Appendix G

Shorelines

High-Risk	Response Actions and Activ	vities in SHORELINES	3
Beach and Sand	Associated Vulnerable H Bar, Mudflats, Rooted Floating		leadow
	Deflection and Containmen		
Species	Specific Activity	States of Occurrence	BMPs ¹
May affect, like	y to adversely affect - discuss p	possible BMPs with Sei	rvices
Dwarf Lake Iris (Reference Description Page/Link)	Dikes or berms	MI, WI	
Pitcher's Thistle	Dikes or berms	IL, IN, MI, WI	
May affect, not likely to	adversely affect due to implem	entation of BMPs to mi	nimize impact
Dwarf Lake Iris	Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	IL, IN, MI, WI	
Fassett's Locoweed	Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	WI	
Hall's Bulrush	Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	IL, IN, MI, OH, WI	
Houghton's Goldenrod	Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	MI	
Pitcher's Thistle	Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	IL, IN, MI, WI	
Alligator Snapping Turtle	Booming Dikes or berms	IL, IN	
Blanding's Turtle	Booming Dikes or berms	IL, IN, MI, OH, WI	
Piping Plover Critical Habitat	Booming Dikes or berms	IL, IN, MI, OH, WI	
May affect, not like	ly to adversely affect due to ins	ignificant or discountab	le effects
Rufa Red Knot	Booming Dikes or berms	IL, IN, MI, OH, WI	
	Recovery Activitie	s	
Species	Specific Activity	States of Occurrence	BMPs
May affect, not likely to	adversely affect due to implement	entation of BMPs to mi	nimize impact
Dwarf Lake Iris	Vacuuming Sorbents	IL, IN, MI, WI	
Fassett's Locoweed	Vacuuming Sorbents	WI	
Hall's Bulrush	Skimming Vacuuming Sorbents	IL, IN, MI, OH, WI	
Houghton's Goldenrod	Skimming Vacuuming Sorbents	МІ	
Pitcher's Thistle	Vacuuming Sorbents	IL, IN, MI, WI	
Alligator Snapping Turtle	Skimming	IL, IN	

	Vacuuming		
	Sorbents		
Blanding's Turtle	Skimming Vacuuming Sorbents	IL, IN, MI, OH, WI	
Piping Plover Critical Habitat	Skimming Vacuuming Sorbents	IL, IN, MI, OH, WI	
May affect not lik	ely to adversely affect due to ins	ignificant or discountable	e effects
Rufa Red Knot	Skimming	IL, IN, MI, OH, WI	USFWS Contact
	Vacuuming		
	Removal/Cleanup Acti		
Species	Specific Activity	States of Occurrence	BMPs ¹
May affect, not likely t	o adversely affect due to implem	entation of BMPs to min	imize impact
Dwarf Lake Iris	Flooding Flushing Steam cleaning Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning	IL, IN, MI, WI	
Fassett's Locoweed	Flushing Steam cleaning Sandblasting Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning	WI	
Hall's Bulrush	Flooding Flushing Steam cleaning Sandblasting Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning	IL, IN, MI, OH, WI	
Houghton's Goldenrod	Flooding Flushing Steam cleaning Sandblasting Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning	MI	
Pitcher's Thistle	Flooding Flushing Steam cleaning Sandblasting Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning	IL, IN, MI, WI	
Alligator Snapping Turtle	Steam cleaning Sandblasting Mechanical sand cleaning (<1 inch and >1 inch)	IL, IN	
Blanding's Turtle	Steam cleaning Sandblasting Mechanical sand cleaning (<1 inch and >1 inch)	IL, IN, MI, OH, WI	
Piping Plover Critical Habitat	Flooding Flushing Steam cleaning Sandblasting Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning	IL, IN, MI, OH, WI	
Rufa Red Knot	Flooding Flushing Steam cleaning Sandblasting	IL, IN, MI, OH, WI	

	Mechanical sand cleaning (<1 inch and >1 inch)		
	Manual removal/cleaning		
	ely to adversely affect due to insi	-	ole effects
Fassett's Locoweed	Flooding Flooding	WI	
Alligator Snapping Turtle	Flushing	IL, IN	
Blanding's Turtle	Flooding Flushing	IL, IN, MI, OH, WI	
	Submerged Oil Activi	ties	
Species	Specific Activity	States of Occurrence	BMPs ¹
May affect, not likely t	o adversely affect due to impleme	entation of BMPs to mi	nimize impact
Hall's Bulrush	Recovery of non- floating/submerged oil Containment of non- floating/submerged oil	IL, IN, MI, OH, WI	
Houghton's Goldenrod	Recovery of non- floating/submerged oil Containment of non- floating/submerged oil	MI	
May affect, not lik	ely to adversely affect due to insi	gnificant or discountab	ole effects
Hall's Bulrush	Detection of non- floating/submerged oil	IL, IN, MI, OH, WI	
Houghton's Goldenrod	Detection of non- floating/submerged oil	MI	
	Wildlife Protection Act	vities	
Species	Specific Activity	States of Occurrence	BMPs ¹
May affect, not likely t	o adversely affect due to impleme	entation of BMPs to mi	nimize impact
Alligator Snapping Turtle	Capture and care of contaminated species	IL, IN	
Blanding's Turtle	Capture and care of contaminated species	IL, IN, MI, OH, WI	
Piping Plover Critical Habitat	Deterrence and hazing Capture and care of contaminated species	IL, IN, MI, OH, WI	
Rufa Red Knot	Deterrence and hazing Capture and care of contaminated species	IL, IN, MI, OH, WI	
May affect, not lik	ely to adversely affect due to insi	gnificant or discountab	ole effects
Fassett's Locoweed	Deterrence and hazing Capture and care of contaminated species	WI	
Hall's Bulrush	Deterrence and hazing Capture and care of contaminated species	IL, IN, MI, OH, WI	
Houghton's Goldenrod	Deterrence and hazing Capture and care of contaminated species	MI	
Pitcher's Thistle	Deterrence and hazing Capture and care of contaminated species	IL, IN, MI, WI	
Alligator Snapping Turtle	Deterrence and hazing	IL, IN	
Blanding's Turtle	Deterrence and hazing	IL, IN, MI, OH, WI	
	Locating, Tracking, and Supp		
Species	Specific Activity	States of Occurrence	BMPs ¹
	o adversely affect due to impleme		

		T	l
	Use of		
	machinery/supporting equipment		
	Creation/use of new		
	access points		
	Creation/use of staging		
	areas (on land)		
	Access of personnel by		
	foot traffic		
	Use of vehicles		
	Use of		
	machinery/supporting		
	equipment		
Fassett's Locoweed	Creation/use of new	WI	
	access points		
	Creation/use of staging		
	areas (on land)		
	Access of personnel by		
	foot traffic		
	Use of vehicles		
	Use of machinery/supporting		
	equipment		
	Creation/use of new		
Hall's Bulrush	access points	IL, IN, MI, OH, WI	
	Creation/use of staging		
	areas (on land)		
	Access of personnel by		
	foot traffic		
	Use of vehicles		
	Use of		
	machinery/supporting		
	equipment		
Houghton's Goldenrod	Creation/use of new	MI	
	access points		
	Creation/use of staging		
	areas (on land)		
	Access of personnel by		
	foot traffic Use of vehicles		
	Use of		
	machinery/supporting		
	equipment		
	Creation/use of new		
Pitcher's Thistle	access points	IL, IN, MI, WI	
	Creation/use of staging		
	areas (on land)		
	Access of personnel by		
	foot traffic		
	Use of vessels		
	Use of vehicles		
	Use of		
	machinery/supporting		
Alliantes Openning Toutle	equipment	11 161	
Alligator Snapping Turtle	Creation/use of new	IL, IN	
	access points Creation/use of staging		
	areas (on land)		
	Access of personnel by		
	foot traffic		
	Use of vessels		
	Use of vehicles		
	Use of		
	machinery/supporting		
Blanding's Turtle	equipment	IL, IN, MI, OH, WI	
	Creation/use of new		
	access points		
	Creation/use of staging		
	areas (on land)	1	1

		1	1
	Access of personnel by foot traffic		
	Use of aircraft		
	Use of vehicles		
	Use of		
	machinery/supporting		
Distan Distan	equipment		
Piping Plover	Creation/use of new	IL, IN, MI, OH, WI	
Critical Habitat	access points	, , , - ,	
	Creation/use of staging		
	areas (on land)		
	Deployment of buoys		
	Access of personnel by		
	foot traffic		
	Use of aircraft		
	Use of vehicles		
	Use of		
	machinery/supporting		
Rufa Red Knot	equipment	IL, IN, MI, OH, WI	
Rula Red Ribl	Creation/use of new		
	access points		
	Creation/use of staging		
	areas (on land)		
	Deployment of buoys		
May affect, not likel	y to adversely affect due to ins	ignificant or discounta	ble effects
Alligator Snapping Turtle	Use of aircraft	IL, IN	
Blanding's Turtle	Use of aircraft	IL, IN, MI, OH, WI	
	Access of personnel by		
Rufa Red Knot	foot traffic	IL, IN, MI, OH, WI	
Spec	ial considerations needed, higl	n level of concern	•
	Natural attenuation		
	Locating, sampling, and		
Dwarf Lake Iris	monitoring air, land, and	IL, IN, MI, WI	
	water		
	Natural attenuation		
Fassett's Locoweed	Locating, sampling, and	WI	
	monitoring air, land, and		
	water, and water		
	Natural attenuation		
Hall's Bulrush	Locating, sampling, and	IL, IN, MI, OH, WI	
	monitoring air, land, and		
	water		
	Natural attenuation		
Houghton's Goldenrod	Locating, sampling, and	МІ	
Houghton's Goldenrod	Locating, sampling, and monitoring air, land, and	MI	
Houghton's Goldenrod	Locating, sampling, and monitoring air, land, and water	MI	
Houghton's Goldenrod	Locating, sampling, and monitoring air, land, and water Natural attenuation	MI	
	Locating, sampling, and monitoring air, land, and water Natural attenuation Locating, sampling, and		
Houghton's Goldenrod Pitcher's Thistle	Locating, sampling, and monitoring air, land, and water Natural attenuation	MI IL, IN, MI, WI	
	Locating, sampling, and monitoring air, land, and water Natural attenuation Locating, sampling, and monitoring air, land, and water		
	Locating, sampling, and monitoring air, land, and water Natural attenuation Locating, sampling, and monitoring air, land, and		
Pitcher's Thistle	Locating, sampling, and monitoring air, land, and water Natural attenuation Locating, sampling, and monitoring air, land, and water Natural attenuation	IL, IN, MI, WI	
	Locating, sampling, and monitoring air, land, and water Natural attenuation Locating, sampling, and monitoring air, land, and water Natural attenuation Locating, sampling, and		
Pitcher's Thistle	Locating, sampling, and monitoring air, land, and water Natural attenuation Locating, sampling, and monitoring air, land, and water Natural attenuation	IL, IN, MI, WI	
Pitcher's Thistle	Locating, sampling, and monitoring air, land, and water Natural attenuation Locating, sampling, and monitoring air, land, and water Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, IN, MI, WI	
Pitcher's Thistle Alligator Snapping Turtle	Locating, sampling, and monitoring air, land, and water Natural attenuation Locating, sampling, and monitoring air, land, and water Natural attenuation Locating, sampling, and monitoring air, land, and water Natural attenuation	IL, IN, MI, WI IL, IN	
Pitcher's Thistle	Locating, sampling, and monitoring air, land, and water Natural attenuation Locating, sampling, and monitoring air, land, and water Natural attenuation Locating, sampling, and monitoring air, land, and water Natural attenuation Locating, sampling, and	IL, IN, MI, WI	
Pitcher's Thistle Alligator Snapping Turtle	Locating, sampling, and monitoring air, land, and water Natural attenuation Locating, sampling, and monitoring air, land, and water Natural attenuation Locating, sampling, and monitoring air, land, and water Natural attenuation Locating, sampling, and monitoring air, land, and	IL, IN, MI, WI IL, IN	
Pitcher's Thistle Alligator Snapping Turtle	Locating, sampling, and monitoring air, land, and water Natural attenuation Locating, sampling, and monitoring air, land, and water Natural attenuation Locating, sampling, and monitoring air, land, and water Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, IN, MI, WI IL, IN	
Pitcher's Thistle Alligator Snapping Turtle Blanding's Turtle	Locating, sampling, and monitoring air, land, and water Natural attenuation Locating, sampling, and monitoring air, land, and water Natural attenuation Locating, sampling, and monitoring air, land, and water Natural attenuation Locating, sampling, and monitoring air, land, and water Natural attenuation	IL, IN, MI, WI IL, IN	
Pitcher's Thistle Alligator Snapping Turtle Blanding's Turtle Piping Plover	Locating, sampling, and monitoring air, land, and water Natural attenuation Locating, sampling, and monitoring, sampling, and	IL, IN, MI, WI IL, IN	
Pitcher's Thistle Alligator Snapping Turtle Blanding's Turtle	Locating, sampling, and monitoring air, land, and water Natural attenuation Locating, sampling, and monitoring air, land, and	IL, IN, MI, WI IL, IN IL, IN, MI, OH, WI	
Pitcher's Thistle Alligator Snapping Turtle Blanding's Turtle Piping Plover	Locating, sampling, and monitoring air, land, and water Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, IN, MI, WI IL, IN IL, IN, MI, OH, WI	
Pitcher's Thistle Alligator Snapping Turtle Blanding's Turtle Piping Plover	Locating, sampling, and monitoring air, land, and water Natural attenuation Locating, sampling, and monitoring air, land, and water Natural attenuation	IL, IN, MI, WI IL, IN IL, IN, MI, OH, WI	
Pitcher's Thistle Alligator Snapping Turtle Blanding's Turtle Piping Plover <i>Critical Habitat</i>	Locating, sampling, and monitoring air, land, and water Natural attenuation Locating, sampling, and monitoring attenuation Locating, sampling, and	IL, IN, MI, WI IL, IN IL, IN, MI, OH, WI IL, IN, MI, OH, WI	
Pitcher's Thistle Alligator Snapping Turtle Blanding's Turtle Piping Plover	Locating, sampling, and monitoring air, land, and water Natural attenuation Locating, sampling, and monitoring air, land, and water Natural attenuation	IL, IN, MI, WI IL, IN IL, IN, MI, OH, WI	

Waste Management Activities			
Species	Specific Activity	States of Occurrence	BMPs ¹
May affect, not likely to	adversely affect due to implem	entation of BMPs to min	imize impact
Dwarf Lake Iris	Waste handling Temporary storage (on water) Temporary storage (on land) Decontamination	IL, IN, MI, WI	
Eastern Prairie Fringed Orchid	Temporary storage (on land)	IL, IN, MI, OH, WI	
Fassett's Locoweed	Waste handling Temporary storage (on land) Decontamination	WI	
Hall's Bulrush	Waste handling Temporary storage (on land) Decontamination	IL, IN, MI, OH, WI	
Houghton's Goldenrod	Waste handling Temporary storage (on land) Decontamination	MI	
Michigan Monkey Flower	Temporary storage (on land)	MI	
Minnesota Dwarf Trout Lily	Temporary storage (on land)	MN	
Northern Wild Monkshood	Temporary storage (on land)	OH, WI	
Pitcher's Thistle	Temporary storage (on land) Decontamination	IL, IN, MI, WI	
Alligator Snapping Turtle	Temporary storage (on water) Temporary storage (on land) Decontamination	IL, IN	
Blanding's Turtle	Temporary storage (on land) Decontamination	IL, IN, MI, OH, WI	
Piping Plover Critical Habitat	Temporary storage (on water) Temporary storage (on land) Decontamination	IL, IN, MI, OH, WI	
Rufa Red Knot	Temporary storage (on water) Temporary storage (on land) Decontamination	IL, IN, MI, OH, WI	
May affect, not like	ly to adversely affect due to ins	ignificant or discountable	e effects
Hall's Bulrush	Temporary storage (on water)	IL, IN, MI, OH, WI	
Houghton's Goldenrod	Temporary storage (on water)	MI	
Pitcher's Thistle	Waste handling	IL, IN, MI, WI	
Alligator Snapping Turtle Blanding's Turtle	Waste handling Waste handling Temporary storage (on	IL, IN IL, IN, MI, OH, WI	
Piping Plover Critical Habitat	water) Waste handling	IL, IN, MI, OH, WI	
Rufa Red Knot	Waste handling	IL, IN, MI, OH, WI	

Ports, Canals, Industrial Areas

Associated Vulnerable Habitats: Beach and Sand Bar, Mudflats, Rooted Floating Aquatics, Open Water, and Submersed Vegetation			
	Deflection and Containme	nt Activities	
Species	Specific Activity	States of Occurrence	BMPs ¹
May affect, likely	to adversely affect - discuss	s possible BMPs with Service	es
orthern Riffleshell (Reference	Booming	IL, IN, MI, OH	
Description Page/Link)	•		
Orangefoot Pimpleback	Booming		
Pyramid (Pink) Pigtoe Rough Pigtoe	Booming Booming	OH IN	
Scaleshell	Booming		
Winged Mapleleaf	Booming	MN, WI	
	adversely affect due to implei		ize impact
Clubshell	Booming	IL, IN, MI, OH	
Fanshell	Booming	IL, IN, OH	
Fat Pocketbook	Booming	IL, IN	
Higgins' Eye Pearlymussel	Booming	IL, MN, WI	
Longsolid	Booming	IL, IN, OH	
Pink Mucket	Booming	IL, IN, OH	
Rabbitsfoot Critical Habitat	Booming	IL, IN, OH	
Rayed Bean	Booming	IN, MI, OH	
Round Hickorynut	Booming	IL, IN, MI, OH	
Salamander Mussel	Booming	IL, IN, MI, MN, OH, WI	
Sheepnose	Booming	IL, IN, MN, OH, WI	
Snuffbox	Booming	IL, IN, MI, OH, WI	
Spectaclecase	Booming	IL, MN, WI	
Lake Sturgeon	Booming	IL, IN, MI, MN, OH, WI	
Pallid Sturgeon	Booming	IL	
Sicklefin Chub	Booming	IL	
Sturgeon Chub	Booming	IL	
Alligator Snapping Turtle	Booming	IL, IN	
	Recovery Activit	ies	
Species		States of	BMPs
•	Specific Activity	Occurrence	-
May affect, likely	to adversely affect - discuss	s possible BMPs with Service	es
	Skimming		
Northern Riffleshell	Vacuuming Sorbents	IL, IN, MI, OH	
	Skimming		
Orangefoot Pimpleback	Vacuuming	IL	
	Sorbents		
Pyramid (Pink) Pigtoe	Skimming Vacuuming	ОН	
Fylaniiu (Fink) Figioe	Sorbents	OH	
	Skimming		
Rough Pigtoe	Vacuuming	IN	
	Sorbents		
	Skimming		
Scaleshell	Vacuuming	IL	
	Sorbents		
Winged Mapleleaf	Skimming Vacuuming	MN, WI	
winged mapicical	Sorbents	11111, 111	
	adversely affect due to implei		

	Vacuuming		
	Sorbents		
Fanshell	Skimming Vacuuming Sorbents	IL, IN, OH	
Fat Pocketbook	Skimming Vacuuming Sorbents	IL, IN	
Higgins' Eye Pearlymussel	Skimming Vacuuming Sorbents	IL, MN, WI	
Longsolid	Skimming Vacuuming Sorbents	IL, IN, OH	
Pink Mucket	Skimming Vacuuming Sorbents	IL, IN, OH	
Rabbitsfoot Critical Habitat	Skimming Vacuuming Sorbents	IL, IN, OH	
Rayed Bean	Skimming Vacuuming Sorbents	IN, MI, OH	
Round Hickorynut	Skimming Vacuuming Sorbents	IL, IN, MI, OH	
Salamander Mussel	Skimming Vacuuming Sorbents	IL, IN, MI, MN, OH, WI	
Sheepnose	Skimming Vacuuming Sorbents	IL, IN, MN, OH, WI	
Snuffbox	Skimming Vacuuming Sorbents	IL, IN, MI, OH, WI	
Spectaclecase	Skimming Vacuuming Sorbents	IL, MN, WI	
Lake Sturgeon	Skimming Vacuuming	IL, IN, MI, MN, OH, WI	
Pallid Sturgeon	Skimming Vacuuming	IL	
Sicklefin Chub	Skimming Vacuuming	IL	
Sturgeon Chub	Skimming Vacuuming	IL	
Alligator Snapping Turtle	Skimming Vacuuming Sorbents	IL, IN	
	Removal/Cleanup Acti	vities	
Species	Specific Activity	States of Occurrence	BMPs ¹
May affect, likely	y to adversely affect - discuss p	possible BMPs with Se	ervices
Northern Riffleshell	Flushing Steam cleaning Sandblasting Manual removal/cleaning of oil	IL, IN, MI, OH	
Orangefoot Pimpleback	Flushing Steam cleaning Sandblasting Manual removal/cleaning of oil	IL	
Pyramid (Pink) Pigtoe	Flushing Steam cleaning Sandblasting	ОН	

	Manual romeval/alassis	1	1
	Manual removal/cleaning of oil		
Rough Pigtoe	Flushing Steam cleaning Sandblasting Manual removal/cleaning of oil	IN	
Scaleshell	Flushing Steam cleaning Sandblasting Manual removal/cleaning of oil	IL	
Winged Mapleleaf	Flushing Steam cleaning Sandblasting Manual removal/cleaning of oil	MN, WI	
May affect, not likely to	adversely affect due to impleme	entation of BMPs to m	inimize impact
Clubshell	Flushing Steam cleaning Sandblasting Manual removal/cleaning of oil	IL, IN, MI, OH	
Fanshell	Flushing Steam cleaning Sandblasting Manual removal/cleaning of oil	IL, IN, OH	
Fat Pocketbook	Flushing Steam cleaning Sandblasting Manual removal/cleaning of oil	IL, IN	
Higgins' Eye Pearlymussel	Flushing Steam cleaning Sandblasting Manual removal/cleaning of oil	IL, MN, WI	
Longsolid	Flushing Steam cleaning Sandblasting Manual removal/cleaning of oil	IL, IN, OH	
Pink Mucket	Flushing Steam cleaning Sandblasting Manual removal/cleaning of oil	IL, IN, OH	
Rabbitsfoot Critical Habitat	Flushing Steam cleaning Sandblasting Manual removal/cleaning of oil	IL, IN, OH	
Rayed Bean	Flushing Steam cleaning Sandblasting Manual removal/cleaning of oil	IN, MI, OH	
Round Hickorynut	Flushing Steam cleaning Sandblasting Manual removal/cleaning of oil	il, in, mi, oh	
Salamander Mussel	Flushing Steam cleaning Sandblasting Manual removal/cleaning of oil	IL, IN, MI, MN, OH, WI	

Sheepnose	Flushing Steam cleaning Sandblasting Manual removal/cleaning of oil	IL, IN, MN, OH, WI	
Snuffbox	Flushing Steam cleaning Sandblasting Manual removal/cleaning of oil	IL, IN, MI, OH, WI	
Spectaclecase	Flushing Steam cleaning Sandblasting Manual removal/cleaning of oil	IL, MN, WI	
Lake Sturgeon	Flushing Steam cleaning Sandblasting	IL, IN, MI, MN, OH, WI	
Pallid Sturgeon	Flushing Steam cleaning Sandblasting	IL	
Sicklefin Chub	Flushing Steam cleaning Sandblasting	IL	
Sturgeon Chub	Flushing Steam cleaning Sandblasting	IL	
Alligator Snapping Turtle	Steam cleaning Sandblasting Manual removal/cleaning of oil	IL, IN	
May affect, not likel	y to adversely affect due to insi	gnificant or discountat	ole effects
Alligator Snapping Turtle	Flushing	IL, IN	
	Submerged Oil Activi	ities	
Species	Specific Activity	States of Occurrence	BMPs ¹
May affect, likely	y to adversely affect - discuss p	oossible BMPs with Se	rvices
Northean Difference	Detection of non- floating/submerged oil		
Northern Riffleshell	Recovery of non- floating/submerged oil Containment of non- floating/submerged oil	IL, IN, MI, OH	
Northern Riffleshell Orangefoot Pimpleback	floating/submerged oil Containment of non- floating/submerged oil Detection of non- floating/submerged oil Recovery of non- floating/submerged oil Containment of non- floating/submerged oil	IL, IN, MI, OH	
	floating/submerged oil Containment of non- floating/submerged oil Detection of non- floating/submerged oil Recovery of non- floating/submerged oil Containment of non- floating/submerged oil Recovery of non- floating/submerged oil Containment of non- floating/submerged oil		
Orangefoot Pimpleback	floating/submerged oil Containment of non- floating/submerged oil Detection of non- floating/submerged oil Recovery of non- floating/submerged oil Containment of non- floating/submerged oil Recovery of non- floating/submerged oil Recovery of non- floating/submerged oil Containment of non-	IL	

	Detection of non-		
	floating/submerged oil		
Winged Mapleleaf	Recovery of non-	MN, WI	
	floating/submerged oil	,	
	Containment of non-		
	floating/submerged oil		
May affect, not likely to	adversely affect due to implem	entation of BMPs to m	inimize impact
	Detection of non-		
	floating/submerged oil		
Clubshell	Recovery of non-	IL, IN, MI, OH	
	floating/submerged oil		
	Containment of non-		
	floating/submerged oil		
	Detection of non-		
	floating/submerged oil		
Fanshell	Recovery of non-	IL, IN, OH	
	floating/submerged oil Containment of non-		
	floating/submerged oil Detection of non-		
	floating/submerged oil		
	Recovery of non-		
Fat Pocketbook	floating/submerged oil	IL, IN	
	Containment of non-		
	floating/submerged oil		
	Detection of non-		
	floating/submerged oil		
	Recovery of non-		
Higgins' Eye Pearlymussel	floating/submerged oil	IL, MN, WI	
	Containment of non-		
	floating/submerged oil		
	Detection of non-		
	floating/submerged oil		
Longsolid	Recovery of non-	IL, IN, OH	
Longoona	floating/submerged oil	12, 114, 011	
	Containment of non-		
	floating/submerged oil		
	Detection of non-		
	floating/submerged oil		
Pink Mucket	Recovery of non- floating/submerged oil	IL, IN, OH	
	Containment of non-		
	floating/submerged oil		
	Detection of non-		
	floating/submerged oil		
Rabbitsfoot	Recovery of non-		
Critical Habitat	floating/submerged oil	IL, IN, OH	
	Containment of non-		
	floating/submerged oil		
	Detection of non-		
	floating/submerged oil		
Rayed Bean	Recovery of non-	IN, MI, OH	
	floating/submerged oil	,,	
	Containment of non-		
	floating/submerged oil		
	Detection of non-		
	floating/submerged oil		
Round Hickorynut	Recovery of non- floating/submerged oil	IL, IN, MI, OH	
-	Containment of non-		
	floating/submerged oil		
	Detection of non-		
	floating/submerged oil		
	Recovery of non-	IL, IN, MI, MN,	
Salamander Mussel	floating/submerged oil	OH, WI	
	Containment of non-		
	floating/submerged oil		
Sheepnose	Detection of non-	IL, IN, MN, OH,	
Oncopilose	floating/submerged oil	WI	

Northern Riffleshell	Deployment of buoys	IL, IN, MI, OH	
-	ly to adversely affect - discuss	Occurrence	-
Species	Specific Activity	States of	BMPs ¹
	Locating, Tracking, and Supp	••	
Alligator Snapping Turtle	ly to adversely affect due to ins Deterrence and hazing	Ignificant of discountable	CHECIS
0 11 0	contaminated species	, ,	offects
Alligator Snapping Turtle	Capture and care of	IL, IN	
Sicklefin Chub Sturgeon Chub	Deterrence and hazing Deterrence and hazing		
Pallid Sturgeon	Deterrence and hazing	IL IL	
Lake Sturgeon	Deterrence and hazing	OH, WI	
	adversely affect due to implem	entation of BMPs to minir IL, IN, MI, MN,	nize impact
Species	Specific Activity	States of Occurrence	BMPs ¹
	Wildlife Protection Act	ivities	
	floating/submerged oil		
, ingutor onapping runto	floating/submerged oil Containment of non-		
Alligator Snapping Turtle	Recovery of non-	IL, IN	
	floating/submerged oil		
	floating/submerged oil Detection of non-		
	Containment of non-		
Sturgeon Chub	Recovery of non- floating/submerged oil	IL	
	floating/submerged oil		
	Detection of non-		
	Containment of non- floating/submerged oil		
Sicklefin Chub	floating/submerged oil	IL	
Sieklefin Chub	Recovery of non-		
	Detection of non- floating/submerged oil		
	floating/submerged oil		
	Containment of non-		
Pallid Sturgeon	Recovery of non- floating/submerged oil	IL	
	floating/submerged oil		
	Detection of non-		
	Containment of non- floating/submerged oil		
Lake Stulyeon	floating/submerged oil	OH, WI	
Lake Sturgeon	Recovery of non-	IL, IN, MI, MN,	
	Detection of non- floating/submerged oil		
	floating/submerged oil		
	Containment of non-		
Spectaclecase	Recovery of non- floating/submerged oil	IL, MN, WI	
	floating/submerged oil		
	Detection of non-		
	Containment of non- floating/submerged oil		
Snuffbox	floating/submerged oil	IL, IN, MI, OH, WI	
Crewffhaw	Recovery of non-		
	Detection of non- floating/submerged oil		
	floating/submerged oil		
	Containment of non-	1	

0 () D:			1
Orangefoot Pimpleback	Deployment of buoys	IL	
Pyramid (Pink) Pigtoe	Deployment of buoys	OH IN	
Rough Pigtoe Scaleshell	Deployment of buoys Deployment of buoys		
Winged Mapleleaf	Deployment of buoys	MN, WI	
			inimize impeet
	adversely affect due to implem	1	
Clubshell	Deployment of buoys	IL, IN, MI, OH	
Fanshell	Deployment of buoys	IL, IN, OH	
Fat Pocketbook	Deployment of buoys	IL, IN	
Higgins' Eye Pearlymussel	Deployment of buoys	IL, MN, WI	
Longsolid	Deployment of buoys	IL, IN, OH	
Pink Mucket	Deployment of buoys	IL, IN, OH	
Rabbitsfoot Critical Habitat	Deployment of buoys	IL, IN, OH	
Rayed Bean	Deployment of buoys	IN, MI, OH	
Round Hickorynut	Deployment of buoys	IL, IN, MI, OH	
Salamander Mussel	Deployment of buoys	IL, IN, MI, MN, OH, WI	
Sheepnose	Deployment of buoys	IL, IN, MN, OH, WI	
Snuffbox	Deployment of buoys	IL, IN, MI, OH, WI	
Spectaclecase	Deployment of buoys	IL, MN, WI	
•	Use of vessels	IL, IN, MI, MN,	
Lake Sturgeon	Deployment of buoys	OH, WI	
Pallid Sturgeon	Use of vessels	IL	
	Deployment of buoys	12	
Sicklefin Chub	Use of vessels Deployment of buoys	IL	
Sturgeon Chub	Use of vessels	IL	
	Deployment of buoys Use of vessels		
Alligator Snapping Turtle	Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of staging areas (on land) Access of personnel by foot traffic	IL, IN	
Blanding's Turtle	Access of personnel by foot traffic	IL, IN, MI, OH, WI	
May affect, not like	ly to adversely affect due to ins	ignificant or discounta	ble effects
Alligator Snapping Turtle	Use of aircraft Deployment of buoys	IL, IN	
Spe	cial considerations needed, hig	h level of concern	
Clubshell	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, IN, MI, OH	
Fanshell	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, IN, OH	
Fat Pocketbook	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, IN	
Higgins' Eye Pearlymussel	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, MN, WI	
Longsolid	Natural attenuation	IL, IN, OH	

Locating, sampling, and monitoring air, land, and waterNorthern RiffleshellNatural attenuation Locating, sampling, and monitoring air, land, and waterIL, IN, MI, OHOrangefoot PimplebackNatural attenuation Locating, sampling, and monitoring air, land, and waterILPink MucketNatural attenuation Locating, sampling, and monitoring air, land, and waterILPink MucketNatural attenuation Locating, sampling, and monitoring air, land, and waterIL, IN, OHPink MucketNatural attenuation Locating, sampling, and monitoring air, land, and waterOHPyramid (Pink) PigtoeNatural attenuation Locating, sampling, and monitoring air, land, and waterOHRabbitsfoot Critical HabitatNatural attenuation Locating, sampling, and monitoring air, land, and waterOH				
Northern RiffleshellLocating, sampling, and monitoring air, land, and waterIL, IN, MI, OHOrangefoot PimplebackNatural attenuation Locating, sampling, and monitoring air, land, and waterILPink MucketNatural attenuation Locating, sampling, and monitoring air, land, and waterIL, IN, OHPink MucketNatural attenuation Locating, sampling, and monitoring air, land, and waterIL, IN, OHPink MucketNatural attenuation Locating, sampling, and monitoring air, land, and waterIL, IN, OHPyramid (Pink) PigtoeNatural attenuation Locating, sampling, and monitoring air, land, and waterOHRabbitsfoot Critical HabitatNatural attenuation Locating, sampling, and monitoring air, land, and waterOH			monitoring air, land, and water	
Orangefoot Pimpleback Locating, sampling, and monitoring air, land, and water IL Pink Mucket Natural attenuation Locating, sampling, and monitoring air, land, and water IL, IN, OH Pyramid (Pink) Pigtoe Natural attenuation Locating, sampling, and monitoring air, land, and water OH Rabbitsfoot Critical Habitat Natural attenuation Locating, sampling, and monitoring air, land, and water OH		IL, IN, MI, OH	Locating, sampling, and monitoring air, land, and water	Northern Riffleshell
Pink Mucket Locating, sampling, and monitoring air, land, and water IL, IN, OH Pyramid (Pink) Pigtoe Natural attenuation Locating, sampling, and monitoring air, land, and water OH Rabbitsfoot Critical Habitat Natural attenuation Locating, sampling, and monitoring air, land, and IL, IN, OH		IL	Locating, sampling, and monitoring air, land, and water	Orangefoot Pimpleback
Pyramid (Pink) Pigtoe Locating, sampling, and monitoring air, land, and water OH Rabbitsfoot Critical Habitat Natural attenuation Locating, sampling, and monitoring air, land, and IL, IN, OH		IL, IN, OH	Locating, sampling, and monitoring air, land, and	Pink Mucket
RabbitsfootLocating, sampling, and monitoring air, land, andIL, IN, OH		ОН	Locating, sampling, and monitoring air, land, and	Pyramid (Pink) Pigtoe
water		IL, IN, OH	Locating, sampling, and monitoring air, land, and	
Rayed Bean Natural attenuation Locating, sampling, and monitoring air, land, and water NAtural attenuation IN, MI, OH		IN, MI, OH	Locating, sampling, and monitoring air, land, and	Rayed Bean
Rough Pigtoe Natural attenuation Locating, sampling, and monitoring air, land, and water IN		IN	Locating, sampling, and monitoring air, land, and	Rough Pigtoe
Round Hickorynut Natural attenuation Locating, sampling, and monitoring air, land, and water IL, IN, MI, OH		IL, IN, MI, OH	Locating, sampling, and monitoring air, land, and	Round Hickorynut
Salamander Mussel Natural attenuation Locating, sampling, and IL, IN, MI, MN, monitoring air, land, and OH, WI water			Locating, sampling, and monitoring air, land, and	Salamander Mussel
Natural attenuation Locating, sampling, and Scaleshell IL monitoring air, land, and water		IL	Locating, sampling, and monitoring air, land, and water	Scaleshell
Sheepnose Natural attenuation Locating, sampling, and IL, IN, MN, OH, monitoring air, land, and WI water WI			Locating, sampling, and monitoring air, land, and	Sheepnose
Snuffbox Natural attenuation Locating, sampling, and monitoring air, land, and water IL, IN, MI, OH, WI		IL, IN, MI, OH, WI	Locating, sampling, and monitoring air, land, and	Snuffbox
Spectaclecase Natural attenuation Locating, sampling, and monitoring air, land, and water IL, MN, WI		IL, MN, WI	Locating, sampling, and monitoring air, land, and water	Spectaclecase
Winged Mapleleaf Natural attenuation Winged Mapleleaf MN, WI monitoring air, land, and water		MN, WI	Locating, sampling, and monitoring air, land, and	Winged Mapleleaf
Lake Sturgeon Natural attenuation Locating, sampling, and IL, IN, MI, MN, monitoring air, land, and OH, WI water			Locating, sampling, and monitoring air, land, and water	Lake Sturgeon
Pallid Sturgeon Locating, sampling, and IL		IL		Pallid Sturgeon
water		IL	Natural attenuation	Sicklefin Chub

Locating, sampling, and monitoring air, land, and water Natural attenuation		
Locating, sampling, and monitoring air, land, and water	IL	
Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, IN	
Waste Management Ac	tivities	
Specific Activity	States of Occurrence	BMPs ¹
y to adversely affect - discuss	possible BMPs with Se	ervices
Temporary storage (on water)	IL, IN, MI, OH	
Temporary storage (on water)	IL	
water)	ОН	
water)	IN	
water)	IL	
water)	MN, WI	
	entation of BMPs to m	inimize impact
water)	IL, IN, MI, OH	
water)	IL, IN, OH	
water)	IL, IN	
water)		
water)		
water)	IL, IN, OH	
water)	IL, IN, OH	
water)	IN, MI, OH	
Temporary storage (on water)	IL, IN, MI, OH	
water)	OH, WI	
water)	WI	
water)	IL, IN, MI, OH, WI	
water)		
Decanting	OH, WI	
Decanting	IL	
Temporary storage (on water) Temporary storage (on land)	IL, IN	
	Natural attenuation Locating, sampling, and monitoring air, land, and Watural attenuation Locating, sampling, and monitoring air, land, and water Waste Management Ac Specific Activity y to adversely affect - discuss Temporary storage (on water) Temporary	Natural attenuation Locating, sampling, and monitoring air, land, and water IL Natural attenuation Locating, sampling, and monitoring air, land, and water IL, IN Waste Management Activities States of Occurrence y to adversely affect - discuss possible BMPs with Se Temporary storage (on water) IL, IN, MI, OH Temporary storage (on water) IL Temporary storage (on water) IL, IN, MI, OH Temporary storage (on water) IL, IN, MI, OH Temporary storage (on water) IL, IN, MI, OH Temporary storage (on water) IL, IN, MI, OH Temporary storage (on water) IL, IN, MI, OH, WI

May affect, not like	y to adversely affect due to ins	ignificant or discountal	ble effects
Clubshell	Waste handling	IL, IN, MI, OH	
Fanshell	Waste handling	IL, IN, OH	
Fat Pocketbook	Waste handling	IL, IN	
Higgins' Eye Pearlymussel	Waste handling	IL, MN, WI	
Longsolid	Waste handling	IL, IN, OH	
Northern Riffleshell	Waste handling	IL, IN, MI, OH	
Orangefoot Pimpleback	Waste handling	IL	
Pink Mucket	Waste handling	IL, IN, OH	
Pyramid (Pink) Pigtoe	Waste handling	OH	
Rabbitsfoot Critical Habitat	Waste handling	IL, IN, OH	
Rayed Bean	Waste handling	IN, MI, OH	
Rough Pigtoe	Waste handling	IN	
Round Hickorynut	Waste handling	IL, IN, MI, OH	
Salamander Mussel	Waste handling	IL, IN, MI, MN, OH, WI	
Scaleshell	Waste handling	IL	
Sheepnose	Waste handling	IL, IN, MN, OH, WI	
Snuffbox	Waste handling	IL, IN, MI, OH, WI	
Spectaclecase	Waste handling	IL, MN, WI	
Winged Mapleleaf	Waste handling	MN, WI	
Lake Sturgeon	Waste handling Temporary storage (on water)	IL, IN, MI, MN, OH, WI	
Pallid Sturgeon	Waste handling Temporary storage (on water)	IL	
Sicklefin Chub	Waste handling Temporary storage (on water)	IL	
Sturgeon Chub	Waste handling Temporary storage (on water)	IL	
Alligator Snapping Turtle	Waste handling	IL, IN	

Rivers and Streams

High-Risk Response Actions and Activities in RIVERS AND STREAMS (INLAND) Associated Vulnerable Habitats: Beach and Sand Bar, Mudflats, Floodplain Forest, Rooted Floating Aquatics, Open Water, and Submersed Vegetation Deflection and Containment Activities					
May affect, likely	to adversely affect - discuss	possible BMPs with Servic	es		
Eastern Prairie Fringed Orchid	Dikes or berms	IL, IN, MI, OH, WI			
Western Prairie Fringed Orchid	Dikes or berms	MN			
Clubshell	Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	IL, IN, MI, OH			
Fanshell	Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	IL, IN, OH			
Fat Pocketbook	Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	IL, IN			
Higgins' Eye Pearlymussel	Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	IL, MN, WI			
Longsolid	Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	IL, IN, OH			
Northern Riffleshell	Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	IL, IN, MI, OH			
Orangefoot Pimpleback	Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	IL			
Pink Mucket	Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	IL, IN, OH			
Pyramid (Pink) Pigtoe	Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	ОН			
Rabbitsfoot Critical Habitat	Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	IL, IN, OH			
Rayed Bean	Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	IN, MI, OH			
Rough Pigtoe	Booming	IN			

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	Construction barriers, dams, pits, and trenches Culvert blocking		
Round Hickorynut	Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	IL, IN, MI, OH	
Salamander Mussel	Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	IL, IN, MI, MN, OH, WI	
Scaleshell	Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	IL	
Sheepnose	Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	IL, IN, MN, OH, WI	
Snuffbox	Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	IL, IN, MI, OH, WI	
Spectaclecase	Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	IL, MN, WI	
Winged Mapleleaf	Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	MN, WI	
Illinois Cave Amphipod	Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	IL	
Popeye Shiner	Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	ОН	
Scioto Madtom	Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	ОН	
Topeka Shiner Critical Habitat	Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	MN	
May affect, not likely to	adversely affect due to implement	entation of BMPs to m	inimize impact
Decurrent False Aster	Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	IL	
Eastern Prairie Fringed Orchid	Booming Construction barriers, dams, pits, and trenches Culvert blocking	IL, IN, MI, OH, WI	

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Hall's Bulrush	Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	IL, IN, MI, OH, WI	
Houghton's Goldenrod	Booming Construction barriers, dams, pits, and trenches Culvert blocking	MI	
Lakeside Daisy	Booming Construction barriers, dams, pits, and trenches Culvert blocking	IL, MI, OH	
Michigan Monkey Flower	Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	MI	
Minnesota Dwarf Trout Lily	Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	MN	
Northern Wild Monkshood	Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	OH, WI	
Running Buffalo Clover	Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	IN, OH	
Short's Bladderpod <i>Critical Habitat</i>	Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	IN	
Tennessee Pondweed	Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	ОН	
Virginia Spiraea	Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	ОН	
Western Prairie Fringed Orchid	Booming Construction barriers, dams, pits, and trenches Culvert blocking	MN	
Hungerford's Crawling Water Beetle	Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	MI	
Linda's Roadside Skipper	Dikes or berms Construction barriers, dams, pits, and trenches	IL	
Monarch Butterfly	Dikes or berms Construction barriers, dams, pits, and trenches	IL, IN, MI, MN, OH, WI	
Regal Fritillary	Dikes or berms Construction barriers, dams, pits, and trenches	IL, IN, MI, MN, OH, WI	
Rusty Patched Bumble Bee	Dikes or berms Construction barriers, dams, pits, and trenches	IL, IN, MN, OH, WI	

Lake Sturgeon	Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	IL, IN, MI, MN, OH, WI	
Pallid Sturgeon	Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	IL	
Sicklefin Chub	Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	IL	
Sturgeon Chub	Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	IL	
Alligator Snapping Turtle	Booming Construction barriers, dams, pits, and trenches	IL, IN	
Blanding's Turtle	Booming Construction barriers, dams, pits, and trenches	IL, IN, MI, MN, OH, WI	
Illinois Chorus Frog	Booming Construction barriers, dams, pits, and trenches	IL	
Spotted Turtle	Booming Construction barriers, dams, pits, and trenches	IL, IN, MI, OH	
Streamside Salamander	Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	IN, OH	
Wood Turtle	Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	MI, MN, OH, WI	
Piping Plover Critical Habitat	Booming Dikes or berms Construction barriers, dams, pits, and trenches	IL, IN, MI, MN, OH, WI	
Rufa Red Knot	Dikes or berms Construction barriers, dams, pits, and trenches	IL, IN, MI, MN, OH, WI	
May affect, not likely	to adversely affect due to insi	gnificant or discounta	ble effects
Linda's Roadside Skipper	Booming Culvert blocking	IL	
Monarch Butterfly	Booming Culvert blocking	IL, IN, MI, MN, OH, WI	
Regal Fritillary	Booming Culvert blocking Booming	IL, IN, MI, MN, OH, WI IL, IN, MN, OH,	
Rusty Patched Bumble Bee	Culvert blocking Dikes or berms	WI	
Alligator Snapping Turtle Blanding's Turtle	Culvert blocking Dikes or berms	IL, IN IL, IN, MI, MN,	
-	Culvert blocking	OH, WI	
Illinois Chorus Frog Spotted Turtle	Culvert blocking Dikes or berms	IL IL, IN, MI, OH	
Gray Bat	Culvert blocking Booming Dikes or berms	IL, IN	

		1	r
	Construction barriers,		
	dams, pits, and trenches		
	Culvert blocking		
	Booming Dikes or berms		
Tricolored Bat	Construction barriers,	IL, IN, MI, MN,	
THEOREM BAL		OH, WI	
	dams, pits, and trenches		
	Culvert blocking		
Rufa Red Knot	Booming	IL, IN, MI, MN, OH, WI	
	Recovery Activitie		
Species	Specific Activity	States of Occurrence	BMPs
May affect, likely	to adversely affect - discuss		ervices
	Skimming		
Clubshell	Vacuuming	IL, IN, MI, OH	
	Sorbents		
	Skimming		
Fanshell	Vacuuming	IL, IN, OH	
	Sorbents	, , •	
	Skimming		
Fat Pocketbook	Vacuuming	IL, IN	
	Sorbents	1 <u></u> , 11 4	
	Skimming		
Higgins' Eye Pearlymussel	Vacuuming	IL, MN, WI	
	Sorbents		
Langealid	Skimming		
Longsolid	Vacuuming	IL, IN, OH	
	Sorbents		
	Skimming		
Northern Riffleshell	Vacuuming	IL, IN, MI, OH	
	Sorbents		
	Skimming		
Orangefoot Pimpleback	Vacuuming	IL	
	Sorbents		
	Skimming		
Pink Mucket	Vacuuming	IL, IN, OH	
	Sorbents		
	Skimming		
Pyramid (Pink) Pigtoe	Vacuuming	OH	
	Sorbents		
Dabbitataat	Skimming		
Rabbitsfoot	Vacuuming	IL, IN, OH	
Critical Habitat	Sorbents	, , -	
	Skimming		
Rayed Bean	Vacuuming	IN, MI, OH	
. lay ou bourn	Sorbents	,,	
	Skimming		
Rough Pigtoe	Vacuuming	IN	
i tougin r igite	Sorbents	IIN	
Dound Linkon mut	Skimming		
Round Hickorynut	Vacuuming	IL, IN, MI, OH	
	Sorbents		
	Skimming	IL, IN, MI, MN,	
Salamander Mussel	Vacuuming	OH, WI	
	Sorbents	,	
	Skimming		
Scaleshell	Vacuuming	IL	
	Sorbents		
	Skimming	IL, IN, MN, OH,	
Sheepnose	Vacuuming	WI	
	Sorbents	VVI	
	Skimming	Iming	
Snuffbox	Vacuuming	IL, IN, MI, OH, WI	
			1
0.00.00	Sorbents		
Spectaclecase	Sorbents Skimming	IL, MN, WI	

	Sorbents		
	Skimming		
Winged Mapleleaf	Vacuuming	MN, WI	
	Sorbents		
Illinois Cave Amphipod	Skimming	IL	
	Vacuuming		
Popeye Shiner	Skimming	OH	
	Vacuuming Skimming		
Scioto Madtom	Vacuuming	OH	
Topeka Shiner	Skimming		
Critical Habitat	Vacuuming	MN	
	dversely affect due to impl	ementation of BMPs to m	inimize impact
	Vacuuming		
Decurrent False Aster	Sorbents	IL	
	Skimming		
Hall's Bulrush	Vacuuming	IL, IN, MI, OH, WI	
	Sorbents		
	Skimming		
Michigan Monkey Flower	Vacuuming	MI	
	Sorbents		
Minnesota Dwarf Trout Lily	Vacuuming	MN	
,	Sorbents		
Northern Wild Monkshood	Vacuuming Sorbents	OH, WI	
	Vacuuming		
Running Buffalo Clover	Sorbents	IN, OH	
Short's Bladderpod	Vacuuming		
Critical Habitat	Sorbents	IN	
ontiour habitat	Skimming		
Tennessee Pondweed	Vacuuming	OH	
	Sorbents	-	
Virginia Chirago	Vacuuming	ОН	
Virginia Spiraea	Sorbents	ОП	
Hungerford's Crawling Water Beetle	Skimming	MI	
Hangehold o Olawing Water Decile	Vacuuming		
Lake Sturgeon	Skimming	IL, IN, MI, MN,	
	Vacuuming	OH, WI	
Pallid Sturgeon	Skimming	IL	
	Vacuuming Skimming		
Sicklefin Chub	Vacuuming	IL	
	Skimming		
Sturgeon Chub	Vacuuming	IL	
	Skimming		
Alligator Snapping Turtle	Vacuuming	IL, IN	
	Sorbents		
	Skimming	IL, IN, MI, MN,	
Blanding's Turtle	Vacuuming	OH, WI	
	Sorbents	011, 111	
	Skimming		
Illinois Chorus Frog	Vacuuming	IL	
	Sorbents		
Spotted Turtle	Skimming	IL, IN, MI, OH	
Spolled Turlle	Vacuuming Sorbents		
	Skimming		
Streamside Salamander	Vacuuming	IN, OH	
	Sorbents	,	
	Skimming		
	Vacuuming	MI, MN, OH, WI	
Wood Turtle		,,,	
Wood Turtle	Sorbents		
	Sorbents Skimming		
Piping Plover	Sorbents Skimming Vacuuming	IL, IN, MI, MN, OH, WI	
	Sorbents Skimming	IL, IN, MI, MN, OH, WI IL, IN, MI, MN,	

	y to adversely affect due to ins	-	ole effects
Minnesota Dwarf Trout Lily	Skimming	MN	
Northern Wild Monkshood	Skimming	OH, WI	
Running Buffalo Clover	Skimming	IN, OH	
Short's Bladderpod Critical Habitat	Skimming	IN	
Gray Bat	Skimming Vacuuming Sorbents	IL, IN	
Tricolored Bat	Skimming Vacuuming Sorbents	IL, IN, MI, MN, OH, WI	
Rufa Red Knot	Skimming Vacuuming	IL, IN, MI, MN, OH, WI	
	Removal/Cleanup Acti	•	
Species	Specific Activity	States of Occurrence	BMPs ¹
May affect likel	y to adversely affect - discuss p		ervices
way arect, like	Flooding		111000
Clubshell	Flushing Steam cleaning Sandblasting Manual removal/cleaning of oil	IL, IN, MI, OH	
Fanshell	Flooding Flushing Steam cleaning Sandblasting Manual removal/cleaning of oil	IL, IN, OH	
Fat Pocketbook	Flooding Flushing Steam cleaning Sandblasting Manual removal/cleaning of oil	IL, IN	
Higgins' Eye Pearlymussel	Flooding Flushing Steam cleaning Sandblasting Manual removal/cleaning of oil	IL, MN, WI	
Longsolid	Flooding Flushing Steam cleaning Sandblasting Manual removal/cleaning of oil	IL, IN, OH	
Northern Riffleshell	Flooding Flushing Steam cleaning Sandblasting Manual removal/cleaning of oil	IL, IN, MI, OH	
Orangefoot Pimpleback	Flooding Flushing Steam cleaning Sandblasting Manual removal/cleaning of oil	IL	
Pink Mucket	Flooding Flushing Steam cleaning Sandblasting Manual removal/cleaning of oil	IL, IN, OH	

Pyramid (Pink) Pigtoe	Flooding Flushing Steam cleaning Sandblasting Manual removal/cleaning of oil	ОН	
Rabbitsfoot Critical Habitat	Flooding Flushing Steam cleaning Sandblasting Manual removal/cleaning of oil	IL, IN, OH	
Rayed Bean	Flooding Flushing Steam cleaning Sandblasting Manual removal/cleaning of oil	IN, MI, OH	
Rough Pigtoe	Flooding Flushing Steam cleaning Sandblasting Manual removal/cleaning of oil	IN	
Round Hickorynut	Flooding Flushing Steam cleaning Sandblasting Manual removal/cleaning of oil	IL, IN, MI, OH	
Salamander Mussel	Flooding Flushing Steam cleaning Sandblasting Manual removal/cleaning of oil	IL, IN, MI, MN, OH, WI	
Scaleshell	Flooding Flushing Steam cleaning Sandblasting Manual removal/cleaning of oil	IL	
Sheepnose	Flooding Flushing Steam cleaning Sandblasting Manual removal/cleaning of oil	IL, IN, MN, OH, WI	
Snuffbox	Flooding Flushing Steam cleaning Sandblasting Manual removal/cleaning of oil	IL, IN, MI, OH, WI	
Spectaclecase	Flooding Flushing Steam cleaning Sandblasting Manual removal/cleaning of oil	IL, MN, WI	
Winged Mapleleaf	Flooding Flushing Steam cleaning Sandblasting Manual removal/cleaning of oil	MN, WI	
Illinois Cave Amphipod	Flooding Flushing Steam cleaning	IL	

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	Sandblasting Manual removal/cleaning of oil		
Popeye Shiner	Flooding Flushing Steam cleaning Sandblasting	ОН	
Scioto Madtom	Flooding Flushing Steam cleaning Sandblasting	ОН	
Topeka Shiner Critical Habitat	Flooding Flushing Steam cleaning Sandblasting	MN	
May affect, not likely to a	adversely affect due to impleme	entation of BMPs to m	inimize impact
Decurrent False Aster	Flooding Flushing Steam cleaning Sandblasting Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil	IL	
Hall's Bulrush	Flooding Flushing Steam cleaning Sandblasting Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil	IL, IN, MI, OH, WI	
Michigan Monkey Flower	Flooding Flushing Steam cleaning Sandblasting Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil	MI	
Minnesota Dwarf Trout Lily	Flooding Flushing Steam cleaning Sandblasting Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil	MN	
Northern Wild Monkshood	Flooding Flushing Steam cleaning Sandblasting Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil	OH, WI	
Running Buffalo Clover	Flooding Flushing Steam cleaning Sandblasting Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil	IN, OH	
Short's Bladderpod Critical Habitat	Flooding Flushing Steam cleaning Sandblasting	IN	

	Mechanical sand cleaning		
	(<1 inch and >1 inch)		
	Manual removal/cleaning		
	of oil Flooding		
Tennessee Pondweed	Flushing Flushing Steam cleaning Sandblasting Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil	ОН	
Virginia Spiraea	Flooding Flushing Steam cleaning Sandblasting Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil	ОН	
Hungerford's Crawling Water Beetle	Flooding Flushing Steam cleaning Sandblasting Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil	MI	
Linda's Roadside Skipper	Flooding Flushing Steam cleaning Sandblasting Mechanical sand cleaning (<1 inch and >1 inch)	IL	
Monarch Butterfly	Flooding Flushing Steam cleaning Sandblasting Mechanical sand cleaning (<1 inch and >1 inch)	IL, IN, MI, MN, OH, WI	
Regal Fritillary	Flooding Flushing Steam cleaning Sandblasting Mechanical sand cleaning (<1 inch and >1 inch)	IL, IN, MI, MN, OH, WI	
Rusty Patched Bumble Bee	Flooding Flushing Steam cleaning Sandblasting Mechanical sand cleaning (<1 inch and >1 inch)	il, in, mn, oh, Wi	
Lake Sturgeon	Flooding Flushing Steam cleaning Sandblasting	IL, IN, MI, MN, OH, WI	
Pallid Sturgeon	Flooding Flushing Steam cleaning Sandblasting	IL	
Sicklefin Chub	Flooding Flushing Steam cleaning Sandblasting	IL	
Sturgeon Chub	Flooding Flushing Steam cleaning Sandblasting	IL	
Alligator Snapping Turtle	Steam cleaning	IL, IN	

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	Sandblasting Manual removal/cleaning of oil		
Blanding's Turtle	Steam cleaning Sandblasting Manual removal/cleaning of oil	IL, IN, MI, MN, OH, WI	
Illinois Chorus Frog	Flushing Steam cleaning Sandblasting Manual removal/cleaning of oil	IL	
Spotted Turtle	Steam cleaning Sandblasting Manual removal/cleaning of oil	IL, IN, MI, OH	
Streamside Salamander	Flooding Flushing Steam cleaning Sandblasting Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil	IN, OH	
Wood Turtle	Flooding Steam cleaning Sandblasting Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil	MI, MN, OH, WI	
Gray Bat	Sandblasting	IL, IN	
Tricolored Bat	Sandblasting	IL, IN, MI, MN, OH, WI	
Piping Plover Critical Habitat	Flooding Flushing Steam cleaning Sandblasting Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil	IL, IN, MI, MN, OH, WI	
Rufa Red Knot	Flooding Flushing Steam cleaning Sandblasting Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil	IL, IN, MI, MN, OH, WI	
May affect, not lik	ely to adversely affect due to insi	ignificant or discounta	ble effects
Linda's Roadside Skipper	Manual removal/cleaning of oil Manual removal/cleaning	IL IL, IN, MI, MN,	
Monarch Butterfly	of oil	OH, WI	
Regal Fritillary	Manual removal/cleaning of oil	IL, IN, MI, MN, OH, WI	
Rusty Patched Bumble Bee	Manual removal/cleaning of oil	IL, IN, MN, OH, WI IL, IN	
Alligator Snapping Turtle	Flushing	IL, IN IL, IN, MI, MN,	
Blanding's Turtle	Flushing	OH, WI	
Spotted Turtle Wood Turtle	Flushing Flushing	IL, IN, MI, OH MI, MN, OH, WI	
Gray Bat	Flooding Flushing Steam cleaning	IL, IN	

	Mechanical sand cleaning					
	(<1 inch and >1 inch) Manual removal/cleaning					
Tricolored Bat	of oil Flooding Flushing Steam cleaning Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil	IL, IN, MI, MN, OH, WI				
Submerged Oil Activities						
Species	Specific Activity	States of Occurrence	BMPs ¹			
May affect, likel	y to adversely affect - discuss p	oossible BMPs with Se	ervices			
Clubshell	Detection of non- floating/submerged oil Recovery of non- floating/submerged oil Containment of non- floating/submerged oil	IL, IN, MI, OH				
Fanshell	Detection of non- floating/submerged oil Recovery of non- floating/submerged oil Containment of non- floating/submerged oil	IL, IN, OH				
Fat Pocketbook	Detection of non- floating/submerged oil Recovery of non- floating/submerged oil Containment of non- floating/submerged oil	IL, IN				
Higgins' Eye Pearlymussel	Detection of non- floating/submerged oil Recovery of non- floating/submerged oil Containment of non- floating/submerged oil	IL, MN, WI				
Longsolid	Detection of non- floating/submerged oil Recovery of non- floating/submerged oil Containment of non- floating/submerged oil	IL, IN, OH				
Northern Riffleshell	Detection of non- floating/submerged oil Recovery of non- floating/submerged oil Containment of non- floating/submerged oil	IL, IN, MI, OH				
Orangefoot Pimpleback	Detection of non- floating/submerged oil Recovery of non- floating/submerged oil Containment of non- floating/submerged oil	IL				
Pink Mucket	Detection of non- floating/submerged oil Recovery of non- floating/submerged oil Containment of non- floating/submerged oil	IL, IN, OH				
Pyramid (Pink) Pigtoe	Detection of non- floating/submerged oil Recovery of non- floating/submerged oil	ОН				

Ocatolicano 1 f	1	
Recovery of non-	IL, IN, OH	
	IN, MI, OH	
Containment of non-		
	IN	
	IL, IN, MI, OH	
Containment of non-		
floating/submerged oil		
Detection of non-		
floating/submerged oil		
	IL, IN, MI, MN,	
	OH, WI	
Containment of non-		
floating/submerged oil		
Detection of non-		
floating/submerged oil		
Recovery of non-		
floating/submerged oil	IL.	
Containment of non-		
	WI	
	IL. IN. MI. OH. WI	
	, ,,,	
	IL, MN, WI	
		<u> </u>
	MN, WI	
Containment of non-		
	1	
floating/submerged oil		
floating/submerged oil Recovery of non-		
floating/submerged oil Recovery of non- floating/submerged oil	IL	
floating/submerged oil Recovery of non- floating/submerged oil Containment of non-	IL	
floating/submerged oil Recovery of non- floating/submerged oil	IL	
	floating/submerged oil Detection of non- floating/submerged oil Recovery of non- floating/submerged oil Containment of non- floating/submerged oil Detection of non- floating/submerged oil Containment of non- floating/submerged oil Detection of non- floating/submerged oil Recovery of non- floating/submerged oil Containment of non- floating/submerged oil Containment of non- floating/submerged oil Detection of non- floating/submerged oil Containment of non- floating/submerged oil Detection of non- floating/submerged oil Recovery of non- floating/submerged oil Containment of non- floating/submerged oil Detection of non- floating/submerged oil Detection of non- floating/submerged oil Containment of non- floating/submerged oil Containment of non- floating/submerged oil Containment of non- floating/submerged oil Containment of non- floating/submerged oil Containged oil Detection of non- floating/submerged oil Recovery of non- floating/submerged oil Containged oil Detection of non- floating/submerged oil Recovery of non- floating/submerged oil Recovery of non- floating/submerged oil Containged oil	floating/submerged oilDetection of non- floating/submerged oilRecovery of non- floating/submerged oilDetection of non- floating/submerged oilRecovery of non- floating/submerged oilContainment of non- floating/submerged oilContainment of non- floating/submerged oilRecovery of non- floating/submerged oil Recovery of non- floating/submerged oilRecovery of non- floating/submerged oil

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	Recovery of non-		
	floating/submerged oil		
	Containment of non-		
	floating/submerged oil		
	Detection of non-		
	floating/submerged oil		
Scioto Madtom	Recovery of non-	ОН	
	floating/submerged oil	0	
	Containment of non-		
	floating/submerged oil		
	Detection of non-		
	floating/submerged oil		
Topeka Shiner			
	Recovery of non-	MN	
Critical Habitat	floating/submerged oil		
	Containment of non-		
	floating/submerged oil		
May affect, not likely to a	dversely affect due to implem	entation of BMPs to m	inimize impact
-,,,,		T	
	Recovery of non-		
Hall's Bulrush	floating/submerged oil	IL, IN, MI, OH, WI	
	Containment of non-	_,, , , , ,	
	floating/submerged oil		
	Recovery of non-		
Mishimon Market T	floating/submerged oil		
Michigan Monkey Flower	Containment of non-	MI	
	floating/submerged oil		
	Detection of non-		<u> </u>
	floating/submerged oil		
Tennessee Pondweed	Recovery of non-	ОН	
Termessee Fondweed	floating/submerged oil	011	
	Containment of non-		
	floating/submerged oil		
	Recovery of non-		
	floating/submerged oil		
Virginia Spiraea		OH	
0 1	Containment of non-		
	floating/submerged oil		
	Recovery of non-		
Live serferd's Crevilies Mater Destis	floating/submerged oil	N 41	
Hungerford's Crawling Water Beetle	Containment of non-	MI	
	floating/submerged oil		
	Detection of non-		
	floating/submerged oil		
Lake Sturgeon	Recovery of non-	IL, IN, MI, MN,	
Lane eta geen	floating/submerged oil	OH, WI	
	Containment of non-		
	floating/submerged oil		
	Detection of non-		
	floating/submerged oil		
	Recovery of non-		
Pallid Sturgeon		IL	
	floating/submerged oil		
	Containment of non-	1	
			1
	floating/submerged oil		
	floating/submerged oil Detection of non-		
	floating/submerged oil Detection of non- floating/submerged oil		
Sicklefin Chub	floating/submerged oil Detection of non- floating/submerged oil Recovery of non-	IL	
Sicklefin Chub	floating/submerged oil Detection of non- floating/submerged oil Recovery of non- floating/submerged oil	IL	
Sicklefin Chub	floating/submerged oil Detection of non- floating/submerged oil Recovery of non- floating/submerged oil Containment of non-	IL	
Sicklefin Chub	floating/submerged oil Detection of non- floating/submerged oil Recovery of non- floating/submerged oil Containment of non- floating/submerged oil	IL	
Sicklefin Chub	floating/submerged oil Detection of non- floating/submerged oil Recovery of non- floating/submerged oil Containment of non- floating/submerged oil Detection of non-	IL	
Sicklefin Chub	floating/submerged oil Detection of non- floating/submerged oil Recovery of non- floating/submerged oil Containment of non- floating/submerged oil Detection of non- floating/submerged oil	IL	
	floating/submerged oil Detection of non- floating/submerged oil Recovery of non- floating/submerged oil Containment of non- floating/submerged oil Detection of non-		
Sicklefin Chub Sturgeon Chub	floating/submerged oil Detection of non- floating/submerged oil Recovery of non- floating/submerged oil Containment of non- floating/submerged oil Detection of non- floating/submerged oil	п.	
	floating/submerged oil Detection of non- floating/submerged oil Recovery of non- floating/submerged oil Containment of non- floating/submerged oil Detection of non- floating/submerged oil Recovery of non- floating/submerged oil		
	floating/submerged oil Detection of non- floating/submerged oil Recovery of non- floating/submerged oil Containment of non- floating/submerged oil Recovery of non- floating/submerged oil Containment of non-		
	floating/submerged oil Detection of non- floating/submerged oil Recovery of non- floating/submerged oil Containment of non- floating/submerged oil Recovery of non- floating/submerged oil Containment of non- floating/submerged oil		
	floating/submerged oil Detection of non- floating/submerged oil Recovery of non- floating/submerged oil Containment of non- floating/submerged oil Recovery of non- floating/submerged oil Containment of non- floating/submerged oil Containment of non- floating/submerged oil Detection of non-		
	floating/submerged oil Detection of non- floating/submerged oil Recovery of non- floating/submerged oil Containment of non- floating/submerged oil Detection of non- floating/submerged oil Containment of non- floating/submerged oil Detection of non- floating/submerged oil		
Sturgeon Chub	floating/submerged oil Detection of non- floating/submerged oil Recovery of non- floating/submerged oil Containment of non- floating/submerged oil Detection of non- floating/submerged oil Containment of non- floating/submerged oil Detection of non- floating/submerged oil Detection of non- floating/submerged oil Recovery of non-	IL	
	floating/submerged oil Detection of non- floating/submerged oil Recovery of non- floating/submerged oil Containment of non- floating/submerged oil Detection of non- floating/submerged oil Containment of non- floating/submerged oil Detection of non- floating/submerged oil		
Sturgeon Chub	floating/submerged oil Detection of non- floating/submerged oil Recovery of non- floating/submerged oil Containment of non- floating/submerged oil Detection of non- floating/submerged oil Containment of non- floating/submerged oil Detection of non- floating/submerged oil Detection of non- floating/submerged oil Recovery of non-	IL	

	Detection of non- floating/submerged oil		
Blanding's Turtle	Recovery of non-	IL, IN, MI, MN,	
	floating/submerged oil Containment of non-	OH, WI	
	floating/submerged oil		
	Detection of non-		
	floating/submerged oil Recovery of non-		
Illinois Chorus Frog	floating/submerged oil	IL	
	Containment of non-		
	floating/submerged oil Detection of non-		
	floating/submerged oil		
Spotted Turtle	Recovery of non-	IL, IN, MI, OH	
	floating/submerged oil Containment of non-		
	floating/submerged oil		
	Detection of non-		
	floating/submerged oil Recovery of non-		
Streamside Salamander	floating/submerged oil	IN, OH	
	Containment of non-		
	floating/submerged oil Detection of non-		
	floating/submerged oil		
Wood Turtle	Recovery of non-	MI, MN, OH, WI	
	floating/submerged oil Containment of non-		
	floating/submerged oil		
	Detection of non-		
Piping Plover Critical Habitat	floating/submerged oil Recovery of non-	IL, IN, MI, MN, OH, WI	
	floating/submerged oil	,	
	Detection of non-		
Rufa Red Knot	floating/submerged oil Recovery of non-	IL, IN, MI, MN, OH, WI	
	floating/submerged oil	,	
May affect, not like	y to adversely affect due to ins Detection of non-		ole effects
Decurrent False Aster	floating/submerged oil	IL	
Eastern Prairie Fringed Orchid	Detection of non-	IL, IN, MI, OH, WI	
	floating/submerged oil Detection of non-		
Hall's Bulrush	floating/submerged oil	IL, IN, MI, OH, WI	
Houghton's Goldenrod	Detection of non-	MI	
	floating/submerged oil Detection of non-	IVII	
Lakeside Daisy	floating/submerged oil	IL, MI, OH	
Michigan Monkey Flower	Detection of non-	MI	
Wienigan Wenkey Flewer	floating/submerged oil		
Minnesota Dwarf Trout Lily	Detection of non- floating/submerged oil	MN	
Northern Wild Monkshood	Detection of non-	OH, WI	
	floating/submerged oil		
Running Buffalo Clover	Detection of non- floating/submerged oil	IN, OH	
Short's Bladderpod	Detection of non-	IN	
Critical Habitat	floating/submerged oil Detection of non-		
Virginia Spiraea	floating/submerged oil	ОН	
Western Prairie Fringed Orchid	Detection of non-	MN	
.	floating/submerged oil Wildlife Protection Ac		
		States of	
Species	Specific Activity	Occurrence	BMPs ¹

	to adversely affect - discuss		ervices
Popeye Shiner	Deterrence and hazing	OH	
Scioto Madtom Topeka Shiner	Deterrence and hazing	OH	
Critical Habitat	Deterrence and hazing	MN	
	adversely affect due to implem	entation of BMPs to m	inimize impact
May alleet, het likely to a	Deterrence and hazing		
Tennessee Pondweed	Capture and care of	ОН	
	contaminated species	011	
	Deterrence and hazing		
Virginia Spiraea	Capture and care of	ОН	
	contaminated species		
Lake Sturgeon	Deterrence and hazing	IL, IN, MI, MN,	
-		OH, WI	
Pallid Sturgeon	Deterrence and hazing	IL	
Sicklefin Chub	Deterrence and hazing	IL	
Sturgeon Chub	Deterrence and hazing	IL	
Alligator Snapping Turtle	Capture and care of	IL, IN	
	contaminated species		
Blanding's Turtle	Capture and care of	IL, IN, MI, MN,	
Elanang o Fartio	contaminated species	OH, WI	
	Deterrence and hazing		
Illinois Chorus Frog	Capture and care of	IL	
	contaminated species		
Spotted Turtle	Capture and care of	IL, IN, MI, OH	
•	contaminated species		
Streamside Salamander	Deterrence and hazing		
Streamside Salamander	Capture and care of	IN, OH	
	contaminated species		
Wood Turtle	Capture and care of contaminated species	MI, MN, OH, WI	
	Deterrence and hazing		
Piping Plover	Capture and care of	IL, IN, MI, MN,	
Critical Habitat	contaminated species	OH, WI	
	Deterrence and hazing		
Rufa Red Knot	Capture and care of	IL, IN, MI, MN,	
	contaminated species	OH, WI	
May affect, not likely	/ to adversely affect due to ins	ignificant or discountal	ole effects
	Deterrence and hazing		
Hall's Bulrush	Capture and care of	IL, IN, MI, OH, WI	
	contaminated species		
	Deterrence and hazing		
lichigan Monkey Flower	Capture and care of	MI	
	contaminated species		
	Deterrence and hazing		
nnesota Dwarf Trout Lily	Capture and care of	MN	
	contaminated species		
	Deterrence and hazing	<u> </u>	
orthern Wild Monkshood	Capture and care of	OH, WI	
	contaminated species		
Dunning Duffele Clause	Deterrence and hazing		
Running Buffalo Clover	Capture and care of	IN, OH	
	contaminated species		
Short's Bladderpod	Deterrence and hazing Capture and care of	IN	
Critical Habitat	contaminated species	IIN	
	Deterrence and hazing	IL, IN	
Iligator Spapping Turtle	Detendine and hazing	IL, IN IL, IN, MI, MN,	ļ
Iligator Snapping Turtle Blanding's Turtle	Deterrence and hazing	OH WI	
Blanding's Turtle	, , , , , , , , , , , , , , , , , , ,	OH, WI IL, IN, MI, OH	
Blanding's Turtle Spotted Turtle	Deterrence and hazing	IL, IN, MI, OH	
Blanding's Turtle	Deterrence and hazing Deterrence and hazing		
Spotted Turtle Wood Turtle	Deterrence and hazing Deterrence and hazing Deterrence and hazing	IL, IN, MI, OH MI, MN, OH, WI	
Blanding's Turtle Spotted Turtle	Deterrence and hazing Deterrence and hazing Deterrence and hazing Capture and care of	IL, IN, MI, OH	
Blanding's Turtle Spotted Turtle Wood Turtle	Deterrence and hazing Deterrence and hazing Deterrence and hazing	IL, IN, MI, OH MI, MN, OH, WI	

	Capture and care of		
	contaminated species		
	Locating, Tracking, and Supp	ort Activities	
Species	Specific Activity	States of Occurrence	BMPs ¹
May affect, like	ly to adversely affect - discuss		vices
Clubshell	Use of vessels Use of vehicles Deployment of buoys	IL, IN, MI, OH	
Fanshell	Use of vessels Use of vehicles Deployment of buoys	IL, IN, OH	
Fat Pocketbook	Use of vessels Use of vehicles Deployment of buoys	IL, IN	
Higgins' Eye Pearlymussel	Use of vessels Use of vehicles Deployment of buoys	IL, MN, WI	
Longsolid	Use of vessels Use of vehicles Deployment of buoys	IL, IN, OH	
Northern Riffleshell	Use of vessels Use of vehicles Deployment of buoys Use of vessels	IL, IN, MI, OH	
Orangefoot Pimpleback	Use of vessels Use of vehicles Deployment of buoys Use of vessels	IL	
Pink Mucket	Use of vessels Use of vehicles Deployment of buoys Use of vessels	IL, IN, OH	
Pyramid (Pink) Pigtoe	Use of vehicles Deployment of buoys	ОН	
Rabbitsfoot Critical Habitat	Use of vessels Use of vehicles Deployment of buoys	IL, IN, OH	
Rayed Bean	Use of vessels Use of vehicles Deployment of buoys	IN, MI, OH	
Rough Pigtoe	Use of vessels Use of vehicles Deployment of buoys	IN	
Round Hickorynut	Use of vessels Use of vehicles Deployment of buoys	IL, IN, MI, OH	
Salamander Mussel	Use of vessels Use of vehicles Deployment of buoys	IL, IN, MI, MN, OH, WI	
Scaleshell	Use of vessels Use of vehicles Deployment of buoys	IL	
Sheepnose	Use of vessels Use of vehicles Deployment of buoys	IL, IN, MN, OH, WI	
Snuffbox	Use of vessels Use of vehicles Deployment of buoys	IL, IN, MI, OH, WI	
Spectaclecase	Use of vessels Use of vehicles Deployment of buoys	IL, MN, WI	
Winged Mapleleaf	Use of vessels Use of vehicles Deployment of buoys	MN, WI	
Illinois Cave Amphipod Popeye Shiner	Deployment of buoys Use of vessels	IL OH	
Scioto Madtom	Deployment of buoys Use of vessels	ОН	

T 1 011	Deployment of buoys		
Topeka Shiner Critical Habitat	Use of vessels Deployment of buoys	MN	
May affect, not likely to	adversely affect due to implement	entation of BMPs to minimize in	mpact
Decurrent False Aster	Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Locating, sampling, and	IL	
	monitoring air, land, and water Access of personnel by foot traffic		
Hall's Bulrush	Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic	IL, IN, MI, OH, WI	
Michigan Monkey Flower	Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic	MI	
Minnesota Dwarf Trout Lily	Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of staging areas	MN	
Northern Wild Monkshood	Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of staging areas	OH, WI	
Running Buffalo Clover	Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of staging areas	IN, OH	
Short's Bladderpod Critical Habitat	Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of staging areas	IN	

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	Use of vessels		
	Use of vehicles		
	Use of		
	machinery/supporting		
	equipment		
	Creation/use of new		
	access points		
Tennessee Pondweed	Creation/use of staging	ОН	
Termessee Fondweed	areas	OII	
	Natural attenuation		
	Deployment of buoys		
	Locating, sampling, and		
	monitoring air, land, and		
	water		
	Access of personnel by		
	foot traffic		
	Use of vehicles		
	Use of		
	machinery/supporting		
	equipment		
	Creation/use of new		
	access points		
Virginia Spiraea	Creation/use of staging	OH	
- ·	areas		
	Natural attenuation		
	Deployment of buoys		
	Locating, sampling, and		
	monitoring air, land, and		
	water		
	Use of vehicles		
	Use of		
Hungerford's Crawling Water Beetle	machinery/supporting	MI	
5 - 5	equipment		
	Deployment of buoys		
	Use of vehicles		
	Use of		
	machinery/supporting		
	equipment		
Linda's Roadside Skipper	Creation/use of new	IL	
	access points		
	Creation/use of staging		
	areas		
	Use of vehicles		
	Use of		
	machinery/supporting		
	equipment	IL, IN, MI, MN,	
Monarch Butterfly	Creation/use of new	OH, WI	
	access points	, m	
	Creation/use of staging		
	areas		
	Use of vehicles		1
	Use of		
	machinery/supporting		
_	equipment	IL, IN, MI, MN,	
Regal Fritillary	Creation/use of new	OH, WI	
	access points	UI, WI	
		1	
	Creation/use of staning		
	Creation/use of staging areas		
	areas		
	areas Use of vehicles		
	areas Use of vehicles Use of		
	areas Use of vehicles Use of machinery/supporting		
Rusty Patched Bumble Bee	areas Use of vehicles Use of machinery/supporting equipment	IL, IN, MN, OH,	
Rusty Patched Bumble Bee	areas Use of vehicles Use of machinery/supporting equipment Creation/use of new	IL, IN, MN, OH, WI	
Rusty Patched Bumble Bee	areas Use of vehicles Use of machinery/supporting equipment Creation/use of new access points		
Rusty Patched Bumble Bee	areas Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of staging		
Rusty Patched Bumble Bee	areas Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of staging areas	WI	
Rusty Patched Bumble Bee Lake Sturgeon	areas Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Use of vessels	IL, IN, MI, MN,	
	areas Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of staging areas	WI	

	Deployment of buoys		
Sicklefin Chub	Use of vessels	IL	
	Deployment of buoys	12	
Sturgeon Chub	Use of vessels Deployment of buoys	IL	
	Use of vehicles Use of Use of machinery/supporting		
Alligator Snapping Turtle	creation/use of staging creation/use of staging areas	IL, IN	
Blanding's Turtle	Use of vessels Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of staging areas	IL, IN, MI, OH, WI	
Illinois Chorus Frog	Use of aircraft Use of vessels Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Natural attenuation Locating, sampling, and monitoring air, land, and water Access of personnel by foot traffic	IL	
Spotted Turtle	Use of vessels Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of staging areas	IL, IN, MI, OH	
Streamside Salamander	Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of staging areas	IN, OH	
Wood Turtle	Use of vessels Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of staging areas	MI, MN, OH, WI	
Gray Bat	Use of aircraft Use of vessels Use of vehicles	IL, IN	

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	Use of machinery/supporting		
	equipment		
	Creation/use of new		
	access points Creation/use of staging		
	areas		
	Use of aircraft		
	Use of vessels		
	Use of vehicles		
	Use of		
Tricolored Bat	machinery/supporting	IL, IN, MI, MN,	
Theolored Dat	equipment	OH, WI	
	Creation/use of new		
	access points		
	Creation/use of staging areas		
	Use of aircraft		
	Use of vessels		
	Use of vehicles		
	Use of		
Piping Plover	machinery/supporting	IL, IN, MI, MN,	
Critical Habitat	equipment	OH, WI	
	Creation/use of new	0,	
	access points		
	Creation/use of staging areas		
	Deployment of buoys		
	Use of aircraft		
	Use of vessels		
	Use of vehicles		
	Use of		
	machinery/supporting	IL, IN, MI, MN,	
Rufa Red Knot	equipment	OH, WI	
	Creation/use of new	,	
	access points Creation/use of staging		
	areas		
	Deployment of buoys		
May affect, not likely	y to adversely affect due to insi	qnificant or discountal	ole effects
	Use of aircraft		
Alligator Snapping Turtle	Deployment of buoys	IL, IN	
Planding's Turtle	Use of aircraft		
Blanding's Turtle	Deployment of buoys	IL, IN, MI, OH, WI	
Illinois Chorus Frog	Deployment of buoys	IL	
Spotted Turtle	Use of aircraft	IL, IN, MI, OH	
	Deployment of buoys	12, 11, 101, OT	
Streamside Salamander	Use of vessels	IN, OH	
	Deployment of buoys Use of aircraft		<u> </u>
Wood Turtle	Deployment of buoys	MI, MN, OH, WI	
Spec	ial considerations needed, high	n level of concern	
Decurrent False Aster	Natural attenuation	IL	
	Natural attenuation		
Hall's Bulrush	Locating, sampling, and	IL, IN, MI, OH, WI	
	monitoring air, land, and		
	water		
	Natural attenuation		
Michigan Monkey Flower	Locating, sampling, and	MI	
-	monitoring air, land, and water		
	Natural attenuation		
	Locating, sampling, and		
Minnesota Dwarf Trout Lily	monitoring air, land, and	MN	
	water		
Northern Wild Monkshood	Natural attenuation	OH, WI	

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	Locating, sampling, and monitoring air, land, and water		
Running Buffalo Clover	Natural attenuation Locating, sampling, and monitoring air, land, and water	IN, OH	
Short's Bladderpod Critical Habitat	Natural attenuation Locating, sampling, and monitoring air, land, and water	IN	
Clubshell	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, IN, MI, OH	
Fanshell	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, IN, OH	
Fat Pocketbook	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, IN	
Higgins' Eye Pearlymussel	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, MN, WI	
Longsolid	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, IN, OH	
Northern Riffleshell	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, IN, MI, OH	
Orangefoot Pimpleback	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL	
Pink Mucket	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, IN, OH	
Pyramid (Pink) Pigtoe	Natural attenuation Locating, sampling, and monitoring air, land, and water	ОН	
Rabbitsfoot Critical Habitat	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, IN, OH	
Rayed Bean	Natural attenuation Locating, sampling, and monitoring air, land, and water	IN, MI, OH	
Rough Pigtoe	Natural attenuation Locating, sampling, and monitoring air, land, and water	IN	
Round Hickorynut	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, IN, MI, OH	
Salamander Mussel	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, IN, MI, MN, OH, WI	
Scaleshell	Natural attenuation	IL	

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	Locating, sampling, and monitoring air, land, and water		
Sheepnose	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, IN, MN, OH, WI	
Snuffbox	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, IN, MI, OH, WI	
Spectaclecase	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, MN, WI	
Winged Mapleleaf	Natural attenuation Locating, sampling, and monitoring air, land, and water	MN, WI	
Illinois Cave Amphipod	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL	
Hungerford's Crawling Water Beetle	Natural attenuation Locating, sampling, and monitoring air, land, and water	MI	
Linda's Roadside Skipper	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL	
Monarch Butterfly	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, IN, MI, MN, OH, WI	
Regal Fritillary	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, IN, MI, MN, OH, WI	
Rusty Patched Bumble Bee	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, IN, MN, OH, WI	
Lake Sturgeon	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, IN, MI, MN, OH, WI	
Pallid Sturgeon	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL	
Popeye Shiner	Natural attenuation Locating, sampling, and monitoring air, land, and water	ОН	
Scioto Madtom	Natural attenuation Locating, sampling, and monitoring air, land, and water	ОН	
Sicklefin Chub	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL	
Sturgeon Chub	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL	
Topeka Shiner Critical Habitat	Natural attenuation	MN	

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	Locating, sampling, and monitoring air, land, and water		
Alligator Snapping Turtle	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, IN	
Blanding's Turtle	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, IN, MI, OH, WI	
Spotted Turtle	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, IN, MI, OH	
Streamside Salamander	Natural attenuation Locating, sampling, and monitoring air, land, and water	IN, OH	
Wood Turtle	Natural attenuation Locating, sampling, and monitoring air, land, and water	MI, MN, OH, WI	
Gray Bat	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, IN	
Tricolored Bat	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, IN, MI, MN, OH, WI	
Piping Plover Critical Habitat	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, IN, MI, MN, OH, WI	
Rufa Red Knot	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, IN, MI, MN, OH, WI	
	Waste Management Ac	tivities	
Species	Specific Activity	States of Occurrence	BMPs ¹
May affect, likel	y to adversely affect - discuss	possible BMPs with Se	ervices
Clubshell	Temporary storage (on water)	IL, IN, MI, OH	
Fanshell	Temporary storage (on water)	IL, IN, OH	
Fat Pocketbook	Temporary storage (on water)	IL, IN	
Higgins' Eye Pearlymussel	Temporary storage (on water)	IL, MN, WI	
Longsolid	Temporary storage (on water)	IL, IN, OH	
Northern Riffleshell	Temporary storage (on water)	IL, IN, MI, OH	
Orangefoot Pimpleback	Temporary storage (on water)	IL	
Pink Mucket	Temporary storage (on water)	IL, IN, OH	
Pyramid (Pink) Pigtoe	Temporary storage (on water)	OH	
Rabbitsfoot Critical Habitat	Temporary storage (on water)	IL, IN, OH	
Rayed Bean	Temporary storage (on water)	IN, MI, OH	
Rough Pigtoe	Temporary storage (on water)	IN	

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Round Hickorynut	Temporary storage (on water)	IL, IN, MI, OH	
Salamander Mussel	Temporary storage (on water)	IL, IN, MI, MN, OH, WI	
Scaleshell	Temporary storage (on water)	IL	
Sheepnose	Temporary storage (on water)	IL, IN, MN, OH, WI	
Snuffbox	Temporary storage (on	IL, IN, MI, OH, WI	
Spectaclecase	water) Temporary storage (on	IL, MN, WI	
Winged Mapleleaf	water) Temporary storage (on	MN, WI	
Popeye Shiner	water) Decanting	ОН	
Scioto Madtom	Decanting	ОН	
Topeka Shiner			
Critical Habitat	Decanting	MN	
	adversely affect due to implem	entation of BMPs to m	inimize impact
Decurrent False Aster	Temporary storage (on land) Decontamination	IL	
Hall's Bulrush	Waste handling Temporary storage (on land) Decontamination	IL, IN, MI, OH, WI	
Michigan Monkey Flower	Waste handling Temporary storage (on land) Decontamination	MI	
Minnesota Dwarf Trout Lily	Temporary storage (on land) Decontamination	MN	
Northern Wild Monkshood	Temporary storage (on land) Decontamination	OH, WI	
Running Buffalo Clover	Temporary storage (on land) Decontamination	IN, OH	
Short's Bladderpod Critical Habitat	Temporary storage (on land) Decontamination	IN	
Tennessee Pondweed	Waste handling Temporary storage (on water) Temporary storage (on land) Decanting Decontamination	ОН	
Virginia Spiraea	Waste handling Temporary storage (on water) Temporary storage (on land) Decanting Decontamination	ОН	
Hungerford's Crawling Water Beetle	Decanting	MI	
Linda's Roadside Skipper	Temporary storage (on land) Decontamination	IL	
Monarch Butterfly	Temporary storage (on land) Decontamination	IL, IN, MI, MN, OH, WI	
Regal Fritillary	Temporary storage (on land) Decontamination	IL, IN, MI, MN, OH, WI	
Rusty Patched Bumble Bee	Temporary storage (on land)	IL, IN, MN, OH, WI	

	Decontamination		
Lake Sturgeon	Decanting	IL, IN, MI, MN,	
Pallid Sturgeon	Decanting	OH, WI	
Sicklefin Chub	Decanting	IL IL	
Sturgeon Chub	Decanting	IL IL	
Alligator Snapping Turtle	Temporary storage (on water) Temporary storage (on land) Decanting Decontamination	IL, IN	
Blanding's Turtle	Temporary storage (on land) Decanting Decontamination	IL, IN, MI, OH, WI	
Illinois Chorus Frog	Waste handling Temporary storage (on water) Temporary storage (on land) Decanting Decontamination	IL	
Spotted Turtle	Temporary storage (on land) Decanting Decontamination	IL, IN, MI, OH	
Streamside Salamander	Waste handling Temporary storage (on land) Decanting Decontamination	IN, OH	
Wood Turtle	Temporary storage (on land) Decanting Decontamination	MI, MN, OH, WI	
Gray Bat	Temporary storage (on land) Decontamination	IL, IN	
Tricolored Bat	Temporary storage (on land) Decontamination	IL, IN, MI, MN, OH, WI	
Piping Plover Critical Habitat	Temporary storage (on water) Temporary storage (on land) Decanting Decontamination	IL, IN, MI, MN, OH, WI	
Rufa Red Knot	Temporary storage (on water) Temporary storage (on land) Decanting Decontamination	IL, IN, MI, MN, OH, WI	
May affect, not likel	y to adversely affect due to ins	ignificant or discountal	ole effects
Decurrent False Aster	Waste handling	IL	
	Temporary storage (on	IL, IN, MI, OH, WI	
Hall's Bulrush	water)	,,,,	
Hall's Bulrush Michigan Monkey Flower	water) Temporary storage (on water)	MI	
	water) Temporary storage (on		
Michigan Monkey Flower Minnesota Dwarf Trout Lily Northern Wild Monkshood	water) Temporary storage (on water) Waste handling Waste handling	MI	
Michigan Monkey Flower Minnesota Dwarf Trout Lily Northern Wild Monkshood Running Buffalo Clover	water) Temporary storage (on water) Waste handling	MI	
Michigan Monkey Flower Minnesota Dwarf Trout Lily Northern Wild Monkshood	water) Temporary storage (on water) Waste handling Waste handling	MI MN OH, WI	
Michigan Monkey Flower Minnesota Dwarf Trout Lily Northern Wild Monkshood Running Buffalo Clover Short's Bladderpod	water) Temporary storage (on water) Waste handling Waste handling Waste handling	MI MN OH, WI IN, OH	

Fet Deskethesk	Maste herelling	II INI	
Fat Pocketbook Higgins' Eye Pearlymussel	Waste handling Waste handling	IL, IN IL, MN, WI	
Longsolid	Waste handling	IL, IN, OH	
Northern Riffleshell	Waste handling	IL, IN, MI, OH	
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Orangefoot Pimpleback	Waste handling	IL	
Pink Mucket	Waste handling	IL, IN, OH	
Pyramid (Pink) Pigtoe	Waste handling	ОН	
Rabbitsfoot Critical Habitat	Waste handling	IL, IN, OH	
Rayed Bean	Waste handling	IN, MI, OH	
Rough Pigtoe	Waste handling	IN	
Round Hickorynut	Waste handling	IL, IN, MI, OH	
Salamander Mussel	Waste handling	IL, IN, MI, MN, OH, WI	
Scaleshell	Waste handling	IL	
Sheepnose	Waste handling	IL, IN, MN, OH,	
Snuffbox	Ŭ	UI IL, IN, MI, OH, WI	
Spectaclecase	Waste handling Waste handling	IL, IN, MI, OH, WI	
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Winged Mapleleaf	Waste handling	MN, WI	
Illinois Cave Amphipod	Waste handling Temporary storage (on water)	IL	
Hungerford's Crawling Water Beetle	Waste handling Temporary storage (on water)	MI	
Linda's Roadside Skipper	Waste handling	IL	
Monarch Butterfly	Waste handling	IL, IN, MI, MN, OH, WI	
Regal Fritillary	Waste handling	IL, IN, MI, MN, OH, WI	
Rusty Patched Bumble Bee	Waste handling	IL, IN, MN, OH, WI	
Lake Sturgeon	Waste handling Temporary storage (on water)	IL, IN, MI, MN, OH, WI	
Pallid Sturgeon	Waste handling Temporary storage (on water)	IL	
Popeye Shiner	Waste handling Temporary storage (on water)	ОН	
Scioto Madtom	Waste handling Temporary storage (on water)	ОН	
Sicklefin Chub	Waste handling Temporary storage (on water)	IL	
Sturgeon Chub	Waste handling Temporary storage (on water)	IL	
Topeka Shiner Critical Habitat	Waste handling Temporary storage (on water)	MN	
Alligator Snapping Turtle	Waste handling	IL, IN	
Blanding's Turtle	Waste handling Temporary storage (on water)	IL, IN, MI, OH, WI	

Spotted Turtle	Waste handling Temporary storage (on water)	IL, IN, MI, OH	
Streamside Salamander	Temporary storage (on water)	IN, OH	
Wood Turtle	Waste handling Temporary storage (on water)	MI, MN, OH, WI	
Gray Bat	Waste handling	IL, IN	
Tricolored Bat	Waste handling	IL, IN, MI, MN, OH, WI	
Piping Plover Critical Habitat	Waste handling	IL, IN, MI, MN, OH, WI	
Rufa Red Knot	Waste handling	IL, IN, MI, MN, OH, WI	

Bays and Estuaries

	Response Actions and Activities Associated Vulnerable I	Habitats:	
Beach and Sar	d Bar, Rooted Floating Aquatics, (Deflection and Containmer		
Species	Specific Activity	States of Occurrence	BMPs ¹
May affect,	likely to adversely affect - discuss	possible BMPs with Se	ervices
Northern Riffleshell	Booming Dikes or berms Construction barriers, dams, pits, and trenches	IL, IN, MI, OH	
May affect, not likel	y to adversely affect due to implen	nentation of BMPs to m	inimize impact
Clubshell	Booming Dikes or berms Construction barriers, dams, pits, and trenches	IL, IN, MI, OH	
Rayed Bean	Booming Dikes or berms Construction barriers, dams, pits, and trenches	IN, MI, OH	
Round Hickorynut	Booming Dikes or berms Construction barriers, dams, pits, and trenches	IL, IN, MI, OH	
Salamander Mussel	Booming Dikes or berms Construction barriers, dams, pits, and trenches	IL, IN, MI, MN, OH, WI	
Snuffbox	Booming Dikes or berms Construction barriers, dams, pits, and trenches	IL, IN, MI, OH, WI	
Lake Sturgeon	Booming Dikes or berms Construction barriers, dams, pits, and trenches	IL, IN, MI, MN, OH, WI	
Blanding's Turtle	Booming Construction barriers, dams, pits, and trenches	IL, IN, MI, MN, OH, WI	
Spotted Turtle	Booming Construction barriers, dams, pits, and trenches	IL, IN, MI, OH	
Piping Plover Critical Habitat	Booming Dikes or berms Construction barriers, dams, pits, and trenches	IL, IN, MI, MN, OH, WI	
Rufa Red Knot	Dikes or berms Construction barriers, dams, pits, and trenches	IL, IN, MI, MN, OH, WI	
May affect, not	likely to adversely affect due to ins		ble effects
Blanding's Turtle	Dikes or berms	IL, IN, MI, MN, OH, WI	
Spotted Turtle	Dikes or berms	IL, IN, MI, OH	
Rufa Red Knot	Booming	IL, IN, MI, MN, OH, WI	
	Recovery Activitie		
Species	Specific Activity	States of Occurrence	BMPs
May affect,	likely to adversely affect - discuss	possible BMPs with Se	ervices
Northern Riffleshell	Skimming Vacuuming Sorbents	IL, IN, MI, OH	

May affect, not likely to	adversely affect due to implem	entation of BMPs to r	ninimize impact
Clubshell	Skimming Vacuuming Sorbents	IL, IN, MI, OH	
Rayed Bean	Skimming Vacuuming Sorbents	IN, MI, OH	
Round Hickorynut	Skimming Vacuuming Sorbents	IL, IN, MI, OH	
Salamander Mussel	Skimming Vacuuming Sorbents	IL, IN, MI, MN, OH, WI	
Snuffbox	Skimming Vacuuming Sorbents	IL, IN, MI, OH, WI	
Lake Sturgeon	Skimming Vacuuming	IL, IN, MI, MN, OH, WI	
Blanding's Turtle	Skimming Vacuuming Sorbents	IL, IN, MI, MN, OH, WI	
Spotted Turtle	Skimming Vacuuming Sorbents	IL, IN, MI, OH	
Piping Plover Critical Habitat	Skimming Vacuuming Sorbents	IL, IN, MI, MN, OH, WI	
Rufa Red Knot	Sorbents	IL, IN, MI, MN, OH, WI	
May affect, not like	y to adversely affect due to ins	ignificant or discounta	able effects
Rufa Red Knot	Skimming Vacuuming	IL, IN, MI, MN, OH, WI	
	Removal/Cleanup Act	ivities	
Species	Specific Activity	States of Occurrence	BMPs ¹
May affect, likel	y to adversely affect - discuss	possible BMPs with S	Services
Northern Riffleshell	Flooding Manual removal/cleaning of oil	IL, IN, MI, OH	
May affect, not likely to	adversely affect due to implem	entation of BMPs to r	minimize impact
Clubshell	Flooding Manual removal/cleaning of oil	IL, IN, MI, OH	
Rayed Bean	Flooding Manual removal/cleaning of oil	IN, MI, OH	
Round Hickorynut	Flooding Manual removal/cleaning of oil	IL, IN, MI, OH	
Salamander Mussel	Flooding Manual removal/cleaning of oil	IL, IN, MI, MN, OH, WI	
Snuffbox	Flooding Manual removal/cleaning of oil	IL, IN, MI, OH, WI	
Lake Sturgeon	Flooding	IL, IN, MI, MN, OH, WI	
Blanding's Turtle	Manual removal/cleaning of oil	IL, IN, MI, MN, OH, WI	
Spotted Turtle	Manual removal/cleaning of oil	IL, IN, MI, OH	
Piping Plover Critical Habitat	Flooding Mechanical sand cleaning (<1 inch and >1 inch)	IL, IN, MI, MN, OH, WI	

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	Manual removal/cleaning of oil		
Rufa Red Knot	Flooding Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil	IL, IN, MI, MN, OH, WI	
May affect, not like	ly to adversely affect due to ins	ignificant or discounta	ible effects
Blanding's Turtle	Flooding Mechanical sand cleaning (<1 inch and >1 inch)	IL, IN, MI, MN, OH, WI	
Spotted Turtle	Flooding Mechanical sand cleaning (<1 inch and >1 inch)	IL, IN, MI, OH	
	Submerged Oil Activ	rities	
Species	Specific Activity	States of Occurrence	BMPs ¹
May affect, like	ly to adversely affect - discuss	ł	ervices
	Detection of non-		
Northern Riffleshell	floating/submerged oil Recovery of non- floating/submerged oil Containment of non- floating/submerged oil	IL, IN, MI, OH	
May affect not likely to	adversely affect due to implem	entation of BMPs to n	ninimize impact
Clubshell	Detection of non- floating/submerged oil Recovery of non- floating/submerged oil Containment of non- floating/submerged oil	IL, IN, MI, OH	
Rayed Bean	Detection of non- floating/submerged oil Recovery of non- floating/submerged oil Containment of non- floating/submerged oil	IN, MI, OH	
Round Hickorynut	Detection of non- floating/submerged oil Recovery of non- floating/submerged oil Containment of non- floating/submerged oil	IL, IN, MI, OH	
Salamander Mussel	Detection of non- floating/submerged oil Recovery of non- floating/submerged oil Containment of non- floating/submerged oil	IL, IN, MI, MN, OH, WI	
Snuffbox	Detection of non- floating/submerged oil Recovery of non- floating/submerged oil Containment of non- floating/submerged oil	IL, IN, MI, OH, WI	
Lake Sturgeon	Detection of non- floating/submerged oil Recovery of non- floating/submerged oil Containment of non- floating/submerged oil	IL, IN, MI, MN, OH, WI	
Blanding's Turtle	Detection of non- floating/submerged oil Recovery of non- floating/submerged oil	IL, IN, MI, MN, OH, WI	

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	Containment of non-		
	floating/submerged oil Detection of non-		
	floating/submerged oil		
	Recovery of non-		
Spotted Turtle	floating/submerged oil	IL, IN, MI, OH	
	Containment of non-		
	floating/submerged oil		
	Detection of non-		
Piping Plover	floating/submerged oil	IL, IN, MI, MN,	
Critical Habitat	Recovery of non- floating/submerged oil	OH, WI	
	Detection of non-		
	floating/submerged oil	IL, IN, MI, MN,	
Rufa Red Knot	Recovery of non-	OH, WI	
	floating/submerged oil		
	Wildlife Protection Ac	tivities	
Species	Specific Activity	States of	BMPs ¹
Species	Specific Activity	Occurrence	DIVIPS
May affect, not likely	to adversely affect due to implen	nentation of BMPs to n	ninimize impact
Lake Sturgeon	Deterrence and hazing	IL, IN, MI, MN, OH, WI	
Dianalia a'a Tuatia	Capture and care of	IL, IN, MI, MN,	
Blanding's Turtle	contaminated species	OH, WI	
Spotted Turtle	Capture and care of contaminated species	IL, IN, MI, OH	
	Deterrence and hazing		
Piping Plover	Capture and care of	IL, IN, MI, MN,	
Critical Habitat	contaminated species	OH, WI	
	Deterrence and hazing	IL, IN, MI, MN,	
		IL, IIN, IVII, IVIIN,	
Rufa Red Knot	Capture and care of	OH WI	
	contaminated species	OH, WI	
		significant or discounta	able effects
	contaminated species	significant or discounta	ble effects
May affect, not lik	contaminated species kely to adversely affect due to ins	significant or discounta	ble effects
May affect, not lik Blanding's Turtle	contaminated species kely to adversely affect due to ins Deterrence and hazing Deterrence and hazing	significant or discounta IL, IN, MI, MN, OH, WI IL, IN, MI, OH	able effects
May affect, not lik Blanding's Turtle	contaminated species kely to adversely affect due to ins Deterrence and hazing	significant or discounta IL, IN, MI, MN, OH, WI IL, IN, MI, OH port Activities	ble effects
May affect, not lik Blanding's Turtle	contaminated species kely to adversely affect due to ins Deterrence and hazing Deterrence and hazing	significant or discounta IL, IN, MI, MN, OH, WI IL, IN, MI, OH	BMPs ¹
May affect, not lik Blanding's Turtle Spotted Turtle Species	contaminated species kely to adversely affect due to ins Deterrence and hazing Deterrence and hazing Locating, Tracking, and Supp	significant or discounta IL, IN, MI, MN, OH, WI IL, IN, MI, OH Port Activities States of Occurrence	BMPs ¹
May affect, not lik Blanding's Turtle Spotted Turtle Species	contaminated species kely to adversely affect due to ins Deterrence and hazing Deterrence and hazing Locating, Tracking, and Support Specific Activity	significant or discounta IL, IN, MI, MN, OH, WI IL, IN, MI, OH Port Activities States of Occurrence	BMPs ¹
May affect, not lik Blanding's Turtle Spotted Turtle Species May affect, lik Northern Riffleshell	contaminated species kely to adversely affect due to instance Deterrence and hazing Deterrence and hazing Locating, Tracking, and Supp Specific Activity kely to adversely affect – discuss	significant or discounta IL, IN, MI, MN, OH, WI IL, IN, MI, OH port Activities States of Occurrence possible BMPs with S IL, IN, MI, OH	BMPs ¹ ervices
May affect, not lik Blanding's Turtle Spotted Turtle Species May affect, lik Northern Riffleshell	contaminated species kely to adversely affect due to instruction Deterrence and hazing Deterrence and hazing Locating, Tracking, and Support Specific Activity kely to adversely affect – discuss Deployment of buoys	significant or discounta IL, IN, MI, MN, OH, WI IL, IN, MI, OH port Activities States of Occurrence possible BMPs with S IL, IN, MI, OH	BMPs ¹
May affect, not likely between the second se	contaminated species kely to adversely affect due to ins Deterrence and hazing Deterrence and hazing Locating, Tracking, and Supperstructure Specific Activity kely to adversely affect – discuss Deployment of buoys to adversely affect due to implement	significant or discounta IL, IN, MI, MN, OH, WI IL, IN, MI, OH port Activities States of Occurrence possible BMPs with S IL, IN, MI, OH IL, IN, MI, OH	BMPs ¹ ervices
May affect, not likely of Clubshell	contaminated species kely to adversely affect due to instant Deterrence and hazing Deterrence and hazing Locating, Tracking, and Support Specific Activity kely to adversely affect – discuss Deployment of buoys to adversely affect due to implent Deployment of buoys	significant or discounta IL, IN, MI, MN, OH, WI IL, IN, MI, OH port Activities States of Occurrence possible BMPs with S IL, IN, MI, OH IL, IN, MI, OH	BMPs ¹ ervices
May affect, not lik Blanding's Turtle Spotted Turtle Species May affect, lik Northern Riffleshell May affect, not likely Clubshell Rayed Bean	contaminated species kely to adversely affect due to ins Deterrence and hazing Deterrence and hazing Locating, Tracking, and Supper Specific Activity kely to adversely affect – discuss Deployment of buoys Deployment of buoys Deployment of buoys Deployment of buoys	significant or discounta IL, IN, MI, MN, OH, WI IL, IN, MI, OH port Activities States of Occurrence possible BMPs with S IL, IN, MI, OH IL, IN, MI, OH	BMPs ¹ ervices
May affect, not lik Blanding's Turtle Spotted Turtle Species May affect, lik Northern Riffleshell May affect, not likely to Clubshell Rayed Bean Round Hickorynut Salamander Mussel	contaminated species kely to adversely affect due to ins Deterrence and hazing Deterrence and hazing Locating, Tracking, and Support Specific Activity kely to adversely affect – discuss Deployment of buoys	significant or discounta IL, IN, MI, MN, OH, WI IL, IN, MI, OH port Activities States of Occurrence possible BMPs with S IL, IN, MI, OH IL, IN, MI, OH	BMPs ¹ ervices
May affect, not lik Blanding's Turtle Spotted Turtle Species May affect, lik Northern Riffleshell May affect, not likely to Clubshell Rayed Bean Round Hickorynut Salamander Mussel Snuffbox	contaminated species contaminated spe	significant or discounta IL, IN, MI, MN, OH, WI IL, IN, MI, OH port Activities States of Occurrence possible BMPs with S IL, IN, MI, OH IL, IN, MI, OH	BMPs ¹
May affect, not lik Blanding's Turtle Spotted Turtle Species May affect, lik Northern Riffleshell May affect, not likely to Clubshell Rayed Bean Round Hickorynut Salamander Mussel	contaminated species kely to adversely affect due to inside the second	significant or discounta IL, IN, MI, MN, OH, WI IL, IN, MI, OH port Activities States of Occurrence possible BMPs with S IL, IN, MI, OH IL, IN, MI, OH, WI IL, IN, MI, OH, WI	BMPs ¹
May affect, not lik Blanding's Turtle Spotted Turtle Species May affect, lik Northern Riffleshell May affect, not likely to Clubshell Rayed Bean Round Hickorynut Salamander Mussel Snuffbox	contaminated species kely to adversely affect due to instance Deterrence and hazing Deterrence and hazing Locating, Tracking, and Supple Specific Activity kely to adversely affect – discuss Deployment of buoys Use of vessels Deployment of buoys	significant or discounta IL, IN, MI, MN, OH, WI IL, IN, MI, OH port Activities States of Occurrence possible BMPs with S IL, IN, MI, OH IL, IN, MI, OH, WI IL, IN, MI, MN,	BMPs ¹
May affect, not lik Blanding's Turtle Spotted Turtle Species May affect, lik Northern Riffleshell May affect, not likely to Clubshell Rayed Bean Round Hickorynut Salamander Mussel Snuffbox	contaminated species kely to adversely affect due to instance Deterrence and hazing Deterrence and hazing Locating, Tracking, and Supplication Specific Activity kely to adversely affect – discuss Deployment of buoys to adversely affect due to implent Deployment of buoys Use of vessels Deployment of buoys Use of vessels Use of vessels Use of vessels Use of vessels	significant or discounta IL, IN, MI, MN, OH, WI IL, IN, MI, OH port Activities States of Occurrence possible BMPs with S IL, IN, MI, OH IL, IN, MI, OH, WI IL, IN, MI, MN,	BMPs ¹
May affect, not lik Blanding's Turtle Spotted Turtle Species May affect, lik Northern Riffleshell May affect, not likely to Clubshell Rayed Bean Round Hickorynut Salamander Mussel Snuffbox	contaminated species kely to adversely affect due to instance Deterrence and hazing Deterrence and hazing Locating, Tracking, and Supplication Specific Activity kely to adversely affect – discuss Deployment of buoys Use of vessels Deployment of buoys Use of vessels	significant or discounta IL, IN, MI, MN, OH, WI IL, IN, MI, OH port Activities States of Occurrence possible BMPs with S IL, IN, MI, OH IL, IN, MI, OH, WI IL, IN, MI, MN,	BMPs ¹ ervices
May affect, not lik Blanding's Turtle Spotted Turtle Species May affect, lik Northern Riffleshell May affect, not likely to Clubshell Rayed Bean Round Hickorynut Salamander Mussel Snuffbox	contaminated species kely to adversely affect due to instant Deterrence and hazing Deterrence and hazing Locating, Tracking, and Supplication Specific Activity kely to adversely affect – discuss Deployment of buoys to adversely affect due to implent Deployment of buoys Use of vessels Deployment of buoys Use of vessels Use of vessels Use of vessels Use of machinery/supporting	significant or discounta IL, IN, MI, MN, OH, WI IL, IN, MI, OH port Activities States of Occurrence possible BMPs with S IL, IN, MI, OH IL, IN, MI, OH, WI IL, IN, MI, MN,	BMPs ¹ ervices
May affect, not lik Blanding's Turtle Spotted Turtle Species May affect, lik Northern Riffleshell May affect, not likely to Clubshell Rayed Bean Rayed Bean Round Hickorynut Salamander Mussel Snuffbox Lake Sturgeon	contaminated species kely to adversely affect due to instant Deterrence and hazing Deterrence and hazing Locating, Tracking, and Supple Specific Activity kely to adversely affect – discuss Deployment of buoys to adversely affect due to implent Deployment of buoys Use of vessels Deployment of buoys Use of vessels Use of vessels Use of vessels Use of machinery/supporting equipment	significant or discounta IL, IN, MI, MN, OH, WI IL, IN, MI, OH port Activities States of Occurrence possible BMPs with S IL, IN, MI, OH IL, IN, MI, OH WI IL, IN, MI, OH, WI IL, IN, M	BMPs ¹
May affect, not lik Blanding's Turtle Spotted Turtle Species May affect, lik Northern Riffleshell May affect, not likely to Clubshell Rayed Bean Round Hickorynut Salamander Mussel Snuffbox	contaminated species kely to adversely affect due to instant Deterrence and hazing Deterrence and hazing Locating, Tracking, and Supplication Specific Activity kely to adversely affect – discuss Deployment of buoys to adversely affect due to implent Deployment of buoys Use of vessels Deployment of buoys Use of vessels Use of vessels Use of vessels Use of machinery/supporting	significant or discounta IL, IN, MI, MN, OH, WI IL, IN, MI, OH port Activities States of Occurrence possible BMPs with S IL, IN, MI, OH IL, IN, MI, OH, WI IL, IN, MI, MN,	BMPs ¹
May affect, not lik Blanding's Turtle Spotted Turtle Species May affect, lik Northern Riffleshell May affect, not likely to Clubshell Rayed Bean Rayed Bean Round Hickorynut Salamander Mussel Snuffbox Lake Sturgeon	contaminated species kely to adversely affect due to instant Deterrence and hazing Deterrence and hazing Locating, Tracking, and Supply Specific Activity kely to adversely affect – discuss Deployment of buoys to adversely affect due to implent Deployment of buoys Use of vessels Deployment of buoys Use of vessels Use of vessels Use of vessels Use of use of machinery/supporting equipment Creation/use of new	significant or discounta IL, IN, MI, MN, OH, WI IL, IN, MI, OH port Activities States of Occurrence possible BMPs with S IL, IN, MI, OH IL, IN, MI, OH WI IL, IN, MI, OH, WI IL, IN, M	BMPs ¹ ervices
May affect, not lik Blanding's Turtle Spotted Turtle Species May affect, lik Northern Riffleshell May affect, not likely to Clubshell Rayed Bean Rayed Bean Round Hickorynut Salamander Mussel Snuffbox Lake Sturgeon	contaminated species kely to adversely affect due to inside the second	significant or discounta IL, IN, MI, MN, OH, WI IL, IN, MI, OH port Activities States of Occurrence possible BMPs with S IL, IN, MI, OH IL, IN, MI, OH WI IL, IN, MI, OH, WI IL, IN, M	BMPs ¹ ervices
May affect, not lik Blanding's Turtle Spotted Turtle Species May affect, lik Northern Riffleshell May affect, not likely to Clubshell Rayed Bean Rayed Bean Round Hickorynut Salamander Mussel Snuffbox Lake Sturgeon	contaminated species kely to adversely affect due to inside the service of t	significant or discounta IL, IN, MI, MN, OH, WI IL, IN, MI, OH port Activities States of Occurrence possible BMPs with S IL, IN, MI, OH IL, IN, MI, OH WI IL, IN, MI, OH, WI IL, IN, M	BMPs ¹
May affect, not lik Blanding's Turtle Spotted Turtle Species May affect, lik Northern Riffleshell May affect, not likely to Clubshell Rayed Bean Rayed Bean Round Hickorynut Salamander Mussel Snuffbox Lake Sturgeon	contaminated species kely to adversely affect due to inside the second	significant or discounta IL, IN, MI, MN, OH, WI IL, IN, MI, OH port Activities States of Occurrence possible BMPs with S IL, IN, MI, OH IL, IN, MI, OH WI IL, IN, MI, OH, WI IL, IN, M	BMPs ¹

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	Use of machinery/supporting		
	equipment Creation/use of new		
	access points		
	Creation/use of staging		
	areas Access of personnel by		
	foot traffic		
	Use of aircraft		
	Use of vessels Use of vehicles		
	Use of		
Piping Plover	machinery/supporting equipment	IL, IN, MI, MN,	
Critical Habitat	Creation/use of new	OH, WI	
	access points		
	Creation/use of staging areas		
	Deployment of buoys		
	Use of aircraft		
	Use of vessels Use of vehicles		
	Use of		
	machinery/supporting	IL, IN, MI, MN,	
Rufa Red Knot	equipment Creation/use of new	OH, WI	
	access points		
	Creation/use of staging		
	areas Deployment of buoys		
May affect, not like	ly to adversely affect due to ins	significant or discounta	able effects
Blanding's Turtle	Use of aircraft Deployment of buoys	IL, IN, MI, OH, WI	
Spotted Turtle	Use of aircraft Deployment of buoys	IL, IN, MI, OH	
Spec	cial considerations needed, hig	h level of concern	
	Natural attenuation		
Clubshell	Locating, sampling, and	IL, IN, MI, OH	
	monitoring air, land, and water		
	Natural attenuation		
Northern Riffleshell	Locating, sampling, and monitoring air, land, and	IL, IN, MI, OH	
	water		
	Natural attenuation		
Rayed Bean	Locating, sampling, and monitoring air, land, and	IN, MI, OH	
	water		
	Natural attenuation		
Round Hickorynut	Locating, sampling, and monitoring air, land, and	IL, IN, MI, OH	
	water		
	Natural attenuation		
Salamander Mussel	Locating, sampling, and monitoring air, land, and	IL, IN, MI, MN, OH, WI	
	water	011, 111	
	Natural attenuation		
Snuffbox	Locating, sampling, and monitoring air, land, and	IL, IN, MI, OH, WI	
	water		
	Natural attenuation		
Lake Sturgeon	Natural attenuation Locating, sampling, and	IL, IN, MI, MN,	
Lake Sturgeon	Natural attenuation	IL, IN, MI, MN, OH, WI	

Spotted Turtle Piping Plover	Locating, sampling, and monitoring air, land, and water Natural attenuation Locating, sampling, and monitoring air, land, and water Natural attenuation Locating, sampling, and	IL, IN, MI, OH	
Critical Habitat	monitoring air, land, and water Natural attenuation	OH, WI	
Rufa Red Knot	Locating, sampling, and monitoring air, land, and water	IL, IN, MI, MN, OH, WI	
	Waste Management Ac		
Species	Specific Activity	States of Occurrence	BMPs ¹
May affect, not likely to	adversely affect due to implem	entation of BMPs to n	ninimize impact
Lake Sturgeon	Decanting	IL, IN, MI, MN, OH, WI	
Blanding's Turtle	Temporary storage (on land) Decanting Decontamination	IL, IN, MI, OH, WI	
Spotted Turtle	Temporary storage (on land) Decanting Decontamination	IL, IN, MI, OH	
Piping Plover Critical Habitat	Temporary storage (on land) Decanting Decontamination	IL, IN, MI, MN, OH, WI	
Rufa Red Knot	Temporary storage (on land) Decanting Decontamination	IL, IN, MI, MN, OH, WI	
· · · · · · · · · · · · · · · · · · ·	ly to adversely affect due to ins		ble effects
Clubshell	Waste handling	IL, IN, MI, OH	
Northern Riffleshell	Waste handling	IL, IN, MI, OH	
Rayed Bean	Waste handling	IN, MI, OH	
Round Hickorynut Salamander Mussel	Waste handling Waste handling	IL, IN, MI, OH IL, IN, MI, MN, OH, WI	
Snuffbox	Waste handling	IL, IN, MI, OH, WI	
Lake Sturgeon	Waste handling	IL, IN, MI, MN, OH, WI	
Blanding's Turtle	Waste handling Temporary storage (on water)	IL, IN, MI, OH, WI	
Spotted Turtle	Waste handling Temporary storage (on water)	IL, IN, MI, OH	
Piping Plover Critical Habitat	Waste handling	IL, IN, MI, MN, OH, WI	
Rufa Red Knot	Waste handling	IL, IN, MI, MN, OH, WI	

Ponds and Lakes

High-Risk Response Actions and Activities in PONDS AND LAKES (INLAND)

Associated Vulnerable Habitats: Beach and Sand Bar, Deep Marsh Vegetation (Annuals, Perennials, Shrubs), Floodplain Forest, Mudflats, Open Water, Rooted Floating Aquatics, Sedge Meadow, Shallow Marsh Vegetation (Annuals, Perennials, Shrubs), and Submersed Vegetation

	Deflection and Containment	t Activities	
Species	Specific Activity	States of Occurrence	BMPs ¹
May affect, like	ly to adversely affect - discuss p	oossible BMPs with Se	ervices
Clubshell	Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	IL, IN, MI, OH	
Fanshell	Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	IL, IN, OH	
Fat Pocketbook	Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	IL, IN	
Higgins' Eye Pearlymussel	Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	IL, MN, WI	
Longsolid	Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	IL, IN, OH	
Northern Riffleshell	Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	IL, IN, MI, OH	
Orangefoot Pimpleback	Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	IL	
Pink Mucket	Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	IL, IN, OH	
Pyramid (Pink) Pigtoe	Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	ОН	
Rabbitsfoot Critical Habitat	Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	IL, IN, OH	
Rayed Bean	Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	IN, MI, OH	
Rough Pigtoe	Booming Dikes or berms	IN	

Construction barriers,		
dams, pits, and trenches		
Culvert blocking		
Booming Dileas an barres		
0		
	IL, IN, MI, MN,	
	OH, WI	
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	WI	
	IL IN MLOH WI	
	II MN WI	
Construction barriers,	MN, WI	
dams, pits, and trenches		
dams, pits, and trenches Culvert blocking		
dams, pits, and trenches Culvert blocking Booming		
dams, pits, and trenches Culvert blocking Booming Dikes or berms	MN	
dams, pits, and trenches Culvert blocking Booming Dikes or berms Construction barriers,		
dams, pits, and trenches Culvert blocking Booming Dikes or berms Construction barriers, dams, pits, and trenches	MN	inimize impact
dams, pits, and trenches Culvert blocking Booming Dikes or berms Construction barriers, dams, pits, and trenches dversely affect due to implem	MN	inimize impact
dams, pits, and trenches Culvert blocking Booming Dikes or berms Construction barriers, dams, pits, and trenches dversely affect due to implem Booming	MN	inimize impact
dams, pits, and trenches Culvert blocking Booming Dikes or berms Construction barriers, dams, pits, and trenches dversely affect due to implem Booming Dikes or berms	MN entation of BMPs to m	inimize impact
dams, pits, and trenches Culvert blocking Dikes or berms Construction barriers, dams, pits, and trenches dversely affect due to implem Booming Dikes or berms Construction barriers,	MN	inimize impact
dams, pits, and trenches Culvert blocking Dikes or berms Construction barriers, dams, pits, and trenches dversely affect due to implem Booming Dikes or berms Construction barriers, dams, pits, and trenches	MN entation of BMPs to m	inimize impact
dams, pits, and trenches <u>Culvert blocking</u> Dikes or berms Construction barriers, dams, pits, and trenches dversely affect due to implem Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	MN entation of BMPs to m	inimize impact
dams, pits, and trenches Culvert blocking Dikes or berms Construction barriers, dams, pits, and trenches dversely affect due to implem Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking Booming	MN entation of BMPs to m	inimize impact
dams, pits, and trenches Culvert blocking Dikes or berms Construction barriers, dams, pits, and trenches dversely affect due to implem Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking Dikes or berms	MN entation of BMPs to m WI	inimize impact
dams, pits, and trenches Culvert blocking Dikes or berms Construction barriers, dams, pits, and trenches dversely affect due to implem Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking Dikes or berms Construction barriers,	MN entation of BMPs to m	inimize impact
dams, pits, and trenches Culvert blocking Dikes or berms Construction barriers, dams, pits, and trenches dversely affect due to implem Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking Dikes or berms Construction barriers, dams, pits, and trenches	MN entation of BMPs to m WI	inimize impact
dams, pits, and trenches Culvert blocking Dikes or berms Construction barriers, dams, pits, and trenches dversely affect due to implem Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	MN entation of BMPs to m WI	inimize impact
dams, pits, and trenches Culvert blocking Dikes or berms Construction barriers, dams, pits, and trenches dversely affect due to implem Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking Dikes or berms Construction barriers, dams, pits, and trenches Construction barriers, dams, pits, and trenches Culvert blocking Booming	MN entation of BMPs to m WI	inimize impact
dams, pits, and trenches Culvert blocking Dikes or berms Construction barriers, dams, pits, and trenches dversely affect due to implem Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking Dikes or berms	MN entation of BMPs to m WI IL, IN, MI, OH, WI	inimize impact
dams, pits, and trenches Culvert blocking Dikes or berms Construction barriers, dams, pits, and trenches dversely affect due to implem Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking Dikes or berms Construction barriers,	MN entation of BMPs to m WI	inimize impact
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dams, pits, and trenches Culvert blocking Dikes or berms Construction barriers, dams, pits, and trenches dversely affect due to implem Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	MN entation of BMPs to m WI IL, IN, MI, OH, WI	inimize impact
dams, pits, and trenches Culvert blocking Dikes or berms Construction barriers, dams, pits, and trenches dversely affect due to implem Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking Booming	MN entation of BMPs to m WI IL, IN, MI, OH, WI	inimize impact
dams, pits, and trenches Culvert blocking Booming Dikes or berms Construction barriers, dams, pits, and trenches dversely affect due to implem Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking Booming Dikes or berms	MN entation of BMPs to m WI IL, IN, MI, OH, WI MI	inimize impact
dams, pits, and trenches Culvert blocking Dikes or berms Construction barriers, dams, pits, and trenches dversely affect due to implem Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	MN entation of BMPs to m WI IL, IN, MI, OH, WI	inimize impact
dams, pits, and trenches Culvert blocking Dikes or berms Construction barriers, dams, pits, and trenches dversely affect due to implem Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking Dikes or berms Construction barriers, dams, pits, and trenches	MN entation of BMPs to m WI IL, IN, MI, OH, WI MI	inimize impact
dams, pits, and trenches Culvert blocking Dikes or berms Construction barriers, dams, pits, and trenches dversely affect due to implem Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	MN entation of BMPs to m WI IL, IN, MI, OH, WI MI	inimize impact
dams, pits, and trenches Culvert blocking Dikes or berms Construction barriers, dams, pits, and trenches dversely affect due to implem Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking Booming	MN entation of BMPs to m WI IL, IN, MI, OH, WI MI	inimize impact
dams, pits, and trenches Culvert blocking Dikes or berms Construction barriers, dams, pits, and trenches dversely affect due to implem Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking Dikes or berms	MN entation of BMPs to m WI IL, IN, MI, OH, WI IL, IN, MI, WI	inimize impact
dams, pits, and trenches Culvert blocking Dikes or berms Construction barriers, dams, pits, and trenches dversely affect due to implem Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking Booming	MN entation of BMPs to m WI IL, IN, MI, OH, WI MI	inimize impact
-	Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking Dikes or berms	Dikes or berms Construction barriers, dams, pits, and trenches Culvert blockingIL, IN, MI, OHBooming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blockingIL, IN, MI, MN, OH, WIBooming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blockingIL, IN, MI, MN, OH, WIBooming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blockingILBooming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blockingIL, IN, MN, OH, WIBooming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blockingIL, IN, MN, OH, WIBooming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blockingIL, IN, MI, OH, WIBooming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blockingIL, IN, MI, OH, WIBooming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blockingIL, MN, WIBooming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blockingIL, MN, WI

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Alligator Snapping Turtle	Booming Construction barriers, dams, pits, and trenches	IL, IN	
Blanding's Turtle	Booming Dikes or berms Construction barriers, dams, pits, and trenches	IL, IN, MI, MN, OH, WI	
Copperbelly Watersnake, Northern DPS	Dikes or berms	IN, MI, OH	
Eastern Massasauga	Dikes or berms	IL, IN, MI, OH, WI	
Illinois Chorus Frog	Booming Dikes or berms Construction barriers, dams, pits, and trenches	IL	
Spotted Turtle	Booming Dikes or berms Construction barriers, dams, pits, and trenches	IL, IN, MI, OH	
Piping Plover Critical Habitat	Booming Dikes or berms Construction barriers, dams, pits, and trenches	IL, IN, MI, MN, OH, WI	
Rufa Red Knot	Dikes or berms Construction barriers, dams, pits, and trenches	IL, IN, MI, MN, OH, WI	
May affect, not likely	y to adversely affect due to insi	ignificant or discountal	ble effects
Alligator Snapping Turtle	Dikes or berms	IL, IN	
Gray Bat	Booming Dikes or berms Construction barriers, dams, pits, and trenches	IL, IN	
Tricolored Bat	Booming Dikes or berms Construction barriers, dams, pits, and trenches	IL, IN, MI, MN, OH, WI	
Rufa Red Knot	Booming	IL, IN, MI, MN, OH, WI	
	Recovery Activitie	•	
Species	Specific Activity	States of Occurrence	BMPs
May affect, likely	/ to adversely affect - discuss p		ervices
Clubshell	Skimming Vacuuming Sorbents	IL, IN, MI, OH	
Fanshell	Skimming Vacuuming Sorbents	IL, IN, OH	
Fat Pocketbook	Skimming Vacuuming Sorbents	IL, IN	
Higgins' Eye Pearlymussel	Skimming Vacuuming Sorbents	IL, MN, WI	
Longsolid	Skimming Vacuuming Sorbents	IL, IN, OH	
Northern Riffleshell	Skimming Vacuuming Sorbents	IL, IN, MI, OH	
Orangefoot Pimpleback	Skimming Vacuuming Sorbents	IL	
Pink Mucket	Skimming Vacuuming Sorbents	IL, IN, OH	
Pyramid (Pink) Pigtoe	Skimming Vacuuming	ОН	

	Sorbents		
Rabbitsfoot	Skimming		
Critical Habitat	Vacuuming Sorbents	IL, IN, OH	
	Skimming		
Rayed Bean	Vacuuming	IN, MI, OH	
-	Sorbents		
	Skimming		
Rough Pigtoe	Vacuuming	IN	
	Sorbents		
Round Hickorynut	Skimming Vacuuming	IL, IN, MI, OH	
rtound motorynut	Sorbents		
	Skimming		
Salamander Mussel	Vacuuming	IL, IN, MI, MN, OH, WI	
	Sorbents	011, 111	
0	Skimming		
Scaleshell	Vacuuming Sorbents	IL	
	Skimming		
Sheepnose	Vacuuming	IL, IN, MN, OH,	
	Sorbents	WI	
	Skimming		
Snuffbox	Vacuuming	IL, IN, MI, OH, WI	
	Sorbents		
Sportaciona	Skimming Vacuuming	IL, MN, WI	
Spectaclecase	Sorbents	IL, IVIIN, VVI	
	Skimming		
Winged Mapleleaf	Vacuuming	MN, WI	
	Sorbents		
Topeka Shiner	Skimming	MN	
Critical Habitat	Vacuuming		
May affect, not likely to a	adversely affect due to impl Vacuuming	ementation of BMPs to m	inimize impact
Fassett's Locoweed	Sorbents	WI	
	Skimming		
Hall's Bulrush	Vacuuming	IL, IN, MI, OH, WI	
	vaouunning		
	Sorbents	, , , , - ,	
	Sorbents Skimming		
Houghton's Goldenrod	Sorbents Skimming Vacuuming	MI	
	Sorbents Skimming Vacuuming Sorbents	MI	
Houghton's Goldenrod Lake Sturgeon	Sorbents Skimming Vacuuming Sorbents Skimming	MI IL, IN, MI, MN,	
	Sorbents Skimming Vacuuming Sorbents Skimming Vacuuming	MI	
	Sorbents Skimming Vacuuming Sorbents Skimming	MI IL, IN, MI, MN,	
Lake Sturgeon	Sorbents Skimming Vacuuming Sorbents Skimming Vacuuming Skimming Vacuuming Sorbents	MI IL, IN, MI, MN, OH, WI	
Lake Sturgeon Alligator Snapping Turtle	Sorbents Skimming Vacuuming Sorbents Skimming Vacuuming Skimming Vacuuming Sorbents Skimming	MI IL, IN, MI, MN, OH, WI IL, IN	
Lake Sturgeon	Sorbents Skimming Vacuuming Sorbents Skimming Vacuuming Skimming Sorbents Skimming Vacuuming	MI IL, IN, MI, MN, OH, WI	
Lake Sturgeon Alligator Snapping Turtle	Sorbents Skimming Vacuuming Sorbents Skimming Vacuuming Skimming Sorbents Skimming Vacuuming Sorbents	MI IL, IN, MI, MN, OH, WI IL, IN IL, IN, MI, MN,	
Lake Sturgeon Alligator Snapping Turtle Blanding's Turtle	Sorbents Skimming Vacuuming Sorbents Skimming Vacuuming Sorbents Skimming Vacuuming Sorbents Skimming Sorbents Skimming	MI IL, IN, MI, MN, OH, WI IL, IN IL, IN IL, IN, MI, MN, OH, WI	
Lake Sturgeon Alligator Snapping Turtle	Sorbents Skimming Vacuuming Sorbents Skimming Vacuuming Skimming Sorbents Skimming Vacuuming Sorbents	MI IL, IN, MI, MN, OH, WI IL, IN IL, IN, MI, MN,	
Lake Sturgeon Alligator Snapping Turtle Blanding's Turtle	Sorbents Skimming Vacuuming Sorbents Skimming Vacuuming Sorbents Skimming Vacuuming Sorbents Skimming Vacuuming Sorbents Skimming Vacuuming	MI IL, IN, MI, MN, OH, WI IL, IN IL, IN IL, IN, MI, MN, OH, WI	
Lake Sturgeon Alligator Snapping Turtle Blanding's Turtle	Sorbents Skimming Vacuuming Sorbents Skimming Vacuuming Vacuuming Sorbents Skimming Vacuuming Sorbents Skimming Vacuuming Sorbents Skimming Vacuuming Sorbents	MI IL, IN, MI, MN, OH, WI IL, IN IL, IN IL, IN, MI, MN, OH, WI	
Lake Sturgeon Alligator Snapping Turtle Blanding's Turtle Illinois Chorus Frog	Sorbents Skimming Vacuuming Sorbents Skimming Vacuuming Vacuuming Sorbents Skimming Vacuuming Sorbents Skimming Vacuuming Sorbents Skimming Vacuuming Sorbents	MI IL, IN, MI, MN, OH, WI IL, IN IL, IN, MI, MN, OH, WI IL	
Lake Sturgeon Alligator Snapping Turtle Blanding's Turtle Illinois Chorus Frog	Sorbents Skimming Vacuuming Sorbents Skimming Vacuuming Vacuuming Sorbents Skimming Vacuuming Sorbents Skimming Vacuuming Sorbents Skimming Vacuuming Sorbents Skimming Vacuuming Sorbents Skimming Sorbents	MI IL, IN, MI, MN, OH, WI IL, IN IL, IN, MI, MN, OH, WI IL	
Lake Sturgeon Alligator Snapping Turtle Blanding's Turtle Illinois Chorus Frog Spotted Turtle	Sorbents Skimming Vacuuming Sorbents Skimming Vacuuming Sorbents Skimming Vacuuming Sorbents Skimming Vacuuming Sorbents Skimming Vacuuming Sorbents Skimming Vacuuming Sorbents Skimming Vacuuming Sorbents Skimming Vacuuming	MI IL, IN, MI, MN, OH, WI IL, IN IL, IN, MI, MN, OH, WI IL IL	
Lake Sturgeon Alligator Snapping Turtle Blanding's Turtle Illinois Chorus Frog Spotted Turtle Piping Plover <i>Critical Habitat</i>	Sorbents Skimming Vacuuming Sorbents Skimming Vacuuming Sorbents Skimming Vacuuming Sorbents Skimming Vacuuming Sorbents Skimming Vacuuming Sorbents Skimming Vacuuming Sorbents Skimming Vacuuming Sorbents Skimming Vacuuming Sorbents	MI IL, IN, MI, MN, OH, WI IL, IN IL, IN, MI, MN, OH, WI IL IL, IN, MI, OH IL, IN, MI, MN, OH, WI	
Lake Sturgeon Alligator Snapping Turtle Blanding's Turtle Illinois Chorus Frog Spotted Turtle Piping Plover	Sorbents Skimming Vacuuming Sorbents Skimming Vacuuming Sorbents Skimming Vacuuming Sorbents Skimming Vacuuming Sorbents Skimming Vacuuming Sorbents Skimming Vacuuming Sorbents Skimming Vacuuming Sorbents Skimming Vacuuming	MI IL, IN, MI, MN, OH, WI IL, IN IL, IN, MI, MN, OH, WI IL IL IL, IN, MI, OH IL, IN, MI, MN,	
Lake Sturgeon Alligator Snapping Turtle Blanding's Turtle Illinois Chorus Frog Spotted Turtle Piping Plover Critical Habitat Rufa Red Knot	Sorbents Skimming Vacuuming Sorbents Skimming Vacuuming Sorbents Skimming Vacuuming Sorbents Skimming Vacuuming Sorbents Skimming Vacuuming Sorbents Skimming Vacuuming Sorbents Skimming Vacuuming Sorbents Skimming Vacuuming Sorbents	MI IL, IN, MI, MN, OH, WI IL, IN IL, IN, MI, MN, OH, WI IL IL, IN, MI, OH IL, IN, MI, MN, OH, WI IL, IN, MI, MN, OH, WI	Leffects
Lake Sturgeon Alligator Snapping Turtle Blanding's Turtle Illinois Chorus Frog Spotted Turtle Piping Plover <i>Critical Habitat</i> Rufa Red Knot May affect, not likely	Sorbents Skimming Vacuuming Sorbents Skimming Vacuuming Sorbents Skimming Vacuuming Sorbents Skimming Vacuuming Sorbents Skimming Vacuuming Sorbents Skimming Vacuuming Sorbents Skimming Vacuuming Sorbents Skimming Vacuuming Sorbents Skimming Vacuuming Sorbents Skimming Vacuuming Sorbents Skimming	MI IL, IN, MI, MN, OH, WI IL, IN IL, IN, MI, MN, OH, WI IL IL, IN, MI, OH IL, IN, MI, MN, OH, WI IL, IN, MI, MN, OH, WI IL, IN, MI, MN, OH, WI	ble effects
Lake Sturgeon Alligator Snapping Turtle Blanding's Turtle Illinois Chorus Frog Spotted Turtle Piping Plover Critical Habitat Rufa Red Knot	Sorbents Skimming Vacuuming Sorbents Skimming Vacuuming Vacuuming Sorbents Skimming Vacuuming Sorbents (to adversely affect due to Skimming Vacuuming Vacuuming Vacuuming Vacuuming Vacuuming Vacuuming Sorbents (to adversely affect due to Skimming Vacuuming Vacuuming Vacuuming Vacuuming Vacuuming Vacuuming Sorbents Sorbents Sorbents	MI IL, IN, MI, MN, OH, WI IL, IN IL, IN, MI, MN, OH, WI IL IL, IN, MI, OH IL, IN, MI, MN, OH, WI IL, IN, MI, MN, OH, WI	ble effects
Lake Sturgeon Alligator Snapping Turtle Blanding's Turtle Illinois Chorus Frog Spotted Turtle Piping Plover <i>Critical Habitat</i> Rufa Red Knot May affect, not likely	Sorbents Skimming Vacuuming Sorbents Skimming Vacuuming Vacuuming Sorbents Skimming Vacuuming Sorbents Skimming Vacuuming Sorbents Skimming Vacuuming Sorbents Skimming Vacuuming Sorbents (to adversely affect due to Skimming Vacuuming Sorbents Skimming Vacuuming Sorbents Skimming Vacuuming Sorbents Sorbents Sorbents Sorbents	MI IL, IN, MI, MN, OH, WI IL, IN IL, IN, MI, MN, OH, WI IL IL, IN, MI, OH IL, IN, MI, MN, OH, WI IL, IN, MI, MN, OH, WI IL, IN, MI, MN, OH, WI IL, IN	ble effects
Lake Sturgeon Alligator Snapping Turtle Blanding's Turtle Illinois Chorus Frog Spotted Turtle Piping Plover <i>Critical Habitat</i> Rufa Red Knot May affect, not likely	Sorbents Skimming Vacuuming Sorbents Skimming Vacuuming Vacuuming Sorbents Skimming Vacuuming Sorbents (to adversely affect due to Skimming Vacuuming Vacuuming Vacuuming Vacuuming Vacuuming Vacuuming Sorbents (to adversely affect due to Skimming Vacuuming Vacuuming Vacuuming Vacuuming Vacuuming Vacuuming Sorbents Sorbents Sorbents	MI IL, IN, MI, MN, OH, WI IL, IN IL, IN, MI, MN, OH, WI IL IL, IN, MI, OH IL, IN, MI, MN, OH, WI IL, IN, MI, MN, OH, WI IL, IN, MI, MN, OH, WI	ble effects

	Sorbents		
Rufa Red Knot	Skimming Vacuuming	IL, IN, MI, MN, OH, WI	
	Removal/Cleanup Acti	vities	
Species	Specific Activity	States of Occurrence	BMPs ¹
May affect, likel	y to adversely affect - discuss p		ices
Clubshell	Flooding Flushing Steam cleaning Sandblasting Manual removal/cleaning of oil	IL, IN, MI, OH	
Fanshell	Flooding Flushing Steam cleaning Sandblasting Manual removal/cleaning of oil	IL, IN, OH	
Fat Pocketbook	Flooding Flushing Steam cleaning Sandblasting Manual removal/cleaning of oil	IL, IN	
Higgins' Eye Pearlymussel	Flooding Flushing Steam cleaning Sandblasting Manual removal/cleaning of oil	IL, MN, WI	
Longsolid	Flooding Flushing Steam cleaning Sandblasting Manual removal/cleaning of oil	IL, IN, OH	
Northern Riffleshell	Flooding Flushing Steam cleaning Sandblasting Manual removal/cleaning of oil	IL, IN, MI, OH	
Orangefoot Pimpleback	Flooding Flushing Steam cleaning Sandblasting Manual removal/cleaning of oil	IL	
Pink Mucket	Flooding Flushing Steam cleaning Sandblasting Manual removal/cleaning of oil	IL, IN, OH	
Pyramid (Pink) Pigtoe	Flooding Flushing Steam cleaning Sandblasting Manual removal/cleaning of oil	ОН	
Rabbitsfoot Critical Habitat	Flooding Flushing Steam cleaning Sandblasting Manual removal/cleaning of oil	IL, IN, OH	

Rayed Bean	Flooding Flushing Steam cleaning Sandblasting Manual removal/cleaning of oil	IN, MI, OH	
Rough Pigtoe	Flooding Flushing Steam cleaning Sandblasting Manual removal/cleaning of oil	IN	
Round Hickorynut	Flooding Flushing Steam cleaning Sandblasting Manual removal/cleaning of oil	IL, IN, MI, OH	
Salamander Mussel	Flooding Flushing Steam cleaning Sandblasting Manual removal/cleaning of oil	IL, IN, MI, MN, OH, WI	
Scaleshell	Flooding Flushing Steam cleaning Sandblasting Manual removal/cleaning of oil	IL	
Sheepnose	Flooding Flushing Steam cleaning Sandblasting Manual removal/cleaning of oil	IL, IN, MN, OH, WI	
Snuffbox	Flooding Flushing Steam cleaning Sandblasting Manual removal/cleaning of oil	IL, IN, MI, OH, WI	
Spectaclecase	Flooding Flushing Steam cleaning		
	Sandblasting Manual removal/cleaning of oil	IL, MN, WI	
Winged Mapleleaf	Manual removal/cleaning of oil Flooding Flushing Steam cleaning Sandblasting Manual removal/cleaning of oil	MN, WI	
Topeka Shiner Critical Habitat	Manual removal/cleaning of oil Flooding Flushing Steam cleaning Sandblasting Manual removal/cleaning of oil Flooding Flushing Steam cleaning Sandblasting	MN, WI MN	
Topeka Shiner Critical Habitat	Manual removal/cleaning of oil Flooding Flushing Steam cleaning Sandblasting Manual removal/cleaning of oil Flooding Flushing Steam cleaning Sandblasting dversely affect due to impleme	MN, WI MN	inimize impact
Topeka Shiner Critical Habitat	Manual removal/cleaning of oil Flooding Flushing Steam cleaning Sandblasting Manual removal/cleaning of oil Flooding Flushing Steam cleaning Sandblasting	MN, WI MN	inimize impact

	Sandblasting		
	Mechanical sand cleaning (<1 inch and >1 inch)		
	Manual removal/cleaning		
	of oil		
	Flooding Flushing Steam cleaning		
Houghton's Goldenrod	Sandblasting Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning	MI	
	of oil		
Hine's Emerald Dragonfly <i>Critical Habitat</i>	Flooding Flushing Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil	IL, MI, WI	
Lake Sturgeon	Flooding Flushing Steam cleaning Sandblasting	IL, IN, MI, MN, OH, WI	
Alligator Snapping Turtle	Steam cleaning Sandblasting Manual removal/cleaning of oil	IL, IN	
Blanding's Turtle	Steam cleaning Sandblasting Manual removal/cleaning of oil	IL, IN, MI, MN, OH, WI	
Illinois Chorus Frog	Flooding Flushing Steam cleaning Sandblasting Manual removal/cleaning of oil	IL	
Spotted Turtle	Steam cleaning Sandblasting Manual removal/cleaning of oil	IL, IN, MI, OH	
Gray Bat	Sandblasting	IL, IN	
Tricolored Bat	Sandblasting	IL, IN, MI, MN,	
	0	OH, WI	
Piping Plover Critical Habitat	Flooding Flushing Steam cleaning Sandblasting Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil	IL, IN, MI, MN, OH, WI	
Rufa Red Knot	Flooding Flushing Steam cleaning Sandblasting Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil	IL, IN, MI, MN, OH, WI	
May affect, not likely	to adversely affect due to insi	gnificant or discounta	ble effects
Fassett's Locoweed	Flooding	WI	
Alligator Snapping Turtle	Flushing	IL, IN	
	Ū.	IL, IN, MI, MN,	
Blanding's Turtle			
Blanding's Turtle	Flushing	OH, WI	
Blanding's Turtle Spotted Turtle	Flushing Flooding	OH, WI IL, IN, MI, OH	

		1	1
	Steam cleaning		
	Mechanical sand cleaning		
	(<1 inch and >1 inch)		
	Manual removal/cleaning		
	of oil Flooding		
	Flushing		
	Steam cleaning		
Tricolored Bat	Mechanical sand cleaning	IL, IN, MI, MN,	
Theolored Bat	(<1 inch and >1 inch)	OH, WI	
	Manual removal/cleaning		
	of oil		
	Submerged Oil Activi	itios	
		States of	
Species	Specific Activity	Occurrence	BMPs ¹
May affect, likely	/ to adversely affect - discuss p	ossible BMPs with Se	ervices
	Detection of non-		
	floating/submerged oil		
	Recovery of non-		
Clubshell	floating/submerged oil	IL, IN, MI, OH	
	Containment of non-		
	floating/submerged oil		
	Detection of non-	1	
	floating/submerged oil		
_	Recovery of non-		
Fanshell	floating/submerged oil	IL, IN, OH	
	Containment of non-		
	floating/submerged oil		
	Detection of non-		
	floating/submerged oil		
	Recovery of non-		
Fat Pocketbook	floating/submerged oil	IL, IN	
	Containment of non-		
	floating/submerged oil		
	Detection of non-		
	floating/submerged oil		
Higgins' Eye Pearlymussel	Recovery of non- floating/submerged oil	IL, MN, WI	
	Containment of non-		
	floating/submerged oil Detection of non-		1
	floating/submerged oil Recovery of non-		
Longsolid		IL, IN, OH	
-	floating/submerged oil Containment of non-		
	floating/submerged oil		1
	Detection of non-		
	floating/submerged oil		
Northern Riffleshell	Recovery of non-	IL, IN, MI, OH	
	floating/submerged oil Containment of non-		
	floating/submerged oil		
	Detection of non-		
	floating/submerged oil		
Orangefoot Pimpleback	Recovery of non-	IL	
0 · · · · · · · · · · · ·	floating/submerged oil		
	Containment of non-		
	floating/submerged oil		
	Detection of non-		
	floating/submerged oil		
Pink Mucket	Recovery of non-	IL, IN, OH	
	floating/submerged oil	12, 114, 011	
	Containment of non-		
	floating/submerged oil		
Pyramid (Pink) Pigtoe	Detection of non-	ОН	
	floating/submerged oil	0.1	1

		1	
	Recovery of non-		
	floating/submerged oil		
	Containment of non-		
	floating/submerged oil		
	Detection of non-		
	floating/submerged oil		
Rabbitsfoot	Recovery of non-	IL, IN, OH	
Critical Habitat	floating/submerged oil	IL, IN, OH	
	Containment of non-		
	floating/submerged oil		
	Detection of non-		
	floating/submerged oil		
	Recovery of non-		
Rayed Bean	floating/submerged oil	IN, MI, OH	
	Containment of non-		
	floating/submerged oil		
	Detection of non-		
	floating/submerged oil		
	Recovery of non-		
Rough Pigtoe	floating/submerged oil	IN	
	Containment of non-		
	floating/submerged oil		
	Detection of non-		
	floating/submerged oil		
Round Hickorynut	Recovery of non-	IL, IN, MI, OH	
, , , , , , , , , , , , , , , , , , ,	floating/submerged oil	, , , -	
	Containment of non-		
	floating/submerged oil		
	Detection of non-		
	floating/submerged oil		
Salamander Mussel	Recovery of non-	IL, IN, MI, MN,	
Salamanuel Wussel	floating/submerged oil	OH, WI	
	Containment of non-		
	floating/submerged oil		
	Detection of non-		
	floating/submerged oil		
	Recovery of non-		
Scaleshell	floating/submerged oil	IL	
	Containment of non-		
	floating/submerged oil		
	Detection of non-		
	floating/submerged oil		
	Recovery of non-	IL, IN, MN, OH,	
Sheepnose			
	floating/submerged oil Containment of non-	WI	
	floating/submerged oil		
	Detection of non-		
	floating/submerged oil		
Snuffbox	Recovery of non-	IL, IN, MI, OH, WI	
Shanbox	floating/submerged oil	,,,,,,	
	Containment of non-		
	floating/submerged oil		
	Detection of non-		
	floating/submerged oil		
Sportaclasses	Recovery of non-		
Spectaclecase	floating/submerged oil	IL, MN, WI	
	Containment of non-		
	floating/submerged oil		
	Detection of non-		1
	floating/submerged oil		
	Recovery of non-		
Winged Mapleleaf	floating/submerged oil	MN, WI	
-			
	Containment of non-		
	floating/submerged oil		
Taxalia Ol 1	Detection of non-		
Topeka Shiner	floating/submerged oil	MN	
Critical Habitat	Recovery of non-		
Ontical Habitat	floating/submerged oil		

	Containment of non-		
	floating/submerged oil		
May affect, not likely to a	adversely affect due to implem	entation of BMPs to m	inimize impact
	Recovery of non-		
Hall's Bulrush	floating/submerged oil	IL, IN, MI, OH, WI	
	Containment of non-		
	floating/submerged oil		
	Recovery of non-		
Houghton's Goldenrod	floating/submerged oil Containment of non-	MI	
	floating/submerged oil		
	Detection of non-		
	floating/submerged oil		
Laka Chumaan	Recovery of non-	IL, IN, MI, MN,	
Lake Sturgeon	floating/submerged oil	OH, WI	
	Containment of non-		
	floating/submerged oil		
	Detection of non-		
	floating/submerged oil		
Alligator Snapping Turtle	Recovery of non-	IL, IN	
, mgatar anapping rando	floating/submerged oil	,	
	Containment of non-		
	floating/submerged oil		
	Detection of non- floating/submerged oil		
	Recovery of non-	IL, IN, MI, MN,	
Blanding's Turtle	floating/submerged oil	OH, WI	
	Containment of non-		
	floating/submerged oil		
	Detection of non-		
	floating/submerged oil		
Illingia Chanus Fran	Recovery of non-		
Illinois Chorus Frog	floating/submerged oil	IL	
	Containment of non-		
	floating/submerged oil		
	Detection of non-		
	floating/submerged oil	IL, IN, MI, OH	
Spotted Turtle	Recovery of non-		
·	floating/submerged oil Containment of non-		
	floating/submerged oil		
	Detection of non-		
Piping Plover	floating/submerged oil	IL, IN, MI, MN,	
Critical Habitat	Recovery of non-	OH, WI	
	floating/submerged oil	- 1	
	Detection of non-		
Dute Ded Knot	floating/submerged oil	IL, IN, MI, MN,	
Rufa Red Knot	Recovery of non-	OH, WI	
	floating/submerged oil		
May affect, not likely	y to adversely affect due to ins	ignificant or discountat	ole effects
Liell'e Duimuch	Detection of non-		
Hall's Bulrush	floating/submerged oil	IL, IN, MI, OH, WI	
Houghton's Goldenrod	Detection of non-	MI	
Houghton's Goldeniod	floating/submerged oil	IVII	
	Wildlife Protection Act	ivities	
Species	Specific Activity	States of Occurrence	BMPs ¹
May affect, likely	/ to adversely affect - discuss	possible BMPs with Se	rvices
Topeka Shiner Critical Habitat	Deterrence and hazing	MN	
	adversely affect due to implem	entation of BMPs to m	inimize impact
		IL, IN, MI, MN,	
Lake Sturgeon	Deterrence and hazing Capture and care of	OH, WI	

Blanding's Turtle	Capture and care of	IL, IN, MI, MN,	
	contaminated species Capture and care of	OH, WI	
Illinois Chorus Frog	contaminated species	IL	
	Capture and care of		
Spotted Turtle	contaminated species	IL, IN, MI, OH	
	Deterrence and hazing		
Piping Plover	Capture and care of	IL, IN, MI, MN,	
Critical Habitat	contaminated species	OH, WI	
	Deterrence and hazing		
Rufa Red Knot	Capture and care of	IL, IN, MI, MN,	
	contaminated species	OH, WI	
May affect, not likely	y to adversely affect due to ins	ignificant or discountat	ole effects
	Deterrence and hazing		
Fassett's Locoweed	Capture and care of	WI	
	contaminated species		
	Deterrence and hazing		
Hall's Bulrush	Capture and care of	IL, IN, MI, OH, WI	
	contaminated species		
	Deterrence and hazing		
Houghton's Goldenrod	Capture and care of	MI	
-	contaminated species		
Alligator Snapping Turtle	Deterrence and hazing	IL, IN	
Planding's Turtle	Deterroped and hering	IL, IN, MI, MN,	
Blanding's Turtle	Deterrence and hazing	OH, WI	
Illinois Chorus Frog	Deterrence and hazing	IL	
Spotted Turtle	Deterrence and hazing	IL, IN, MI, OH	
	Deterrence and hazing	, , , , -	
	Capture and care of	IL, IN	
Grav Bat		IL, IN	
Gray Bat			
Gray Bat	contaminated species		
Gray Bat Tricolored Bat		IL, IN, MI, MN,	
·	contaminated species Deterrence and hazing	IL, IN, MI, MN, OH, WI	
Tricolored Bat	contaminated species Deterrence and hazing Capture and care of contaminated species	OH, WI	
Tricolored Bat	contaminated species Deterrence and hazing Capture and care of	OH, WI	
Tricolored Bat	contaminated species Deterrence and hazing Capture and care of contaminated species ocating, Tracking, and Supp	OH, WI ort Activities States of	BMPs ¹
Tricolored Bat	contaminated species Deterrence and hazing Capture and care of contaminated species ocating, Tracking, and Supp Specific Activity	OH, WI ort Activities States of Occurrence	BMPs ¹
Tricolored Bat	contaminated species Deterrence and hazing Capture and care of contaminated species ocating, Tracking, and Supp Specific Activity y to adversely affect - discuss	OH, WI ort Activities States of Occurrence	
Tricolored Bat	contaminated species Deterrence and hazing Capture and care of contaminated species ocating, Tracking, and Supp Specific Activity v to adversely affect - discuss Use of vessels	OH, WI ort Activities States of Occurrence	
Tricolored Bat	contaminated species Deterrence and hazing Capture and care of contaminated species ocating, Tracking, and Supp Specific Activity y to adversely affect - discuss Use of vessels Use of veshicles	OH, WI ort Activities States of Occurrence	
Tricolored Bat	contaminated species Deterrence and hazing Capture and care of contaminated species ocating, Tracking, and Supp Specific Activity y to adversely affect - discuss Use of vessels Use of vessels Deployment of buoys	OH, WI ort Activities States of Occurrence	
Tricolored Bat	contaminated species Deterrence and hazing Capture and care of contaminated species ocating, Tracking, and Supp Specific Activity y to adversely affect - discuss Use of vessels Use of vessels Deployment of buoys Use of vessels	OH, WI ort Activities States of Occurrence possible BMPs with Se IL, IN, MI, OH	
Tricolored Bat	contaminated species Deterrence and hazing Capture and care of contaminated species ocating, Tracking, and Supp Specific Activity to adversely affect - discuss of Use of vessels Use of vessels Deployment of buoys Use of vessels Use of vessels Use of vessels Use of vessels	OH, WI ort Activities States of Occurrence	
Tricolored Bat	contaminated species Deterrence and hazing Capture and care of contaminated species ocating, Tracking, and Supp Specific Activity to adversely affect - discuss of Use of vessels Use of vessels Deployment of buoys Use of vessels Use of vessels Use of vessels Use of vessels Deployment of buoys	OH, WI ort Activities States of Occurrence possible BMPs with Se IL, IN, MI, OH	
Tricolored Bat L Species May affect, likely Clubshell Fanshell	contaminated species Deterrence and hazing Capture and care of contaminated species ocating, Tracking, and Supp Specific Activity (to adversely affect - discuss) Use of vessels Use of vehicles Deployment of buoys Use of vessels Use of vehicles Deployment of buoys Use of vessels Use of vessels	OH, WI ort Activities States of Occurrence Dossible BMPs with Se IL, IN, MI, OH IL, IN, OH	
Tricolored Bat	contaminated species Deterrence and hazing Capture and care of contaminated species ocating, Tracking, and Supp Specific Activity (to adversely affect - discuss (Use of vessels Use of vehicles Deployment of buoys Use of vessels Use of vessels	OH, WI ort Activities States of Occurrence possible BMPs with Se IL, IN, MI, OH	
Tricolored Bat L Species May affect, likely Clubshell Fanshell	contaminated species Deterrence and hazing Capture and care of contaminated species ocating, Tracking, and Supp Specific Activity / to adversely affect - discuss (Use of vessels Use of vehicles Deployment of buoys Use of vessels Use of vehicles Deployment of buoys Use of vessels Use of vessels	OH, WI ort Activities States of Occurrence Dossible BMPs with Se IL, IN, MI, OH IL, IN, OH	
Tricolored Bat	contaminated species Deterrence and hazing Capture and care of contaminated species ocating, Tracking, and Supp Specific Activity / to adversely affect - discuss Use of vessels Use of vehicles Deployment of buoys Use of vessels Use of vehicles Deployment of buoys Use of vessels Use of vessels Use of vehicles Deployment of buoys Use of vessels Use of vehicles Deployment of buoys	OH, WI ort Activities States of Occurrence Dossible BMPs with Se IL, IN, MI, OH IL, IN, OH IL, IN, OH	
Tricolored Bat L Species May affect, likely Clubshell Fanshell	contaminated species Deterrence and hazing Capture and care of contaminated species ocating, Tracking, and Supp Specific Activity / to adversely affect - discuss Use of vessels Use of vessels Use of vehicles Deployment of buoys Use of vessels Use of vessels	OH, WI ort Activities States of Occurrence Dossible BMPs with Se IL, IN, MI, OH IL, IN, OH	
Tricolored Bat	contaminated species Deterrence and hazing Capture and care of contaminated species ocating, Tracking, and Supp Specific Activity / to adversely affect - discuss Use of vessels Use of vessels Use of vehicles Deployment of buoys Use of vehicles Deployment of buoys Use of vessels Use of vessels Use of vehicles Deployment of buoys Use of vessels Use of vessels Use of vessels Use of vessels Use of vessels Use of vessels Use of vehicles Deployment of buoys	OH, WI ort Activities States of Occurrence Dossible BMPs with Se IL, IN, MI, OH IL, IN, OH IL, IN, OH	
Tricolored Bat Species May affect, likely Clubshell Fanshell Fat Pocketbook Higgins' Eye Pearlymussel	contaminated species Deterrence and hazing Capture and care of contaminated species ocating, Tracking, and Supp Specific Activity / to adversely affect - discuss Use of vessels Use of vessels Use of vehicles Deployment of buoys Use of vehicles Deployment of buoys Use of vessels Use of vessels Use of vehicles Deployment of buoys Use of vessels Use of vessels Use of vessels Use of vessels Use of vehicles Deployment of buoys Use of vessels Use of vehicles Deployment of buoys Use of vessels Use of vehicles Deployment of buoys	OH, WI ort Activities States of Occurrence Dossible BMPs with Se IL, IN, MI, OH IL, IN, OH IL, IN, OH IL, IN	
Tricolored Bat	contaminated species Deterrence and hazing Capture and care of contaminated species ocating, Tracking, and Supp Specific Activity / to adversely affect - discuss Use of vessels Use of vessels Use of vehicles Deployment of buoys Use of vehicles Deployment of buoys Use of vessels Use of vessels Use of vessels Use of vessels Use of vessels Use of vessels Use of vehicles Deployment of buoys Use of vessels Use of vehicles Deployment of buoys Use of vessels Use of vehicles Deployment of buoys	OH, WI ort Activities States of Occurrence Dossible BMPs with Se IL, IN, MI, OH IL, IN, OH IL, IN, OH	
Tricolored Bat Species May affect, likely Clubshell Fanshell Fat Pocketbook Higgins' Eye Pearlymussel	contaminated species Deterrence and hazing Capture and care of contaminated species ocating, Tracking, and Supp Specific Activity y to adversely affect - discuss y Use of vessels Use of vessels Use of vehicles Deployment of buoys Use of vessels Use of vessels Use of vehicles Deployment of buoys Use of vessels Use of vessels	OH, WI ort Activities States of Occurrence Dossible BMPs with Se IL, IN, MI, OH IL, IN, OH IL, IN, OH IL, IN	
Tricolored Bat	contaminated species Deterrence and hazing Capture and care of contaminated species ocating, Tracking, and Supp Specific Activity y to adversely affect - discuss y Use of vessels Use of vessels Use of vehicles Deployment of buoys Use of vessels Use of vessels Use of vehicles Deployment of buoys Use of vessels Use of vehicles Deployment of buoys Use of vessels Use of vehicles Deployment of buoys Use of vessels Use of vessels	OH, WI ort Activities States of Occurrence Dossible BMPs with Se IL, IN, MI, OH IL, IN, OH IL, IN IL, IN, WI IL, IN, OH	
Tricolored Bat Species May affect, likely Clubshell Fanshell Fat Pocketbook Higgins' Eye Pearlymussel	contaminated species Deterrence and hazing Capture and care of contaminated species ocating, Tracking, and Supp Specific Activity y to adversely affect - discuss y Use of vessels Use of vehicles Deployment of buoys Use of vessels Use of vehicles Deployment of buoys Use of vehicles Deployment of buoys Use of vehicles Deployment of buoys Use of vessels Use of vehicles Deployment of buoys Use of vessels Use of vessels Use of vessels Use of vehicles Deployment of buoys Use of vessels Use of vehicles Deployment of buoys Use of vessels Use of vehicles Deployment of buoys	OH, WI ort Activities States of Occurrence Dossible BMPs with Se IL, IN, MI, OH IL, IN, OH IL, IN, OH IL, IN	
Tricolored Bat	contaminated species Deterrence and hazing Capture and care of contaminated species ocating, Tracking, and Supp Specific Activity y to adversely affect - discuss y Use of vessels Use of vehicles Deployment of buoys Use of vessels Use of vessels Use of vehicles Deployment of buoys Use of vessels Use of vehicles Deployment of buoys Use of vessels Use of vessels	OH, WI ort Activities States of Occurrence Dossible BMPs with Se IL, IN, MI, OH IL, IN, OH IL, IN IL, IN, WI IL, IN, OH	
Tricolored Bat	contaminated species Deterrence and hazing Capture and care of contaminated species ocating, Tracking, and Supp Specific Activity / to adversely affect - discuss (Use of vessels Use of vessels Use of vehicles Deployment of buoys Use of vessels Use of vehicles Deployment of buoys Use of vessels Use of vessels Use of vehicles Deployment of buoys Use of vessels Use of vessels	OH, WI ort Activities States of Occurrence Dossible BMPs with Se IL, IN, MI, OH IL, IN, OH IL, IN, WI IL, IN, OH IL, IN, OH	
Tricolored Bat	contaminated species Deterrence and hazing Capture and care of contaminated species ocating, Tracking, and Supp Specific Activity / to adversely affect - discuss (Use of vessels Use of vessels Use of vehicles Deployment of buoys Use of vessels Use of vessels	OH, WI ort Activities States of Occurrence Dossible BMPs with Se IL, IN, MI, OH IL, IN, OH IL, IN IL, IN, WI IL, IN, OH	
Tricolored Bat	contaminated species Deterrence and hazing Capture and care of contaminated species ocating, Tracking, and Supp Specific Activity / to adversely affect - discuss y Use of vessels Use of vessels Use of vehicles Deployment of buoys Use of vessels Use of vehicles Deployment of buoys Use of vessels Use of vessels Deployment of buoys	OH, WI ort Activities States of Occurrence Dossible BMPs with Se IL, IN, MI, OH IL, IN, OH IL, IN, WI IL, IN, OH IL, IN, OH	
Tricolored Bat Species May affect, likely Clubshell Fanshell Fat Pocketbook Higgins' Eye Pearlymussel Longsolid Northern Riffleshell Orangefoot Pimpleback	contaminated species Deterrence and hazing Capture and care of contaminated species ocating, Tracking, and Supp Specific Activity / to adversely affect - discuss (Use of vessels Use of vessels Use of vehicles Deployment of buoys Use of vehicles Deployment of buoys Use of vehicles Deployment of buoys Use of vessels Use of vessels	OH, WI ort Activities States of Occurrence Dossible BMPs with Se IL, IN, MI, OH IL, IN, OH IL, IN, WI IL, IN, WI IL, IN, OH IL, IN, OH IL, IN, OH	
Tricolored Bat	contaminated species Deterrence and hazing Capture and care of contaminated species ocating, Tracking, and Supp Specific Activity / to adversely affect - discuss y Use of vessels Use of vessels Use of vehicles Deployment of buoys Use of vessels Use of vehicles Deployment of buoys Use of vessels Use of vessels	OH, WI ort Activities States of Occurrence Dossible BMPs with Se IL, IN, MI, OH IL, IN, OH IL, IN, WI IL, IN, OH IL, IN, OH	
Tricolored Bat Species May affect, likely Clubshell Fanshell Fat Pocketbook Higgins' Eye Pearlymussel Longsolid Northern Riffleshell Orangefoot Pimpleback	contaminated species Deterrence and hazing Capture and care of contaminated species ocating, Tracking, and Supp Specific Activity / to adversely affect - discuss Use of vessels Use of vessels Use of vehicles Deployment of buoys Use of vehicles Deployment of buoys Use of vessels Use of vessels Use of vehicles Deployment of buoys Use of vessels Use of vessels	OH, WI ort Activities States of Occurrence Dossible BMPs with Se IL, IN, MI, OH IL, IN, OH IL, IN, WI IL, IN, WI IL, IN, OH IL, IN, OH IL, IN, OH	
Tricolored Bat Species May affect, likely Clubshell Fanshell Fat Pocketbook Higgins' Eye Pearlymussel Longsolid Northern Riffleshell Orangefoot Pimpleback Pink Mucket	contaminated species Deterrence and hazing Capture and care of contaminated species ocating, Tracking, and Supp Specific Activity / to adversely affect - discuss Use of vessels Use of vessels Use of vehicles Deployment of buoys Use of vehicles Deployment of buoys Use of vessels Use of vessels	OH, WI ort Activities States of Occurrence Dossible BMPs with Se IL, IN, MI, OH IL, IN, OH IL, IN, WI IL, IN, OH IL, IN, OH IL, IN, OH	
Tricolored Bat Species May affect, likely Clubshell Fanshell Fat Pocketbook Higgins' Eye Pearlymussel Longsolid Northern Riffleshell Orangefoot Pimpleback	contaminated species Deterrence and hazing Capture and care of contaminated species ocating, Tracking, and Supp Specific Activity / to adversely affect - discuss y Use of vessels Use of vessels Use of vehicles Deployment of buoys Use of vessels Use of vessels Use of vehicles Deployment of buoys Use of vessels Use of vehicles Deployment of buoys Use of vessels Use of vehicles Deployment of buoys Use of vessels Use of vessels Use of vessels Use of vessels Use of vehicles Deployment of buoys Use of vessels Use of vessels	OH, WI ort Activities States of Occurrence Dossible BMPs with Se IL, IN, MI, OH IL, IN, OH IL, IN, WI IL, IN, WI IL, IN, OH IL, IN, OH IL, IN, OH	
Tricolored Bat Species May affect, likely Clubshell Fanshell Fat Pocketbook Higgins' Eye Pearlymussel Longsolid Northern Riffleshell Orangefoot Pimpleback Pink Mucket	contaminated species Deterrence and hazing Capture and care of contaminated species ocating, Tracking, and Supp Specific Activity / to adversely affect - discuss Use of vessels Use of vessels Use of vehicles Deployment of buoys Use of vehicles Deployment of buoys Use of vessels Use of vessels	OH, WI ort Activities States of Occurrence Dossible BMPs with Se IL, IN, MI, OH IL, IN, OH IL, IN, WI IL, IN, OH IL, IN, OH IL, IN, OH	

	Doployment of hueve		[
	Deployment of buoys		
	Use of vessels		
Rayed Bean	Use of vehicles	IN, MI, OH	
	Deployment of buoys		
Dough Distoc	Use of vessels	INI	
Rough Pigtoe	Use of vehicles	IN	
	Deployment of buoys		
Dound Lliekonyout	Use of vessels		
Round Hickorynut	Use of vehicles	IL, IN, MI, OH	
	Deployment of buoys Use of vessels		
Salamander Mussel	Use of vehicles	IL, IN, MI, MN,	
Salamanuel Mussel	Deployment of buoys	OH, WI	
	Use of vessels		
Scaleshell	Use of vehicles	IL	
Scaleshell		IL.	
	Deployment of buoys Use of vessels		
Sheepnose	Use of vehicles	IL, IN, MN, OH,	
Sheephose	Deployment of buoys	WI	
	Use of vessels		
Snuffbox	Use of vehicles	IL, IN, MI, OH, WI	
Siluibox			
	Deployment of buoys		
Sportacionan	Use of vessels Use of vehicles		
Spectaclecase		IL, MN, WI	
	Deployment of buoys Use of vessels		
Wingod Montoloof	Use of vehicles		
Winged Mapleleaf		MN, WI	
Tanaka Shinar	Deployment of buoys		
Topeka Shiner	Use of vessels	MN	
Critical Habitat	Deployment of buoys		
May affect, not likely to	adversely affect due to implem	entation of BMPs to m	inimize impact
	Use of vehicles		
	Use of		
	machinery/supporting		
	equipment		
Fassett's Locoweed	Creation/use of new	WI	
1 dosett 5 E000weed	access points	**1	
	Creation/use of staging		
	areas		
	Access of personnel by		
	foot traffic		
	foot traffic Use of vehicles		
	foot traffic Use of vehicles Use of		
	foot traffic Use of vehicles Use of machinery/supporting		
	foot traffic Use of vehicles Use of machinery/supporting equipment		
Hall's Bulrush	foot traffic Use of vehicles Use of machinery/supporting equipment Creation/use of new		
Hall's Bulrush	foot traffic Use of vehicles Use of machinery/supporting equipment Creation/use of new access points	IL, IN, MI, OH, WI	
Hall's Bulrush	foot traffic Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of staging	IL, IN, MI, OH, WI	
Hall's Bulrush	foot traffic Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of staging areas	IL, IN, MI, OH, WI	
Hall's Bulrush	foot traffic Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Access of personnel by	IL, IN, MI, OH, WI	
Hall's Bulrush	foot traffic Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic	IL, IN, MI, OH, WI	
Hall's Bulrush	foot traffic Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic Use of vehicles	IL, IN, MI, OH, WI	
Hall's Bulrush	foot traffic Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic Use of vehicles Use of	IL, IN, MI, OH, WI	
Hall's Bulrush	foot traffic Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic Use of vehicles Use of machinery/supporting	IL, IN, MI, OH, WI	
Hall's Bulrush	foot traffic Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic Use of vehicles Use of machinery/supporting equipment	IL, IN, MI, OH, WI	
	foot traffic Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic Use of vehicles Use of machinery/supporting equipment Creation/use of new		
Hall's Bulrush Houghton's Goldenrod	foot traffic Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic Use of vehicles Use of machinery/supporting equipment Creation/use of new access points	IL, IN, MI, OH, WI	
	foot traffic Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of staging		
	foot traffic Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of staging areas		
	foot traffic Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of staging		
	foot traffic Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic		
Houghton's Goldenrod	foot traffic Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic Creation/use of new		
	foot traffic Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic	MI	
Houghton's Goldenrod	foot traffic Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic Creation/use of new access points Access of personnel by		
Houghton's Goldenrod Hine's Emerald Dragonfly	foot traffic Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic Creation/use of new access points Access of personnel by foot traffic	MI IL, MI, WI	
Houghton's Goldenrod Hine's Emerald Dragonfly	foot traffic Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic Creation/use of new access points Access of personnel by	MI	

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	Use of vessels		
	Use of vehicles		
	Use of		
	machinery/supporting		
	equipment		
Alligator Snapping Turtle	Creation/use of new	IL, IN	
	access points		
	Creation/use of staging		
	areas		
	Access of personnel by		
	foot traffic		
	Use of vessels		
	Use of vehicles		
	Use of		
	machinery/supporting		
	equipment		
Blanding's Turtle	Creation/use of new	IL, IN, MI, OH, WI	
Dianaing S Turtie	access points		
	Creation/use of staging		
	areas		
	Access of personnel by		
	foot traffic		
Copperbelly Watersnake, Northern	Access of personnel by	IN, MI, OH	
DPS	foot traffic		
Eastern Massasauga	Access of personnel by	IL, IN, MI, OH, WI	
	foot traffic		
	Use of vehicles		
	Use of		
	machinery/supporting		
	equipment		
	Creation/use of new		
Illinois Chorus Frog	access points	IL	
	Creation/use of staging		
	areas		
	Access of personnel by		
	foot traffic		
	Use of vessels		
	Use of vehicles		
	Use of		
Coattad Turtla	machinery/supporting		
Spotted Turtle	equipment	IL, IN, MI, OH	
	Creation/use of new		
	access points		
	Creation/use of staging		
	areas		
	Use of aircraft		
	Use of vessels		
	Use of vehicles		
	Use of		
Croy Bot	machinery/supporting	IL, IN	
Gray Bat	equipment	IL, IN	
	Creation/use of new		
	access points		
	Creation/use of staging		
	areas		
	Use of aircraft	1	
	Use of vessels		
	Use of vehicles		
	Use of		
	machinery/supporting	IL, IN, MI, MN,	
Tricolored Bat			
	equipment	OH, WI	
	Creation/use of new		
	access points		
	Creation/use of staging		
	areas		
Pipina Plover	Use of aircraft	IL. IN. MI. MN	
Piping Plover Critical Habitat		IL, IN, MI, MN, OH, WI	

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	Use of		
	machinery/supporting		
	equipment Creation/use of new		
	access points		
	Creation/use of staging		
	areas		
	Deployment of buoys		
	Use of aircraft		
	Use of vessels		
	Use of vehicles		
	Use of		
	machinery/supporting	IL, IN, MI, MN,	
Rufa Red Knot	equipment	OH, WI	
	Creation/use of new	0,	
	access points		
	Creation/use of staging areas		
	Deployment of buoys		
Mary offerst met likel		i unificant en discountel	
	y to adversely affect due to ins	-	
Alligator Snapping Turtle	Use of aircraft	IL, IN	
Blanding's Turtle	Use of aircraft	IL, IN, MI, OH, WI	
Illinois Chorus Frog	Use of vessels	IL	
Spotted Turtle	Use of aircraft	IL, IN, MI, OH	
Spec	ial considerations needed, higl	n level of concern	
	Natural attenuation		
E We have seen and	Locating, sampling, and	14/1	
Fassett's Locoweed	monitoring air, land, and	WI	
	water		
	Natural attenuation		
Hall's Bulrush	Locating, sampling, and	IL, IN, MI, OH, WI	
	monitoring air, land, and		
	water		
	Natural attenuation		
Houghton's Goldenrod	Locating, sampling, and monitoring air, land, and	MI	
	water		
	Natural attenuation		
Ohah ah all	Locating, sampling, and		
Clubshell	monitoring air, land, and	IL, IN, MI, OH	
	water		
	Natural attenuation		
Fanshell	Locating, sampling, and	IL, IN, OH	
	monitoring air, land, and	1 <u>, 11</u> , 11	
	water		
	Natural attenuation		
Fat Pocketbook	Locating, sampling, and	IL, IN	
	monitoring air, land, and water		
	Natural attenuation		
	Locating, sampling, and		
Higgins' Eye Pearlymussel	monitoring air, land, and	IL, MN, WI	
	water		
	Natural attenuation		
Longeolid	Locating, sampling, and		
Longsolid	monitoring air, land, and	IL, IN, OH	
	water		
	Natural attenuation		
Northern Riffleshell	Locating, sampling, and	IL, IN, MI, OH	
	monitoring air, land, and	, , , -	
	water		
	Natural attenuation Locating, sampling, and		
Orangefoot Pimpleback	monitoring air, land, and	IL	
	water		
Pink Mucket	Natural attenuation	IL, IN, OH	
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	Locating, sampling, and monitoring air, land, and water		
Pyramid (Pink) Pigtoe	Natural attenuation Locating, sampling, and monitoring air, land, and water	он	
Rabbitsfoot Critical Habitat	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, IN, OH	
Rayed Bean	Natural attenuation Locating, sampling, and monitoring air, land, and water	IN, MI, OH	
Rough Pigtoe	Natural attenuation Locating, sampling, and monitoring air, land, and water	IN	
Round Hickorynut	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, IN, MI, OH	
Salamander Mussel	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, IN, MI, MN, OH, WI	
Scaleshell	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL	
Sheepnose	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, IN, MN, OH, WI	
Snuffbox	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, IN, MI, OH, WI	
Spectaclecase	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, MN, WI	
Winged Mapleleaf	Natural attenuation Locating, sampling, and monitoring air, land, and water	MN, WI	
Hine's Emerald Dragonfly Critical Habitat	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, MI, WI	
Lake Sturgeon	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, IN, MI, MN, OH, WI	
Topeka Shiner Critical Habitat	Natural attenuation Locating, sampling, and monitoring air, land, and water	MN	
Alligator Snapping Turtle	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, IN	
Blanding's Turtle	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, IN, MI, OH, WI	
Illinois Chorus Frog	Natural attenuation	IL	

	Locating, sampling, and monitoring air, land, and water		
Spotted Turtle	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, IN, MI, OH	
Gray Bat	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, IN	
Tricolored Bat	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, IN, MI, MN, OH, WI	
Piping Plover Critical Habitat	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, IN, MI, MN, OH, WI	
Rufa Red Knot	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, IN, MI, MN, OH, WI	
	Waste Management Ac	tivities	
Species	Specific Activity	States of Occurrence	BMPs ¹
May affect, lik	ely to adversely affect - discuss	possible BMPs with Se	ervices
Clubshell	Temporary storage (on water)	IL, IN, MI, OH	
Fanshell	Temporary storage (on water)	IL, IN, OH	
Fat Pocketbook	Temporary storage (on water)	IL, IN	
Higgins' Eye Pearlymussel	Temporary storage (on water)	IL, MN, WI	
Longsolid	Temporary storage (on water)	IL, IN, OH	
Northern Riffleshell	Temporary storage (on water)	IL, IN, MI, OH	
Orangefoot Pimpleback	Temporary storage (on water)	IL	
Pink Mucket	Temporary storage (on water)	IL, IN, OH	
Pyramid (Pink) Pigtoe	Temporary storage (on water)	ОН	
Rabbitsfoot Critical Habitat	Temporary storage (on water)	IL, IN, OH	
Rayed Bean	Temporary storage (on water)	IN, MI, OH	
Rough Pigtoe	Temporary storage (on water)	IN	
Round Hickorynut	Temporary storage (on water)	IL, IN, MI, OH	
Salamander Mussel	Temporary storage (on water)	IL, IN, MI, MN, OH, WI	
Scaleshell	Temporary storage (on water)	IL	
Sheepnose	Temporary storage (on water)	IL, IN, MN, OH, WI	
Snuffbox	Temporary storage (on water)	IL, IN, MI, OH, WI	
Spectaclecase	Temporary storage (on water)	IL, MN, WI	
Winged Mapleleaf	Temporary storage (on	MN, WI	

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Fassett's Locoweed	Waste handling Temporary storage (on land)	WI	
	Decontamination		
Hall's Bulrush	Waste handling Temporary storage (on land)	IL, IN, MI, OH, WI	
Houghton's Goldenrod	Decontamination Waste handling Temporary storage (on land) Decontamination	MI	
Hine's Emerald Dragonfly Critical Habitat	Decanting Decontamination	IL, MI, WI	
Lake Sturgeon	Decanting	IL, IN, MI, MN, OH, WI	
Alligator Snapping Turtle	Temporary storage (on water) Temporary storage (on land) Decontamination	IL, IN	
Blanding's Turtle	Temporary storage (on land) Decontamination	IL, IN, MI, OH, WI	
Illinois Chorus Frog	Waste handling Temporary storage (on land) Decanting Decontamination	IL	
Spotted Turtle	Temporary storage (on land) Decontamination	IL, IN, MI, OH	
Gray Bat	Temporary storage (on land) Decontamination	IL, IN	
Tricolored Bat	Temporary storage (on land) Decontamination	IL, IN, MI, MN, OH, WI	
Piping Plover Critical Habitat	Temporary storage (on water) Temporary storage (on land) Decontamination	IL, IN, MI, MN, OH, WI	
Rufa Red Knot	Temporary storage (on water) Temporary storage (on land) Decontamination	IL, IN, MI, MN, OH, WI	
May affect, not likel	y to adversely affect due to ins	ignificant or discountal	ble effects
Hall's Bulrush	Temporary storage (on water)	IL, IN, MI, OH, WI	
Houghton's Goldenrod	Temporary storage (on water)	MI	
Clubshell	Waste handling	IL, IN, MI, OH	
Fanshell	Waste handling	IL, IN, OH	
Fat Pocketbook	Waste handling	IL, IN	
Higgins' Eye Pearlymussel	Waste handling	IL, MN, WI	
Longsolid	Waste handling	IL, IN, OH	
Northern Riffleshell Orangefoot Pimpleback	Waste handling Waste handling	IL, IN, MI, OH	
Pink Mucket Pyramid (Pink) Pigtoe	Waste handling Waste handling	IL, IN, OH OH	
Rabbitsfoot	Waste handling	IL, IN, OH	
Critical Habitat Rayed Bean	Waste handling	IN, MI, OH	
Nayeu Dean	waste nanuling		

	I	I	
Rough Pigtoe	Waste handling	IN	
Round Hickorynut	Waste handling	IL, IN, MI, OH	
Salamander Mussel	Waste handling	IL, IN, MI, MN, OH, WI	
Scaleshell	Waste handling	IL	
Sheepnose	Waste handling	IL, IN, MN, OH, WI	
Snuffbox	Waste handling	IL, IN, MI, OH, WI	
Spectaclecase	Waste handling	IL, MN, WI	
Winged Mapleleaf	Waste handling	MN, WI	
Hine's Emerald Dragonfly <i>Critical Habitat</i>	Waste handling	IL, MI, WI	
Lake Sturgeon	Waste handling Temporary storage (on water)	IL, IN, MI, MN, OH, WI	
Topeka Shiner Critical Habitat	Waste handling Temporary storage (on water)	MN	
Alligator Snapping Turtle	Waste handling	IL, IN	
Blanding's Turtle	Waste handling Temporary storage (on water)	IL, IN, MI, OH, WI	
Illinois Chorus Frog	Temporary storage (on water)	IL	
Spotted Turtle	Waste handling Temporary storage (on water)	IL, IN, MI, OH	
Gray Bat	Waste handling	IL, IN	
Tricolored Bat	Waste handling	IL, IN, MI, MN, OH, WI	
Piping Plover Critical Habitat	Waste handling	IL, IN, MI, MN, OH, WI	
Rufa Red Knot	Waste handling	IL, IN, MI, MN, OH, WI	

Wetlands

High-Risl	Response Actions and Acti	ivities in WETLANDS	
Bog, Calcareous Fen, Deep Marsh Vege Aquatics, Sedge Meadow, Shallow M		hrubs), Floodplain For	
	Deflection and Containmen	1 1	
Species	Specific Activity	States of Occurrence	BMPs ¹
	y to adversely affect - discuss p		rvices
Dwarf Lake Iris	Dikes or berms	MI, WI	
May affect, not likely to a	adversely affect due to implement Booming	entation of BMPs to mi	inimize impact
Decurrent False Aster	Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	IL	
Dwarf Lake Iris	Booming	MI, WI	
Eastern Prairie Fringed Orchid	Booming Construction barriers, dams, pits, and trenches Culvert blocking	IL, IN, MI, OH, WI	
Hall's Bulrush	Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	IL, IN, MI, OH, WI	
Houghton's Goldenrod	Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	MI	
Michigan Monkey Flower	Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	MI	
Tennessee Pondweed	Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	он	
Virginia Sneezeweed	Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	он	
Western Prairie Fringed Orchid	Booming Construction barriers, dams, pits, and trenches Culvert blocking	MN	
American Burying Beetle	Booming	MI, OH	
Bog Buckmoth	Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	WI	
Hine's Emerald Dragonfly <i>Critical Habitat</i>	Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	IL, MI, WI	
Linda's Roadside Skipper	Booming Dikes or berms Construction barriers, dams, pits, and trenches	IL	

	Culvert blocking		
	Booming		
	Dikes or berms		
Mitchell's Satyr Butterfly	Construction barriers,	IN, MI, OH	
, ,	dams, pits, and trenches	, ,	
	Culvert blocking		
	Booming		
	Dikes or berms	IL, IN, MI, MN,	
Monarch Butterfly	Construction barriers,	OH, WI	
	dams, pits, and trenches	,	
	Culvert blocking		
	Booming Dikes or berms		
Poweshiek Skipperling	Construction barriers,	MI, MN, WI	
Critical Habitat	dams, pits, and trenches	1011, 10114, 001	
	Culvert blocking		
	Booming		
	Dikes or berms	IL, IN, MI, MN,	
Regal Fritillary	Construction barriers,	OH, WI	
	dams, pits, and trenches		
	Culvert blocking		
	Booming		
Puety Databad Pumble Dec	Dikes or berms Construction barriers,	IL, IN, MN, OH,	
Rusty Patched Bumble Bee	dams, pits, and trenches	WI	
	Culvert blocking		
Planding's Turtla		IL, IN, MI, MN,	
Blanding's Turtle	Booming	OH, WI	
	Booming		
Copperbelly Watersnake, Northern DPS	Dikes or berms	IN, MI, OH	
DP3	Construction barriers, dams, pits, and trenches		
	Booming		
	Dikes or berms		
Eastern Massasauga	Construction barriers,	IL, IN, MI, OH, WI	
	dams, pits, and trenches		
	Booming		
Illinois Chorus Frog	Dikes or berms	IL	
niniois Onorus Prog	Construction barriers,	·	
	dams, pits, and trenches		
Spotted Turtle	Booming	IL, IN, MI, OH	
Wood Turtle	Booming	MI, MN, OH, WI	
Indiana Bat	Booming	IL, IN, MI, OH	
Northern Bog Lemming	Booming	MN	
Northern Long-Eared Bat	Booming	IL, IN, MI, MN,	
5	° °	OH, WI	
	Booming Dikes or berms		
Eastern Black Rail	Construction barriers,	IL, IN, MI, MN, OH, WI	
	dams, pits, and trenches		
	Booming		
	Dikes or berms	IL, IN, MI, MN,	
Golden-Winged Warbler	Construction barriers,	OH, WI	
	dams, pits, and trenches		
Whooping Crane, Non-Essential	Booming	IL, IN, MI, MN,	
Population	<u> </u>	OH, WI	
	Recovery Activitie		
Species	Specific Activity	States of Occurrence	BMPs
May affect, not likely to a	adversely affect due to implem	entation of BMPs to mini	mize impact
Decurrent False Aster	Vacuuming	IL	
	Sorbents		
Dwarf Lake Iris	Vacuuming Sorbents	MI, WI	
	001001113	1	
Hall's Bulrush	Skimming Vacuuming	IL, IN, MI, OH, WI	

Houghton's Goldenrod	Skimming Vacuuming Sorbents	MI	
Michigan Monkey Flower	Skimming Vacuuming Sorbents	MI	
Tennessee Pondweed	Skimming Vacuuming Sorbents	ОН	
Virginia Sneezeweed	Skimming Vacuuming Sorbents	ОН	
Blanding's Turtle	Skimming	IL, IN, MI, MN, OH, WI	
Copperbelly Watersnake, Northern DPS	Skimming	IN, MI, OH	
Eastern Massasauga	Skimming	IL, IN, MI, OH, WI	
Illinois Chorus Frog	Skimming Vacuuming Sorbents	IL	
Spotted Turtle	Skimming	IL, IN, MI, OH	
Wood Turtle	Skimming	MI, MN, OH, WI	
Indiana Bat	Skimming	IL, IN, MI, OH	
Northern Bog Lemming	Skimming	MN	
Northern Long-Eared Bat	Skimming	IL, IN, MI, MN, OH, WI	
Eastern Black Rail	Skimming	IL, IN, MI, MN, OH, WI	
Golden-Winged Warbler	Skimming	IL, IN, MI, MN, OH, WI	
Whooping Crane, Non-Essential Population	Skimming	IL, IN, MI, MN, OH, WI	
	Removal/Cleanup Acti	vities	
Species	Specific Activity	States of Occurrence	BMPs ¹
May affect, likely	y to adversely affect - discuss p	ossible BMPs with Se	ervices
Linda's Roadside Skipper	Mechanical sand cleaning (<1 inch and >1 inch)	IL	

Linda's Roadside Skipper	(<1 inch and >1 inch)	IL	
Mitchell's Satyr Butterfly	Mechanical sand cleaning (<1 inch and >1 inch)	IN, MI, OH	
Monarch Butterfly	Mechanical sand cleaning (<1 inch and >1 inch)	IL, IN, MI, MN, OH, WI	
Poweshiek Skipperling Critical Habitat	Mechanical sand cleaning (<1 inch and >1 inch)	MI, MN, WI	
Regal Fritillary	Mechanical sand cleaning (<1 inch and >1 inch)	IL, IN, MI, MN, OH, WI	
Rusty Patched Bumble Bee	Mechanical sand cleaning (<1 inch and >1 inch)	IL, IN, MN, OH, WI	
May affect, not likely to a	adversely affect due to impleme	entation of BMPs to m	inimize impact
Decurrent False Aster	Flooding Flushing Steam cleaning Sandblasting Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil	IL	
Dwarf Lake Iris	Flooding Flushing Steam cleaning Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil	MI, WI	
Hall's Bulrush	Flooding Flushing	IL, IN, MI, OH, WI	

			I
	Steam cleaning Sandblasting Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil		
Houghton's Goldenrod	Flooding Flushing Steam cleaning Sandblasting Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil	MI	
Michigan Monkey Flower	Flooding Flushing Steam cleaning Sandblasting Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil	MI	
Tennessee Pondweed	Flooding Flushing Steam cleaning Sandblasting Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil	ОН	
Virginia Sneezeweed	Flooding Flushing Steam cleaning Sandblasting Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil	ОН	
American Burying Beetle	Manual removal/cleaning of oil	MI, OH	
Bog Buckmoth	Flooding Flushing Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil	WI	
Hine's Emerald Dragonfly <i>Critical Habitat</i>	Flooding Flushing Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil	IL, MI, WI	
Linda's Roadside Skipper	Flooding Flushing Manual removal/cleaning of oil	L	
Mitchell's Satyr Butterfly	Flooding Flushing Manual removal/cleaning of oil	IN, MI, OH	
Monarch Butterfly	Flooding Flushing Manual removal/cleaning of oil	IL, IN, MI, MN, OH, WI	
Poweshiek Skipperling Critical Habitat	Flooding Flushing Manual removal/cleaning of oil	MI, MN, WI	

Species May affect, not likely to	Specific Activity adversely affect due to impleme	Occurrence	BMPs ¹
	Submerged Oil Activ	ities States of	
Northern Long-Eared Bat	of oil	OH, WI	
	of oil Manual removal/cleaning	IL, IN, MI, MN,	
Indiana Bat	Manual removal/cleaning	IL, IN, MI, OH	
May affect, not likel	of oil y to adversely affect due to insi	ignificant or discountab	ole effects
Whooping Crane, Non-Essential Population	Flooding Flushing Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning	IL, IN, MI, MN, OH, WI	
Golden-Winged Warbler	Flooding Flushing Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil	IL, IN, MI, MN, OH, WI	
Eastern Black Rail	Flooding Flushing Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil	IL, IN, MI, MN, OH, WI	
Northern Bog Lemming	Flooding Flushing Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil	MN	
Wood Turtle	Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil	MI, MN, OH, WI	
Spotted Turtle	Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil	IL, IN, MI, OH	
Illinois Chorus Frog	Flooding Flushing Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil	IL	
Eastern Massasauga	Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil	IL, IN, MI, OH, WI	
Copperbelly Watersnake, Northern DPS	Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil	IN, MI, OH	
Blanding's Turtle	Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil	IL, IN, MI, MN, OH, WI	
Rusty Patched Bumble Bee	Flooding Flushing Manual removal/cleaning of oil	IL, IN, MN, OH, WI	
Regal Fritillary	Flooding Flushing Manual removal/cleaning of oil	IL, IN, MI, MN, OH, WI	

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	Recovery of non-		
Hall's Bulrush	floating/submerged oil	IL, IN, MI, OH, WI	
	Containment of non-	,,,,	
	floating/submerged oil		
	Recovery of non-		
Houghton's Goldenrod	floating/submerged oil	MI	
rioughter e Coluciniou	Containment of non-		
	floating/submerged oil		
	Recovery of non-		
Michigan Monkey Flower	floating/submerged oil	MI	
Michigan Monkey Llower	Containment of non-	IVII	
	floating/submerged oil		
	Detection of non-		
	floating/submerged oil		
Tennessee Pondweed	Recovery of non-	ОН	
Termessee Tondweed	floating/submerged oil	011	
	Containment of non-		
	floating/submerged oil		
	Recovery of non-		
Virginia Spaczoward	floating/submerged oil	ОН	
Virginia Sneezeweed	Containment of non-	ОП	
	floating/submerged oil		
	Detection of non-		
	floating/submerged oil		
Dianational's Trutte	Recovery of non-	IL, IN, MI, MN,	
Blanding's Turtle	floating/submerged oil	OH, WI	
	Containment of non-		
	floating/submerged oil		
	Detection of non-		
	floating/submerged oil		
Copperbelly Watersnake, Northern	Recovery of non-		
DPS	floating/submerged oil	IN, MI, OH	
	Containment of non-		
	floating/submerged oil		
	Detection of non-		
	floating/submerged oil		
	Recovery of non-		
Eastern Massasauga	floating/submerged oil	IL, IN, MI, OH, WI	
	Containment of non-		
	floating/submerged oil		
	Detection of non-		
	floating/submerged oil		
	Recovery of non-		
Illinois Chorus Frog	floating/submerged oil	IL	
	Containment of non-		
	floating/submerged oil		
	Detection of non-		
	floating/submerged oil		
	Recovery of non-		
Spotted Turtle	floating/submerged oil	IL, IN, MI, OH	
	Containment of non-		
	floating/submerged oil		
	Detection of non-	1	
	floating/submerged oil		
	Recovery of non-		
Wood Turtle	floating/submerged oil	MI, MN, OH, WI	
	Containment of non-		
	floating/submerged oil		
	Detection of non-		
	floating/submerged oil		
Eastern Black Rail		IL, IN, MI, MN,	
Eastern Diack Rail	Recovery of non-	OH, WI	
	floating/outproceed ail		
	floating/submerged oil		
	Detection of non-		
Golden-Winged Warbler	Detection of non- floating/submerged oil	IL, IN, MI, MN,	
Golden-Winged Warbler	Detection of non- floating/submerged oil Recovery of non-	IL, IN, MI, MN, OH, WI	
_	Detection of non- floating/submerged oil Recovery of non- floating/submerged oil	OH, WI	
Golden-Winged Warbler Whooping Crane, Non-Essential Population	Detection of non- floating/submerged oil Recovery of non-		

	Recovery of non-		
	floating/submerged oil		
May affect, not likely	to adversely affect due to instant	ignificant or discountal	ble effects
Decurrent False Aster	Detection of non- floating/submerged oil	IL	
Eastern Prairie Fringed Orchid	Detection of non- floating/submerged oil	IL, IN, MI, OH, WI	
Hall's Bulrush	Detection of non- floating/submerged oil	IL, IN, MI, OH, WI	
Houghton's Goldenrod	Detection of non- floating/submerged oil	MI	
Lakeside Daisy	Detection of non- floating/submerged oil	IL, MI, OH	
Michigan Monkey Flower	Detection of non- floating/submerged oil	MI	
Virginia Sneezeweed	Detection of non- floating/submerged oil	ОН	
Western Prairie Fringed Orchid	Detection of non- floating/submerged oil	MN	
	Wildlife Protection Act		
Species	Specific Activity	States of Occurrence	BMPs ¹
May affect, not likely to a	adversely affect due to implem	entation of BMPs to m	inimize impact
Tennessee Pondweed	Deterrence and hazing Capture and care of contaminated species	ОН	
Linda's Roadside Skipper	Deterrence and hazing Capture and care of contaminated species	IL	
Mitchell's Satyr Butterfly	Deterrence and hazing Capture and care of contaminated species	IN, MI, OH	
Monarch Butterfly	Deterrence and hazing Capture and care of contaminated species	IL, IN, MI, MN, OH, WI	
Poweshiek Skipperling Critical Habitat	Deterrence and hazing Capture and care of contaminated species	MI, MN, WI	
Regal Fritillary	Deterrence and hazing Capture and care of contaminated species	IL, IN, MI, MN, OH, WI	
Rusty Patched Bumble Bee	Deterrence and hazing Capture and care of contaminated species	IL, IN, MN, OH, WI	
Blanding's Turtle	Capture and care of contaminated species	IL, IN, MI, MN, OH, WI	
Copperbelly Watersnake, Northern DPS	Capture and care of contaminated species	IN, MI, OH	
Eastern Massasauga	Capture and care of contaminated species	IL, IN, MI, OH, WI	
Illinois Chorus Frog	Capture and care of contaminated species	IL	
Spotted Turtle	Capture and care of contaminated species	IL, IN, MI, OH	
Wood Turtle	Capture and care of contaminated species	MI, MN, OH, WI	
Indiana Bat	Deterrence and hazing Capture and care of contaminated species	IL, IN, MI, OH	
Northern Bog Lemming	Deterrence and hazing Capture and care of contaminated species	MN	
Northern Long-Eared Bat	Deterrence and hazing Capture and care of contaminated species	IL, IN, MI, MN, OH, WI	

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	Deterrence and hazing	IL, IN, MI, MN,	
Eastern Black Rail	Capture and care of	OH, WI	
	contaminated species		
	Deterrence and hazing		
Golden-Winged Warbler	Capture and care of	IL, IN, MI, MN,	
Colden Winged Warbler	contaminated species	OH, WI	
Whooping Crane, Non-Essential	Deterrence and hazing	IL, IN, MI, MN,	
Population	Capture and care of	OH, WI	
ropulation	contaminated species	011, 111	
May affect, not likely	to adversely affect due to insi	ignificant or discountal	ole effects
	Deterrence and hazing		
Hall's Bulrush	Capture and care of	IL, IN, MI, OH, WI	
	contaminated species		
	Deterrence and hazing		
Houghton's Goldenrod	Capture and care of	MI	
	contaminated species		
	Deterrence and hazing		
Michigan Monkey Flower	Capture and care of	MI	
Michigan Monitey Flower	contaminated species		
	Deterrence and hazing		
Virginia Sneezeweed	Capture and care of	OH	
	contaminated species		
Discustion with Transfer	Determine and heritage	IL, IN, MI, MN,	
Blanding's Turtle	Deterrence and hazing	OH, WI	
Copperbelly Watersnake, Northern			
DPS	Deterrence and hazing	IN, MI, OH	
	Determonee and hering		
Eastern Massasauga	Deterrence and hazing	IL, IN, MI, OH, WI	
Illinois Chorus Frog	Deterrence and hazing	IL	
Spotted Turtle	Deterrence and hazing	IL, IN, MI, OH	
Wood Turtle	Deterrence and hazing	MI, MN, OH, WI	
Wood Fullie	Deterrence and nazing		
Lo	cating, Tracking, and Supp	ort Activities	
	3, 3, 3, 11		
Species	Specific Activity	States of	BMPs ¹
Opecies	Opecine Activity	Occurrence	Dim 3
May affect, not likely to ac	dversely affect due to impleme	entation of BMPs to m	inimize impact
	Use of vehicles		-
	Line of		
	Use of		
	machinery/supporting		
	machinery/supporting equipment		
	machinery/supporting		
	machinery/supporting equipment		
Decurrent False Aster	machinery/supporting equipment Creation/use of new access points	IL	
Decurrent False Aster	machinery/supporting equipment Creation/use of new access points Creation/use of staging	IL	
Decurrent False Aster	machinery/supporting equipment Creation/use of new access points Creation/use of staging areas	IL	
Decurrent False Aster	machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Locating, sampling, and	IL	
Decurrent False Aster	machinery/supporting equipment Creation/use of new access points Creation/use of staging areas	IL	
Decurrent False Aster	machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Locating, sampling, and monitoring air, land, and water	IL	
Decurrent False Aster	machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Locating, sampling, and monitoring air, land, and	IL	
Decurrent False Aster	machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Locating, sampling, and monitoring air, land, and water Access of personnel by	IL	
Decurrent False Aster	machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Locating, sampling, and monitoring air, land, and water Access of personnel by foot traffic	IL	
Decurrent False Aster	machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Locating, sampling, and monitoring air, land, and water Access of personnel by foot traffic Use of vehicles	IL	
Decurrent False Aster	machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Locating, sampling, and monitoring air, land, and water Access of personnel by foot traffic Use of vehicles Use of	IL	
Decurrent False Aster	machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Locating, sampling, and monitoring air, land, and water Access of personnel by foot traffic Use of vehicles Use of machinery/supporting	IL	
Decurrent False Aster	machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Locating, sampling, and monitoring air, land, and water Access of personnel by foot traffic Use of vehicles Use of machinery/supporting equipment	IL	
	machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Locating, sampling, and monitoring air, land, and water Access of personnel by foot traffic Use of vehicles Use of machinery/supporting equipment Creation/use of new		
Decurrent False Aster Dwarf Lake Iris	machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Locating, sampling, and monitoring air, land, and water Access of personnel by foot traffic Use of vehicles Use of machinery/supporting equipment Creation/use of new access points	IL MI, WI	
	machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Locating, sampling, and monitoring air, land, and water Access of personnel by foot traffic Use of vehicles Use of machinery/supporting equipment Creation/use of new		
	machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Locating, sampling, and monitoring air, land, and water Access of personnel by foot traffic Use of vehicles Use of machinery/supporting equipment Creation/use of new access points		
	machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Locating, sampling, and monitoring air, land, and water Access of personnel by foot traffic Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of staging		
	machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Locating, sampling, and monitoring air, land, and water Access of personnel by foot traffic Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of staging areas		
	machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Locating, sampling, and monitoring air, land, and water Access of personnel by foot traffic Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic		
	machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Locating, sampling, and monitoring air, land, and water Access of personnel by foot traffic Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic Use of vehicles		
	machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Locating, sampling, and monitoring air, land, and water Access of personnel by foot traffic Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic Use of vehicles Use of vehicles Use of vehicles		
	machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Locating, sampling, and monitoring air, land, and water Access of personnel by foot traffic Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic Use of vehicles Use of vehicles Use of vehicles Use of vehicles Use of machinery/supporting		
	machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Locating, sampling, and monitoring air, land, and water Access of personnel by foot traffic Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic Use of vehicles Use of vehicles Use of vehicles Use of vehicles Use of machinery/supporting equipment	MI, WI	
Dwarf Lake Iris	machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Locating, sampling, and monitoring air, land, and water Access of personnel by foot traffic Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic Use of vehicles Use of vehicles Use of vehicles Use of machinery/supporting equipment Creation/use of machinery/supporting equipment Creation/use of new		
Dwarf Lake Iris	machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Locating, sampling, and monitoring air, land, and water Access of personnel by foot traffic Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic Use of vehicles Use of machinery/supporting equipment Creation/use of new access points	MI, WI	
Dwarf Lake Iris	machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Locating, sampling, and monitoring air, land, and water Access of personnel by foot traffic Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic Use of vehicles Use of vehicles Use of vehicles Use of machinery/supporting equipment Creation/use of machinery/supporting equipment Creation/use of new	MI, WI	

	Access of personnel by		
	foot traffic		
Houghton's Goldenrod	Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic	MI	
Michigan Monkey Flower	Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic	MI	
Tennessee Pondweed	Use of vessels Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Natural attenuation Deployment of buoys Locating, sampling, and monitoring air, land, and water Access of personnel by foot traffic	ОН	
Virginia Sneezeweed	Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic	ОН	
American Burying Beetle	Creation/use of new access points Access of personnel by foot traffic	MI, OH	
Bog Buckmoth	Creation/use of new access points Access of personnel by foot traffic	WI	
Hine's Emerald Dragonfly <i>Critical Habitat</i>	Creation/use of new access points Access of personnel by foot traffic	IL, MI, WI	
Linda's Roadside Skipper	Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Access of personnel by foot traffic	IL	
Mitchell's Satyr Butterfly	Use of vehicles	IN, MI, OH	

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	Use of machinery/supporting equipment		
	Creation/use of new access points Access of personnel by		
	foot traffic Use of vehicles		
Monarch Butterfly	Use of machinery/supporting equipment Creation/use of new access points Access of personnel by foot traffic	IL, IN, MI, MN, OH, WI	
Poweshiek Skipperling Critical Habitat	Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Access of personnel by foot traffic	MI, MN, WI	
Regal Fritillary	Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Access of personnel by foot traffic	IL, IN, MI, MN, OH, WI	
Rusty Patched Bumble Bee	Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Access of personnel by foot traffic	il, in, mn, oh, Wi	
Blanding's Turtle	Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic	IL, IN, MI, OH, WI	
Copperbelly Watersnake, Northern DPS	Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic	IN, MI, OH	
Eastern Massasauga	Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic	IL, IN, MI, OH, WI	
Illinois Chorus Frog	Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic	IL	
Spotted Turtle	Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic	IL, IN, MI, OH	

Wood Turtle	Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic	MI, MN, OH, WI	
Indiana Bat	Use of aircraft Creation/use of new access points Creation/use of new staging areas Access of personnel by foot traffic	IL, IN, MI, OH	
Northern Bog Lemming	Use of aircraft Use of vessels Creation/use of new access points Access of personnel by foot traffic	MN	
Northern Long-Eared Bat	Use of aircraft Creation/use of new access points Creation/use of new staging areas Access of personnel by foot traffic	IL, IN, MI, MN, OH, WI	
Eastern Black Rail	Use of aircraft Use of vessels Creation/use of new access points Access of personnel by foot traffic	IL, IN, MI, MN, OH, WI	
Golden-Winged Warbler	Use of aircraft Use of vessels Creation/use of new access points Access of personnel by foot traffic	IL, IN, MI, MN, OH, WI	
Whooping Crane, Non-Essential Population	Use of aircraft Use of vessels Creation/use of new access points Access of personnel by foot traffic	IL, IN, MI, MN, OH, WI	
May affect, not likely	to adversely affect due to insi	gnificant or discountat	ole effects
Blanding's Turtle	Use of aircraft Use of vessels	IL, IN, MI, OH, WI	
Copperbelly Watersnake, Northern DPS	Use of vessels	IN, MI, OH	
Eastern Massasauga	Use of vessels	IL, IN, MI, OH, WI	
Illinois Chorus Frog Spotted Turtle	Use of vessels Use of aircraft Use of vessels	IL IL, IN, MI, OH	
Streamside Salamander	Use of vessels	IN, OH	
Wood Turtle	Use of aircraft Use of vessels	MI, MN, OH, WI	
Indiana Bat	Use of vehicles	IL, IN, MI, OH	
Northern Long-Eared Bat	Use of vehicles	IL, IN, MI, MN, OH, WI	
Speci	al considerations needed, high	•	
Decurrent False Aster	Natural attenuation	IL	
Dwarf Lake Iris	Natural attenuation Locating, sampling, and monitoring air, land, and water	MI, WI	
Hall's Bulrush	Natural attenuation	IL, IN, MI, OH, WI	

	Locating, sampling, and		
	monitoring air, land, and water		
Houghton's Goldenrod	Natural attenuation Locating, sampling, and monitoring air, land, and water	МІ	
Michigan Monkey Flower	Natural attenuation Locating, sampling, and monitoring air, land, and water	МІ	
Virginia Sneezeweed	Natural attenuation Locating, sampling, and monitoring air, land, and water	ОН	
American Burying Beetle	Natural attenuation Locating, sampling, and monitoring air, land, and water	MI, OH	
Bog Buckmoth	Natural attenuation Locating, sampling, and monitoring air, land, and water	WI	
Hine's Emerald Dragonfly <i>Critical Habitat</i>	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, MI, WI	
Linda's Roadside Skipper	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL	
Mitchell's Satyr Butterfly	Natural attenuation Locating, sampling, and monitoring air, land, and water	IN, MI, OH	
Monarch Butterfly	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, IN, MI, MN, OH, WI	
Poweshiek Skipperling Critical Habitat	Natural attenuation Locating, sampling, and monitoring air, land, and water	MI, MN, WI	
Regal Fritillary	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, IN, MI, MN, OH, WI	
Rusty Patched Bumble Bee	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, IN, MN, OH, WI	
Blanding's Turtle	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, IN, MI, OH, WI	
Copperbelly Watersnake, Northern DPS	Natural attenuation Locating, sampling, and monitoring air, land, and water	IN, MI, OH	
Eastern Massasauga	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, IN, MI, OH, WI	
Illinois Chorus Frog	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL	
Spotted Turtle	Natural attenuation	IL, IN, MI, OH	

American Durving Dectle	Decontamination	ML OU	
American Burying Beetle Bog Buckmoth	Decontamination	MI, OH WI	
Hine's Emerald Dragonfly	Decanting		
Critical Habitat	Decontamination	IL, MI, WI	
Linda's Roadside Skipper	Decanting	IL	
Mitchell's Satyr Butterfly	Decanting	IN, MI, OH	
Monarch Butterfly	Decanting	IL, IN, MI, MN, OH, WI	
Poweshiek Skipperling Critical Habitat	Decanting	MI, MN, WI	
Regal Fritillary	Decanting	IL, IN, MI, MN, OH, WI	
Rusty Patched Bumble Bee	Decanting	IL, IN, MN, OH, WI	
Blanding's Turtle	Temporary storage (on land) Decontamination	IL, IN, MI, OH, WI	
Copperbelly Watersnake, Northern DPS	Decontamination	IN, MI, OH	
Eastern Massasauga	Decontamination	IL, IN, MI, OH, WI	
Illinois Chorus Frog	Decanting Decontamination	IL	
Spotted Turtle	Decontamination	IL, IN, MI, OH	
Wood Turtle	Temporary storage (on land) Decontamination	MI, MN, OH, WI	
Indiana Bat	Temporary storage (on land) Decontamination	IL, IN, MI, OH	
Northern Long-Eared Bat	Temporary storage (on land) Decontamination	IL, IN, MI, MN, OH, WI	
Eastern Black Rail	Decontamination	IL, IN, MI, MN, OH, WI	
Golden-Winged Warbler	Decontamination	IL, IN, MI, MN, OH, WI	
Whooping Crane, Non-Essential Population	Decontamination	IL, IN, MI, MN, OH, WI	
May affect, not likely	to adversely affect due to ins	ignificant or discountal	ble effects
Decurrent False Aster	Waste handling	IL	
Hall's Bulrush	Temporary storage (on water)	IL, IN, MI, OH, WI	
Houghton's Goldenrod	Temporary storage (on water)	MI	
Michigan Monkey Flower	Temporary storage (on water)	MI	
Virginia Sneezeweed	Temporary storage (on water)	ОН	
American Burying Beetle	Waste handling	MI, OH	
Bog Buckmoth	Waste handling	WI	
Hine's Emerald Dragonfly Critical Habitat	Waste handling	IL, MI, WI	
Linda's Roadside Skipper	Waste handling	IL	
Mitchell's Satyr Butterfly	Waste handling	IN, MI, OH	
Monarch Butterfly	Waste handling	IL, IN, MI, MN, OH, WI	
Poweshiek Skipperling Critical Habitat	Waste handling	MI, MN, WI	
Regal Fritillary	Waste handling	IL, IN, MI, MN, OH, WI	
Rusty Patched Bumble Bee	Waste handling	IL, IN, MN, OH, WI	
Blanding's Turtle	Waste handling	IL, IN, MI, OH, WI	
Copperbelly Watersnake, Northern DPS	Waste handling	IN, MI, OH	
Eastern Massasauga	Waste handling	IL, IN, MI, OH, WI	
	-		

Spotted Turtle	Waste handling	IL, IN, MI, OH	
Wood Turtle	Waste handling	MI, MN, OH, WI	
Indiana Bat	Waste handling	IL, IN, MI, OH	
Northern Bog Lemming	Waste handling	MN	
Northern Long-Eared Bat	Waste handling	IL, IN, MI, MN, OH, WI	
Eastern Black Rail	Waste handling	IL, IN, MI, MN, OH, WI	
Golden-Winged Warbler	Waste handling	IL, IN, MI, MN, OH, WI	
Whooping Crane, Non-Essential Population	Waste handling	IL, IN, MI, MN, OH, WI	

Uplands

High-Ris	sk Response Actions and Act	tivities in UPLANDS			
Associated Vulnerable Habitats: None					
	Deflection and Containment Activities				
Species	Specific Activity	States of Occurrence	BMPs ¹		
May affect, likel	y to adversely affect - discuss p	oossible BMPs with Se	ervices		
Dwarf Lake Iris	Dikes or berms	MI, WI			
Iowa Pleistocene Snail	Booming	IL			
May affect not likely to	adversely affect due to impleme	entation of BMPs to m	inimize impact		
American Hart's-tongue Fern	Booming	MI			
Dwarf Lake Iris	Booming	MI, WI			
Fassett's Locoweed	Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	WI			
Lakeside Daisy	Booming	IL, MI, OH			
Leafy Prairie-clover	Booming	IL			
Leedy's Roseroot	Booming	MN			
Mead's Milkweed	Booming Dikes or berms Construction barriers, dams, pits, and trenches	IL, IN, WI			
Minnesota Dwarf Trout Lily	Booming	MN			
Northern Wild Monkshood	Booming	OH, WI			
Pitcher's Thistle	Booming	IL, IN, MI, WI			
Prairie Bush-clover	Booming Dikes or berms Construction barriers, dams, pits, and trenches	IL, MN, WI			
Running Buffalo Clover	Booming Dikes or berms Construction barriers, dams, pits, and trenches Culvert blocking	IN, OH			
Short's Bladderpod Critical Habitat	Booming	IN			
Short's Goldenrod	Booming	IN			
Small Whorled Pogonia	Booming Dikes or berms Construction barriers, dams, pits, and trenches	IL, MI, OH			
Western Prairie Fringed Orchid	Booming	MN			
American Burying Beetle	Booming Dikes or berms	MI, OH			
Dakota Skipper Critical Habitat	Booming Dikes or berms Construction barriers, dams, pits, and trenches	MN			
Frosted Elfin Butterfly	Booming Dikes or berms Construction barriers, dams, pits, and trenches	IL, IN, MI, OH, WI			
Karner Blue Butterfly	Booming Dikes or berms Construction barriers, dams, pits, and trenches	IL, IN, MI, MN, OH, WI			
Linda's Roadside Skipper	Booming Dikes or berms Construction barriers, dams, pits, and trenches	IL			

Illinois Chorus Frog	Skimming Vacuuming	IL	
Blanding's Turtle	Skimming	IL, IN, MI, MN, OH, WI	
Pitcher's Thistle	Skimming	IL, IN, MI, WI	
Fassett's Locoweed	Vacuuming Sorbents	WI	
Dwarf Lake Iris	Vacuuming Sorbents	MI, WI	
May affect, not likely to a	adversely affect due to impleme		nimize impact
Species	Specific Activity	States of Occurrence	BMPs
	Recovery Activitie		
Prairie Gray Fox	Booming	MN, WI	
Plains Spotted Skunk	Booming	MN	
Gray Wolf	Booming	MI, MN, WI	
Canada Lynx	Booming	MI, MN, WI	
	y to adversely affect due to insi		le effects
	dams, pits, and trenches		
Golden-Winged Warbler	Dikes or berms Construction barriers.	IL, IN, MI, MN, OH, WI	
Tricolored Bat	Booming Booming	IL, IN, MI, MN, OH, WI	
Northern Long-Eared Bat	Booming	OH, WI	
Little Brown Bat	Booming	OH, WI	
Indiana Bat	Booming	IL, IN, MI, OH IL, IN, MI, MN,	
Gray Bat	Booming	IL, IN	
Wood Turtle	Booming	MI, MN, OH, WI	
Streamside Salamander	Dikes or berms Construction barriers, dams, pits, and trenches	IN, OH	
• • • • •	Booming		
Spotted Turtle	dams, pits, and trenches Booming	IL, IN, MI, OH	
Illinois Chorus Frog	Dikes or berms Construction barriers,	IL	
Eastern Massasauga	Booming Booming	IL, IN, MI, OH, WI	
DPS Eastorn Massasauga	-		
Copperbelly Watersnake, Northern	Booming	OH, WI IN, MI, OH	
Blanding's Turtle	dams, pits, and trenches Booming	IL, IN, MI, MN,	
Rusty Patched Bumble Bee	Booming Dikes or berms Construction barriers,	IL, IN, MN, OH, WI	
Regal Fritillary	Booming Dikes or berms Construction barriers, dams, pits, and trenches	IL, IN, MI, MN, OH, WI	
Rattlesnake-master Borer Moth	Booming Dikes or berms Construction barriers, dams, pits, and trenches	IL	
Poweshiek Skipperling Critical Habitat	Booming Dikes or berms Construction barriers, dams, pits, and trenches	MI, MN, WI	
Monarch Butterfly	Booming Dikes or berms Construction barriers, dams, pits, and trenches	IL, IN, MI, MN, OH, WI	

	Sorbents		
Spotted Turtle	Skimming	IL, IN, MI, OH	
Wood Turtle	Skimming	MI, MN, OH, WI	
Gray Bat	Skimming	IL, IN	
Indiana Bat	Skimming	IL, IN, MI, OH	
Little Brown Bat	Skimming	IL, IN, MI, MN,	
Northern Long-Eared Bat	Skimming	OH, WI IL, IN, MI, MN, OH, WI	
Tricolored Bat	Skimming	IL, IN, MI, MN, OH, WI	
Golden-Winged Warbler	Skimming	IL, IN, MI, MN, OH, WI	
May affect, not likely	y to adversely affect due to insi	,	ole effects
Minnesota Dwarf Trout Lily	Skimming	MN	
Running Buffalo Clover	Skimming	IN, OH	
Copperbelly Watersnake, Northern DPS	Skimming	IN, MI, OH	
Eastern Massasauga	Skimming	IL, IN, MI, OH, WI	
Streamside Salamander	Skimming	IN, OH	
Canada Lynx	Skimming	MI, MN, WI	
Gray Wolf	Skimming	MI, MN, WI	
Plains Spotted Skunk	Skimming	MN	
Prairie Gray Fox	Skimming	MN, WI	
	Removal/Cleanup Acti		
	Keniova#oleanup Acti		
Species	Specific Activity	States of Occurrence	BMPs ¹
May affect, likely	/ to adversely affect - discuss p	oossible BMPs with Se	ervices
	Sandblasting		
	Mechanical sand cleaning		
American Hart's-tongue Fern	Mechanical sand cleaning (<1 inch and >1 inch)	МІ	
American Hart's-tongue Fern	Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning	МІ	
	Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil		
American Hart's-tongue Fern Iowa Pleistocene Snail	Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning	MI	
Iowa Pleistocene Snail	Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil Manual removal/cleaning	IL	inimize impact
Iowa Pleistocene Snail	Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil Manual removal/cleaning of oil	IL	inimize impact
Iowa Pleistocene Snail	Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil Manual removal/cleaning of oil adversely affect due to impleme Flooding Flushing	IL	inimize impact
Iowa Pleistocene Snail May affect, not likely to a	Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil Manual removal/cleaning of oil adversely affect due to impleme Flooding Flushing Steam cleaning	IL entation of BMPs to m	inimize impact
Iowa Pleistocene Snail	Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil Manual removal/cleaning of oil adversely affect due to impleme Flooding Flushing Steam cleaning Mechanical sand cleaning	IL	inimize impact
Iowa Pleistocene Snail May affect, not likely to a	Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil Manual removal/cleaning of oil adversely affect due to impleme Flooding Flushing Steam cleaning Mechanical sand cleaning (<1 inch and >1 inch)	IL entation of BMPs to m	inimize impact
Iowa Pleistocene Snail May affect, not likely to a	Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil Manual removal/cleaning of oil adversely affect due to impleme Flooding Flushing Steam cleaning Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning	IL entation of BMPs to m	inimize impact
Iowa Pleistocene Snail May affect, not likely to a	Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil Manual removal/cleaning of oil adversely affect due to impleme Flooding Flushing Steam cleaning Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil	IL entation of BMPs to m	inimize impact
Iowa Pleistocene Snail May affect, not likely to a	Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil Manual removal/cleaning of oil adversely affect due to implement Flooding Flushing Steam cleaning Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil Flushing	IL entation of BMPs to m	inimize impact
Iowa Pleistocene Snail May affect, not likely to a	Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil Manual removal/cleaning of oil adversely affect due to implement Flooding Flushing Steam cleaning Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil Flushing Steam cleaning	IL entation of BMPs to m	inimize impact
Iowa Pleistocene Snail May affect, not likely to a	Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil Manual removal/cleaning of oil adversely affect due to implement Flooding Flushing Steam cleaning Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil Flushing	IL entation of BMPs to m	inimize impact
Iowa Pleistocene Snail May affect, not likely to a Dwarf Lake Iris	Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil Manual removal/cleaning of oil adversely affect due to implement Flooding Flushing Steam cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil Flushing Steam cleaning Steam cleaning Steam cleaning Steam cleaning	IL entation of BMPs to m MI, WI	inimize impact
Iowa Pleistocene Snail May affect, not likely to a Dwarf Lake Iris	Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil Manual removal/cleaning of oil adversely affect due to impleme Flooding Flushing Steam cleaning Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil Flushing Steam cleaning Steam cleaning Steam cleaning Mechanical sand removal	IL entation of BMPs to m MI, WI	inimize impact
Iowa Pleistocene Snail May affect, not likely to a Dwarf Lake Iris	Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil Manual removal/cleaning of oil adversely affect due to impleme Flooding Flushing Steam cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil Flushing Steam cleaning Steam cleaning Steam cleaning (<1 inch and >1 inch) Manual sand removal (<1 inch and >1 inch) Manual removal/cleaning of oil	IL entation of BMPs to m MI, WI	inimize impact
Iowa Pleistocene Snail May affect, not likely to a Dwarf Lake Iris	Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil Manual removal/cleaning of oil adversely affect due to impleme Flooding Flushing Steam cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil Flushing Steam cleaning Steam cleaning Steam cleaning (<1 inch and >1 inch) Manual removal/cleaning	IL entation of BMPs to m MI, WI	inimize impact
Iowa Pleistocene Snail May affect, not likely to a Dwarf Lake Iris Fassett's Locoweed	Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil Manual removal/cleaning of oil adversely affect due to impleme Flooding Flushing Steam cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil Flushing Steam cleaning Steam cleaning Steam cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil Manual removal/cleaning of oil	IL entation of BMPs to m MI, WI WI	inimize impact
Iowa Pleistocene Snail May affect, not likely to a Dwarf Lake Iris Fassett's Locoweed Lakeside Daisy	Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil Manual removal/cleaning of oil adversely affect due to impleme Flooding Flushing Steam cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil Flushing Steam cleaning Steam cleaning Steam cleaning andblasting Mechanical sand removal (<1 inch and >1 inch) Manual removal/cleaning of oil Manual removal/cleaning of oil	IL entation of BMPs to m MI, WI WI IL, MI, OH	inimize impact
Iowa Pleistocene Snail May affect, not likely to a Dwarf Lake Iris Fassett's Locoweed Lakeside Daisy Leafy Prairie-clover	Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil Manual removal/cleaning of oil adversely affect due to implement Flooding Flushing Steam cleaning Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil Flushing Steam cleaning Steam cleaning Steam cleaning Mechanical sand removal (<1 inch and >1 inch) Manual removal/cleaning of oil Manual removal/cleaning of oil Manual removal/cleaning of oil Manual removal/cleaning of oil	IL entation of BMPs to m MI, WI WI IL, MI, OH IL	inimize impact
Iowa Pleistocene Snail May affect, not likely to a Dwarf Lake Iris Fassett's Locoweed Lakeside Daisy Leafy Prairie-clover Leedy's Roseroot	Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil Manual removal/cleaning of oil adversely affect due to impleme Flooding Flushing Steam cleaning Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil Flushing Steam cleaning Steam cleaning Steam cleaning Mechanical sand removal (<1 inch and >1 inch) Manual removal/cleaning of oil Manual removal/cleaning of oil	IL entation of BMPs to m MI, WI WI IL, MI, OH IL MN	inimize impact
Iowa Pleistocene Snail May affect, not likely to a Dwarf Lake Iris Fassett's Locoweed Lakeside Daisy Leafy Prairie-clover	Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil Manual removal/cleaning of oil adversely affect due to impleme Flooding Flushing Steam cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil Flushing Steam cleaning Sandblasting Mechanical sand removal (<1 inch and >1 inch) Manual removal/cleaning of oil Manual removal/cleaning of oil	IL entation of BMPs to m MI, WI WI IL, MI, OH IL	inimize impact
Iowa Pleistocene Snail May affect, not likely to a Dwarf Lake Iris Fassett's Locoweed Lakeside Daisy Leafy Prairie-clover Leedy's Roseroot	Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil Manual removal/cleaning of oil adversely affect due to impleme Flooding Flushing Steam cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil Flushing Steam cleaning Steam cleaning Steam cleaning Mechanical sand removal (<1 inch and >1 inch) Manual removal/cleaning of oil Manual removal/cleaning of oil	IL entation of BMPs to m MI, WI WI IL, MI, OH IL MN	inimize impact
Iowa Pleistocene Snail May affect, not likely to a Dwarf Lake Iris Fassett's Locoweed Lakeside Daisy Leafy Prairie-clover Leedy's Roseroot	Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil Manual removal/cleaning of oil adversely affect due to impleme Flooding Flushing Steam cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil Flushing Steam cleaning Steam cleaning Steam cleaning Mechanical sand removal (<1 inch and >1 inch) Manual removal/cleaning of oil Manual removal/cleaning of oil Mechanical sand removal (<1 inch and >1 inch) Manual removal/cleaning of oil	IL entation of BMPs to m MI, WI WI IL, MI, OH IL MN	inimize impact
Iowa Pleistocene Snail May affect, not likely to a Dwarf Lake Iris Fassett's Locoweed Lakeside Daisy Leafy Prairie-clover Leedy's Roseroot	Mechanical sand cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil Manual removal/cleaning of oil adversely affect due to impleme Flooding Flushing Steam cleaning (<1 inch and >1 inch) Manual removal/cleaning of oil Flushing Steam cleaning Steam cleaning Steam cleaning Mechanical sand removal (<1 inch and >1 inch) Manual removal/cleaning of oil Manual removal/cleaning of oil	IL entation of BMPs to m MI, WI WI IL, MI, OH IL MN	inimize impact

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Northern Wild Monkshood	Manual removal/cleaning of oil	OH, WI	
Pitcher's Thistle	Manual removal/cleaning of oil	IL, IN, MI, WI	
Prairie Bush-clover	Manual removal/cleaning of oil	IL, MN, WI	
Running Buffalo Clover	Manual removal/cleaning of oil	IN, OH	
Short's Bladderpod Critical Habitat	Manual removal/cleaning of oil	IN	
Short's Goldenrod	Manual removal/cleaning of oil	IN	
Small Whorled Pogonia	Mechanical sand removal (<1 inch and >1 inch) Manual removal/cleaning of oil	IL, MI, OH	
Western Prairie Fringed Orchid	Manual removal/cleaning of oil	MN	
Iowa Pleistocene Snail	Flooding Flushing Steam cleaning Sandblasting Mechanical sand cleaning (<1 inch and >1 inch)	IL	
Illinois Cave Amphipod	Flooding Flushing	IL	
American Burying Beetle	Manual removal/cleaning of oil	MI, OH	
Dakota Skipper Critical Habitat	Mechanical sand removal (<1 inch and >1 inch) Manual removal/cleaning of oil	MN	
Frosted Elfin Butterfly	Mechanical sand removal (<1 inch and >1 inch) Manual removal/cleaning of oil	IL, IN, MI, OH, WI	
Karner Blue Butterfly	Mechanical sand removal (<1 inch and >1 inch) Manual removal/cleaning of oil	IL, IN, MI, MN, OH, WI	
Linda's Roadside Skipper	Mechanical sand removal (<1 inch and >1 inch) Manual removal/cleaning of oil	IL	
Monarch Butterfly	Mechanical sand removal (<1 inch and >1 inch) Manual removal/cleaning of oil	IL, IN, MI, MN, OH, WI	
Poweshiek Skipperling Critical Habitat	Manual removal/cleaning of oil	MI, MN, WI	
Rattlesnake-master Borer Moth	Mechanical sand removal (<1 inch and >1 inch) Manual removal/cleaning of oil	IL	
Regal Fritillary	Mechanical sand removal (<1 inch and >1 inch) Manual removal/cleaning of oil	IL, IN, MI, MN, OH, WI	
Rusty Patched Bumble Bee	Mechanical sand removal (<1 inch and >1 inch) Manual removal/cleaning of oil	IL, IN, MN, OH, WI	
Blanding's Turtle	Mechanical sand removal (<1 inch and >1 inch) Manual removal/cleaning of oil	IL, IN, MI, MN, OH, WI	
Copperbelly Watersnake, Northern DPS	Mechanical sand removal (<1 inch and >1 inch)	IN, MI, OH	

	Manual removal/cleaning		
	of oil		
	Mechanical sand removal		
Eastern Massasauga	(<1 inch and >1 inch) Manual removal/cleaning	IL, IN, MI, OH, WI	
	of oil		
	Flooding		
	Flushing Mechanical sand removal		
Illinois Chorus Frog	(<1 inch and >1 inch)	IL	
	Manual removal/cleaning		
	of oil Mechanical sand removal		
Spotted Turtle	(<1 inch and >1 inch)	IL, IN, MI, OH	
opolica func	Manual removal/cleaning of oil		
	Mechanical sand removal		
Streamside Salamander	(<1 inch and >1 inch)	IN, OH	
	Manual removal/cleaning of oil	,	
	Mechanical sand removal		
Wood Turtle	(<1 inch and >1 inch)	MI, MN, OH, WI	
	Manual removal/cleaning of oil	,,,	
	Mechanical sand removal		
Golden-Winged Warbler	(<1 inch and >1 inch)	IL, IN, MI, MN,	
3 -1-1-1	Manual removal/cleaning of oil	OH, WI	
May affect, not like	ly to adversely affect due to insi	ignificant or discountal	ole effects
Canada Lynx	Manual removal/cleaning of oil	MI, MN, WI	
Gray Bat	Manual removal/cleaning of oil	IL, IN	
Gray Wolf	Manual removal/cleaning of oil	MI, MN, WI	
Indiana Bat	Manual removal/cleaning of oil	IL, IN, MI, OH	
Little Brown Bat	Manual removal/cleaning of oil	IL, IN, MI, MN, OH, WI	
Northern Long-Eared Bat	Manual removal/cleaning of oil	IL, IN, MI, MN, OH, WI	
Plains Spotted Skunk	Manual removal/cleaning of oil	MN	
Prairie Gray Fox	Manual removal/cleaning of oil	MN, WI	
Tricolored Bat	Manual removal/cleaning	IL, IN, MI, MN,	
	of oil	OH, WI	
	Submerged Oil Activ	ities	
Species	Specific Activity	States of	BMPs ¹
May affect not likely to	adversely affect due to implem	Occurrence	inimize impact
	Detection of non-		
	floating/submerged oil		
Illinois Chorus Frog	Recovery of non- floating/submerged oil	IL	
	Containment of non-		
	floating/submerged oil		
May affect, not like	ly to adversely affect due to ins	ignificant or discountal	ble effects
Running Buffalo Clover	Detection of non- floating/submerged oil	IN, OH	
	Wildlife Protection Act	ivities	
Species	Specific Activity	States of Occurrence	BMPs ¹
May affect, not likely to	adversely affect due to implem		inimize impact

	Orations and come of		
Blanding's Turtle	Capture and care of	IL, IN, MI, MN,	
-	contaminated species Capture and care of	OH, WI	
Copperbelly Watersnake, Northern DPS		IN, MI, OH	
DF3	contaminated species Capture and care of		
Eastern Massasauga	contaminated species	IL, IN, MI, OH, WI	
Illinois Chorus Frog	Capture and care of	IL	
	contaminated species		
Spotted Turtle	Capture and care of	IL, IN, MI, OH	
	contaminated species		
Streamside Salamander	Capture and care of	IN, OH	
	contaminated species	, -	
Wood Turtle	Capture and care of	MI, MN, OH, WI	
	contaminated species	, , , , ,	
	Deterrence and hazing		
Gray Bat	Capture and care of	IL, IN	
	contaminated species		
	Deterrence and hazing		
Indiana Bat	Capture and care of	IL, IN, MI, OH	
	contaminated species		
	Deterrence and hazing	IL, IN, MI, MN,	
Little Brown Bat	Capture and care of	OH, WI	
	contaminated species	011, 111	
	Deterrence and hazing	IL, IN, MI, MN,	
Northern Long-Eared Bat	Capture and care of	OH, WI	
	contaminated species		
	Deterrence and hazing		
Tricolored Bat	Capture and care of	IL, IN, MI, MN,	
	contaminated species	OH, WI	
	Deterrence and hazing		
Golden-Winged Warbler	Capture and care of	IL, IN, MI, MN,	
3	contaminated species	OH, WI	
	Deterrence and hazing		
Whooping Crane, Non-Essential		IL, IN, MI, MN,	
Whooping Crane, Non-Essential Population	Capture and care of	IL, IN, MI, MN, OH, WI	
Population	Capture and care of contaminated species	OH, WI	ble effects
Population	Capture and care of contaminated species to adversely affect due to ins	OH, WI	ble effects
Population May affect, not likely	Capture and care of contaminated species to adversely affect due to ins Deterrence and hazing	OH, WI	ble effects
Population	Capture and care of contaminated species to adversely affect due to ins Deterrence and hazing Capture and care of	OH, WI	ble effects
Population May affect, not likely	Capture and care of contaminated species to adversely affect due to ins Deterrence and hazing Capture and care of contaminated species	OH, WI	ble effects
Population May affect, not likely Fassett's Locoweed	Capture and care of contaminated species to adversely affect due to ins Deterrence and hazing Capture and care of contaminated species Deterrence and hazing	OH, WI	ble effects
Population May affect, not likely	Capture and care of contaminated species to adversely affect due to ins Deterrence and hazing Capture and care of contaminated species Deterrence and hazing Capture and care of	OH, WI	ble effects
Population May affect, not likely Fassett's Locoweed	Capture and care of contaminated species to adversely affect due to ins Deterrence and hazing Capture and care of contaminated species Deterrence and hazing Capture and care of contaminated species	OH, WI	ble effects
Population May affect, not likely Fassett's Locoweed Mead's Milkweed	Capture and care of contaminated species to adversely affect due to ins Deterrence and hazing Capture and care of contaminated species Deterrence and hazing Capture and care of contaminated species Deterrence and hazing	OH, WI	ble effects
Population May affect, not likely Fassett's Locoweed	Capture and care of contaminated species to adversely affect due to ins Deterrence and hazing Capture and care of contaminated species Deterrence and hazing Capture and care of contaminated species Deterrence and hazing Capture and care of	OH, WI	ble effects
Population May affect, not likely Fassett's Locoweed Mead's Milkweed	Capture and care of contaminated species to adversely affect due to ins Deterrence and hazing Capture and care of contaminated species Deterrence and hazing Capture and care of contaminated species Deterrence and hazing Capture and care of contaminated species	OH, WI	ble effects
Population May affect, not likely Fassett's Locoweed Mead's Milkweed Minnesota Dwarf Trout Lily	Capture and care of contaminated species to adversely affect due to ins Deterrence and hazing Capture and care of contaminated species Deterrence and hazing Capture and care of contaminated species Deterrence and hazing Capture and care of contaminated species Deterrence and hazing Capture and care of contaminated species	OH, WI	ble effects
Population May affect, not likely Fassett's Locoweed Mead's Milkweed	Capture and care of contaminated species to adversely affect due to ins Deterrence and hazing Capture and care of contaminated species Deterrence and hazing Capture and care of contaminated species Deterrence and hazing Capture and care of contaminated species Deterrence and hazing Capture and care of contaminated species	OH, WI	ble effects
Population May affect, not likely Fassett's Locoweed Mead's Milkweed Minnesota Dwarf Trout Lily	Capture and care of contaminated species to adversely affect due to ins Deterrence and hazing Capture and care of contaminated species Deterrence and hazing Capture and care of contaminated species Deterrence and hazing Capture and care of contaminated species Deterrence and hazing Capture and care of contaminated species	OH, WI	ble effects
Population May affect, not likely Fassett's Locoweed Mead's Milkweed Minnesota Dwarf Trout Lily Pitcher's Thistle	Capture and care of contaminated species to adversely affect due to ins Deterrence and hazing Capture and care of contaminated species Deterrence and hazing Capture and care of contaminated species	OH, WI ignificant or discountal WI IL, IN, WI MN IL, IN, MI, WI	ble effects
Population May affect, not likely Fassett's Locoweed Mead's Milkweed Minnesota Dwarf Trout Lily	Capture and care of contaminated species to adversely affect due to ins Deterrence and hazing Capture and care of contaminated species Deterrence and hazing Capture and care of contaminated species	OH, WI	ble effects
Population May affect, not likely Fassett's Locoweed Mead's Milkweed Minnesota Dwarf Trout Lily Pitcher's Thistle	Capture and care of contaminated species to adversely affect due to ins Deterrence and hazing Capture and care of contaminated species Deterrence and hazing Capture and care of contaminated species	OH, WI ignificant or discountal WI IL, IN, WI MN IL, IN, MI, WI	ble effects
Population May affect, not likely Fassett's Locoweed Mead's Milkweed Minnesota Dwarf Trout Lily Pitcher's Thistle Prairie Bush-clover	Capture and care of contaminated species to adversely affect due to ins Deterrence and hazing Capture and care of contaminated species Deterrence and hazing Capture and care of contaminated species	OH, WI ignificant or discountal WI IL, IN, WI IL, IN, MI, WI IL, MN, WI	ble effects
Population May affect, not likely Fassett's Locoweed Mead's Milkweed Minnesota Dwarf Trout Lily Pitcher's Thistle	Capture and care of contaminated species to adversely affect due to ins Deterrence and hazing Capture and care of contaminated species Deterrence and hazing Capture and care of contaminated species	OH, WI ignificant or discountal WI IL, IN, WI MN IL, IN, MI, WI	ble effects
Population May affect, not likely Fassett's Locoweed Mead's Milkweed Minnesota Dwarf Trout Lily Pitcher's Thistle Prairie Bush-clover	Capture and care of contaminated species to adversely affect due to ins Deterrence and hazing Capture and care of contaminated species Deterrence and hazing Capture and care of contaminated species	OH, WI ignificant or discountal WI IL, IN, WI IL, IN, MI, WI IL, MN, WI	ble effects
Population May affect, not likely Fassett's Locoweed Mead's Milkweed Minnesota Dwarf Trout Lily Pitcher's Thistle Prairie Bush-clover Running Buffalo Clover	Capture and care of contaminated species to adversely affect due to ins Deterrence and hazing Capture and care of contaminated species Deterrence and hazing	OH, WI ignificant or discountal WI IL, IN, WI MN IL, IN, MI, WI IL, MN, WI IL, MN, WI	ble effects
Population May affect, not likely Fassett's Locoweed Mead's Milkweed Minnesota Dwarf Trout Lily Pitcher's Thistle Prairie Bush-clover	Capture and care of contaminated species Deterrence and hazing Capture and care of contaminated species	OH, WI ignificant or discountal WI IL, IN, WI IL, IN, MI, WI IL, MN, WI	ble effects
Population May affect, not likely Fassett's Locoweed Mead's Milkweed Minnesota Dwarf Trout Lily Pitcher's Thistle Prairie Bush-clover Running Buffalo Clover	Capture and care of contaminated species to adversely affect due to ins Deterrence and hazing Capture and care of contaminated species Deterrence and hazing Capture and care of contaminated species	OH, WI ignificant or discountal WI IL, IN, WI MN IL, IN, MI, WI IL, MN, WI IL, MN, WI	ble effects
Population May affect, not likely Fassett's Locoweed Mead's Milkweed Minnesota Dwarf Trout Lily Pitcher's Thistle Prairie Bush-clover Running Buffalo Clover Small Whorled Pogonia	Capture and care of contaminated species to adversely affect due to ins Deterrence and hazing Capture and care of contaminated species Deterrence and hazing Capture and care of contaminated species	OH, WI ignificant or discountal WI IL, IN, WI IL, IN, MI, WI IL, MN, WI IL, MN, OH IL, MI, OH	ble effects
Population May affect, not likely Fassett's Locoweed Mead's Milkweed Minnesota Dwarf Trout Lily Pitcher's Thistle Prairie Bush-clover Running Buffalo Clover Small Whorled Pogonia Dakota Skipper	Capture and care of contaminated species to adversely affect due to ins Deterrence and hazing Capture and care of contaminated species Deterrence and hazing Capture and care of contaminated species	OH, WI ignificant or discountal WI IL, IN, WI MN IL, IN, MI, WI IL, MN, WI IL, MN, WI	ble effects
Population May affect, not likely Fassett's Locoweed Mead's Milkweed Minnesota Dwarf Trout Lily Pitcher's Thistle Prairie Bush-clover Running Buffalo Clover Small Whorled Pogonia	Capture and care of contaminated species to adversely affect due to ins Deterrence and hazing Capture and care of contaminated species Deterrence and hazing Capture and care of contaminated species	OH, WI ignificant or discountal WI IL, IN, WI IL, IN, MI, WI IL, MN, WI IL, MN, OH IL, MI, OH	ble effects
Population May affect, not likely Fassett's Locoweed Mead's Milkweed Minnesota Dwarf Trout Lily Pitcher's Thistle Prairie Bush-clover Running Buffalo Clover Small Whorled Pogonia Dakota Skipper Critical Habitat	Capture and care of contaminated species to adversely affect due to ins Deterrence and hazing Capture and care of contaminated species Deterrence and hazing Capture and care of contaminated species	OH, WI ignificant or discountal WI IL, IN, WI IL, IN, MI, WI IL, MN, WI IL, MN, OH IL, MI, OH	ble effects
Population May affect, not likely Fassett's Locoweed Mead's Milkweed Minnesota Dwarf Trout Lily Pitcher's Thistle Prairie Bush-clover Running Buffalo Clover Small Whorled Pogonia Dakota Skipper	Capture and care of contaminated species to adversely affect due to ins Deterrence and hazing Capture and care of contaminated species Deterrence and hazing Capture and care of contaminated species	OH, WI ignificant or discountal WI IL, IN, WI IL, IN, MI, WI IL, MN, WI IL, MN, OH IL, MI, OH	ble effects
Population May affect, not likely Fassett's Locoweed Mead's Milkweed Minnesota Dwarf Trout Lily Pitcher's Thistle Prairie Bush-clover Running Buffalo Clover Small Whorled Pogonia Dakota Skipper Critical Habitat	Capture and care of contaminated species to adversely affect due to ins Deterrence and hazing Capture and care of contaminated species Deterrence and hazing Capture and care of contaminated species	OH, WI ignificant or discountal WI IL, IN, WI IL, IN, MI, WI IL, MN, WI IL, MN, OH IL, MI, OH MN	ble effects
Population May affect, not likely Fassett's Locoweed Mead's Milkweed Minnesota Dwarf Trout Lily Pitcher's Thistle Prairie Bush-clover Running Buffalo Clover Small Whorled Pogonia Dakota Skipper Critical Habitat	Capture and care of contaminated species to adversely affect due to ins Deterrence and hazing Capture and care of contaminated species Deterrence and hazing Capture and care of contaminated species	OH, WI ignificant or discountal WI IL, IN, WI IL, IN, MI, WI IL, MN, WI IL, MN, WI IL, MI, OH IL, IN, MI, OH, WI	ble effects
Population May affect, not likely Fassett's Locoweed Mead's Milkweed Minnesota Dwarf Trout Lily Pitcher's Thistle Prairie Bush-clover Running Buffalo Clover Small Whorled Pogonia Dakota Skipper Critical Habitat	Capture and care of contaminated species to adversely affect due to ins Deterrence and hazing Capture and care of contaminated species Deterrence and hazing Capture and care of contaminated species	OH, WI ignificant or discountal WI IL, IN, WI IL, IN, MI, WI IL, MN, WI IL, MN, WI IL, MI, OH IL, IN, MI, OH, WI IL, IN, MI, OH, WI IL, IN, MI, MN,	ble effects
Population May affect, not likely Fassett's Locoweed Mead's Milkweed Minnesota Dwarf Trout Lily Pitcher's Thistle Prairie Bush-clover Running Buffalo Clover Small Whorled Pogonia Dakota Skipper Critical Habitat Frosted Elfin Butterfly	Capture and care of contaminated species to adversely affect due to ins Deterrence and hazing Capture and care of contaminated species Deterrence and hazing Capture and care of contaminated species	OH, WI ignificant or discountal WI IL, IN, WI IL, IN, MI, WI IL, MN, WI IL, MN, WI IL, MI, OH IL, IN, MI, OH, WI	ble effects

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	Capture and care of		
	contaminated species		
Manager Dutte after	Deterrence and hazing	IL, IN, MI, MN,	
Monarch Butterfly	Capture and care of	OH, WI	
	contaminated species	- 1	
Rattlesnake-master Borer Moth	Deterrence and hazing		
	Capture and care of	IL	
	contaminated species		
	Deterrence and hazing	IL, IN, MI, MN,	
Regal Fritillary	Capture and care of	OH, WI	
	contaminated species	011, 111	
	Deterrence and hazing	IL, IN, MN, OH,	
Rusty Patched Bumble Bee	Capture and care of	WI	
	contaminated species		
Blanding's Turtle	Deterrence and hazing	IL, IN, MI, MN,	
-	Deterreries and hazing	OH, WI	
Copperbelly Watersnake, Northern	Deterrence and hazing	IN, MI, OH	
DPS	Deterrence and nazing		
Eastern Massasauga	Deterrence and hazing	IL, IN, MI, OH, WI	
Illinois Chorus Frog	Deterrence and hazing	L	
Spotted Turtle	Deterrence and hazing	IL, IN, MI, OH	
Streamside Salamander		IN, OH	
	Deterrence and hazing		
Wood Turtle	Deterrence and hazing	MI, MN, OH, WI	
	Deterrence and hazing		
Canada Lynx	Capture and care of	MI, MN, WI	
	contaminated species		
	Deterrence and hazing		
Gray Wolf	Capture and care of	MI, MN, WI	
	contaminated species		
	Deterrence and hazing		
Plains Spotted Skunk	Capture and care of	MN	
	contaminated species		
	contaminated species Deterrence and hazing		
Prairie Gray Fox	Deterrence and hazing	MN, WI	
Prairie Gray Fox	· · · · · · · · · · · · · · · · · · ·	MN, WI	
·	Deterrence and hazing Capture and care of contaminated species		
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L Species May affect, likely	Deterrence and hazing Capture and care of contaminated species ocating, Tracking, and Supp Specific Activity y to adversely affect - discuss Creation/use of new	ort Activities States of Occurrence	
L	Deterrence and hazing Capture and care of contaminated species ocating, Tracking, and Supp Specific Activity to adversely affect - discuss Creation/use of new access points Creation/use of staging areas	ort Activities States of Occurrence	
L Species May affect, likely	Deterrence and hazing Capture and care of contaminated species ocating, Tracking, and Supp Specific Activity (to adversely affect - discuss Creation/use of new access points Creation/use of staging	ort Activities States of Occurrence	
L Species May affect, likely	Deterrence and hazing Capture and care of contaminated species ocating, Tracking, and Supp Specific Activity to adversely affect - discuss Creation/use of new access points Creation/use of staging areas	ort Activities States of Occurrence	
L Species May affect, likely Iowa Pleistocene Snail	Deterrence and hazing Capture and care of contaminated species ocating, Tracking, and Supp Specific Activity y to adversely affect - discuss Creation/use of new access points Creation/use of staging areas Access of personnel by	ort Activities States of Occurrence cossible BMPs with Se	ervices
L Species May affect, likely Iowa Pleistocene Snail	Deterrence and hazing Capture and care of contaminated species ocating, Tracking, and Supp Specific Activity y to adversely affect - discuss Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic	ort Activities States of Occurrence cossible BMPs with Se	ervices
L Species May affect, likely Iowa Pleistocene Snail	Deterrence and hazing Capture and care of contaminated species ocating, Tracking, and Supp Specific Activity y to adversely affect - discuss Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic adversely affect due to implem	ort Activities States of Occurrence cossible BMPs with Se	ervices
L Species May affect, likely Iowa Pleistocene Snail May affect, not likely to a	Deterrence and hazing Capture and care of contaminated species ocating, Tracking, and Supp Specific Activity y to adversely affect - discuss Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic adversely affect due to implem Creation/use of new	ort Activities States of Occurrence Dossible BMPs with Se IL entation of BMPs to m	ervices
L Species May affect, likely Iowa Pleistocene Snail	Deterrence and hazing Capture and care of contaminated species ocating, Tracking, and Supp Specific Activity y to adversely affect - discuss Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic adversely affect due to implem Creation/use of new access points	ort Activities States of Occurrence cossible BMPs with Se	ervices
L Species May affect, likely Iowa Pleistocene Snail May affect, not likely to a	Deterrence and hazing Capture and care of contaminated species ocating, Tracking, and Supp Specific Activity y to adversely affect - discuss Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic adversely affect due to implem Creation/use of new access points Creation/use of new access points Creation/use of staging	ort Activities States of Occurrence Dossible BMPs with Se IL entation of BMPs to m	ervices
L Species May affect, likely Iowa Pleistocene Snail May affect, not likely to a	Deterrence and hazing Capture and care of contaminated species ocating, Tracking, and Supp Specific Activity y to adversely affect - discuss Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic adversely affect due to implem Creation/use of new access points Creation/use of new access points Creation/use of staging areas	ort Activities States of Occurrence Dossible BMPs with Se IL entation of BMPs to m	ervices
L Species May affect, likely Iowa Pleistocene Snail May affect, not likely to a	Deterrence and hazing Capture and care of contaminated species ocating, Tracking, and Supp Specific Activity y to adversely affect - discuss Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic adversely affect due to implem Creation/use of new access points Creation/use of new access points Creation/use of staging areas Access of personnel by	ort Activities States of Occurrence Dossible BMPs with Se IL entation of BMPs to m	ervices
L Species May affect, likely Iowa Pleistocene Snail May affect, not likely to a	Deterrence and hazing Capture and care of contaminated species ocating, Tracking, and Supp Specific Activity y to adversely affect - discuss Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic adversely affect due to implem Creation/use of new access points Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic	ort Activities States of Occurrence Dossible BMPs with Se IL entation of BMPs to m	ervices
L Species May affect, likely Iowa Pleistocene Snail May affect, not likely to a	Deterrence and hazing Capture and care of contaminated species ocating, Tracking, and Supp Specific Activity / to adversely affect - discuss Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic adversely affect due to implem Creation/use of new access points Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic Use of vehicles	ort Activities States of Occurrence Dossible BMPs with Se IL entation of BMPs to m	ervices
L Species May affect, likely Iowa Pleistocene Snail May affect, not likely to a	Deterrence and hazing Capture and care of contaminated species ocating, Tracking, and Supp Specific Activity / to adversely affect - discuss Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic adversely affect due to implem Creation/use of new access points Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic Use of vehicles Use of	ort Activities States of Occurrence Dossible BMPs with Se IL entation of BMPs to m	ervices
L Species May affect, likely Iowa Pleistocene Snail May affect, not likely to a American Hart's-tongue Fern	Deterrence and hazing Capture and care of contaminated species ocating, Tracking, and Supp Specific Activity / to adversely affect - discuss Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic adversely affect due to implem Creation/use of new access points Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic Use of venicles Use of machinery/supporting	ort Activities States of Occurrence IL entation of BMPs to m MI	ervices
L Species May affect, likely Iowa Pleistocene Snail May affect, not likely to a	Deterrence and hazing Capture and care of contaminated species ocating, Tracking, and Supp Specific Activity y to adversely affect - discuss Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic adversely affect due to implem Creation/use of new access points Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic Use of vehicles Use of machinery/supporting equipment	ort Activities States of Occurrence Dossible BMPs with Se IL entation of BMPs to m	ervices
L Species May affect, likely Iowa Pleistocene Snail May affect, not likely to a American Hart's-tongue Fern	Deterrence and hazing Capture and care of contaminated species ocating, Tracking, and Supp Specific Activity y to adversely affect - discuss Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic adversely affect due to implem Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic Use of vehicles Use of machinery/supporting equipment Creation/use of new	ort Activities States of Occurrence IL entation of BMPs to m MI	ervices
L Species May affect, likely Iowa Pleistocene Snail May affect, not likely to a American Hart's-tongue Fern	Deterrence and hazing Capture and care of contaminated species ocating, Tracking, and Supp Specific Activity y to adversely affect - discuss Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic adversely affect due to implem Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic Use of staging areas Access of personnel by foot traffic Use of vehicles Use of machinery/supporting equipment Creation/use of new access points	ort Activities States of Occurrence IL entation of BMPs to m MI	ervices
L Species May affect, likely Iowa Pleistocene Snail May affect, not likely to a American Hart's-tongue Fern	Deterrence and hazing Capture and care of contaminated species ocating, Tracking, and Supp Specific Activity y to adversely affect - discuss Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic adversely affect due to implem Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic Use of vehicles Use of machinery/supporting equipment Creation/use of staging access points Creation/use of new access points Creation/use of new access points Creation/use of new access points Creation/use of staging	ort Activities States of Occurrence IL entation of BMPs to m MI	ervices
L Species May affect, likely Iowa Pleistocene Snail May affect, not likely to a American Hart's-tongue Fern	Deterrence and hazing Capture and care of contaminated species ocating, Tracking, and Supp Specific Activity y to adversely affect - discuss Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic adversely affect due to implem Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of staging areas	ort Activities States of Occurrence IL entation of BMPs to m MI	ervices
L Species May affect, likely Iowa Pleistocene Snail May affect, not likely to a American Hart's-tongue Fern	Deterrence and hazing Capture and care of contaminated species ocating, Tracking, and Supp Specific Activity / to adversely affect - discuss Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic adversely affect due to implem Creation/use of new access points Creation/use of new access of personnel by foot traffic Use of personnel by foot traffic Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Access of personnel by	ort Activities States of Occurrence IL entation of BMPs to m MI	ervices
L Species May affect, likely Iowa Pleistocene Snail May affect, not likely to a American Hart's-tongue Fern Dwarf Lake Iris	Deterrence and hazing Capture and care of contaminated species ocating, Tracking, and Supp Specific Activity / to adversely affect - discuss Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic adversely affect due to implem Creation/use of staging areas Access of personnel by foot traffic Use of vehicles Use of machinery/supporting equipment Creation/use of staging areas Access of new access points Creation/use of staging areas Access of personnel by foot traffic	ort Activities States of Occurrence IL entation of BMPs to m MI MI, WI	ervices
L Species May affect, likely Iowa Pleistocene Snail May affect, not likely to a American Hart's-tongue Fern	Deterrence and hazing Capture and care of contaminated species ocating, Tracking, and Supp Specific Activity / to adversely affect - discuss Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic adversely affect due to implem Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of new access points Creation/use of new access points Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic Use of vehicles Use of new access points Creation/use of staging areas Access of personnel by foot traffic	ort Activities States of Occurrence IL entation of BMPs to m MI	ervices

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	Creation/use of new access points		
	Creation/use of staging		
	areas		
	Access of personnel by		
	foot		
	Creation/use of new		
	access points		
Lakeside Daisy	Creation/use of staging	IL, MI, OH	
	areas Access of personnel by		
	foot traffic		
	Creation/use of new		
	access points		
Leafe Drairia alayer	Creation/use of staging		
Leafy Prairie-clover	areas	IL	
	Access of personnel by		
	foot traffic		
	Creation/use of new		
	access points		
Leedy's Roseroot	Creation/use of staging areas	MN	
	Access of personnel by		
	foot traffic		
	Use of vehicles		
	Use of		
	machinery/supporting		
	equipment		
Mead's Milkweed	Creation/use of new	IL, IN, WI	
Moda o Millitroca	access points		
	Creation/use of staging		
	areas		
	Access of personnel by foot traffic		
	Use of vehicles		
	Use of		
	machinery/supporting		
Minnesota Dwarf Trout Lily	equipment	MN	
Winnesola Dwarr Hout Eny	Creation/use of new	IVIIN	
	access points		
	Creation/use of staging		
	areas Creation/use of new		
	access points		
	Creation/use of staging		
Northern Wild Monkshood	areas	OH, WI	
	Access of personnel by		
	foot traffic		
	Use of vehicles		
	Use of		
	machinery/supporting		
	equipment		
Pitcher's Thistle	Creation/use of new access points	IL, IN, MI, WI	
	Creation/use of staging		
	areas		
	Access of personnel by		
	foot traffic		
	Use of vehicles		
	Use of		
	machinery/supporting		
	equipment Creation/use of now		
Prairie Bush-clover	Creation/use of new access points	IL, MN, WI	
	Creation/use of staging		
	areas		
	Access of personnel by		
	foot traffic		
Running Buffalo Clover	Use of vehicles	IN, OH	

	Llos of		
	Use of machinery/supporting		
	equipment		
	Creation/use of new		
	access points		
	Creation/use of staging		
	areas		
	Creation/use of new		
	access points		
Short's Bladderpod	Creation/use of staging	IN	
Critical Habitat	areas		
	Access of personnel by		
	foot traffic		
	Creation/use of new		
	access points		
Short's Goldenrod	Creation/use of staging	IN	
	areas Access of personnel by		
	foot traffic		
	Use of vehicles		
	Use of		
	machinery/supporting		
	equipment		
Small Whenlad Departs	Creation/use of new		
Small Whorled Pogonia	access points	IL, MI, OH	
	Creation/use of staging		
	areas		
	Access of personnel by		
	foot traffic		
	Creation/use of new		
	access points		
Western Prairie Fringed Orchid	Creation/use of staging	MN	
ő	areas		
	Access of personnel by foot traffic		
	Creation/use of new		
	access points		
	Creation/use of staging		
American Burying Beetle	areas	MI, OH	
	Access of personnel by		
	foot traffic		
	Use of vehicles		
	Use of		
	machinery/supporting		
	equipment		
Dakota Skipper	Creation/use of new	MN	
Critical Habitat	access points		
	Creation/use of staging		
	areas		
	Access of personnel by foot traffic		
	Use of vehicles		
	Use of		
	machinery/supporting		
	equipment		
Excelent Elfer Durit - C	Creation/use of new		
Frosted Elfin Butterfly	access points	IL, IN, MI, OH, WI	
	Creation/use of staging		
	areas		
	Access of personnel by		
	foot traffic		
	Use of vehicles		
	Use of		
	machinery/supporting		
Karner Blue Butterfly	equipment	IL, IN, MI, MN,	
· · · · · · · · · · · · · · · · · · ·	Creation/use of new	OH, WI	
	access points		
	Creation/use of staging areas		

	Access of personnel by		
	foot traffic		
Linda's Roadside Skipper	Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic	IL	
Monarch Butterfly	Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic	IL, IN, MI, MN, OH, WI	
Poweshiek Skipperling Critical Habitat	Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic	MI, MN, WI	
Rattlesnake-master Borer Moth	Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic	IL	
Regal Fritillary	Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic	IL, IN, MI, MN, OH, WI	
Rusty Patched Bumble Bee	Use of vehicles Use of machinery/supporting equipment Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic	IL, IN, MN, OH, WI	
Blanding's Turtle	Use of vehicles Creation/use of new access points Creation/use of staging areas Access of personnel by foot traffic	IL, IN, MI, OH, WI	
Copperbelly Watersnake, Northern DPS	Use of vehicles Creation/use of new access points	IN, MI, OH	

	Creation/use of staging		
	areas Access of personnel by		
	foot traffic		
	Use of vehicles		
	Creation/use of new		
	access points		
Eastern Massasauga	Creation/use of staging	IL, IN, MI, OH, WI	
	areas		
	Access of personnel by		
	foot traffic		
	Creation/use of new access points		
	Creation/use of staging		
Illinois Chorus Frog	areas	IL	
	Access of personnel by		
	foot traffic		
	Use of vehicles		
	Creation/use of new		
0 11 17 11	access points		
Spotted Turtle	Creation/use of staging	IL, IN, MI, OH	
	areas Access of personnel by		
	foot traffic		
	Use of vehicles		
	Creation/use of new		
	access points		
Streamside Salamander	Creation/use of staging	IN, OH	
	areas		
	Access of personnel by		
	foot traffic		
	Use of vehicles		
	Creation/use of new access points		
Wood Turtle	Creation/use of staging	MI, MN, OH, WI	
wood fulle	areas		
	Access of personnel by		
	foot traffic		
Canada Lynx	Use of aircraft	MI, MN, WI	
Odriddd Lyfrx	Use of vehicles	1011, 10114, 001	
	Use of aircraft		
	Creation/use of new		
Gray Bat	access points Creation/use of staging	IL, IN	
Glay Bat	areas	I⊑, IIN	
	Access of personnel by		
	foot traffic		
Gray Wolf	Use of aircraft	MI, MN, WI	
Gray Woll	Use of vehicles	1011, 10119, 001	
	Use of aircraft		
	Creation/use of new		
Indiana Bat	access points		
inuidrid Dal	Creation/use of staging areas	IL, IN, MI, OH	
	Access of personnel by		
	foot traffic		
	Use of aircraft	1	
	Creation/use of new		
	access points	IL, IN, MI, MN,	
Little Brown Bat	Creation/use of staging	OH, WI	
	areas	,	
	Access of personnel by		
	foot traffic	1	
	Lieo of aircraft		
	Use of aircraft Creation/use of new		
Northern Long-Eared Bat	Creation/use of new	IL, IN, MI, MN,	
Northern Long-Eared Bat		IL, IN, MI, MN, OH, WI	
Northern Long-Eared Bat	Creation/use of new access points		

	Access of personnel by		
	foot traffic		
Plains Spotted Skunk	Use of aircraft Use of vehicles	MN	
Prairie Gray Fox	Use of aircraft	MN, WI	
	Use of vehicles	,	
	Use of aircraft Creation/use of new		
	access points		
Tricolored Bat	Creation/use of staging	IL, IN, MI, MN,	
	areas	OH, WI	
	Access of personnel by		
	foot traffic Use of aircraft		
	Creation/use of new		
	access points	IL, IN, MI, MN,	
Golden-Winged Warbler	Creation/use of staging	OH, WI	
	areas		
	Access of personnel by foot traffic		
May affect, not likely	/ to adversely affect due to insi	-	ble effects
Blanding's Turtle	Use of aircraft	IL, IN, MI, OH, WI	
Illinois Chorus Frog	Use of vessels	IL	
Spotted Turtle	Use of aircraft	IL, IN, MI, OH	
Wood Turtle	Use of aircraft	MI, MN, OH, WI	
	Creation/use of new		
	access points Creation/use of staging		
Canada Lynx	areas	MI, MN, WI	
	Access of personnel by		
	foot traffic		
	Creation/use of new access points		
	Creation/use of staging		
Gray Wolf	areas	MI, MN, WI	
	Access of personnel by		
	foot traffic		
Indiana Bat	Use of vehicles	IL, IN, MI, OH IL, IN, MI, MN,	
Northern Long-Eared Bat	Use of vehicles	OH, WI	
	Creation/use of new		
	access points Creation/use of staging		
Plains Spotted Skunk	areas	MN	
	Access of personnel by		
	foot traffic		
	Creation/use of new	1	
	access points		
Prairie Gray Fox	access points Creation/use of staging	MN, WI	
Prairie Gray Fox	access points Creation/use of staging areas Access of personnel by	MN, WI	
Prairie Gray Fox	access points Creation/use of staging areas		
Prairie Gray Fox Tricolored Bat	access points Creation/use of staging areas Access of personnel by	MN, WI IL, IN, MI, MN, OH, WI	
Tricolored Bat	access points Creation/use of staging areas Access of personnel by foot traffic Use of vehicles ial considerations needed, high	IL, IN, MI, MN, OH, WI	
Tricolored Bat	access points Creation/use of staging areas Access of personnel by foot traffic Use of vehicles ial considerations needed, high Natural attenuation	IL, IN, MI, MN, OH, WI	
Tricolored Bat	access points Creation/use of staging areas Access of personnel by foot traffic Use of vehicles ial considerations needed, high Natural attenuation Locating, sampling, and	IL, IN, MI, MN, OH, WI	
Tricolored Bat Speci	access points Creation/use of staging areas Access of personnel by foot traffic Use of vehicles ial considerations needed, high Natural attenuation Locating, sampling, and monitoring air, land, and	IL, IN, MI, MN, OH, WI level of concern	
Tricolored Bat Speci	access points Creation/use of staging areas Access of personnel by foot traffic Use of vehicles ial considerations needed, high Natural attenuation Locating, sampling, and	IL, IN, MI, MN, OH, WI level of concern	
Tricolored Bat Speci	access points Creation/use of staging areas Access of personnel by foot traffic Use of vehicles ial considerations needed, high Natural attenuation Locating, sampling, and monitoring air, land, and water Natural attenuation Locating, sampling, and	IL, IN, MI, MN, OH, WI level of concern MI	
Tricolored Bat Speci	access points Creation/use of staging areas Access of personnel by foot traffic Use of vehicles ial considerations needed, high Natural attenuation Locating, sampling, and monitoring air, land, and Locating, sampling, and monitoring air, land, and	IL, IN, MI, MN, OH, WI level of concern	
Tricolored Bat Speci American Hart's-tongue Fern	access points Creation/use of staging areas Access of personnel by foot traffic Use of vehicles ial considerations needed, high Natural attenuation Locating, sampling, and monitoring air, land, and water Natural attenuation Locating, sampling, and	IL, IN, MI, MN, OH, WI level of concern MI	

	Leasting server 1	<u>г</u>	
	Locating, sampling, and monitoring air, land, and water		
Lakeside Daisy	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, MI, OH	
Leafy Prairie-clover	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL	
Leedy's Roseroot	Natural attenuation Locating, sampling, and monitoring air, land, and water	MN	
Mead's Milkweed	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, IN, WI	
Minnesota Dwarf Trout Lily	Natural attenuation Locating, sampling, and monitoring air, land, and water	MN	
Northern Wild Monkshood	Natural attenuation Locating, sampling, and monitoring air, land, and water	OH, WI	
Pitcher's Thistle	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, IN, MI, WI	
Prairie Bush-clover	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, MN, WI	
Running Buffalo Clover	Natural attenuation Locating, sampling, and monitoring air, land, and water	IN, OH	
Short's Bladderpod Critical Habitat	Natural attenuation Locating, sampling, and monitoring air, land, and water	IN	
Short's Goldenrod	Natural attenuation Locating, sampling, and monitoring air, land, and water	IN	
Small Whorled Pogonia	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, MI, OH	
Western Prairie Fringed Orchid	Natural attenuation Locating, sampling, and monitoring air, land, and water	MN	
Iowa Pleistocene Snail	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL	
American Burying Beetle	Natural attenuation Locating, sampling, and monitoring air, land, and water	MI, OH	
Dakota Skipper Critical Habitat	Natural attenuation Locating, sampling, and monitoring air, land, and water	MN	
Frosted Elfin Butterfly	Natural attenuation	IL, IN, MI, OH, WI	

	Locating campling and		
	Locating, sampling, and monitoring air, land, and water		
Karner Blue Butterfly	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, IN, MI, MN, OH, WI	
Linda's Roadside Skipper	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL	
Monarch Butterfly	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, IN, MI, MN, OH, WI	
Poweshiek Skipperling Critical Habitat	Natural attenuation Locating, sampling, and monitoring air, land, and water	MI, MN, WI	
Rattlesnake-master Borer Moth	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL	
Regal Fritillary	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, IN, MI, MN, OH, WI	
Rusty Patched Bumble Bee	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, IN, MN, OH, WI	
Blanding's Turtle	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, IN, MI, OH, WI	
Copperbelly Watersnake, Northern DPS	Natural attenuation Locating, sampling, and monitoring air, land, and water	IN, MI, OH	
Eastern Massasauga	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, IN, MI, OH, WI	
Illinois Chorus Frog	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL	
Spotted Turtle	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, IN, MI, OH	
Streamside Salamander	Natural attenuation Locating, sampling, and monitoring air, land, and water	IN, OH	
Wood Turtle	Natural attenuation Locating, sampling, and monitoring air, land, and water	MI, MN, OH, WI	
Canada Lynx	Natural attenuation Locating, sampling, and monitoring air, land, and water	MI, MN, WI	
Gray Bat	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, IN	
Gray Wolf	Natural attenuation	MI, MN, WI	

	Locating, sampling, and monitoring air, land, and water		
Indiana Bat	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, IN, MI, OH	
Little Brown Bat	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, IN, MI, MN, OH, WI	
Northern Long-Eared Bat	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, IN, MI, MN, OH, WI	
Plains Spotted Skunk	Natural attenuation Locating, sampling, and monitoring air, land, and water	MN	
Prairie Gray Fox	Natural attenuation Locating, sampling, and monitoring air, land, and water	MN, WI	
Tricolored Bat	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, IN, MI, MN, OH, WI	
Golden-Winged Warbler	Natural attenuation Locating, sampling, and monitoring air, land, and water	IL, IN, MI, MN, OH, WI	
	Waste Management Ac	tivities	
Species	Specific Activity	States of Occurrence	BMPs ¹
•		States of Occurrence	
•	Specific Activity	States of Occurrence	
May affect, likel	Specific Activity y to adversely affect - discuss y Temporary storage (on land)	States of Occurrence possible BMPs with Se	rvices
May affect, likel	Specific Activity y to adversely affect - discuss y Temporary storage (on land) Decontamination adversely affect due to implem Temporary storage (on land) Decontamination	States of Occurrence possible BMPs with Se	rvices
May affect, likel Iowa Pleistocene Snail May affect, not likely to	Specific Activity y to adversely affect - discuss y Temporary storage (on land) Decontamination adversely affect due to implem Temporary storage (on land) Decontamination Temporary storage (on land)	States of Occurrence possible BMPs with Se IL entation of BMPs to m	rvices
May affect, likel Iowa Pleistocene Snail May affect, not likely to American Hart's-tongue Fern	Specific Activity y to adversely affect - discuss y Temporary storage (on land) Decontamination adversely affect due to implem Temporary storage (on land) Decontamination Temporary storage (on land) Waste handling Temporary storage (on water) Temporary storage (on land) Decontamination	States of Occurrence possible BMPs with Se IL entation of BMPs to m MI	rvices
May affect, likel Iowa Pleistocene Snail May affect, not likely to American Hart's-tongue Fern Decurrent False Aster	Specific Activity y to adversely affect - discuss y Temporary storage (on land) Decontamination adversely affect due to implem Temporary storage (on land) Decontamination Temporary storage (on land) Waste handling Temporary storage (on land) Decontamination Temporary storage (on land) Decontamination Temporary storage (on land)	States of Occurrence possible BMPs with Se IL entation of BMPs to m MI IL	rvices
May affect, likel Iowa Pleistocene Snail May affect, not likely to American Hart's-tongue Fern Decurrent False Aster Dwarf Lake Iris	Specific Activity y to adversely affect - discuss y Temporary storage (on land) Decontamination adversely affect due to implem Temporary storage (on land) Decontamination Temporary storage (on land) Waste handling Temporary storage (on water) Temporary storage (on land) Decontamination Temporary storage (on land)	States of Occurrence possible BMPs with Se IL entation of BMPs to m MI IL IL MI, WI	rvices
May affect, likel Iowa Pleistocene Snail May affect, not likely to American Hart's-tongue Fern Decurrent False Aster Dwarf Lake Iris Eastern Prairie Fringed Orchid	Specific Activity y to adversely affect - discuss y Temporary storage (on land) Decontamination adversely affect due to implem Temporary storage (on land) Decontamination Temporary storage (on land) Waste handling Temporary storage (on land) Decontamination Temporary storage (on land) Waste handling Temporary storage (on land) Decontamination Temporary storage (on land) Decontamination Temporary storage (on land) Decontamination	States of Occurrence possible BMPs with Se IL entation of BMPs to m MI IL IL IL	rvices
May affect, likel Iowa Pleistocene Snail May affect, not likely to American Hart's-tongue Fern Decurrent False Aster Dwarf Lake Iris Eastern Prairie Fringed Orchid Fassett's Locoweed	Specific Activity y to adversely affect - discuss y Temporary storage (on land) Decontamination adversely affect due to implem Temporary storage (on land) Decontamination Temporary storage (on land) Waste handling Temporary storage (on land) Decontamination Temporary storage (on land) Waste handling Temporary storage (on land) Waste handling Temporary storage (on land) Decontamination Temporary storage (on land) Decontamination	States of Occurrence IL entation of BMPs to m MI IL IL IL IL IL, IN, MI, OH, WI WI	rvices
May affect, likel Iowa Pleistocene Snail May affect, not likely to American Hart's-tongue Fern Decurrent False Aster Dwarf Lake Iris Eastern Prairie Fringed Orchid Fassett's Locoweed Hall's Bulrush	Specific Activity y to adversely affect - discuss y Temporary storage (on land) Decontamination adversely affect due to implem Temporary storage (on land) Decontamination Temporary storage (on land) Waste handling Temporary storage (on land) Decontamination Temporary storage (on land) Waste handling Temporary storage (on land) Waste handling Temporary storage (on land) Decontamination Temporary storage (on land) Decontamination Temporary storage (on land) Decontamination	States of Occurrence IL entation of BMPs to m MI IL IL MI, WI IL, IN, MI, OH, WI UL, IN, MI, OH, WI	rvices

	Temporary storage (on		
Leedy's Roseroot	land) Decontamination	MN	
Mead's Milkweed	Temporary storage (on land) Decontamination	IL, IN, WI	
Michigan Monkey Flower	Temporary storage (on land)	MI	
Minnesota Dwarf Trout Lily	Temporary storage (on land) Decontamination	MN	
Northern Wild Monkshood	Temporary storage (on land) Decontamination	OH, WI	
Pitcher's Thistle	Temporary storage (on land) Decontamination	IL, IN, MI, WI	
Prairie Bush-clover	Temporary storage (on land) Decontamination	IL, MN, WI	
Running Buffalo Clover	Temporary storage (on land) Decontamination	IN, OH	
Short's Bladderpod Critical Habitat	Temporary storage (on land) Decontamination	IN	
Short's Goldenrod	Temporary storage (on land) Decontamination	IN	
Small Whorled Pogonia	Temporary storage (on land) Decontamination	IL, MI, OH	
Western Prairie Fringed Orchid	Temporary storage (on land) Decontamination	MN	
American Burying Beetle	Temporary storage (on land) Decontamination	MI, OH	
Dakota Skipper Critical Habitat	Temporary storage (on land) Decontamination	MN	
Frosted Elfin Butterfly	Temporary storage (on land) Decontamination	IL, IN, MI, OH, WI	
Karner Blue Butterfly	Temporary storage (on land) Decontamination	IL, IN, MI, MN, OH, WI	
Linda's Roadside Skipper	Temporary storage (on land) Decontamination	IL	
Monarch Butterfly	Temporary storage (on land) Decontamination	IL, IN, MI, MN, OH, WI	
Poweshiek Skipperling Critical Habitat	Temporary storage (on land) Decontamination	MI, MN, WI	
Rattlesnake-master Borer Moth	Temporary storage (on land) Decontamination	IL	
Regal Fritillary	Temporary storage (on land) Decontamination	IL, IN, MI, MN, OH, WI	
Rusty Patched Bumble Bee	Temporary storage (on land) Decontamination	IL, IN, MN, OH, WI	
Blanding's Turtle	Temporary storage (on land) Decontamination	IL, IN, MI, OH, WI	

	Temporary storage (on		
Copperbelly Watersnake, Northern DPS	land) Decontamination	IN, MI, OH	
Eastern Massasauga	Temporary storage (on land)	IL, IN, MI, OH, WI	
Illinois Chorus Frog	Decontamination Waste handling Decanting	IL	
Initions Chorus Frog	Decontamination Temporary storage (on		
Spotted Turtle	land) Decontamination	IL, IN, MI, OH	
Streamside Salamander	Waste handling Temporary storage (on land) Decontamination	IN, OH	
Wood Turtle	Temporary storage (on land) Decontamination	MI, MN, OH, WI	
Gray Bat	Temporary storage (on land) Decontamination	IL, IN	
Indiana Bat	Temporary storage (on land) Decontamination	IL, IN, MI, OH	
Little Brown Bat	Temporary storage (on land) Decontamination	IL, IN, MI, MN, OH, WI	
Northern Long-Eared Bat	Temporary storage (on land) Decontamination	IL, IN, MI, MN, OH, WI	
Tricolored Bat	Temporary storage (on land) Decontamination	IL, IN, MI, MN, OH, WI	
Golden-Winged Warbler	Temporary storage (on land) Decontamination	IL, IN, MI, MN, OH, WI	
May affect, not likely	to adversely affect due to ins	ignificant or discountal	ble effects
American Hart's-tongue Fern	Waste handling	MI	
Lakeside Daisy	Waste handling	IL, MI, OH	
Leafy Prairie-clover	Waste handling	IL	
Leedy's Roseroot	Waste handling	MN	
Mead's Milkweed	Waste handling	IL, IN, WI	
Minnesota Dwarf Trout Lily	Waste handling	MN	
Northern Wild Monkshood	Waste handling	OH, WI	
Pitcher's Thistle	Waste handling	IL, IN, MI, WI	
Prairie Bush-clover	Waste handling	IL, MN, WI	
Running Buffalo Clover	Waste handling	IN, OH	
Short's Bladderpod Critical Habitat	Waste handling	IN	
Short's Goldenrod	Waste handling	IN	
Small Whorled Pogonia	Waste handling	IL, MI, OH	
Western Prairie Fringed Orchid	Waste handling	MN	
Iowa Pleistocene Snail	Waste handling	IL NI OLI	
American Burying Beetle	Waste handling	MI, OH	
Dakota Skipper Critical Habitat	Waste handling	MN	
Frosted Elfin Butterfly	Waste handling	IL, IN, MI, OH, WI IL, IN, MI, MN,	
Karner Blue Butterfly	Waste handling	OH, WI	
Linda's Roadside Skipper	Waste handling	IL IL, IN, MI, MN,	
Monarch Butterfly	Waste handling	OH, WI	
Poweshiek Skipperling Critical Habitat	Waste handling	MI, MN, WI	

Rattlesnake-master Borer Moth	Waste handling	IL	
Regal Fritillary	Waste handling	IL, IN, MI, MN, OH, WI	
Rusty Patched Bumble Bee	Waste handling	IL, IN, MN, OH, WI	
Blanding's Turtle	Waste handling	IL, IN, MI, OH, WI	
Copperbelly Watersnake, Northern DPS	Waste handling	IN, MI, OH	
Eastern Massasauga	Waste handling	IL, IN, MI, OH, WI	
Spotted Turtle	Waste handling	IL, IN, MI, OH	
Wood Turtle	Waste handling	MI, MN, OH, WI	
Canada Lynx	Waste handling	MI, MN, WI	
Gray Bat	Waste handling	IL, IN	
Gray Wolf	Waste handling	MI, MN, WI	
Indiana Bat	Waste handling	IL, IN, MI, OH	
Little Brown Bat	Waste handling	IL, IN, MI, MN, OH, WI	
Northern Long-Eared Bat	Waste handling	IL, IN, MI, MN, OH, WI	
Plains Spotted Skunk	Waste handling	MN	
Prairie Gray Fox	Waste handling	MN, WI	
Tricolored Bat	Waste handling	IL, IN, MI, MN, OH, WI	
Golden-Winged Warbler	Waste handling	IL, IN, MI, MN, OH, WI	

Appendix H