fish, turtle, and eagle habitat. Need four 50 ft. booms and one 100 ft. boom for backflow from lowest side channel.			
Site Access			
Seasonal openings on southwest side of 9 Mile Island. Reach by boat from Massey Landing or Marina in adjacent slough. Likely openings near RM 573.9, 573.5, 572.6, and 572.5. Larger opening at RM 572.1. Stage at launch site.			
Latitude: 42.434725 UTM Zone 16: 4704261.14		Longitude: -90.581189 UTM Zone 16: 205424.21	



Opening to lowest side channel

GOAL: Prevent spilled product from spreading into sensitive backwaters

Site Number	Waterbody, River Mile	Site Name	
572	Mississippi River 572.2 LDB	Little Menominee Slough	
Strategy Type*	Boom Length	Land Access	Boat Access
Exc.	600	N	N
Strategy Implementation (Go to aerial view)			
Boom across slough opening to keep spilled product in main channel. Boats mind rock wall, go to IL shore to stay clear. Important fish habitat in slough. Slough is wide but normally show.			
Site Access			
Slough .8 mi. downstream of Rentech Nitrogen terminal on LDB. Access by boat from Massey Landing, 1 mi. upstream on RDB. Staging there or at IEI Barge Terminal, 2 mi. upstream on LDB. Contact IEI (815) 747-3161 for permission and access.			
Latitude: 42.428791 UTM Zone 16: 4703514.63		Longitude: -90.55592 UTM Zone 16: 207475.4	



Looking into slough



Upstream side, Rentech terminal at far left

GOAL: Exclude spilled product from sensitive backwater habitats

Site Number	Waterbody, River Mile	Site Name	
570	Mississippi River 570.4 LDB	Upper Deadmans Slough	
Strategy Type*	Boom Length	Land Access	Boat Access
Exc.	1700	N	N
Strategy Implementation (Go to aerial view)			
Anchor boom to trees on downstream ends of four islands to keep spilled product out of sensitive backwater habitats. Need 600, 300, 600, and 200 ft. sections. Use to minimize need to implement strategy 569.			
Site Access			
Channel openings on left bank of Deadmans Slough from main channel to Island No. 235. Sites at RM 570.5, RM 570, RM 569.8, and RM 569.6. Reach by boat from Massey Landing or Marina 3 mi. upstream on RDB.			
Latitude: 42.413239 UTM Zone 16: 4701724.94		Longitude: -90.537736 UTM Zone 16: 208899.46	



Upper end of Deadmans Slough

GOAL: Exclude spilled product from sensitive backwater habitats

Site Number	Waterbody, River Mile	Site Name	
569	Mississippi River 569.3 LDB	Deadmans Slough	
Strategy Type*	Boom Length	Land Access	Boat Access
Exc.	800	N	N
Strategy Implementation (Go to aerial view)			
<p>Boom across openings or cascade boom to prevent spread of spilled product into sensitive backwater habitat. Some closed during low water conditions. Use if strategy 570 ineffective.</p>			
Site Access			
<p>Backwater openings on left bank of Deadmans Slough across from upper Island No. 235 at RM 569.4, RM 569, RM 568.5 and RM 568.2. Reach by boat from Massey Landing or Marina 4 mi. upstream on RDB.</p>			
Latitude: 42.409923		Longitude: -90.514517	
UTM Zone 16: 4701277.27		UTM Zone 16: 210794.94	

GOAL: Exclude spilled product from sensitive backwater habitats

Site Number	Waterbody, River Mile	Site Name	
567a	Mississippi River 567 LDB	Lower Deadmans Slough	
Strategy Type*	Boom Length	Land Access	Boat Access
Exc.	800	N	N
Strategy Implementation (Go to aerial view)			
Boom across openings or cascade boom to prevent spread of spilled product into sensitive backwater habitat. Some closed during low water conditions.			
Site Access			
Backwater openings on left bank of Deadmans Slough across from upper Island No. 235 at RM 567.8, RM 567.6, RM 567, and RM 566.7. Reach by boat from Ferry Landing 1 mi. downstream on LDB.			
Latitude: 42.394534 UTM Zone 16: 4699473.55		Longitude: -90.486638 UTM Zone 16: 213019.15	



Cut open year-round



High water opening

GOAL: Collect spilled product to protect sensitive downstream resources

Site Number	Waterbody, River Mile	Site Name	
567b	Mississippi River 567 RDB	Tete des Mortes Creek	
Strategy Type*	Boom Length	Land Access	Boat Access
C&C	1000	Y	Y
Strategy Implementation (Go to aerial view)			
Possible site for containment and collection of product from the main channel. Six miles below and seven miles above nearest collection sites on RDB.			
Site Access			
Small private ramp at mouth of Tete des Mortes Creek. From US Hwy 52 in St. Donatus, go northeast and east 3 miles on High Bridge Rd., then northeast to river on Nita Ho Valley Rd. If ramp too small, reach from Galena Ferry Landing across river.			
Latitude: 42.382598 UTM Zone 16: 4698159.34		Longitude: -90.489985 UTM Zone 16: 212689.11	



View of landing from river in high water



Landing seen from creek side of railroad bridge

GOAL: Stage equipment and support response operations in Pool 12

Site Number	Waterbody, River Mile	Site Name	
566	Mississippi River 566.5 LDB	Galena Ferry Landing	
Strategy Type*	Boom Length	Land Access	Boat Access
Other	0	Y	Y
Strategy Implementation (Go to aerial view)			
Good staging and launch area for mid Pool 12. Area floods in high water conditions.			
Site Access			
From US Hwy 20 in Galena, turn right on Bench St. just before river, then right on Gear St., then left on S West St., which becomes Ferry Landing Rd. Go 2.5 mi. to river. Several steep hills along route. S West St. off US Hwy 20 very steep.			
Latitude: 42.3877 UTM Zone 16: 4698648.69		Longitude: -90.4671 UTM Zone 16: 214596.46	



Flooded boat ramp



Looking southeast across parking area

GOAL: Exclude spilled product from sensitive backwater habitats

Site Number	Waterbody, River Mile	Site Name	
564	Mississippi River 564.2	Sunfish Lake Opening	
Strategy Type*	Boom Length	Land Access	Boat Access
Exc.	100-300	N	N
Strategy Implementation (Go to aerial view)			
Boom across opening to prevent spilled product from spreading into backwater fish habitat. Anchor 100 ft. boom to rock wall in low water. In high water, anchor 300 ft. boom to trees on both shores.			
Site Access			
Notch in rock wall opening to Sunfish Lake backwaters. Reach from Galena Ferry Landing, 2 mi. upstream on LDB.			
Latitude: 42.362187 UTM Zone 16: 4695727.37		Longitude: -90.44082 UTM Zone 16: 216645.15	



Anchor point at upper end of submerged rock wall



Lower end of opening

GOAL: Exclude spilled product from sensitive backwater habitats

Site Number	Waterbody, River Mile	Site Name	
563	Mississippi River 563.6	Sunfish Lake 2	
Strategy Type*	Boom Length	Land Access	Boat Access
C&C	100	N	N
Strategy Implementation (Go to aerial view)			
Boom across mouth to contain product spilled into Galena River and keep it from spreading into backwater fish habitat. Collect by boat. Only needed during high flow conditions.			
Site Access			
Galena River mouth at lower end of Sunfish Lake. Reach from Galena Ferry Landing, 3 mi. upstream on LDB.			
Latitude: 42.352873 UTM Zone 16: 4694599.73		Longitude: -90.428996 UTM Zone 16: 216721.82	



Galena River mouth at right



Closer view of river mouth

GOAL: Prevent spilled product from spreading into sensitive backwater habitats

Site Number	Waterbody, River Mile	Site Name	
562a	Mississippi River 562.5	Stone Slough	
Strategy Type*	Boom Length	Land Access	Boat Access
Exc.	800	N	N
Strategy Implementation (Go to aerial view)			
Boom across openings to protect quality sensitive amphibian and fish habitat. Set 400 ft. across main opening, 200 ft. for each other opening.			
Site Access			
Openings to Wise Lake backwaters at RM 562.6, RM 562.9, and RM 563.1. Reach from Galena Ferry Landing, 4 mi. upstream on LDB.			
Latitude: 42.340651 UTM Zone 16: 4693274.05		Longitude: -90.422309 UTM Zone 16: 218073.43	



Main opening



Upstream opening

GOAL: Collect spilled product along shore for collection by barge

Site Number	Waterbody, River Mile	Site Name	
562b	Mississippi River 562.2	Island No. 241	
Strategy Type*	Boom Length	Land Access	Boat Access
Div.	1000+	N	N
Strategy Implementation (Go to aerial view)			
Set J-hook booms to contain spilled product in sand for dredging, or set boom to deflect product from main channel toward Bellevue Slough for collection. Note turtle nesting areas on upper and lower ends of island May to July.			
Site Access			
Upper end of Island No. 241. Reach from Galena Ferry Landing, 4.3 mi. upstream on LDB.			
Latitude: 42.335414 UTM Zone 16: 4692700.52		Longitude: -90.424733 UTM Zone 16: 217850.28	



Looking upstream on shore of Island No. 241



Looking downstream on shore of Island No. 241

GOAL: Prevent spilled product from spreading into Wise Lake backwaters

Site Number	Waterbody, River Mile	Site Name	
560	Mississippi River 560.8	Wise Lake	
Strategy Type*	Boom Length	Land Access	Boat Access
Exc.	600	N	N
Strategy Implementation (Go to aerial view)			
Set J-hook boom on upstream island to keep spilled product in main channel and away from backwater.			
Site Access			
Side channel opening to Wise Lake. Reach from Spruce Creek boat ramp, 1.2 mi. downstream on RDB. Pier at base of Chestnut Mountain can be reached from S River Rd. to deliver equipment.			
Latitude: 42.316794 UTM Zone 16: 4690589.14		Longitude: -90.411587 UTM Zone 16: 218850.41	



Looking northwest from opening toward main channel



Looking southeast across Wise Lake outlet toward shore

GOAL: Prevent spilled product from flowing back into creek during high water conditions

Site Number	Waterbody, River Mile	Site Name	
559a	Mississippi River 559.6 RDB	Spruce Creek	
Strategy Type*	Boom Length	Land Access	Boat Access
Exc.	0	Y	Y
Strategy Implementation (Go to aerial view)			
Boom across mouth of creek to prevent spilled product from entering creek. Significant inflow during high water, set boom at bridge. Anchor boom on both shores.			
Site Access			
Two miles north of Bellevue on US Hwy 52 and then 1 mile north on 396th Ave. Both banks of creek can be reached from campsite road. Decent staging on site.			
Latitude: 42.302655 UTM Zone 16: 4689091.42		Longitude: -90.433428 UTM Zone 16: 216986.88	



Creek mouth seen from river; high water floods camping area at right.



View of creek mouth from flooded camping area

GOAL: Collect spilled product to protect sensitive downstream resources

Site Number	Waterbody, River Mile	Site Name	
559b	Mississippi River 559.5 RDB	Spruce Creek Harbor	
Strategy Type*	Boom Length	Land Access	Boat Access
C&C	1000	Y	Y
Strategy Implementation (Go to aerial view)			
Contain spill deflected into Bellevue Slough at mouth of marina harbor. Cascade boom from channel to shore. Collect from shore with vac truck. Harbor has wooden retaining wall.			
Site Access			
Two miles north of Bellevue on US Hwy 52 and then 1 mile north on 396th Ave., east on 308th St. to ramp at river. Good staging on site. Easy access from parking lot to harbor mouth.			
Latitude: 42.301012 UTM Zone 16: 4688908.06		Longitude: -90.43317 UTM Zone 16: 217000.81	



Public ramp, looking east



Looking northeast at harbor mouth and main channel

GOAL: Exclude spilled product from inlet to protect mussel sanctuary downstream

Site Number	Waterbody, River Mile	Site Name	
559c	Mississippi River 559.5	Yonkers Lake Inlet	
Strategy Type*	Boom Length	Land Access	Boat Access
Exc.	600	N	N
Strategy Implementation (Go to aerial view)			
Cascade boom to deflect spilled product away from backwater entry. Anchor to upper island. Protect mussel sanctuary in lower Pool 12.			
Site Access			
Side channel across main channel from Spruce Creek Harbor. Access from marina or Blandings Landing Rec Area, 1.5 mi. downstream on LDB. Stump field in area, approach with caution.			
Latitude: 42.301428 UTM Zone 16: 4688901.7		Longitude: -90.417346 UTM Zone 16: 218307.14	



Looking south into inlet



Looking north from within inlet, shore anchor points on either side

GOAL: Collect product spilled from railroad tracks to protect downstream mussel sanctuary

Site Number	Waterbody, River Mile	Site Name	
558b	Mississippi River 558.2 LDB	Blanding's Landing	
Strategy Type*	Boom Length	Land Access	Boat Access
C&C	1000	Y	Y
Strategy Implementation (Go to aerial view)			
Good staging and access to lower Pool 12. Alternately, possible site for containment and collection of spill from railroad tracks on LDB to protect mussel sanctuary immediately downstream.			
Site Access			
5720 S River Rd., Hanover, IL 61041. From Hanover, Go west 6 mi. on Blanding Rd. to Blanding, then northwest to end of River Rd. Shore area from landing to dam off limits, hazard area.			
Latitude: 42.285694 UTM Zone 16: 4687108.29		Longitude: -90.403407 UTM Zone 16: 219386.39	



Photo credit: Panoramio user Nocknock

GOAL: Prevent spilled product from spreading into sensitive backwater habitat

Site Number	Waterbody, River Mile	Site Name	
558c	Mississippi River 558.8	558c	
Strategy Type*	Boom Length	Land Access	Boat Access
Exc.	200	N	N
Strategy Implementation (Go to aerial view)			
Low water levels during normal flow, easy to exclude. Set boom across opening to keep spill from spreading into Yonkers Lake.			
Site Access			
Backwater opening across from Baymont Inn hotel. Reach by boat from Spruce Creek ramp, 1 mi. upstream on RDB. Stump field in area, approach with caution.			
Latitude: 42.289278 UTM Zone 16: 4687572.88		Longitude: -90.4235 UTM Zone 16: 217745.51	



Looking south into inlet



Looking northeast at shore above opening

GOAL: Contain and collect spilled product before it reaches Lock and Dam 12

Site Number	Waterbody, River Mile	Site Name	
557	Mississippi River 557.4 RDB	LDM 12 Daybeacon	
Strategy Type*	Boom Length	Land Access	Boat Access
C&C	1000	Y	Y
Strategy Implementation (Go to aerial view)			
Contain spilled product at ramp for collection by vac truck. Cascade from channel to shore to prevent product from reaching Lock and Dam 12. Daybeacon dolphin may be useful in certain conditions.			
Site Access			
Small access turnoff from US Hwy 52, 600 ft. north of Motte St. in Bellevue.			
Latitude: 42.270972 UTM Zone 16: 4685554.61		Longitude: -90.427931 UTM Zone 16: 217298.2	



Looking upstream past daybeacon



Small access track off US Hwy 52

GOAL: Prevent spilled product from passing over Dam 12 spillway into Pool 13

Site Number	Waterbody, River Mile	Site Name	
556a	Mississippi River 556.8 LDB	Lock and Dam 12 Spillway	
Strategy Type*	Boom Length	Land Access	Boat Access
Exc.	400	N	N
Strategy Implementation (Go to aerial view)			
In low to normal flow, use sausage boom to keep spilled product from passing over the spillway and into Crooked Slough, an important habitat area. In high flow, containment must happen below dam in slough.			
Site Access			
Lock and Dam 12 spillway, roughly halfway across the width of the dam. Land access from IL side via USACE road on dam. Contact Lockmaster at (563) 872-3314.			
Latitude: 42.266089 UTM Zone 16: 4684942.12		Longitude: -90.406722 UTM Zone 16: 219025.83	



Looking downstream over spillway



Closer view of notch, overtopped in high water

GOAL: Contain and collect spilled product before it reaches Lock and Dam 12

Site Number	Waterbody, River Mile	Site Name	
556c	Mississippi River 573.9 RDB	Bellevue	
Strategy Type*	Boom Length	Land Access	Boat Access
C&C	1000	Y	N
Strategy Implementation (Go to aerial view)			
Last opportunity to collect before spilled product passes over dam. Cascade boom to contain spilled product along shore, collect with vac truck. Staging across US Hwy 52 at business parking lots.			
Site Access			
Shore can be reached on dirt tracks from US Hwy 52 at High St. and 300 ft. north of High St. Riverview Park shoreline reached on foot only. Alternately, shoreline in Bellevue along Lock and Dam 12 lock wall. Contact Lockmaster (563) 872-3314 for access.			
Latitude: 42.266452 UTM Zone 16: 4685045.9		Longitude: -90.425903 UTM Zone 16: 217445.32	



Google Street View of second track, at right across from parking lot entrance



Looking upstream past end of lock wall